

2006 Communications



Panasonic ideas for life

Intelligent ideas. Innovative solutions.



At Panasonic, we're committed to better understanding the way people live, work and play. We never stop trying to increase our knowledge of the ways in which technology can improve people's lives. The insights we gain from these efforts make it possible to continually transform ideas into products that make our customers' lives simpler, more enjoyable, more productive and more secure.

Ideas like our Bluetooth Cordless Cameras which let you monitor a sleeping baby from the next room or our Network Cameras which let you monitor your home while vacationing in another state. Imagine the peace of mind afforded by our new cordless models which offer optional monitoring cameras with motion and audio detection.



2006 Communications



See There When You Can't Be There™. With our complete line of Network Cameras, place the cameras in your office, vacation home, warehouse or anywhere you need to keep an eye on things. Wondering if the kids are home from school? Have a picture emailed to you at work when they open the front door at home. Don't want to go downstairs to open the front door? Buzz the door open from a web browser.

Our groundbreaking HD-PLC Ethernet Adaptors give you the ability to create a powerful network right in your home using only your existing electrical wiring without the usual hassles and complicated installation.

From expandable telephone systems that let you put a handset anywhere a phone is needed to multi-functional fax machines that scan, copy and sort, Panasonic makes it easier than ever to stay connected.



Panasonic ideas for life

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See There

When You Can't Be There™



*Are the kids home from school yet?
How is the nanny getting along?
What's going on at your store?
What set off the alarm?
What's the dog up to?*

Place these Plug & Play cameras in your home, office, vacation home or almost anywhere else that you'd like to keep an eye on things, with no PC required on location!

Panasonic Network Cameras can be viewed and controlled from a standard web browser. They're easy to install, easy to operate and require no additional software for viewing on your PC, PDA or cell phone.

IP Network Cameras

New Camera Solutions for Internet Viewing

Panasonic network cameras are an innovative new way to keep an eye on your home, business, vacation home or just about anywhere else.



You can view images from a compatible cell phone, PC or PDA*. Each camera is web-enabled, so no PC is required at the camera locations. All you need is a broadband connection.

And some Panasonic network cameras can be placed virtually anywhere, indoors or outdoors, with wired or wireless operation (select models). View up to 8 local or remote cameras on your TV (with optional TV adapter) with full zoom, pan and tilt control.

Look into the innovative network cameras from Panasonic today.

*View/Control from
your Computer*



*View/Control from your
Cell Phone or PDA*



To allow easy viewing from a computer or cell phone, you can choose a personal web address, which can allow access to the password protected web page built into each camera.

And the cameras connect directly to your router, so you don't even need a computer on location.



Home Use



Watch your pets

You can watch your pets while on vacation, so you always feel close to your animals. Because images can be temporarily recorded during specified zone times in the camera's built-in memory, you can view them at your leisure after returning home.



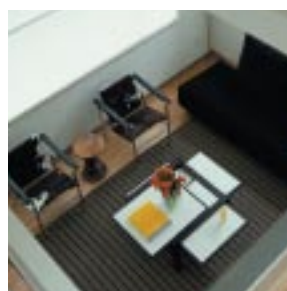
Watch your child's room

The network camera lets you watch your sleeping child without entering the child's room, so you can continue with whatever you're doing. Color night view mode clearly shows the face of your sleeping child even in darker rooms where the light would be insufficient for conventional cameras.



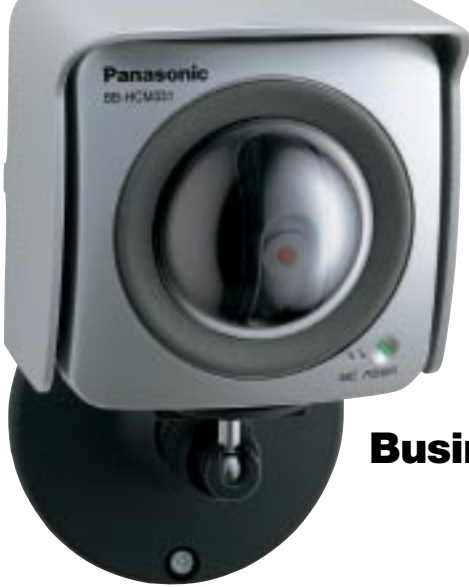
Watch your home

The human detection sensor detects temperature changes in your empty house and sends the image to the PC at your office, so you only need to check the camera image when there is an abnormal change in your house. When you return home and no longer require monitoring, you can close the camera lens to protect your privacy.



Watch your vacation residence

You can monitor a distant vacation residence right from home, to improve security. When combined with an optional TV adaptor, you can watch the image on a TV. If an intruder is detected, a buzzer can sound to let you know.



Business Use



Shop Management

The multi-camera function lets you monitor multiple stores at a glance, thus reducing the need for routine visits to the stores. Since the voice communication function allows you to talk with store staff while viewing the camera you can exchange information smoothly.



Posting images on the web

With the high-quality CCD sensor, you can post sharp, clear images of the nightclub on your web site to show the excitement. Showing a sales floor on your web site also helps keep the employees on their toes, improving service quality.



Parking area surveillance

Installing cameras can be a crime deterrent. The pan and tilt functions let you effectively monitor even large parking areas with fewer cameras making it very cost effective.



Warehouse management

Since the real-time monitoring of stock enables prompt restocking, you can help prevent stock shortages. Furthermore, the high-powered zoom can give you a clear view, even let you view details like price tags at a distance improving work efficiency.

View with up to 8 cameras.



Pan/Tilt from a Remote Control with optional TV adaptor.



KX-HCM280A

Indoor Zoom Camera

- View from Virtually Any Web Browser⁴, Video Display or Even a Compatible Cell Phone or PDA⁵
- Full 350° Pan, 210° Tilt with Presets
- 42x Zoom (21x Optical)
- Up to 30 Frames per Second² CCD
- 0.2 Lux Night View Mode
- Analog Video Output⁶
- Connects Directly to a LAN or Router
- Color Video or Snapshots²
- Password Protection
- Free Permanent Web address like <http://bob.viewnetcam.com>
- Sensor Input/Digital Output Control for System Integration
- Link to Other Cameras for Multi-Camera Views



KX-HCM110A

Pan/Tilt Network Camera

- View from Virtually Any Web Browser⁴, Video Display⁶ or Even a Compatible Cell Phone or PDA⁵
- Plug and Play Installation
- 10x Digital Zoom
- Audio Capability (2-way)
- Built in Web Server/IP Address
- 1 lux Night View Mode
- Up to 30 fps CMOS
- 4-up and 12-up Multi-Camera Pages
- Sensor Input with Preset Movement
- Viewnetcam.com address
- IP v4/v6 supported
- 120° pan/65° tilt
- 1 Year Warranty



BL-C30A

Pan/Tilt Wireless Network Camera

- View from Virtually Any Web Browser⁴, Video Display⁶ or Even a Compatible Cell Phone or PDA⁵
- Plug and Play Installation
- 10x Digital Zoom
- 802.11g/b Wireless Operation
- Built in Web Server/IP Address
- Built-In Thermal Sensor with Email Alert
- 1 lux Night View Mode
- Up to 15fps CMOS
- Privacy button
- 100° pan, 50° tilt
- Viewnetcam.com
- 1 Year Warranty



BL-C10A

Pan/Tilt Network Camera

- View from Virtually Any Web Browser⁴, Video Display⁶ or Even a Compatible Cell Phone or PDA⁵
- Plug and Play Installation
- Built in Web Server/IP Address
- Built-In Thermal Sensor with Email Alert
- 1 lux Night View Mode
- Up to 15fps CMOS
- Privacy button
- 100° pan, 50° tilt
- Viewnetcam.com address
- Multi-Language Display
- 1 Year Warranty



BL-C20A

Wireless Network Camera

- View from Virtually Any Web Browser⁴, Video Display⁶ or Even a Compatible Cell Phone or PDA⁵
- Plug and Play Installation
- 802.11g/b Wireless Operation
- 10x Digital Zoom
- Built in Web Server/IP Address
- Motion Sensor with Email Alert
- 4 lux Night View Mode
- Up to 15fps CMOS
- Viewnetcam.com address
- 1 Year Warranty



BL-C1A

Network Camera

- View from Virtually Any Web Browser⁴, Video Display⁶ or Even a Compatible Cell Phone or PDA⁵
- Plug and Play Installation
- Built in Web Server/IP Address
- 10x Digital Zoom
- Motion Sensor with Email Alert
- 4 lux Night View Mode
- Up to 15fps CMOS
- Viewnetcam.com address
- 1 Year Warranty



BL-WV10A
Television Adaptor

The TV Adaptor connects to cameras with wires or wirelessly and to your router. It can link to cameras from across the Internet as well as on-site cameras giving complete control for the camera's movement from the comfort of your living room.

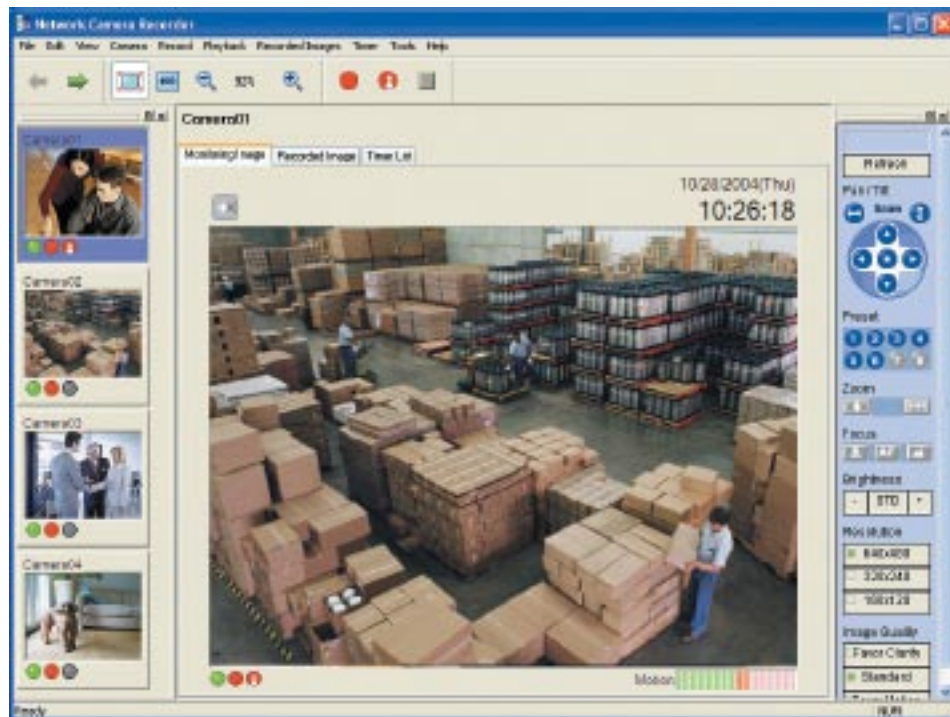
- Easy to Set Up and Watch on TV
- Change the Camera Direction by Remote Control (Pan/Tilt)
- Record and Email Camera-triggered events on an optional SD memory card.
- The camera images can be easily recorded
- Connect and operate up to 8 cameras
- Display up to 4 cameras on one screen
- Plug and Play camera settings include Wireless Security
- Use with a Video Modulator and IR Blaster (optional) to put onto whole house video system.



BL-MS103A
Internet Video Monitoring System
Includes 3 Color Cameras, TV Adaptor and Remote Control

- It's Wireless. Place the cameras anywhere.
- Pan/Tilt Control. Move each camera via the internet, cell phone or TV.
- Easy Setup. It's Plug and Play simple! No PC required on location.
- Monitor up to 8 locations with your TV.
- Built-in Thermal Sensor with Alarm.
- Record and Email Camera-triggered events on an optional SD memory card.





BB-HNP11A

Recording / Management Software

- Record and Play Images with Audio
- Advanced Motion Detection Record
- Advanced Timer Record and Search
- Layout of Operation Window
- Remaining hard disk capacity limit
- Camera List
- Automatic Backup



BB-HGW700A

Camera Management System

- Camera Privacy Protect with VPN Security
- Cell Phone Portal
- Auto Configures up to 16 cameras
- Wireless 802.11g/b Access Point
- Auto Portal w/link to each camera
- Camera Offline Alerts by email
- High Speed (up to 98 Mbps) WAN-LAN Throughput
- IPv4/v6 Supported



BB-HCM381A
Pan/Tilt/Zoom Network Camera with 2-way Audio

- 42X Zoom (21X Optical)
- Full 350° pan, 210° tilt
- 30 Users • Audio Capability (2 Way)
- Plug and Play Install
- 30fps CCD
- PC, PDA, Cell Phone Viewing
- Web/IP Address • Analog Video Output
- Customizable • Low Light (3Lux/0.09Lux)
- Motion Detection
- SD Memory Card Recording
- 4-up and 12-up Multi-Camera Pages
- Dual Sensor Input with Preset Movement
- Viewnetcam.com address • Multi-Language
- IPv4/v6 supported • 1 Year Warranty



BB-HCE481A
PoE (Power over Ethernet Compliant) Network Camera

The BB-HCE481A Network Camera can easily be placed where there is an 802.3af compliant Ethernet (10/100 BaseT Switch) connection 802.3af of compliant power source, without any AC power being required nearby! Users can monitor remote locations from nearly anywhere in the world via the Internet. The camera also includes a Two-Way Audio feature so you can not only see, but communicate with people in a remote location.

- 802.3af PoE Compliant
- Image date and time stamping
- Easy image recording onto an SD Memory Card with the built-in SD Memory Card slot for direct recording,
- High-speed up to 300° per second pan, 200° per second tilt control for 350° rotation and 210° tilt,
- 42x Zoom control (21x optical),
- Two-way audio feature,
- Analog video output
- Low-light View Mode (down to 3 Lux or an incredible 0.09 Lux when in Color Night View Mode).



BB-HCM311A
Pan/Tilt Network Camera with 2-way Audio

- Audio Capability (2 Way) • Plug and Play Install
- 30fps CCD
- PC, PDA and Cell Phone Viewing
- Built in Web Server/IP Address
- 30 Users • Customization Features
- SD Memory Card Recording
- Low Light (3Lux/0.2Lux) • Motion Detection
- 4-up and 12-up Multi-Camera Pages
- Dual Sensor Input with Presets
- Viewnetcam.com address
- Multi-Language
- IPv4/v6 supported • 1 Year Warranty

Pro Models

Professional installation recommended



BB-HCM331A
Outdoor Pan/Tilt Network Camera with 2-way Audio

- Audio Capability (2 Way) • Plug and Play Install
- 30fps CCD
- Outdoor (splash proof, low temperature)
- PC, PDA, Cell Phone Viewing • Customizable
- 30 Users • Web Server/IP Address
- SD Memory Card Recording • Motion Detection
- Low Light Capability (3Lux/0.2Lux)
- 4-up and 12-up Multi-Camera Pages
- Dual Sensor Input with Preset Movement
- Viewnetcam.com address • Multi-Language
- IPv4/v6 supported • 1 Year Warranty

BB-HCM371A
Wireless, Outdoor, Pan/Tilt Network Camera with 2-Way Audio

- 802.11g/b wireless
- Outdoor (splash proof, low temperature)
- Audio Capability (2 Way)
- Plug and Play Install
- PC, PDA and Cell Phone Viewing
- Customizable • 30 Users
- Web Server/IP Address • Motion Detection
- SD Memory Card Recording • 30fps CCD
- Low Light Capability (3Lux/0.2Lux)
- 4-up and 12-up Multi-Camera Pages
- Dual Sensor Input with Preset Movement
- Viewnetcam.com address • Multi-Language
- IPv4/v6 supported • 1 Year Warranty



BB-HCS301A
Network Camera Server with 2-Way Audio

The BB-HCS301A can convert nearly any video source to an internet video stream for viewing on a PC or TV.

- View from Virtually Any Web Browser⁴, Video Display⁶ or Even a Compatible Cell Phone or PDA⁵
- Audio Capability (2 Way)
- Plug and Play Install
- 30fps
- Built in Web Server/IP Address
- 30 Users (Stack up to 5 units for 150 Users)
- Customization Features
- Sensor Input with Presets
- Digital Output Control
- 4-up and 12-up Multi-Camera Pages
- SD Memory Card Recording
- Viewnetcam.com address
- Multi-Language Display
- Motion Detection
- IPv4/v6 supported • 1 Year Warranty

Professional Installation Options

Network Camera Recording System from Quadrox

WebCCTV NVR (network video recorder), manufactured by Quadrox, is a high quality network video recording system designed to work with up to 10 network cameras (cameras not included).

WebCCTV NVR records the surveillance video via network directly into native Windows Media format without losing the original quality of the image. Windows Media format supports all current video standards including High Definition Television standards (HDTV standard). Images saved in Windows Media format can be played back via a PC using Windows Media Player. No additional application is required.

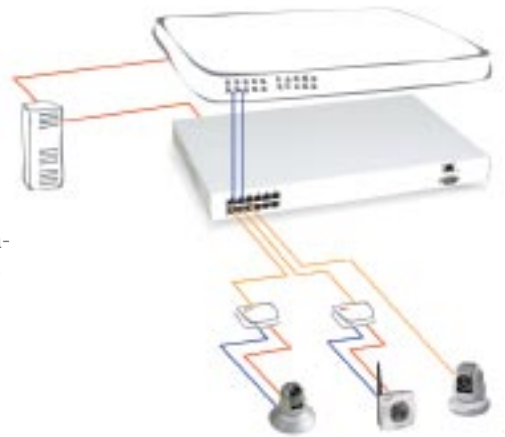
*Cameras and monitor are not included



Power over Ethernet Solutions from PowerDsine

Using a single standard data cable for video, data and power, Power over Ethernet (PoE) powers network cameras by integrating the power source onto the data cabling infrastructure and removing the need for separate AC power cabling. The IEEE802.3af standard defines how to deliver Power over Ethernet infrastructure, while maintaining data integrity and avoiding any potential damage to legacy Ethernet devices such as PCs and laptops. The PoE Midspan is an independent power injector, installed in the wiring closet next to an existing Ethernet Switch and provides power to the network cameras.

- Simplifies installation using a single standard data cable for video, data and power.
- Saves installation costs by eliminating electrician costs incurred from installing AC outlets near each camera.
- UPS backup for all network security devices by a single centralized UPS unit.
- Web-based remote management application for on-line supervision, remote monitoring and resetting of network cameras and IP terminals.
- Easy plug and play installation
- PoE splitter may be installed where network cameras are not 802.3af standard compliant



Outdoor Enclosures from VideoLarm

KX-HCM280A, BB-HCM381A, and BB-HCE481A Enclosures from VideoLarm

- Easy Camera Installation
- Optically Clear. 0.1" thick acrylic dome (BB-HCH280W/BB-HCH280P). Dome of BB-HCH280CT is tinted.
- Constructed of durable engineered plastic top, 94VO, with UV protected and acrylic lower dome.
- Cast aluminum wall mount is standard on the BB-HCH280P, BBHCH280W models.
- Cast aluminum pendant mount is standard on the BB-HCH280CT model
- 24 hour fan operation for effective heating and condensation protection (BB-HCH280P/BB-HCH280RP)
- Thermostatically controlled 24V AC heater (BB-HCH280P/BB-HCH280RP)
- Separate power input for H&B and camera power (BB-HCH280P/BB-HCH280RP)

* Operating temperature -30° F (BB-HCH280RP) or -20° F (HCH280P) to +104° F



Panasonic introduces the HD-PLC Ethernet Adaptor

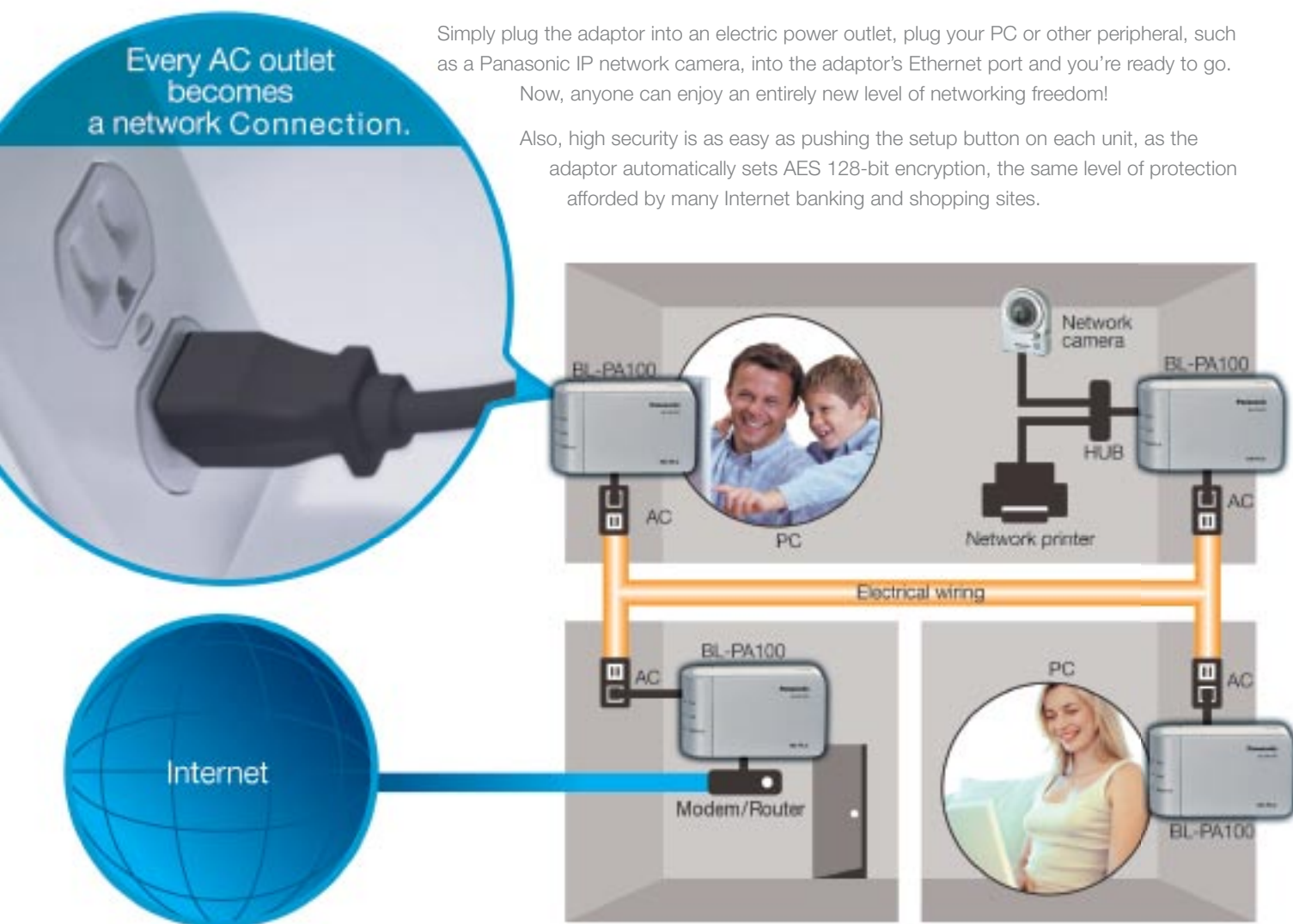
Now you can use standard home electrical wiring to establish a powerful network connection. Get online access simply by plugging into a power outlet!

This revolutionary product from Panasonic makes it possible for anyone to establish a powerful, robust, high bandwidth network from nearly anywhere in their home in a matter of seconds. Forget about complicated wiring and the other hassles of setting up a network. With this incredible new standard you can connect a network and to the Internet in a matter of seconds. With up to 190Mbps data speed, you can enjoy exceptional quality high-definition video content, music playback, Internet gaming, VoIP phone service, color video monitoring and the typical connection of computers, printers and other devices to a unified network.

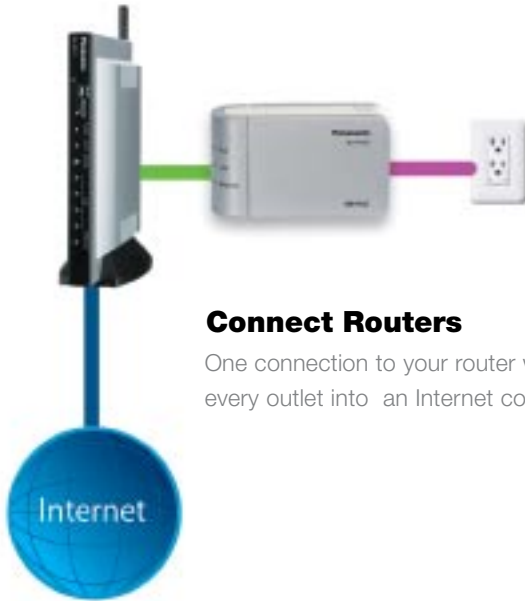
Simply plug the adaptor into an electric power outlet, plug your PC or other peripheral, such as a Panasonic IP network camera, into the adaptor's Ethernet port and you're ready to go.

Now, anyone can enjoy an entirely new level of networking freedom!

Also, high security is as easy as pushing the setup button on each unit, as the adaptor automatically sets AES 128-bit encryption, the same level of protection afforded by many Internet banking and shopping sites.



HD-PLC Ethernet Adaptor



Connect Routers

One connection to your router will turn every outlet into an Internet connection.



Connect Computers

Easily connect your PCs to the Internet without rewiring your house. Enjoy high security with one-touch installation.



Connect Network Cameras

Add video monitoring virtually anywhere by simply connecting to an AC outlet. Installation and operation are plug-and-play simple.



Connect IP Phones

Enjoy the cost savings and convenience of VoIP by simply plugging in your IP telephone into the HD-PLC adaptor.



Connect Game Systems

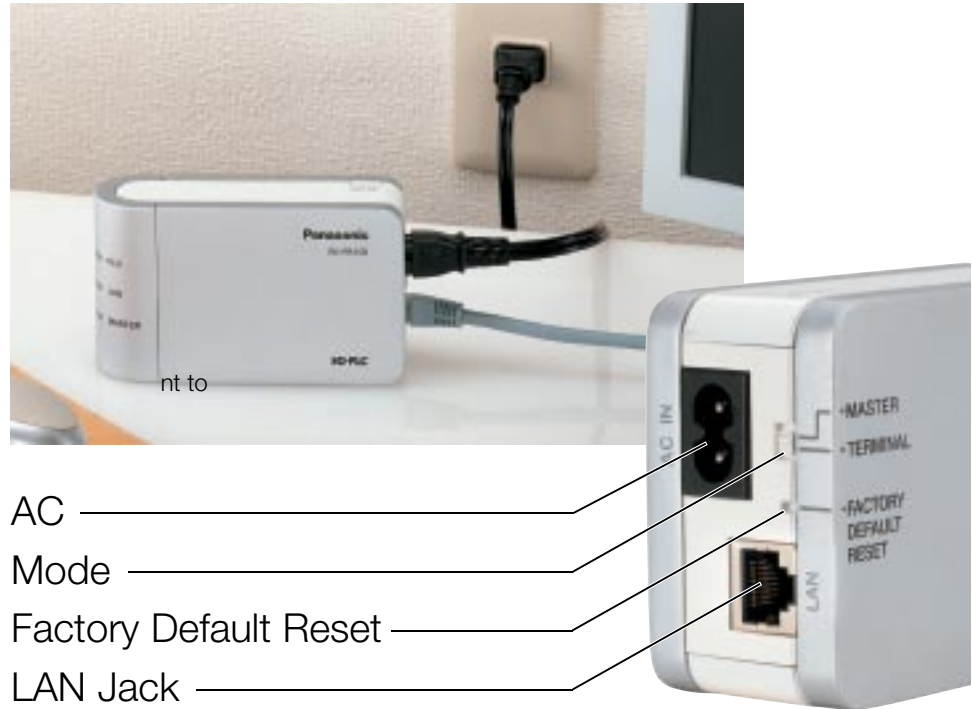
Enjoy Internet gaming without rewiring your house. Enjoy a robust, high-quality signal without interference from cordless phones.



It's Easy

1. Connect through any AC Outlet in your home

The HD-PLC Adaptor makes it possible for your home electrical wiring to serve as a link between your network devices. Getting network access is as easy as plugging into a power outlet. You can move your PC or other Ethernet device and connect to the Internet anywhere there is a power outlet.



No New Wiring Required!

2. Easy Setup - No New Wiring Necessary

There's no tricky installation or complicated settings. Just take the HD-PLC Adaptor out of the box and plug into the power outlet (BL-PA100KTA). You don't need to be a technical wiz or know a lot about PCs or networking. Adding a second HD-PLC Adaptor is easy too, using the following quick 3-step procedure.

Step.1 Plug it in

Plug the Master and Terminal units into the same power outlet.



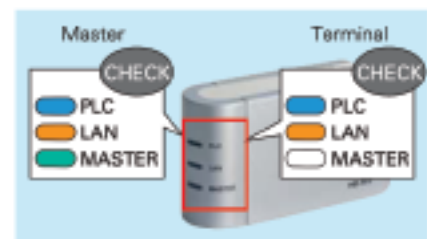
Step.2 Push two buttons

Push the Setup button each unit.



Step.3 Watch it light up

A blue LED lights solid to show that setup is complete. You can move the units anywhere you want to go online.





It's Fast and Secure!

3. Outstanding Security and fast Communication

The HD-PLC Adaptor transfers data at up to 190 Mbps, compared with 54 Mbps for typical 802.11a/g. Unlike wireless LAN's, there's no danger of cordless eavesdropping. The HD-PLC Adaptor automatically sets AES 128-bit encryption, which enhances security, preventing information from leaking outside the power outlet. This is truly the beginning of an age of total home networking.



BL-PA100A



BL-PA100KTA

•Set of two BL-PA100s.

COMPARISON OF HOME NETWORKING TECHNOLOGIES

	HD-PLC	Wireless LAN	Ethernet 100BaseTx
	BL-PA100	802.11a/g	
Speed	190Mbps	54Mbps	100Mbps
New Wiring	No need	No need	May be needed
Range	Entire House	Within a Room	328 ft.
	(492 ft.)	(33 ft.)	
Security	High	Fair	High

The performance of PLC may be affected by the electrical environment in your home.



**Introducing MULTI TALK
V from Panasonic. The
Revolutionary Audio,
Video and Data Sharing
Communications System**

Multi-Talk V is a revolutionary, five-in-one communications product that will radically change the way you use your standard home telephone service. How would you like to add video to your telephone conversations or create a wireless data link for your laptop computer? The Multi-Talk V lets you do this and more with your existing home phone service. Combining a variety of today's most popular voice, video and data sharing technologies in one compact unit, this unique communication system will change the way you use your home phone service forever.

MULTI TALK V Home Communication System



KX-TH102

3-Line Digital Expandable Cordless System with Cellular and Video Capability

- Cellular Convergence
- Handles 2 Phone Lines and 1 Cellular Line
- Expandable up to 8 Handsets
- All-Digital Answering System
 - 60 min. All Digital Answering System
 - Voice Menu with Time/Day Stamp
 - Memo Record
 - Remote Control from Handset or Outside Line
- Customized Ringer
- Call Waiting Caller ID¹
- Ringer ID¹
- Light-Up ID¹
- Picture ID¹
- Icon Operation
- Light-Up Indicator with Ringer/Message Alert
- USB Port for Downloading Ringers, and More
- Voice Enhancer Technology
- Phone Jacks (RJ11)
- Ethernet Jack (10/100 BaseT)
- Easy-To-Use Software Included (Melody, Picture and Programming for USB and Network Connection).
- Register a Standard Bluetooth Headset Directly to the Base Unit to make and receive calls.

KX-THA11

MULTI TALK V Digital Cordless Handset

- Cellular Convergence
- USB Port
- Handset Speakerphone
- Headset Jack
- Data Link
- Recordable Customized Ringer
- Voice Enhancer Technology
- Easy Operation (Menu Driven)
- Icon Operation
- Voice Scramble (Digital Security)
- Call Waiting Caller ID¹
- Customized Talking Caller ID
- Ringer ID¹
- Light-Up ID¹

Replacement Battery HHR-P104





Front View



Rear View

KX-THA12

MULTI TALK V Digital Cordless Video Camera Handset

- Video Conference (H324)
- Monitoring Capability
- Built-in Camera
- Picture ID¹
- 2" Diagonal Color LCD
- USB Port
- Handset Speakerphone
- Headset Jack
- Recordable Customized Ringer
- Voice Enhancer Technology
- Easy Operation (Menu Driven)
- Icon Operation
- Voice Scramble (Digital Security)
- Call Waiting Caller ID¹
- Talking Caller ID^{1,4}
- Picture ID^{1,4}
- Ringer ID¹
- Data Link

Replacement Battery HHR-P104



KX-THA13

MULTI TALK V Cordless Camera

- Built-in Camera
- Room Monitor
- Microphone and Speaker
- Sound Detection Mode
- Motion Sensor
- AC Adaptor Operation
- Call Button Included
- PC Access



KX-THA14
MULTI TALK V USB Adaptor



KX-THA16
MULTI TALK V Cordless Camera Station

- Cellular Convergence
- Video Conference (H324)
- 3.6" Diagonal Color LCD
- Digital Picture Frame with Background Music
- Wireless Image Printing
- Built-in Digital Still Camera
- USB Port
- Flip Down Keypad
- Speakerphone
- Recordable Customized Ringer
- Voice Enhancer Technology
- Easy Operation (Menu Driven)
- Icon Operation
- Voice Scramble (Digital Security)
- Call Waiting Caller ID¹
- Talking Caller ID^{1,4}
- Ringer ID¹
- Picture ID^{1,4}
- Data Link

Replacement Battery HHR-P515



KX-THA17
MULTI TALK V Digital Cordless Video Camera Handset with A/V Output

- 2.0" Diagonal Color LCD
- Features all the benefits of the KX-THA12, and also includes A/V Output for TV connection
- Data Link

Replacement Battery HHR-P104



You can put handsets all over your house – even in the garage – without all the messy wiring or a complicated setup.

You don't need a phone jack for each additional handset – just one for the base unit. Everyone in your household can have their own handset – and they'll all work together. Panasonic offers various lines of expandable phones to suit a residential home, home office and even a small office. With base units that can be expanded anywhere from 1 to 8 handsets, the choice is yours. Start out small and add on later – it's up to you.

Or maybe it's the number of lines that you're interested in. With one and two line models to choose from, these expandable systems have up to 4 voice paths that can be used simultaneously.

But the best part is, no matter which system you choose, each of them only requires one phone jack per expandable system. So start expanding!

Whatever you're looking for, you're bound to find it in one of these expandable systems.

KX-TG5776S

5.8 GHz FHSS GigaRange® Expandable Digital Cordless Answering System with 1.5" Full-Color (65k Color Capable) Backlit LCD on Handset

- Expandable up to 8 Handsets
- 5.8 GHz Frequency-Hopping Spread Spectrum (FHSS) Technology
- 1.5" Full-Color (65k Color Capable) Backlit LCD on Handset
- Wireless Network Friendly
- All-Digital Answering System
 - 2-Digit LCD Call Counter on Base
 - Voice Menu with Time/Day Stamp
 - Memo Record
 - Remote Control from Handset or Outside Line
- Customized Ringer
- Talking Caller ID^{1,4}
- Call Waiting Caller ID¹
- Ringer ID¹
- Light-Up ID¹
- Picture ID¹
- Icon Operation
- Light-Up Indicator with Ringer/Message Alert
- USB Port for Downloading Pictures, Ringers, Wallpaper and More
- Voice Enhancer Technology
- Auto Intercom
- Handset Name
- Camera Compatible

Replacement Battery HHR-P105

5.8 GHz Expandable Cordless Phone Systems



KX-TG5771S

5.8 GHz FHSS GigaRange® Expandable Digital Cordless Answering System

- Expandable up to 8 Handsets
- 5.8 GHz Frequency-Hopping Spread Spectrum (FHSS) Technology
- 3-Line Amber-Glow Backlit LCD on Handset
- Wireless Network Friendly
- All-Digital Answering System
 - 2-Digit LCD Call Counter on Base
 - Voice Menu with Time/Day Stamp
 - Memo Record
 - Remote Control from Handset or Outside Line
- Customized Ringer
- Talking Caller ID^{1,4}
- Call Waiting Caller ID¹
- Ringer ID¹
- Light-Up ID¹
- Icon Operation
- Light-Up Indicator with Ringer/Message Alert
- Voice Enhancer Technology
- Auto Intercom
- Handset Name

Replacement Battery HHR-P105



KX-TG5761S

5.8 GHz FHSS GigaRange® Expandable Digital Cordless Phone

- Expandable up to 8 Handsets
- 5.8 GHz Frequency-Hopping Spread Spectrum (FHSS) Technology
- 5-Line Amber-Glow Backlit LCD on Handset
- Wireless Network Friendly
- Customized Ringer
- Talking Caller ID^{1,4}
- Call Waiting Caller ID¹
- Ringer ID¹
- Light-Up ID¹
- Light-Up Indicator with Ringer/Voice Mail Alert¹
- Icon Operation
- Voice Enhancer Technology
- Auto Intercom
- Handset Name

Replacement Battery HHR-P105



KX-TGA570S

5.8 GHz FHSS GigaRange® Expandable Digital Cordless Handset

- 5.8 GHz Frequency-Hopping Spread Spectrum (FHSS) Technology
- 5-Line Amber-Glow Backlit LCD
- Talking Caller ID^{1,4}
- Call Waiting Caller ID¹
- Ringer ID¹
- Light-Up ID¹
- Customized Ringer
- Light-Up Indicator with Ringer/Message Alert
- Icon Operation
- Voice Enhancer Technology
- Auto Intercom
- Handset Name
- Camera Compatible

Replacement Battery HHR-P105



KX-TGA571S

5.8 GHz FHSS GigaRange® Expandable Digital Cordless Handset with 1.5" Full-Color (65k Color Capable) Backlit LCD

- 5.8 GHz Frequency-Hopping Spread Spectrum (FHSS) Technology
- 1.5" Full-Color (65k Color Capable) Backlit LCD
- Talking Caller ID^{1,4}
- Call Waiting Caller ID¹
- Ringer ID¹
- Light-Up ID¹
- Picture ID¹
- Customized Ringer
- Light-Up Indicator with Ringer/MessageAlert
- Icon Operation
- USB Port for Downloading Pictures, Ringers, Wallpaper & More
- Auto Intercom
- Handset Name
- Camera Compatible

Replacement Battery HHR-P105



KX-TGA572S

5.8 GHz FHSS GigaRange® Expandable Digital Cordless Handset

- 5.8 GHz Frequency-Hopping Spread Spectrum (FHSS) Technology
- 3-Line Amber-Glow Backlit LCD
- Big Button Lighted Handset Keypad
- Amplified Handset
- Hearing Aid Noise Reducer Technology
- Slow Talk® on Handset
- Talking Caller ID^{1,4}
- Talking Caller ID List
- Talking Phonebook
- Key Enhancement
- Call Waiting Caller ID¹
- Ringer ID¹
- Light-Up ID¹
- Light-Up Indicator with Ringer/Message Alert
- Icon Operation
- Voice Enhancer Technology

Replacement Battery HHR-P104



KX-TGA573S

5.8 GHz FHSS GigaRange® Expandable Digital Cordless Camera

- 5.8 GHz Frequency-Hopping Spread Spectrum (FHSS) Technology
- Wireless Monitoring Camera (Requires compatible base unit and handset (TGA571S))
- Call Button Included
- Wall Mountable



KX-TG5673B

5.8 GHz Digital Cordless Telephone w/Three Additional Cordless Handsets

- 2 Additional Cordless Handsets included
- Built-In All-Digital Answering System with 21-Minute Record Time
- Talking Caller ID^{1,4}
- 4-Way Conferencing.
- SlowTalk[®]
- Handset-to-Base Unit Intercom
- Phone Book Sharing among the Handsets
- Voice Enhancer
- Voice Mail Message Waiting Indicator Light
- Easy Menu Driven Operation
- Call Waiting Caller ID¹
- Ringer ID^{1,4}
- Light-Up ID¹
- 50-Station Phone Directory & Dialer
- 50-Station Caller ID Memory¹
- Chain Dial
- Lighted Antenna w/Ringer, Message Alert
- 3-Line Backlit Handset LCD
- Speakerphone on Handset and Base Unit
- Handset Locator
- Includes Headset Jack w/ Belt Clip.

KX-TG5633B

5.8 GHz FHSS GigaRange[®] Expandable Digital Cordless Answering System with 3 Handsets



- 3 handsets, 1 Base and 2 Chargers Included
- Expandable up to 4 handsets
- 5.8 GHz Frequency-Hopping Spread Spectrum (FHSS) Technology
- All-Digital Answering System
 - Voice Menu & Time/Day Stamp
 - 2-Digit LCD Call Counter on Base
 - Remote Control from Handset and Outside Line
- Light-Up Indicator with Ringer/Message Alert
- Ringer ID¹
- Light-Up ID¹
- Caller IQ[™] Compatible²
- Ringer Melody Download on Handset (Max. 2 per Handset)²
- Voice Enhancer Technology
- Selectable Ringtones (3 Tones, 4 Melodies)
- Handset Speakerphone
- Call Waiting Caller ID¹

Replacement Battery HHR-P104

KX-TG5653B

5.8 GHz FHSS GigaRange® Expandable Digital Cordless Answering System with 3 Handsets

- 3 handsets, 1 Base and 2 Chargers Included
- Expandable up to 3 handsets
- Talking Caller ID
- 5.8 GHz Frequency-Hopping Spread Spectrum (FHSS) Technology
- All-Digital Answering System
 - Voice Menu & Time/Day Stamp
 - 2-Digit LCD Call Counter on Base
 - Remote Control from Handset and Outside Line
- Light-Up Indicator with Ringer/Message Alert
- Ringer ID¹
- Light-Up ID¹
- Voice Enhancer Technology
- Selectable Ringtones (3 Tones, 4 Melodies)
- Handset Speakerphone
- Call Waiting Caller ID¹

Replacement Battery HHR-P104



KX-TG5623B

5.8 GHz FHSS GigaRange® Expandable Digital Cordless Phone with 3 Handsets

- 3 Handsets, 1 Base and 2 Chargers Included
- 5.8 GHz Frequency-Hopping Spread Spectrum (FHSS) Technology
- Voice Enhancer Technology
- Easy Operation (Menu Driven)
- Phone Company Voice Mail Compatible (FSK & Stutter Dial Tone Compatible)¹
- Call Waiting Caller ID¹
- Ringer ID¹
- Light-Up ID¹
- Light-Up Indicator with Ringer/Voice Mail Alert¹
- 3-Line Backlit LCD on Handset
- 50-Station Caller ID Memory & Dialer¹
- 50-Station Phonebook

Replacement Battery HHR-P104



KX-TG5672B

5.8 GHz FHSS GigaRange® Expandable Digital Cordless Answering System with Dual Handsets

- 2 handsets, 1 Base and 1 Charger Included
- Expandable up to 3 handsets
- 5.8 GHz Frequency-Hopping Spread Spectrum (FHSS) Technology
- Talking Caller ID^{1,4}
- Dual Keypad
- Slow Talk® in Handset
- All-Digital Answering System
 - Voice Menu & Time/Day Stamp
 - 2-Digit LCD Call Counter on Base
 - Remote Control from Handset and Outside Line
- Light-Up Indicator with Ringer/Message Alert
- Ringer ID¹
- Light-Up ID¹
- Voice Enhancer Technology
- Selectable Ringtones (3 Tones, 4 Melodies)
- Speakerphone on Handset and Base
- Call Waiting Caller ID¹

Replacement Battery HHR-P104



KX-TG5652M

5.8 GHz FHSS GigaRange® Expandable Digital Cordless Answering System with Dual Handsets

- 2 Handsets, 1 Base and 1 Charger Included
- Expandable up to 3 handsets
- 5.8 GHz Frequency-Hopping Spread Spectrum (FHSS) Technology
- Talking Caller ID^{1,4}
- All-Digital Answering System (21 Min. Max. Record Time)
 - Voice Menu & Time/Day Stamp
 - 2-Digit LCD Call Counter on Base
 - Remote Control from Handset or Outside Line
- Light-Up Indicator with Ringer/Message Alert
- Call Waiting Caller ID¹
- Ringer ID¹
- Light-Up ID¹
- Voice Enhancer Technology
- Selectable Ringtones (3 Tones, 4 Melodies)
- Handset Speakerphone

Replacement Battery HHR-P104



5.8 GHz Phone Bundles



KX-TG5632M

5.8 GHz FHSS GigaRange® Expandable Digital Cordless Answering System with Dual Handsets

- 2 handsets, 1 Base and 1 Charger Included
- Expandable up to 4 handsets
- 5.8 GHz Frequency-Hopping Spread Spectrum (FHSS) Technology
- All-Digital Answering System
 - Voice Menu & Time/Day Stamp
 - 2-Digit LCD Call Counter on Base
 - Remote Control from Handset and Outside Line
- Light-Up Indicator with Ringer/Message Alert
- Ringer ID¹
- Light-Up ID¹
- Caller IQ™ Compatible²
- Ringer Melody Download on Handset (Max. 2 per Handset)²
- Voice Enhancer Technology
- Handset Speakerphone
- Call Waiting Caller ID¹

Replacement Battery HHR-P104



KX-TG5622M

5.8 GHz FHSS GigaRange® Expandable Digital Cordless Phone with Dual-Handsets

- 2 Handsets, 1 Base and 1 Charger Included
- Expandable up to 3 handsets
- 5.8 GHz Frequency-Hopping Spread Spectrum (FHSS) Technology
- Call Waiting Caller ID¹
- Ringer ID¹
- Light-Up ID¹
- Light-Up Indicator with Ringer/Voice Mail Alert¹
- Voice Enhancer Technology
- Easy Operation (Menu Driven)
- Phone Company Voice Mail Compatible (FSK & Stutter Dial Tone Compatible)¹
- 3-Line Backlit LCD on Handset
- 50-Station Caller ID Memory & Dialer¹
- 50-Station Phonebook

Replacement Battery HHR-P104

4-Line 5.8 GHz Expandable Cordless Phone System



KX-TG4500 5.8GHz Expandable Cordless Phone System

Give your small business the advanced features of a business telephone system without the high price tag. The Panasonic KX-TG4500 operates via cordless transmissions, so no expensive wiring or installation is required. Simply hook up the base unit to your phone lines and plug it into an AC outlet. Then set up the cordless handsets in the desired location. The system is expandable up to 8 handsets and can be added right away or over time as your needs grow. It's that simple!

The KX-TG4500 cordless phone system will keep you connected with minimal hassle, giving you the opportunity to have fully functional handsets in areas where there are no phone jacks. Enjoy the confidence of knowing your conversations will be secure with Panasonic's 5.8 GHz Frequency Hopping Spread Spectrum Technology, which provides impressive sound quality with a digital signal that makes conversations extremely difficult to monitor.



KX-TG4500B

4-Line, 5.8 GHz FHSS Multi-Handset Cordless Phone System

- 5.8 GHz Frequency Hopping Spread Spectrum (FHSS) Technology
 - 4-Line Operation
 - Expandable up to 8 Cordless Handset Stations
 - All-Digital Voicemail System with Automated Attendant
 - Up to 8 Individual Mailboxes with Separate Greeting Messages
 - 100-Minute Total Recording Time (Long Recording Mode)
 - Time/Date Stamp
 - Remote Access with Voice Prompts
 - Call Transfer, Message Transfer, Deliver Message and Auto Message Delete
 - Call Waiting Caller ID¹
 - 50-Station Caller ID Memory & Dialer¹
 - 100-Station Phone Directory & Dialer¹
- Replacement Battery HHR-P104



KX-TGA450B

4-Line, 5.8 GHz Cordless Handset

- Cordless FHSS Handset for KX-TG4500B
- 5.8 GHz Frequency Hopping Spread Spectrum (FHSS) Technology
- Call Waiting Caller ID¹
- 50-Station Handset Caller ID Memory & Dialer¹
- 100-Station Handset Phone Directory & Dialer¹
- 2-Way Intercom/Paging
- Up to 3-Way Conferencing
- Backlit Multi-Function 3-Line LCD
- Navigator Key
- Lighted Keypad
- Headset Jack
- Transfer/Conference/Hold Buttons
- 3-Level Handset Volume Control
- Selectable Ringtones
- Adjustable Ringer
- Hold/Flash/Pause/Redial
- Charging Stand

Replacement Battery HHR-P104

Cellular Convergence Phone

Merging the cost-saving advantages of wireless calling with the reliability of landline communications, Panasonic presents the KX-TH111S and KX-TH112S cordless phones.

These new models combine the best of both worlds by letting consumers reap the benefits of wireless calling, while still using their regular home phone line. The new models let you "link" up to five Bluetooth-enabled cellular devices with your home phone service. Result: the ability to take advantage of cost-saving "Free Nights and Weekends" rates offered by your wireless calling plan, while enjoying the drift-free reception offered by a standard phone line.



KX-TH111 Cordless Telephone

- Interacts with up to 8 Compatible Cordless Handsets
- Link up to 5 compatible cell phones with Bluetooth Cellular Link
- Talking Caller ID
- Answering Machine with 60-minute of total Record Time with ability to Record from Cell Phone
- 60-Minute All-Digital Answering System
 - Flash Memory Message Backup
 - 2-Digit LCD Message Counter on Base
 - Voice Menu & Time/Day Stamp
 - Memo Recording

- Dual Keypads
- Base and Handset Speakerphone
- Recordable Ringer.
- Available in Silver
- Light-Up Indicator with Ringer/Message Alert
- True Voice Paging
- 50-Station Phonebook & Dialer
- 50-Station Caller ID Memory & Dialer¹
- Phonebook Sharing
- Lighted Handset Keypad

Replacement Battery HHR-P104



KX-TH112 Cordless Telephone

Same features as KX-TH111S plus:

- 2-line Operation
- 3-way Conferencing

Replacement Battery HHR-P104

2-Line Expandable Phone Systems



KX-TG6700B

2-Line, 5.8 GHz FHSS GigaRange® Expandable Digital Cordless Answering System

- 2-Line Operation
- Up to 4-Way Conferencing³
- Wireless Network Friendly
- 5.8 GHz Frequency-Hopping Spread Spectrum (FHSS) Technology
- Expandable up to 8 Handset Stations
- Call Waiting Caller ID¹
- 60-Minute All-Digital Answering System
 - Flash Memory Message Backup
 - 2-Digit LCD Message Counter on Base
 - Voice Menu & Time/Day Stamp
 - Memo Recording
- Light-Up Indicator with Ringer/Message Alert
- 50-Station Phonebook & Dialer
- 50-Station Caller ID Memory & Dialer¹
- Phonebook Sharing
- Lighted Handset Keypad

Replacement Battery HHR-P105



KX-FG6550

2-Line, Expandable 5.8 GHz FHSS GigaRange® Cordless Phone and Digital Answering System with Plain Paper Fax/Copier

- Expandable up to 4 Handsets
- 5.8 GHz Frequency-Hopping Spread Spectrum (FHSS) Cordless Technology
 - Voice Enhancer Technology
 - Light-Up Indicator with Ringer/Message Alert
 - Handset Speakerphone and Headset Jack
- Automatic Fax/Phone Switching
- Enhanced Copier (Enlarge, Reduce, Collate)
- True Voice Paging
- 60-minute Digital Answering System
 - Voice Menu & Time/Day Stamp
- Digital Duplex Speakerphone on Base & Handset
- Caller ID¹ with Caller ID¹ List Printing
- Automatic Document Feeder (10 Sheets)
- Out-of-Paper Reception (Up to 28 pages – 350KB)²
- Telephone Directory Navigator (50 Entries)
- Fax Advantage Product Exchange Program³
- Resolution: Photo/Super Fine/Fine/Standard
- Distinctive Ring Detection⁷

Replacement Battery HHR-P104, Consumable: KX-FA92



KX-TGA670B

2-Line, 5.8 GHz FHSS GigaRange® Expandable Digital Cordless Handset

- 5.8 GHz Frequency-Hopping Spread Spectrum (FHSS) Technology
- Light-Up Indicator with Ringer/Message Alert
- 50-Station Phonebook & Dialer
- 50-Station Caller ID Memory & Dialer¹
- Voice Enhancer Technology
- Handset Speakerphone
- 3-Line Backlit LCD on Handset
- Lighted Handset Keypad
- Intercom • Handset Locator
- Chain Dial • Phonebook Sharing³
- Clarity Booster

Replacement Battery HHR-P105

KX-TGA650B

2-Line, 5.8 GHz FHSS GigaRange® Expandable Digital Cordless Handset

- Compatible with KX-FG6550



4-Line Integrated Corded Phone Systems

KX-TS4300B

*4-Line Integrated Phone System with Call Waiting Caller ID¹, Speakerphone and 60 Min. Answering System. **Expandable up to 16 Stations***

- 4-Line Operation
- Up to 3-Way Conferencing
- All-Digital Answering System with Automated Attendant (Max. 60 Min.)
- Call Waiting Caller ID¹
- Caller ID Memory¹
- Phone Book
- Chain Dial
- 24-Digit Per Station Dialer Storage Capacity
- 32 One-Touch Memory Buttons
- Power Outage Operation (Requires Battery)
- Voice Prompts/Time Day Stamp
- Pre-Recorded OGM
- Call Screening Intercept
- Remote Control from Outside Line (DTMF)
- Memo Record
- Voicemail Message Waiting Indicator
- English/Spanish

KX-TS4200B

4-Line Integrated Phone System with Call Waiting Caller ID¹ and Speakerphone

- 4-Line Operation
- Up to 3-Way Conferencing
- Speakerphone
- Call Waiting Caller ID¹
- Caller ID Memory¹
- Phone Book
- Chain Dial
- 24-Digit Per Station Dialer Storage Capacity
- 32 One-Touch Memory Buttons
- Easy Operation (Menu Driven)
- Power Outage Operation (Requires Battery)
- Voicemail Message Waiting Indicator
- English/Spanish

KX-TS4100B

4-Line Integrated Phone System with Speakerphone

- 4-Line Operation
- Up to 3-Way Conferencing
- Speakerphone
- 32 One-Touch Memory Buttons
- Easy Operation (Menu Driven)
- Power Outage Operation (Requires Battery)
- Base Unit Dial Keypad
- Hold, Mute, Flash & Redial Buttons
- 4-Pattern Ringer Tone
- 4-Step/Off Ringer Volume Control
- Up to 3-Way Conferencing
- English/Spanish



Shock & Splash



KX-TG5439S

5.8 GHz FHSS GigaRange® Shock & Splash Resistant⁹ Digital Cordless Answering System with Dual-Handsets

- 2 Handsets, 1 Base and 1 Charger Included
- 5.8 GHz Frequency-Hopping Spread Spectrum (FHSS) Technology
- Shock and Splash Resistant⁹ Handset Design
- Voice Changer (3-Patterns: High/Deep/Fun)
- All-Digital Answering System
 - 2-Digit LCD Call Counter on Base
 - Voice Menu & Time/Day Stamp
 - Remote Control from Handset or Outside Line
- Call Waiting Caller ID¹
- Ringer ID¹
- Light-Up ID¹
- Light-Up Indicator with Ringer/Message Alert
- Phone Book Sharing
- Intercom
- 3-Way Conferencing
- Voice Enhancer Technology
- Easy Operation (Menu Driven)
- Caller IQ™ Compatible²
- Ringer Melody Download on Handset (Max. 2 per Handset)²
- Lighted Handset Keypad
- 3-Line Backlit LCD on Handset
- 50-Station Caller ID Memory & Dialer¹
- 50-Station Phone Book & Dialer
- Selectable Ringtones (3 Tones, 4 Melodies)
- Chain Dial
- Handset Speakerphone
- Ringer Volume Control on Handset
- Talk Volume Control on Handset
- Reversible Handset Charging on Base
- Hold/Mute/Flash on Handset
- Redial on Handset (Last 5 Numbers Dialed)
- Low Battery Indicator
- Headset Jack & Belt Clip Included
- Wall Mountable

Replacement Battery HHR-P104



KX-TG5438F/S

5.8 GHz FHSS GigaRange® Shock & Splash Resistant⁹ Digital Cordless Answering System

- 5.8 GHz Frequency-Hopping Spread Spectrum (FHSS) Technology
- Shock and Splash Resistant⁹ Handset Design
- Voice Changer (3-Patterns: High/Deep/Fun)
- All-Digital Answering System
 - 2-Digit LCD Call Counter on Base
 - Voice Menu & Time/Day Stamp
 - Remote Control from Handset or Outside Line
- Ringer ID¹
- Light-Up ID¹
- Light-Up Indicator with Ringer/Message Alert
- Call Waiting Caller ID¹
- Voice Enhancer Technology
- Easy Operation (Menu Driven)
- Caller IQ™ Compatible²
- Ringer Melody Download on Handset (Max. 2)²
- Lighted Handset Keypad
- 3-Line Backlit LCD on Handset
- 50-Station Caller ID Memory & Dialer¹
- 50-Station Phone Book & Dialer
- Selectable Ringtones (3 Tones, 4 Melodies)
- Chain Dial
- Intercom
- Handset Speakerphone
- Ringer Volume Control on Handset
- Talk Volume Control on Handset
- Hold/Mute/Flash on Handset
- Redial on Handset (Last 5 Numbers Dialed)
- Low Battery Indicator
- Headset Jack & Belt Clip Included
- Wall Mountable

Replacement Battery HHR-P104



KX-TG5428R/B

5.8 GHz FHSS GigaRange® Shock & Splash Resistant⁹ Digital Cordless Phone

- 5.8 GHz Frequency-Hopping Spread Spectrum (FHSS) Technology
- Shock and Splash Resistant⁹ Handset Design
- Light-Up Indicator with Ringer/Voice Mail Alert¹
- Call Waiting Caller ID¹
- Ringer ID¹
- Light-Up ID¹
- Voice Enhancer Technology
- Phone Company Voice Mail Compatible (FSK & Stutter Dial Tone Compatible)¹
- Lighted Handset Keypad
- 3-Line Backlit LCD on Handset
- Easy Operation (Menu Driven)
- 50-Station Caller ID Memory & Dialer¹
- 50-Station Phone Book & Dialer
- Selectable Ringtones (3 Tones, 4 Melodies)
- Chain Dial
- Handset Speakerphone
- Ringer Volume Control on Handset
- Talk Volume Control on Handset
- Hold/Mute/Flash on Handset
- Redial on Handset (Last 5 Numbers Dialed)
- Low Battery Indicator
- Headset Jack & Belt Clip Included
- Wall Mountable

Replacement Battery HHR-P104

5.8 GHz Single Handset Phones



KX-TG5671S

5.8 GHz FHSS GigaRange® Digital Cordless Answering System

- 5.8 GHz Frequency-Hopping Spread Spectrum (FHSS) Technology
- Talking Caller ID^{1,4}
- Speakerphone on Handset and Base
- Dual Keypad
- Slow Talk® on Handset
- All-Digital Answering System
 - Voice Menu & Time/Day Stamp
 - 2-Digit LCD Call Counter on Base
 - Remote Control from Handset and Outside Line
- Light-Up Indicator with Ringer/Message Alert
- Ringer ID¹
- Light-Up ID¹
- Voice Enhancer Technology
- Selectable Ringtones (3 Tones, 4 Melodies)
- Call Waiting Caller ID¹

Replacement Battery HHR-P104



KX-TG5651S
5.8 GHz FHSS GigaRange® Digital Cordless Phone

- 5.8 GHz Frequency-Hopping Spread Spectrum (FHSS) Technology
- Talking Caller ID^{1,4}
- All-Digital Answering System (21 Min. Max. Record Time)
 - Voice Menu & Time/Day Stamp
 - 2-Digit LCD Call Counter on Base
 - Remote Access from Handset or Outside Line
- Light-Up Indicator with Ringer/Message Alert
- Call Waiting Caller ID¹
- Ringer ID¹
- Light-Up ID¹
- Voice Enhancer Technology
- Selectable Ringtones (3 Tones, 4 Melodies)
- Handset Speakerphone
- Easy Operation (Menu Driven)
- 4-Way Multi-Conferencing
- Intercom (Handset to Base)

Replacement Battery HHR-P104



KX-TG5631S
5.8 GHz FHSS GigaRange® Digital Cordless Answering System

- 5.8 GHz Frequency-Hopping Spread Spectrum (FHSS) Technology
- Easy Operation (Menu Driven)
- All-Digital Answering System
 - Voice Menu & Time/Day Stamp
 - 2-Digit LCD Call Counter on Base
 - Remote Access from Handset and Outside Line
- Light-Up Indicator with Ringer/Message Alert
- Call Waiting Caller ID¹
- Ringer ID¹
- Light-Up ID¹
- Caller IQ™ Compatible²
- Ringer Melody Download on Handset (Max. 2)²
- Light-Up ID¹
- Voice Enhancer Technology
- Selectable Ringtones (3 Tones, 4 Melodies)
- Handset Speakerphone

Replacement Battery HHR-P104



KX-TG5621S
5.8 GHz FHSS GigaRange® Digital Cordless Phone

- 5.8 GHz Frequency-Hopping Spread Spectrum (FHSS) Technology
- Voice Enhancer Technology
- Easy Operation (Menu Driven)
- Phone Company Voice Mail Compatible (FSK & Stutter Dial Tone Compatible)¹
- Call Waiting Caller ID¹
- Ringer ID¹
- Light-Up ID¹
- Light-Up Indicator with Ringer/Voice Mail Alert¹
- 3-Line Backlit LCD on Handset
- 50-Station Caller ID Memory & Dialer¹
- 50-Station Phonebook & Dialer
- Chain Dial
- Handset Speakerphone

Replacement Battery HHR-P104



2.4GHz Phone Bundles



KX-TG2632B

2.4 GHz FHSS GigaRange® Digital Cordless Answering System with Dual Handsets

- 2 Handsets, 1 Base and 1 Charger Included
- 2.4 GHz Frequency-Hopping Spread Spectrum (FHSS) Technology
- All-Digital Answering System
 - 2-Digit LCD Call Counter on Base
 - Voice Menu & Time/Day Stamp
 - Remote Control from Handset or Outside Line
- Handset Speakerphone
- Light-Up Indicator with Ringer/Message Alert
- Call Waiting Caller ID¹
- Caller IQ™ Compatible²
- Ringer Melody Download (Max. 2 per Handset)²
- Voice Enhancer Technology
- Easy Operation (Menu Driven)
- 3-Line Backlit LCD on Handset
- 50-Station Phonebook & Dialer
- 50-Station Caller ID Memory & Dialer¹

Replacement Battery HHR-P105



KX-TG2622W

2.4 GHz FHSS GigaRange® Digital Cordless Phone with Dual Handsets

- 2 Handsets, 1 Base and 1 Charger Included
- Voice Enhancer Technology
- Phonebook Sharing
- Handset Speakerphone
- Easy Operation (Menu Driven)
- Phone Company Voice Mail Compatible (FSK & Stutter Dial Tone Compatible)¹
- Call Waiting Caller ID¹
- Light-Up Indicator with Ringer/Voice Mail Alert²
- 50-Station Caller ID Memory & Dialer¹
- 50-Station Phonebook & Dialer
- 3-Way Conferencing (2 Handsets and 1 Outside Line)
- 3-Line Backlit LCD on Handset
- Chain Dial

Replacement Battery HHR-P104

2.4GHz Phones

2.4GHz Single Handset Phones



KX-TG2631W

2.4 GHz FHSS GigaRange® Digital Cordless Answering System

- 2.4 GHz Frequency-Hopping Spread Spectrum (FHSS) Technology
- Handset Speakerphone
- Light-Up Indicator with Ringer/Message Alert
- Easy Operation (Menu Driven)
- Call Waiting Caller ID¹
- All-Digital Answering System
 - 2-Digit LCD Call Counter on Base
 - Voice Menu & Time/Day Stamp
 - Remote Control from Handset or Outside Line
- Voice Enhancer Technology
- Caller IQ™ Compatible¹
- Ringer Melody Download on Handset (Max. 2)²
- 50-Station Caller ID Memory & Dialer¹
- 50-Station Phonebook & Dialer
- 3-Line Backlit LCD on Handset
- Chain Dial

Replacement Battery HHR-P105



KX-TG2621W

2.4 GHz FHSS GigaRange® Digital Cordless Phone

- 2.4 GHz Frequency-Hopping Spread Spectrum (FHSS) Technology
- Handset Speakerphone
- Voice Enhancer Technology
- Light-Up Indicator with Ringer/Voice Mail Alert*
- Easy Operation (Menu Driven)
- Phone Company Voice Mail Compatible (FSK & Stutter Dial Tone Compatible)¹
- Call Waiting Caller ID¹
- Lighted Handset Keypad
- 50-Station Caller ID Memory & Dialer¹
- 50-Station Phonebook & Dialer
- Chain Dial • 3-Line Backlit LCD on Handset
- Hold/Mute/Flash on Handset

Replacement Battery HHR-P105



KX-TG2620W/B

2.4 GHz FHSS GigaRange® Digital Cordless Phone

- 2.4 GHz Frequency-Hopping Spread Spectrum (FHSS) Technology
- Handset Speakerphone
- Voice Enhancer Technology
- Easy Operation (Menu Driven)
- Phone Company Voice Mail Compatible (FSK & Stutter Dial Tone Compatible)¹
- Call Waiting Caller ID¹
- Light-Up Indicator with Ringer/Voice Mail Alert¹
- 50-Station Caller ID Memory & Dialer*
- 50-Station Phonebook & Dialer
- 3-Line Backlit LCD on Handset • Chain Dial

Replacement Battery HHR-P105



Freedom of Communication Visual... Audible... Accessible.

Panasonic strives to create quality products that will serve the needs of all consumers. That's why many of our phones include features that make them more accessible and user friendly such as Amplified Handsets, Talking Caller ID, Talking Keypads, and Talking Phonebooks.

Model KX-TG2388B, featuring the new Bone Conduction Handset, allows an even greater level of accessibility for hearing-impaired individuals. This model utilizes vibrations to transmit sound to the inner ear through the skull, bypassing the outer and middle ear entirely.



KX-TG2388B

FHSS GigaRange® Digital Cordless with Bone Conduction Technology

- 2.4 GHz Frequency-Hopping Spread Spectrum (FHSS) Technology
 - Bone Conduction Handset
 - All-Digital Answering System
 - 2-Digit LCD Call Counter on Base
 - Memo Record
 - Slaw Talk™
 - Voice Menu & Time/Day Stamp
 - Talking Caller ID^{1,4}
 - Talking Keypad
 - Talking Phonebook
 - Light-Up Indicator with Ringer/Message Alert
 - Call Waiting Caller ID¹
 - 50-Station Phonebook & Dialer
 - 50-Station Caller ID Memory & Dialer¹
 - 3-Line Backlit LCD on Handset
 - Lighted Handset Keypad
 - Up to 3-Way Conferencing
 - Shoulder Rest Included
 - Extra Charger Included
- Replacement Battery HHR-P104



KX-TG2386B

FHSS GigaRange® Digital Cordless with Amplified Handset

- 2.4 GHz Frequency-Hopping Spread Spectrum (FHSS) Technology
 - All-Digital Answering System
 - 2-Digit LCD Call Counter on Base
 - Memo Record
 - Slaw Talk™
 - Voice Menu & Time/Day Stamp
 - Amplified Handset
 - Talking Caller ID^{1,4}
 - Talking Keypad
 - Talking Phonebook
 - Light-Up Indicator with Ringer/Message Alert
 - Call Waiting Caller ID¹
 - 50-Station Phonebook & Dialer
 - 50-Station Caller ID Memory & Dialer¹
 - 3-Line Backlit LCD on Handset
 - Lighted Handset Keypad
 - Up to 3-Way Conferencing
 - Shoulder Rest Included
- Replacement Battery HHR-P104

Accessibility Phones



KX-TG2322B

FHSS GigaRange® Big Button Digital Cordless Answering System

- 2.4 GHz Frequency-Hopping Spread Spectrum (FHSS) Technology
- All-Digital Answering System
 - Flash Memory Message Backup
 - 2-Digit Message Counter on Base
 - Voice Menu & Time/Day Stamp
- Voice Enhancer Technology
- Big Button Lighted Keypad
- Convenient Handset Speakerphone
- Volume Control on Handset
- Selectable Ringtones (3 Tones, 4 Melodies)
- Reversible Handset Charging
- Ultra Charge
- Shoulder Rest Attachment Included
- Handset Locator
- Any Key Talk
- Redial/Flash

Replacement Battery HHR-P104



KX-TG2302B

FHSS GigaRange® Big Button Digital Cordless Phone

- 2.4 GHz Frequency-Hopping Spread Spectrum (FHSS) Technology
- Voice Enhancer Technology
- Big Button Lighted Keypad
- Convenient Handset Speakerphone
- Volume Control on Handset
- Selectable Ringtones (3 Tones, 4 Melodies)
- Handset Locator
- Reversible Handset Charging
- Ultra Charge
- Shoulder Rest Attachment Included
- Any Key Talk
- Redial/Flash
- Headset, Jack & Belt Clip Included

Replacement Battery HHR-P104



KX-TCA88HA

Lightweight Hearing-Aid Compatible Cordless Phone Headset

- 2.5mm Connection
- Provides Hands-Free Usage
- Reversible for Use with Either Ear
- Adjustable Microphone
- 4-Foot Cord
- Adjustable Noise-Canceling Microphone
- Uses Hearing-Aid Compatible Speaker
- Fashionable Design



KX-TSC14B/W

2-Line Integrated Phone System with Call Waiting Caller ID¹ and Speakerphone

- 2-Line Operation
- Up to 3-Way Conferencing
- Call Waiting
- One Intercom Path
- All or Individual Paging
- Flexible Extension Numbers (1-8)
- Expandable up to 8 Extensions
- Automatic Line Selection
- 50-Station Caller ID Memory¹
- 50-Station Phone Book
- 2-Line LCD
- Headset Jack (On-Hook)
- Programmable Tone/Pulse Setting
- Handset Volume Control
- Redial/Mute/Pause/Hold/Flash
- Data Port • Wall Mountable



KX-TS3282B/W

2-Line Integrated Intercom Phone System Expandable up to 8 Stations

- 2-Line Operation
- Hands-Free Speakerphone with 12-Step Volume Control
- Intercom System (Expandable up to 8 Stations)
- Up to 3-Way Conferencing
- Call Waiting Caller ID¹
- 3-Line LCD Display with 6-Level Contrast Control
- 10-Station Speed Dialer
- Voice Mail Message Waiting Indicator (FSK & Stutter Dial Tone Compatible)¹
- Headset Jack (On-Hook)
- 50-Station Caller ID Memory¹
- Handset Volume Control
- 3-Step Ringer Control
- Timed Flash Memory
- Programmable Tone/Pulse Setting
- Redial/Mute/Pause/Hold/Flash
- Data Port
- Wall Mountable

Corded Phones

KX-TS208W

2-Line Integrated Telephone System

- 2-Line Operation
- Speakerphone
- Up to 3-Way Conferencing
- Distinctive Ring
- 16-Digit LCD with Clock
- Hands-Free Speakerphone
- 20 One-Touch Dialer Stations
- 10-Station Speed Dialer
- Hands-Free Headset Compatible
- Electronic Volume Controls for Speakerphone (8-Step), Handset & Headset (4-Step)
- Dial Lock
- 3-Step Ringer Volume Control
- Programmable Call Restriction
- Data Port
- Redial/Mute/Pause/Hold/Flash
- Ringer Indicator
- Programmable Tone/Pulse Settings
- Wall Mountable



KX-TSC11B/W

Integrated Telephone System

- 50-Station Caller ID Memory & Dialer¹
- 50-Station Phone Book & Dialer
- Call Waiting¹
- Phone Company Voice Mail Compatible (FSK Compatible)¹
- Chain Dial
- Programmable Call Restriction
- 3-Step Ringer Volume Control
- Switchable Tone/Pulse Setting



KX-TS108W

Integrated Telephone System

- 16-Digit LCD with Clock
- Hands-Free Speakerphone
- 20 One-Touch Dialer Stations
- 10-Station Speed Dialer
- Hands-Free Headset Compatible
- Electronic Volume Controls for Speakerphone (8-Step), Handset & Headset (4-Step)
- Dial Lock
- 3-Step Ringer Volume Control
- Programmable Call Restriction
- Data Port
- Redial/Mute/Pause/Hold/Flash
- Ringer Indicator
- Programmable Tone/Pulse Settings
- Wall Mountable

KX-TS620B/W

Integrated Telephone System

- All-Digital Answering System
- 2-Way Recording
- Speakerphone
- Call Waiting Caller ID¹
- 3 One-Touch Memory Buttons
- 3-Line Dot LCD
- Ringer Indicator (LED)
- Redial (Last 20 numbers Dialed)
- Electronic Handset Volume Control (4-Step)
- Electronic Sp-Phone Volume Control (8-Step)
- Wall Mountable
- Tone/Pulse Settings
- Programmable 4-Step Ringer Selector (Off/Low/Mid/High)
- Redial/Mute/Pause/Hold/Flash
- Headset Jack • Data Port



KX-TS600B/W

Integrated Telephone System

- Speakerphone
- Call Waiting Caller ID¹
- Redial (Last 20 numbers Dialed)
- 3 One-Touch Memory Buttons
- 3-Line Dot LCD
- Ringer Indicator (LED)
- Electronic Handset Volume Control (4-Step)
- Electronic Sp-Phone Volume Control (8-Step)
- Wall Mountable
- Tone/Pulse Settings
- Programmable 3-Step Ringer Selector (Off/Low/High)
- Redial/Mute/Pause/Hold/Flash
- Headset Jack • Data Port



KX-TS105B/W

Integrated Telephone System

- Hands-Free Speakerphone
- 20 One-Touch Dialer Stations
- 10-Station Speed Dialer
- Hands-Free Headset Compatible
- Electronic Volume Controls for Speakerphone (8-Step), Handset & Headset (4-Step)
- Dial Lock
- 3-Step Ringer Volume Control
- Programmable Call Restriction
- Data Port
- Wall Mountable



KX-TCA200

Battery Back-Up Power Supply



- For use During a Power Outage
- Works with almost all Panasonic cordless phones (Excludes models prior to 2003, KX-TG2000 and the KX-TG4000)

KX-TCA60

Hands-Free Headset



- 2.5mm Connection
- Provides Hands-Free Usage
- Reversible for Use with Either Ear
- Adjustable Microphone
- 4-Foot Cord

KX-TCA86

Comfort-Fit Headset with Travel-Fold Design



- Same Features as the KX-TCA60 Plus:
- Fashionable Design

KX-TCA92

Comfort-Fit Headset with Travel-Fold Design



Same Features as the KX-TCA60 Plus:

- Adjustable Noise-Canceling Microphone
- Volume Control
- Mute
- Fashionable Design

KX-TCA88HA

Lightweight Hearing-Aid Compatible Cordless Phone Headset

Same Features as the KX-TCA60 Plus:

- Adjustable Noise-Canceling Microphone
- Uses Hearing-Aid Compatible Speaker
- Fashionable Design



KX-TCA93

Adjustable Clip-on Headset

- 2.5mm Connection
- Provides Hands-Free Usage
- Reversible for Use with Either Ear
- Adjustable Microphone
- 4-Foot Cord

KX-TCA94 (available in black or white)

Clip-on Headset

- 2.5mm Connection
- Provides Hands-Free Usage
- Reversible for Use with Either Ear
- Adjustable Microphone
- 4-Foot Cord

KX-TCA95

Clip-on or Neckband Headset

- 2-Way earphone: clip-on or neckband
- 2.5mm Connection
- Provides Hands-Free Usage
- Reversible for Use with Either Ear
- Adjustable Microphone
- 4-Foot Cord

Conference Speakerphones

KX-TS730S

Conference Speakerphone

- Ultra-Sensitive 8-Microphone System
- Full Digital Duplex Conferencing
- 120-Minute Conference Recording
- Caller ID¹
- Memory Dialer
- Hi-Fi Sound Quality



Cutting edge technology, style and convenience make the Panasonic conference speakerphone perfect for any work environment, from home offices to small businesses to large corporations. Lightweight and featuring a unique four-legged design, the conference speakerphone is capable of transmitting clear, crisp audio, even when you're sitting as far as 10 feet away from the speakerphone.

Ultra-Sensitive 8-Microphone System

This multi-microphone system consists of two microphones at each of the four corners that allow the unit to capture omnidirectional voices at a distance. It is designed to receive audio in a 360-degree radius in rooms up to 380 square feet, so you can speak at a distance of up to 10 feet away and still be heard clearly. This allows you to move about the conference room with the confidence of knowing that your words will be heard clearly.

Full Digital Duplex Conferencing

Full digital duplex communication technology helps reduce the echo and dropouts commonly found in many speakerphones, leading to crisp and natural conversations. Panasonic neodymium speakers and eight hyper cardioid microphones (two at each corner) with active sound processing technology deliver hi-fi sound quality.

120-Minute Conference Recording

The conference speakerphone can record up to 120 minutes of your most important calls, so you can concentrate on the conversation, rather than writing endless pages of notes. And if you want to take your recording(s) with you, the conference speakerphone has a 3.5 mm Audio Out jack that allows you to record your conversations to cassettes, wave files and MP3 files.

Caller ID¹

This convenient feature allows the conference speakerphone to display the name and number of incoming callers on an amber glow LCD. And a memory capacity of 50 names and numbers allows for easy retrieval and direct callback.

Memory Dialer

You can store up to 100 telephone numbers for quick viewing and dialing. In addition to the ability to retrieve all your business and personal contacts quickly and easily, there's also a storage capacity of up to 32 digits that allows you to save lengthy long-distance access codes for overseas numbers (i.e., 10-10-xxx).



The KX-FLB851 is a fast, efficient, document-communications system ideal for a home office, small business, schools, universities or municipal offices. This 4-in-1 multi-functional machine serves as a high-speed laser printer, fax, a flatbed color scanner, and a flatbed copier. You can depend on these office solutions to streamline workflow and maximize productivity. In addition to its versatility, the KX-FLB851 is a compact, easy-to-use and durable unit.

Multi-Action Sorter

The Multi-Action Sorter facilitates document management as copies, prints and faxes are routed to three different trays, always keeping those documents separate from each other. What's more, it enables network print users who are connected to the optional KX-FA102 LAN Board to print to a designated tray of their choice. So, with such specific page direction, there's no sifting through documents trying to figure out what belongs to whom or which department.

Scan/Network Scan Capability

With the Push Scan feature, you just set your item on the flatbed or in the document feeder, choose which PC to send it to, and press scan. The scanned image pops up on your computer, giving you the option to save it or send it as an email attachment. By connecting to an optional LAN Board, you can become part of a network that enables you to scan and send a document to any users who are connected. One or multiple users can scan to email choosing PDF, JPEG OR TIFF files. The scan(s) will appear on each recipient's computer in an e-mail that is generated automatically. The result is beautiful, vibrant, full-color reproductions with 9600 dpi. You can even convert scanned pages to editable documents with the included Readiris™ OCR Software.

KX-FLB851 All-in-One Flatbed Laser MFP with Multi-Action Sorter



Shown with the optional KX-FA101 Paper Tray

KX-FLB851

All-in-One Flatbed Laser Fax with Multi-Action Sorter

Print

- Print up to 18 Pages Per Minute⁵
- Up to 780-Sheet Paper Capacity
 - 250-Sheet Capacity Input Tray
 - 30-Sheet Multi-Function Tray
 - Optional 500-Sheet Tray (LTR/LGL)
- 600 x 600 dpi Printer Resolution
- USB Interface⁷
- Network Print Capability*
- Works with Microsoft® Windows® 98/Me/2000/XP

Scan

- Color Scanning with Flatbed and Document Feeder
- Scan to PDF, JPEG or TIFF
- 9600 dpi (interpolated) Scanning Capability
- Convert Scanned Pages to Editable Documents with Read-Iris OCR Software
- Network Scan Capability*
- Easy-to-Use Image Viewer

* When the optional KX-FA102 LAN Board is connected.

Copier

- Copy up to 18 Pages Per Minute⁵
- Automatic Document Feeder (50 Sheet)
- Enhanced 600 dpi Laser Copy Quality
- Multiple Copies (Up to 99 from the Original)
- Enlarge up to 200%
- Reduce up to 50%

Fax

- 33.6 kbps Fax Modem
- 10MB Document Memory Total
- 64-Level Photo Resolution
- Dual Access with Reserved Transmission
- Error Correction Mode (ECM)
- Junk Fax Prohibitor
- PC-Fax
- Caller ID Compatible¹
- Automatic Document Feeder (50-Sheet)

Optional Letter/Legal 500 sheet paper tray: KX-FA101

Optional LAN Board: KX-FA102

Optional Handset: KX-FA103



*Advanced communications technology
for the way you work and live.*



Power for the Home Office

Whether you live to work, or work to live, you need the right tools to manage your life and your livelihood. Panasonic facsimile machines are truly home/life office command centers. The leader in cordless phone technology, Panasonic has integrated this expertise to streamline your communications with cordless handsets, expandable phone systems (up to four handsets), 2.4 GHz and 5.8 GHz technology, Caller ID¹ and Caller IQ™ compatibility, built-in answering systems and speakerphones.

Conveniently, you'll need only one phone line since fax/phone switching automatically determines the kind of call coming in. Along with printing speeds of up to 18 pages per minute⁵, built-in memory retains incoming documents in case you run out of paper. You can even fax to multiple locations from memory while you go about your day. Add in copier, scanner and printer functions, plus the Fax Advantage Product exchange Program⁶ and you'll find a Panasonic facsimile machine is the ideal communication tool for your needs. After all, it's not just your home office. It's your life office!

All-in-One Flatbed Laser Fax



KX-FLB811

All-in-One Flatbed Laser Fax with Document Separator

Print

- Print up to 18 Pages Per Minute⁵
- Up to 250-Sheet Paper Capacity
- 600 x 600 dpi Printer Resolution
- USB Interface⁷
- Works with Microsoft® Windows® 98/Me/2000/XP

Scan

- Color Scanning with Flatbed and Document Feeder
- Scan to PDF, JPEG or TIFF
- 9600 dpi (interpolated) Scanning Capability
- Convert Scanned Pages to Editable Documents with Readiris OCR Software
- Easy-to-Use Image Viewer

Copier

- Copy up to 18 Pages Per Minute⁵
- Automatic Document Feeder (40 Sheet)
- Enhanced 600 dpi Laser Copy Quality
- Multiple Copies (Up to 99 from the Original)
- Enlarge up to 200%
- Reduce up to 50%

Fax

- Separate Output Tray for Received Faxes
- 33.6 kbps Fax Modem
- 2MB Document Memory Total
- 64-Level Photo Resolution
- Dual Access with Reserved Transmission
- Error Correction Mode (ECM)
- Junk Fax Prohibitor
- PC-Fax
- Caller ID Compatible¹
- Automatic Document Feeder (40-Sheet)
- Fax Advantage Product Exchange Program⁶

High Yield Consumables

Toner KX-FA85 or KX-FA87

Drum KX-FA86



KX-FLB801

All-in-One Flatbed Laser Fax

Print

- Print up to 18 Pages Per Minute⁵
- Up to 250-Sheet Paper Capacity
- 600 x 600 dpi Printer Resolution
- USB Interface⁷
- Works with Microsoft® Windows® 98/Me/2000/XP

Scan

- Color Scanning with Flatbed and Document Feeder
- Scan to PDF, JPEG or TIFF
- 9600 dpi (interpolated) Scanning Capability
- Convert Scanned Pages to Editable Documents with Readiris OCR Software
- Easy-to-Use Image Viewer

Copier

- Copy up to 18 Pages Per Minute⁵
- Automatic Document Feeder (40 Sheet)
- Enhanced 600 dpi Laser Copy Quality
- Multiple Copies (Up to 99 from the Original)
- Enlarge up to 200%
- Reduce up to 50%

Fax

- 33.6 kbps Fax Modem
- 2MB Document Memory Total
- 64-Level Photo Resolution
- Dual Access with Reserved Transmission
- Error Correction Mode (ECM)
- Junk Fax Prohibitor
- PC-Fax
- Caller ID Compatible¹
- Automatic Document Feeder (40-Sheet)
- Fax Advantage Product Exchange Program⁶

High Yield Consumables

Toner KX-FA85 or KX-FA87

Drum KX-FA86



KX-FLM651

High Speed Fax/PC-Printer/Scanner/Copier

- Fast, Up to 14 PPM⁵, 600 x 600 dpi Printing
- PC-Printer, Copier, Scanner Functions
- Compatible with Windows® 95, 98, 2000, ME and XP
- Full version of Read-Iris Pro 5.5 OCR Software
- Multi-Function USB PC Interface
- 14.4 kbps Fax Modem with Error Correction Mode
- Out-of-Paper Reception (Up to 170 Pages – 2MB)⁵
- Enhanced Copier
 - Up to 99 Copies from One Original
 - 50% - 200% Reduce & Enlarge
 - Collate
- 250 Sheet Covered Paper Tray - LTR/LGL
- Automatic Document Feeder – 20 Sheet
- Dual Access with Reserved Transmission
- Caller ID¹ with Caller ID¹ List Printing
- Navigator Key with 2-Line Display
- Enhanced Help System
- Monitor Speaker
- Telephone Directory Navigator (122 Entries)
- Fax Advantage Product Exchange Program⁶
- Broadcasting (3 Keys, 20-Station)
- Auto-Redial (Fax)
- Quick Scan
- Delayed Send
- Fax and Caller ID¹ Activity Report
- Resolution: Photo with Text/Photo/Super Fine/Fine/Standard
- Answering Machine Interface
- Distinctive Ring Detection⁸
- 64-Level Photo Resolution
- Extension Line Transfer

High Yield Consumables:
Toner – KX-FA83, Drum – KX-FA84Toner



KX-FL611

High Speed Laser Fax/Copier

- Fast, Up to 14 PPM⁵, 600 x 600 dpi Printing
- 14.4 kbps Fax Modem with Error Correction Mode
- Out-of-Paper Reception (Up to 170 Pages – 2MB)⁵
- Enhanced Copier
 - Up to 99 Copies from One Original
 - 50% - 200% Reduce & Enlarge
 - Collate
- 250 Sheet Covered Paper Tray (LTR/LGL)
- Automatic Document Feeder (20 Sheets)
- Dual Access with Reserved Transmission
- Caller ID¹ with Caller ID¹ List Printing
- Navigator Key with 2-Line Display
- Caller IQ™ Plus Compatible for Advanced Operations²
- Enhanced Help System
- Monitor Speaker
- Telephone Directory Navigator (122 Entries)
- Fax Advantage Product Exchange Program⁶
- Broadcasting (3 Keys, 20-Station)
- Auto-Redial (Fax)
- Quick Scan
- Delayed Send
- Fax and Caller ID¹ Activity Report
- Resolution: Photo with Text/Photo/Super Fine/Fine/Standard
- Answering Machine Interface
- Distinctive Ring Detection⁸
- 64-Level Photo Resolution
- Extension Line Transfer

High Yield Consumables:
Toner – KX-FA83, Drum – KX-FA84



KX-FL541

High Speed Laser Fax/Copier

- Fast, Up to 14 PPM⁵, 600 x 600 dpi Printing
- 33.6 kbps Fax Modem with Error Correction Mode
- 10MB Total Memory
 - Out-of-Paper Reception (Up to 512 Pages – 6MB)⁵
 - Memory Send (Up to 341 Pages – 4MB)⁵
- Enhanced Copier
 - Up to 99 Copies from One Original
 - 50% - 200% Reduce & Enlarge
 - Collate
- 250 Sheet Paper Tray (LTR/LGL)
- Automatic Document Feeder (20 Sheets)
- Dual Access with Reserved Transmission
- Caller ID¹ with Caller ID¹ List Printing
- Navigator Key with 2-Line Display
- Caller IQ™ Plus Compatible for Advanced Operations²
- Enhanced Help System
- Monitor Speaker
- Telephone Directory Navigator (122 Entries)
- Fax Advantage Product Exchange Program⁶
- Broadcasting (3 Keys, 20-Station)
- Auto-Redial (Fax)
- Quick Scan
- Delayed Send
- Fax and Caller ID¹ Activity Report
- Resolution: Photo with Text/Photo/Super Fine/Fine/Standard
- Answering Machine Interface
- Distinctive Ring Detection⁸
- 64-Level Photo Resolution
- Extension Line Transfer

High Yield Consumables:
Toner – KX-FA83, Drum – KX-FA84



KX-FL511

High Speed Laser Fax/Copier

- Fast, Up to 12 PPM⁵, 600 x 600 dpi Printing
- 14.4 kbps Fax Modem with Error Correction Mode
- Out-of-Paper Reception (Up to 170 Pages – 2MB)⁵
- Enhanced Copier
 - Up to 99 Copies from One Original
 - 50% - 200% Reduction & Enlargement
 - Collate
- 220 Sheet Paper Tray (LTR/LGL)
- Automatic Document Feeder (20 Sheets)
- Caller ID¹ with Caller ID¹ List Printing
- Navigator Key with 2-Line Display
- Caller IQ™ Plus Compatible for Advanced Operations²
- Enhanced Help System
- Monitor Speaker
- Telephone Directory Navigator (122 Entries)
- Fax Advantage Product Exchange Program⁶
- Broadcasting (3 Keys, 20-Station)
- Auto-Redial (Fax)
- Quick Scan
- Delayed Send
- Fax and Caller ID¹ Activity Report
- Resolution: Photo with Text/Photo/Super Fine/Fine/Standard
- Answering Machine Interface
- Distinctive Ring Detection⁸
- 64-Level Photo Resolution
- Extension Line Transfer

High Yield Consumables:
Toner – KX-FA83, Drum – KX-FA84



KX-FHD351

Plain Paper Fax/Copier with All-Digital Answering System

- Up to 4 PPM Print Speed⁵
- Enhanced Copier (Enlarge, Reduce, Collate)
- Automatic Fax/Phone Switching
- All-Digital Answering System (18 Min.)
 - 2 Voice Mailboxes
 - Voice Menu & Time/Day Stamp
- Digital Duplex Speakerphone
- 14.4 kbps Fax Modem for Fast Data Transfer
- Caller ID¹ Compatible with 2-Line Display
- Navigator Key with 2-Line Display
- Caller IQ™ Compatible for Advanced Operations²
- 50-Sheet Paper Tray (LTR/LGL)
- Automatic Document Feeder (10 Sheets)
- Enhanced Help System
- Out-of-Paper Reception (Up to 28 Pages – 350KB)⁵
- Telephone Directory Navigator (110 Entries)
- Fax Advantage Product Exchange Program⁶
- Broadcasting (20-Station)
- Auto-Redial (Fax)
- Quick Scan
- Delayed Send
- Fax and Caller ID¹ Activity Report
- Resolution: Photo/Super Fine/Fine/Standard
- Distinctive Ring Detection⁸
- 64-Level Photo Resolution
- Extension Line Transfer

Consumable: KX-FA93



KX-FHD331

Plain Paper Fax/Copier

- Up to 4 PPM Print Speed⁵
- Enhanced Copier (Enlarge, Reduce, Collate)
- Caller ID¹ with Caller ID¹ List Printing
- Monitor Speaker
- Navigator Key with 2-Line Display
- Caller IQ™ Compatible for Advanced Operations²
- 50-Sheet Paper Tray (LTR/LGL)
- Automatic Document Feeder (10 Sheets)
- Enhanced Help System
- Out-of-Paper Reception (Up to 24 Pages – 300KB)⁵
- Telephone Directory Navigator (90 Entries)
- Fax Advantage Product Exchange Program⁶
- Broadcasting (20-Station)
- Auto-Redial (Fax)
- Quick Scan
- Delayed Send
- Fax and Caller ID¹ Activity Report
- Resolution: Photo/Super Fine/Fine/Standard
- Answering Machine Interface
- Distinctive Ring Detection⁸
- 64-Level Photo Resolution
- Extension Line Transfer

Consumable: KX-FA93



KX-FG6550

2-Line, Plain Paper Fax/Copier with Expandable 5.8 GHz FHSS GigaRange® Cordless Phone and Digital Answering System

- Automatic Fax/Phone Switching
- Enhanced Copier (Enlarge, Reduce, Collate)
- 5.8 GHz Frequency-Hopping Spread Spectrum (FHSS) Cordless Technology
 - Expandable up to 4 Handsets
 - Voice Enhancer Technology
 - Light-Up Indicator with Ringer/Message Alert
 - Handset Speakerphone
 - Headset Jack
- True Voice Paging
- 60-minute All-Digital Answering System
 - Voice Menu & Time/Day Stamp
- Digital Duplex Speakerphone on Base & Handset
- Navigator Key with 2-Line Display
- Caller ID¹ with Caller ID¹ List Printing
- Automatic Document Feeder (10 Sheets)
- Enhanced Help System
- Out-of-Paper Reception (Up to 28 pages – 350KB)⁵
- Telephone Directory Navigator (50 Entries)
- Fax Advantage Product Exchange Program⁶
- Broadcasting (20-Station)
- Auto-Redial (Fax)
- Quick Scan
- Delayed Send
- Fax and Caller ID¹ Activity Report
- Resolution: Photo/Super Fine/Fine/Standard
- Distinctive Ring Detection⁸
- Extension Line Transfer

Additional Handset: KX-TGA650B

Replacement Battery: HHR-P104

Consumable: KX-FA92



KX-FP145

Plain Paper Fax/Copier with All-Digital Answering System

- Automatic Fax/Phone Switching
- All-Digital Answering System (15 min.)
 - 2 Voice Mailboxes
 - Voice Menu & Time/Day Stamp
- Digital Duplex Speakerphone
- Caller ID¹ with Caller ID¹ List Printing
- Navigator Key with 2-Line Display
- Caller IQ™ Compatible for Advanced Operations²
- Automatic Document Feeder (10 Sheets)
- Enhanced Help System
- Out-of-Paper Reception (Up to 24 Pages – 300KB)⁵
- Telephone Directory Navigator (100 Entries)
- Fax/Voice Pager Call with Caller ID¹
- Fax Advantage Product Exchange Program⁶
- Broadcasting (20-Station)
- Auto-Redial (Fax)
- Quick Scan
- Fax and Caller ID¹ Activity Report
- Resolution: Photo/Super Fine/Fine/Standard
- Distinctive Ring Detection⁸
- 64-Level Photo Resolution
- Extension Line Transfer

Consumable: KX-FA92



KX-FG2451

Plain Paper Fax/Copier with 2.4GHz FHSS GigaRange® Cordless Phone and Digital Answering System

- Enhanced Copier (Enlarge, Reduce, Collate)
- Automatic Fax/Phone Switching
- 2.4GHz GigaRange® Cordless Handset with Handset Speakerphone
 - Caller ID¹ with 3-Line LCD
 - Voice Enhancer Technology
 - Light-Up Indicator with Ringer/Message Alert
 - Handset Speakerphone
 - Headset Jack
- All-Digital Answering System (18 Min.)
 - Voice Menu & Time/Day Stamp
- Digital Duplex Speakerphone on Base & Handset
- Caller ID¹ with Caller ID¹ List Printing
- Navigator Key with 2-Line Display
- Caller ID¹ Compatible with 2-Line Display
- Automatic Document Feeder (10 Sheets)
- Enhanced Help System
- Out-of-Paper Reception (Up to 28 Pages – 350KB)⁵
- Telephone Directory Navigator (50 Entries)

Replacement Battery: HHR-P105
Consumable: KX-FA91



KX-FP205

Plain Paper Fax/Copier

- Enhanced Copier (Enlarge, Reduce, Collate)
- Automatic Fax/Phone Switching
- Monitor Speakerphone
- Caller ID¹ with Caller ID¹ List Printing
- Navigator Key with 2-Line Display
- Automatic Document Feeder (10 Sheets)
- Enhanced Help System
- Out-of-Paper Reception (Up to 24 Pages – 300KB)⁵
- Telephone Directory Navigator (50 Entries)
- Fax Advantage Product Exchange Program⁶

Consumable: KX-FA91

Advanced Hybrid Telephone Systems

KX-TA824 Advanced Hybrid Wired Telephone System

The KX-TA824 system was designed to maximize the communications in a business or a home, with its wide array of features, it can be customized to meet each customer's unique requirements. It's initially configured with one Caller ID card (KX-TA82493), 3 COs, and 8 extension ports. By adding expansion cards (KX-TA82483, KX-TA82470 and the KX-TA82481) the system can grow to a maximum capacity of 8 COs and 24 extension ports. The KX-TA824 is compatible with all Panasonic KX-T7000, KX-T7300 and KX-T7700 series telephones, cordless model KX-TD7896 and single line devices.



Features

- PC Programmable (On Site and Remote)
- Built-in Remote Modem Card
- 3 Voice Mail Options (KX-TVA VPS, CO Based or Internal VM Card)
- Message Waiting Lamp Control
- Caller ID with Call Waiting (APT and SLT Telephones)¹
- Caller ID Logging (System and Station)
- Room Monitor
- Call Forwarding (Busy, No Answer, Follow Me, Outside Line and All Call)
- Direct Inward System Access (DISA) with Fax Detection and 3 Level Auto Attendant/OGM (180sec, 1ch)
- SMDR
- Built-in USB and RS232C Ports

KX-TA824 SYSTEM OPTIONAL EXPANSION AND FEATURE CARDS

KX-TA82483 3 X 8 EXPANSION CARD

Expands the system to support an additional 3 COs and 8 Extensions. 1.57 lbs. UPC Code 0379888-85139-3

KX-TA82481 2 X 8 EXPANSION CARD

Expands the system to support an additional 2 COs and 8 Extensions. 1.43 lbs. UPC Code 0379888-85138-6

KX-TA82470 8 PORT EXTENSION CARD

Expands the system to support an additional 8 Extensions 1.34lbs. UPC Code 0379888-85137-9

KX-TA82461 DOOR PHONE/ DOOR OPEN CARD

Supports up to 4 door intercoms, the KX-T30865, KX-T7775 or Panasonic Video Doorintercom systems VL-GM201A & VL-GM301A. Also Equipped with 4 relay contacts to control 4 door strike mechanisms or other compatible low voltage device. Maximum 1 per system.

0.8 lbs. UPC Code 0379888-85136-2

KX-TA82491 DISA/AUTO ATTENDANT EXPANSION CARD

Adds 1 Channel and 180 seconds to the built in DISA features, for a maximum total of 2 channel and 360 seconds. Maximum of one card per system. 0.11 lbs. UPC Code 0379888-85140-9

KX-TA82492 VOICE MESSAGE CARD

Adds basic voice messaging features to the system. Supports 2 channels, 60 minutes total recording time. Maximum 1 per system 0.12 lbs. UPC Code 0379888-85141-6

KX-TA82493 CALLER ID CARD

Required to pass Caller ID to telephones connected to the system. Each KX-TA82493 supports 3 COs. One card is included with the Control Unit. A maximum of two additional cards can be installed. 0.12 lbs. UPC Code 0379888-85142-3



KX-TAW848 Advanced Hybrid Wired and Wireless Telephone System

The KX-TAW848 advanced hybrid design allows connectivity with the KX-T7700 series proprietary wired telephones, single-line devices and voice mail integration. However, the KX-TAW848 is unique relative to its KX-TA824 sibling in that it is not only a traditionally wired PBX system, but it also has a complete Multi-Cell Wireless phone option. The KX-TAW848 is initially configured with 4 CO lines and 4 Extensions ports, by adding expansion cards, the system can grow to a maximum capacity of 8 CO's and 24 Extension ports. In addition, up to 28 multi-cell portable handsets can be registered to the system. The KX-TAW848 is compatible with KX-T7000, 7300 and 7700 series telephones, Panasonic multi-cell cordless models KX-TD7680 and KX-TD7690 and single line devices.

Features

- Multi-Cell Wireless
- PC-Based Programming (On Site and Remote)
- Automatic Route Selection (ARS)
- Toll Restriction
- Caller ID with Call Waiting (APT and SLT Telephones)
- Voice Mail Integration or Built-in Message Card
- Compatible with KX-T7700, 7300, 7000 Series Telephones and SLT
- Direct Inward System Access (DISA)
- SMDR
- Built-in USB and RS232 Ports

KX-TAW848 SYSTEM OPTIONAL, EXPANSION AND FEATURE CARDS

KX-TAW84870 4-PORT HYBRID LINE CARD (HLC4)

4 ports per card. Supports KX-T7700 (APT) series telephones, Single Line (SLT) and DSS console, (KX-T0141) 2 port Cell Station and DPITS Voice Mail. 4.4 lbs. UPC Code 0-37988-85098-3

KX-TAW84874 8-PORT SINGLE LINE CARD (SLC8)

8 ports per card. Supports single line telephones (SLT). Also equipped with 8 DTMF receivers. 2 cards max per system. 5.18 lbs. UPC Code 0-37988-85099-0

KX-TAW84875 4-PORT PROPRIETARY LINE CARD (PLC4)

4 ports per card. Supports KX-T7700 series (APT), DSS and DPITS Voice Mail. 1 card max per system. 4.41 lbs. UPC Code 0-37988-85100-3

KX-TAW84876 8-PORT PROPRIETARY EXTENSION CARD (PLC8)

8 ports per card. Supports KX-T7700 Series (APT), DSS and DPITS Voice Mail. 2 cards max per system. 5.1 lbs. UPC Code 0-37988-85101-0

KX-TAW84880 4 PORT LOOP START CO CARD (LCOT4)

4 ports per card. 2 ports have power failure transfer. 1 optional (KX-TAW84893) 4 port caller ID can be mounted to support Caller ID. 4.4 lbs. UPC Code 0-37988-85102-7

KX-TAW84861 4-PORT DOORPHONE/DOOR OPENER CARD (DPH4)

Supports up to 4 doorphones (KX-T30865, KX-T7775 and Panasonic Video Door Intercom Systems VL-GM201A & 301A). Also equipped with 4 dry contacts for connection to an electric door strike or other compatible type equipment. Maximum 1 per system. 6.3 lbs. UPC Code 0-37988-85095-2

KX-T7700 Series Telephones

Multifunction LCD

- Alphanumeric LCD providing simple key access to:
- Incoming caller's name and number (Caller ID¹ required)
 - Call log – up to 100 incoming and 10 outgoing calls can be recalled and redialed (Caller ID¹ required)
 - Call duration
 - Calling extension name

Preset Feature Keys

- Fast access to most commonly used features

Hands-Free Speakerphone

- Integrated speaker for hands-free operation

Headset Jack

- Allows hands-free usage for PC or paperwork
- 2.5mm

Programmable Keys

- 24 keys with 2-Color LEDs
- 12 CO Keys
- 12 Feature Keys

Large Backlit LCD Display

- 3-line backlit display

Message Lamp

- Large message/ringer lamp—alerts you when voice mail messages are left

Adjustable Base

- 2 Position-angle adjustment and wall mountable








Navigation Key







- Fast and reliable operation
- Adjust handset, speaker and ringer volume
- Adjust LCD contrast
- Search through speed dial
- Access menu options



KX-T7737 White Shown

Keys can be individually programmed as:

-  **CO Key**
 - Direct access to a CO line (CO Keys Only)
-  or  **Direct Stations Selection (DSS) Key**
 - One key access to Stations or Station groups
-  or  **Auto-Dial Key**
 - 32 digits can be programmed per key for external calling
-  or  **Features Access Key**
 - Simplified activation of system features

						
Features	KX-T7750	KX-T7720	KX-T7731	KX-T7736	KX-T7737	KX-T7740
Talking Caller ID ¹					•	
Programmable CO Keys	12	12	12	12	12	
Programmable Feature Keys	12	12	12	12	12	
Auto Answer/Mute Key		•	•	•	•	
Monitor	•					
Speakerphone Key with LED Indication		•	•	•	•	
Transfer Key	•		•	•	•	
Hold Key	•	•	•	•	•	
Navigation Key			•	•	•	
Speakerphone		•	•	•	•	
Speaker Volume Control	•	•	•	•	•	
3-Position Ringer Volume Switch	•	•	•	•	•	
Message/Ringer Lamp	•	•	•	•	•	
3-Line, 16-Character Backlit LCD Display				•	•	
1-Line, 16-Character Backlit LCD Display			•			
Backlit Dial Keypad			•	•	•	
LCD Contrast Adjustment			•	•	•	
J-Type Handset	•	•	•	•	•	
2.5mm Headset Jack	•	•	•	•	•	
48-Button DSS Console						•
Colors	Black/White	Black/White	Black/White	Black/White	Black/White	Black/White

2.4GHz Wireless Multi-Cell Telephones

Integrating 2.4GHz Multi-Cell wireless telephones with the KX-TAW848 means that the benefits of your phone system can now "follow" you where ever you are on your premises.

Digitally enhanced wireless telephony allows voice and data transmission via radio waves, within the range of up to 4 strategically-placed cell stations. As you move throughout the coverage area, the system provides seamless communication by handing off the call from cell station to cell station. It's a low-cost and highly flexible solution that keeps people connected whether they are in the warehouse, in a showroom, in a home or just about anywhere on site.

2.4GHz Multi-Cell Wireless Telephone System Features

- 28 handsets can be registered to one system (Up to 8 can be used simultaneously)
- Handsets can be registered on multiple systems (office and home)
- Secure high-quality digital speech transmission and reliability
- Caller ID name and number compatible¹
- Programmable, multiple ringer types, including a silent vibrate mode
- Access to 1000 system and 100 personal speed dial numbers



KX-TD7690

- Premium Wireless Handset
- Only 2.57 Ounces
- Up to 12 CO or Feature Soft Keys can be Programmed
- Speakerphone
- Auto Answer
- 2.5mm Headset Jack
- 5-Line Backlit LCD Display



KX-TD7680

- Wireless Handset
- 5.3 Ounces
- Up to 12 CO or Feature Keys can be Programmed
- Speakerphone
- Auto Answer
- 2.5mm Headset Jack
- 3-Line Backlit LCD Display

¹Requires subscription to fee-based telephone company service.

KX-TVA50

Voice Processing System

By adding a KX-TVA Series Voice Processing System, your calls can be easily managed by using the built in Automated Attendant Service, Voice Mail with Email integration and more. And with Panasonic's high level of integration between the KX-TVA Voice Processing System and our KX-TAW848 systems you can enjoy features like Live Call Screening, that lets you listen to the caller leave a message in your voice mailbox or Two Way Record that lets you record a conversation in your mailbox at any time during the call. With all these choices it's easy to custom design a system that is right for you.

- Auto Configuration
- Caller ID Call Routing
- Caller ID Screening
- Caller ID Name Announce
- Intercom Paging
- Trunk Service
- Automatic Login
- Live Call Screening*
- Two-way Record*
- Two-way Transfer*
- Personal Greeting for Caller ID
- Remote Call Forwarding Set*
- Timmed Reminder Setting*
- Time Synchronization*



KX-TVA50 VOICE PROCESSING SYSTEM OPTIONAL EXPANSION AND FEATURE CARDS

KX-TVA502 2 PORT DPT/APT/SLT INTERFACE CARD.

Supports DPITS, APITS and In band integration. Expands the port capacity of the system by 2 ports. A maximum of 2 cards can be installed in the KX-TVA50. 0.61 lbs. UPC Code 0379888-85147-8

KX-TVA503 2 PORT DPT INTERFACE CARD Supports DPITS integration only. Expands the port capacity of the system by 2 ports. A maximum of 2 cards can be installed in the KX-TVA50. 0.61 lbs. UPC Code 0379888-85148-5

KX-TVA524 4 HOUR MEMORY EXPANSION CARD

Expands the storage capacity of the KX-TVA50 by 4 hours. Maximum of one card can be installed per system. 0.28 lbs. UPC Code 0379888-85149-2

KX-TVA594 LAN I/F CARD Required to connect the KX-TVA50 to a wide or local area network. Provides messaging from the TVA system to a subscriber's email. 0.33 lbs. UPC Code 0379888-85150-8

KX-TVA296 REMOTE MODEM CARD Modem card. Required for remote programming and administration. Maximum of one per system. 0.36 lbs. UPC Code 0379888-85145-4

KX-A249 19" RACKMOUNT BRACKET For mounting the KX-TVA50 into a 19" rack. 2.10 lbs. UPC Code 0379888-85160-7

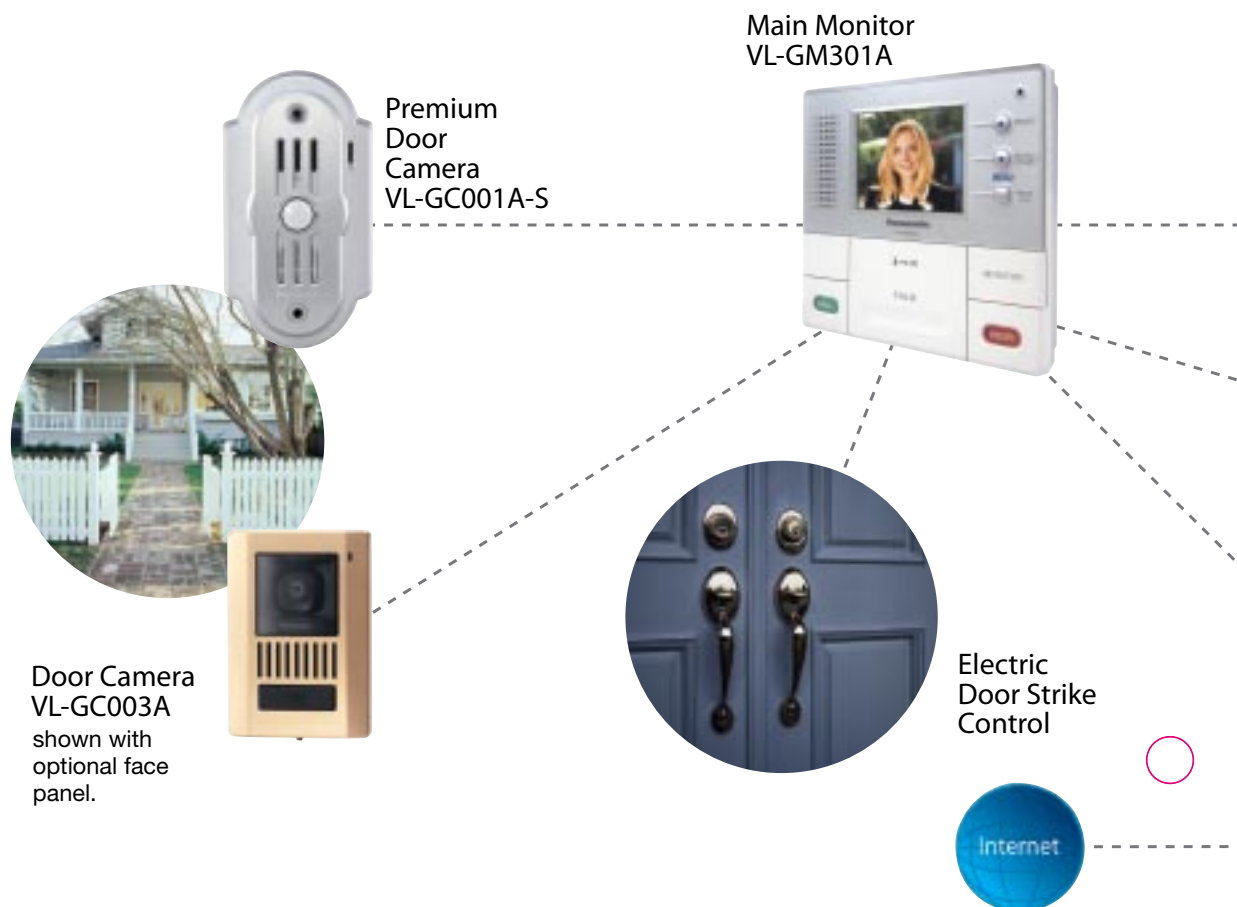
Advanced Hybrid Wireless Telephone System Features Chart

TELEPHONE SYSTEMS FEATURE LIST		
System Features	KX-TA824	KX-TAW848
Absent Message Capability	6	9
Account Code Entry (Forced Verified)	50	1,000
Account Code Entry (Optional)	•	•
Automated Attendant (with DISA/OGM)	•	•
Automatic CO Hunting	•	•
B.G.M. (Back Ground Music) Jack	1 jack	1 jack
Call Back Busy	•	•
Call Forwarding	•	•
Call Hunting (Terminal or Circular)	•	•
Call Log System	(300 Numbers)	Programmable
Call Parking Zones	10	•
Call Park Retrieve	•	•
Call Pick Up	•	•
Call Retrieve from TAM	•	•
Call Transfer/Transfer Recall	•	•
Call Waiting	•	•
Caller ID, Call Logging	(20/Station)	Programmable
Caller ID, Call Log Lock	•	•
Caller ID, Callback	•	•
Caller ID Call Waiting	•	•
Caller ID (Name and/or Number) to APT	•	•
Caller ID (Name and Number) to SLT	•	•
Caller ID Internal	•	•
Class of Service	5	64
CO Limited Duration Timer	•	•
CO Line Status (Two Color LED)	•	•
Conference Calling (3 Party)	•	•
Conference Calling (8 Party)	•	•
Data Dump (Print Out of System Program Data)	•	•
Data Line Security (for Fax or Modem)	•	•
Date and Time Display	•	•
Delayed Ringing	•	•
D.I.L. (Direct in Line)	•	•
D.I.S.A. (Direct Inward System Access)	•	•
D.I.S.A. Single Digit Access	•	•
Distinctive Ringing Tone (Doorphone, Intercom, CO)	•	•
D.N.D. (Do Not Disturb)	•	•
Do Not Disturb Override	•	•
Door Intercoms/Door Opener Contacts	4/4	4/4
DSS/BLF Consoles	2	•
Dual Port Usage (Parallel SLT Station)	•	•
Duration Time of Call Display	•	•
Electronic Station Lock	•	•
Extension Groups	8	32
Exclusive Hold	•	•
Executive Override	•	•
Executive Override Deny	•	•

System Features	KX-TA824	KX-TAW848
External Paging Access	1	1
Fax Transfer	•	•
Flexible CO Keys (DSS/BLF, One Touch Dial)	•	•
Flexible DSS Keys (One Touch, Feature Access)	•	•
Flexible Key Assignments	•	•
Flexible Line Assignment	•	•
Flexible Night Service/Programmable/Manual	•	•
Flexible Ringing Assignment (Day, Night, Lunch)	•	•
Flexible Station Numbering	•	•
Hands-Free Answer Back Intercom	•	•
Handset/Headset-Display Phones	•	•
Hold	•	•
Hold Recall/Hold Reminder	•	•
Industry Standard Telephone Capability	•	•
Internal Paging (All Call Paging)	•	•
Internal Paging (Zone Paging)	8-Zones	32-Zones
Last Number Redial	•	•
Limited Call Duration	•	•
Login/Logout	•	•
Memory Back-up	•	•
Message Waiting - Proprietary Phones	•	•
M.O.H. (Music on Hold)	•	•
Multi-Cell Wireless	•	•
Multiple Voice Mail Lamps	•	•
Off-Hook Tone Signaling	•	•
On-Site Programming Diagnostics	•	•
Operator Call	•	•
Power Failure Transfer	•	•
Pre-Selection (Central Office of Intercom)	•	•
Privacy Release	•	•
Ring Groups	•	•
Room Monitor	•	•
Saved Number Redial	•	•
Secret Dialing	•	•
S.M.D.R. (Station Message Detail Recording)	•	•
Station Name Display	•	•
Station Speed Dial	10	10
Station to Station Messaging	•	•
System Configuration Backup Utility	•	•
System Speed Dial Numbers	100	1,000
Toll Restriction	5-Class	32-Class
Toll Restriction Override	•	•
Tone/Pulse Dialing (By CO Line)	•	•
Transfer (Screened/Unscreened)	•	•
Trunk Groups	•	•
Unattended Conference Call	•	•
Voice Mail CO-Based	•	•
Voice Mail Integration (APITS)	•	•
Voice Mail Integration (DPITS)	•	•

Seeing is Relieving

Panasonic introduces an innovative new system for protecting your home from intruders. Combining video and intercom functions, this system lets you see and speak with visitors before opening the door. You can also integrate the telephone system to the video door intercom system for added reliability and convenience. The indoor color monitor offers a host of functions that make it easy for you and family members to see who's outside. With advanced new video intercom systems from Panasonic, protecting loved ones has never been easier.





VL-GM201A Video Door Intercom Monitor

- Supports one monitor, one camera and one door opener connection
- Compatible with VL-GM003A, VL-GC002A-W, VL-GC001A-S and VL-GC001A-N door cameras only
- Supports one connection to most Panasonic telephone system models
- 2.5" color LCD display
- Hands-free or Press to Talk operation
- 5-step brightness control
- Wall or desk mountable

Expandable Line Up

Door Cameras



VL-GC001A-S



VL-GC003A shown with optional face panel.



VL-GC001A-N



VL-GC002A-W

Monitors

Main Monitor VL-GM301A



Optional Expansion Monitor VL-GM001A



Single Monitor VL-GM201A



Mounting Options

Optional

Flush Mount Kit for the VL-GM301A and the VL-GM001A



VL-GW001A

Optional Desk Mount Kit for the VL-GM201A



VL-GT001A shown with included mounting bracket.



VL-GM301A Premium Video Door Intercom Main Monitor

- Supports three monitors (one main monitor and two expansion monitors VL-GM001A), two cameras and two door opener connections
- Compatible with VL-GM003A, VL-GC002A-W, VL-GC001A-S and VL-GC001A-N door cameras only
- Supports two connections to most Panasonic telephone system models
- 3.5" color LCD display
- 3-step ringer control
- Hands-free or Press to Talk operation
- 5-step brightness control
- Video Out Jack
- Wall Mountable (surface or recessed)



Panasonic Telephone System



Optional Expansion Monitor #1 VL-GM001A



Optional Expansion Monitor #2 VL-GM001A



BB-HCS301A



TV



DVD Recorder

IP Network Camera & HD-PLC Glossary

Bandwidth - How much stuff you can send through a connection. Usually measured in bits-per-second. A full page of English text is about 16,000 bits. A fast modem can move about 57,000 bits in one second. Full-motion full-screen video would require roughly 10,000,000 bits-per-second, depending on compression.

bps - (Bits-Per-Second) A measurement of how fast data is moved from one place to another. A 56K modem can move about 57,000 bits per second.

CCD - Charge Coupled Device - a chip which can be used as an image sensor. Generally higher quality sensor than CMOS capable of capturing images in lower light levels.

CMOS - a low power image sensor chip.

DDNS - Dynamic Domain Name Server - a server which assigns a named URL to track to a dynamic IP Address.

DHCP Server - a server on a network or the Internet which assigns IP address information based on predetermined rules.

DNS - (Domain Name System) The Domain Name System is the system that translates Internet domain names into IP numbers. A "DNS Server" is a server that performs this kind of translation.

Domain Name -The unique name that identifies an Internet site. Domain Names always have 2 or more parts, separated by dots. The part on the left is the most specific, and the part on the right is the most general. A given machine may have more than one Domain Name but a given Domain Name points to only one machine. For example, the domain names: matisse.net mail.matisse.net workshop.matisse.net can all refer to the same machine, but each domain name can refer to no more than one machine. Usually, all of the machines on a given Network will have the same thing as the right-hand portion of their Domain Names (matisse.net in the examples above). It is also possible for a Domain Name to exist but not be connected to an actual machine. This is often done so that a group or business can have an Internet e-mail address without having to establish a real Internet site. In these cases, some real Internet machine must handle the mail on behalf of the listed Domain Name.

DSL - (Digital Subscriber Line) A method for moving data over regular phone lines. A DSL circuit is much faster than a regular phone connection, and the wires coming into the subscriber's premises are the same (copper) wires used for regular phone service. A DSL circuit must be configured to connect two specific locations, similar to a leased line (however a DSL circuit is not a leased line. A common configuration of DSL allows downloads at speeds of up to 1.544 megabits (not megabytes) per second, and uploads at speeds of 128 kilobits per second. This arrangement is called ADSL: Asymmetric Digital Subscriber Line. Another common configuration is symmetrical: 384 Kilobits per second in both directions. DSL is now a popular alternative to Leased Lines and ISDN,

being faster than ISDN and less costly than traditional Leased Lines.

Dynamic IP Address - an IP address assigned by a DHCP server or ISP to a device connected to the network or Internet. In order to find a device on the Internet, typically a static IP address or a DDNS domain name (such as http://p.viewnetcam.com) is required.

Ethernet - A very common method of networking computers in a LAN. There is more than one type of Ethernet. By 2001 the standard type was "100-BaseT" which can handle up to about 100,000,000 bits-per-second and can be used with almost any kind of computer.

Fire Wall - A combination of hardware and software that separates a Network into two or more parts for security purposes.

Global IP Address - also known as WAN IP address - the IP address which refers to a device directly connected to the Internet. This is assigned by an Internet Service Provider.

HTTP - (HyperText Transfer Protocol) The protocol for moving hypertext files across the Internet. Requires a HTTP client program on one end, and an HTTP server program on the other end. HTTP is the most important protocol used in the World Wide Web (WWW).

Intranet - A private network inside a company or organization that uses the same kinds of software that you would find on the public Internet, but that is only for internal use. Compare with extranet.

IP Address - (Internet Protocol Number) Sometimes called a dotted quad. A unique number consisting of 4 parts separated by dots, e.g. 165.113.245.2 Every machine that is on the Internet has a unique IP address - if a machine does not have an IP address, it is not really on the Internet. Many machines (especially servers) also have one or more Domain Names that are easier for people to remember.

IPv4 - (Internet Protocol, version 4) The most widely used version of the Internet Protocol (the "IP" part of TCP/IP.) IPv4 allows for a theoretical maximum of approximately four billion IP Numbers (technically 2³²), but the actual number is far less due to inefficiencies in the way blocks of numbers are handled by networks. The gradual adoption of IPv6 will solve this problem.

ISP - (Internet Service Provider) An institution that provides access to the Internet in some form, usually for money

JPEG - (Joint Photographic Experts Group) JPEG is most commonly mentioned as a format for image files. JPEG format is preferred to the GIF format for photographic images as opposed to line art or simple logo art.

LAN - (Local Area Network) A computer network limited to the immediate area, usually the same building or floor of a building.

Local IP Address - the IP Address of a device on the LAN side of the Router.

Network - Any time you connect 2 or more computers together so that they can share resources, you have a computer network.

Node - Any single computer connected to a network.

Pan/Tilt - the ability for the camera to physically move left/right (pan) and up/down (tilt) by remote control.

Ping - To check if a server is running. From the sound that a sonar system makes in movies, for example, when they are searching for a submarine.

PLC - Power Line Communication

Port - On the Internet port often refers to a number that is part of a URL, appearing after a colon (:) right after the domain name. Every service on an Internet server listens on a particular port number on that server. Most services have standard port numbers, e.g. Web servers normally listen on port 80. Services can also listen on non-standard ports, in which case the port number must be specified in a URL when accessing the server, so you might see a URL of the form:

http://p.viewnetcam.com:60001 This shows a network camera running on a non-standard port (in this case, port 60001).

Port Forwarding - also known as Virtual Server. The router configuration which allows specific Internet requests to penetrate the firewall enabling access to a server running on the LAN.

Power Over Ethernet (PoE) - the 802.3af standard which allows power and data to be carried on the same Cat5 wire.

Router - A special-purpose computer (or software package) that handles the connection between 2 or more Packet-Switched networks. Routers spend all their time looking at the source and destination addresses of the packets passing through them and deciding which network to send them on.

Server - A computer, or a software package, that provides a specific kind of service to client software running on other computers. The term can refer to a particular piece of software, such as a WWW server, or to the machine on which the software is running, e.g. "Our mail server is down today, that's why e-mail isn't getting out." A single server machine can (and often does) have several different server software packages running on it, thus providing many different servers to clients on the network. Sometimes server software is designed so that additional capabilities can be added to the main program by adding small programs known as servlets.

Static IP Address - a permanent IP address assigned to a device on a Network. In order find a device on the Internet, it is usually necessary to know the IP address. A static address, since permanent, makes this easier.

TCP/IP - (Transmission Control Protocol/Internet Protocol) This is the suite of protocols that defines the Internet. Originally designed for the UNIX operating system, TCP/IP software is now included with every major kind of computer operating system. To be truly on the Internet, your computer must have TCP/IP software.

UDP - (User Datagram Protocol) One of the protocols for data transfer that is part of the TCP/IP suite of protocols. UDP is a "stateless" protocol in that UDP makes no provision for acknowledgement of packets received, and is typically used for audio and video streaming.

UPnP - a standard protocol for automatically configuring port forwarding

URL - (Uniform Resource Locator) The term URL is basically synonymous with URI. URI has replaced URL in technical specifications. A text "address" used to access a server on the network. Typically a Domain Name Server (DNS) will translate a URL to an IP address.

VPN - (Virtual Private Network) Usually refers to a network in which some of the parts are connected using the public Internet, but the data sent across the Internet is encrypted, so the entire network is "virtually" private.

WAN - (Wide Area Network)

A network that covers an area larger than a single building or campus.

Wi-Fi - (Wireless Fidelity) A popular term for a form of wireless data communication, basically Wi-Fi is "Wireless Ethernet".

1. An active broadband connection and a router are required at camera location. We cannot guarantee that your Internet connection will always be available.
2. The maximum frame rate and time delay of the video and/or audio will vary based on factors including the uplink speed of the connection (100kbps minimum uplink recommended).
3. A PC is required for initial configuration.
4. Internet Explorer 6.0 or later.
5. Compatible cell phones and PDAs must be able to display JPEG images and HTML or XHTML web pages. Additional fee-based cellular services may be required.
6. Requires optional BL-WV10A TV Adaptor.

Phone & Fax Glossary

12/14/18 PPM Laser Printing⁵

A number of Panasonic fax machines let you enjoy the professional look of laser printing. They can print documents in crisp 600 x 600 dpi.

14.4 or 33.6 Kbps Modem

For fast data transfer. 64-Level Halftone Resolution
This setting helps transmit photos and graphics with amazing quality and contrast.

2-Way Paging/Automatic Intercom

You can page and communicate between the handset and the base.

2-Way Radio Mode

Use the Expandable handsets away from the base unit to communicate from one handset to another.

2-Way Conversation Record

Use 2-way recording to save a telephone conversation for later playback.

3-Color Light-Up Indicator with Ringer/Voice Mail Alert (4 Available Options)

Select from blue, green, amber or multi-color options. The light-up indicator will flash quickly to show that you have an incoming call, and it will flash slowly to let you know that you have a new message in your voice mailbox.

5-Way Conferencing (MultiTalk™ Systems)

4 Handsets can be used simultaneously with the Multi-Talk™ Expandable System. One outside line and three handsets can conference, or two outside lines and two handsets can confer-ence together (on 2-line versions).

2.4 GHz Digital Cordless Operation

Provides clear sound, reduced interference and enhanced range while deterring eavesdropping.

2.4 GHz Frequency-Hopping Spread Spectrum (FHSS) Technology

This system randomly changes transmission frequency several times per second without causing cross-talk, enabling the use of multiple handsets. FHSS technology also makes eavesdrop-ping highly unlikely.

5.8 GHz Frequency-Hopping Spread Spectrum (FHSS) Technology

5.8 GHz technology operates on a different wavelength with much less traffic than the 2.4 GHz technology while maintaining the great security, incredible clarity and long range you'd get with 2.4 GHz technology.

All-Digital Answering System

Messages are recorded on an advanced microchip for quiet operation and easy retrieval. The total recording time is 15 minutes for most models, but they vary up to 60 minutes of total recording time.

All-Digital Voice Mail System

The digital voice mail system can contain up to 8 mail-boxes, with a total recording time of up to 100 minutes. It features individual mailbox greetings, mailbox access from any cordless station, auto attendant, voice prompts, time/day stamps and much more.

Answering Machine Interface

Certain Panasonic fax machines let you connect an optional, external answering device, allowing the reception of voice and fax messages on one phone line.

Auto Attendant

You can set the voice mail system to automatically answer incoming calls with a recorded greeting and route callers to a desired extension or mailbox. This feature is ideal for small offices because it eliminates the need for a receptionist. It's also a big help in busy homes, alleviating the problem of "lost" or illegible paper messages.

Auto Interrupt

The answering system automatically stops recording when you pick up the handset.

Automatic Fax/Phone Switching

Automatically distinguishes between fax and voice calls, eliminating the need for an extra phone line.

Auto Message Delete

You can program your mailbox to automatically delete all messages when they become one month old.

Auto Scanning

Before you even remove the handset from the base, the phone will automatically scan available channels for the next clear one.

Bilingual Display

The LCD language can be set to either English or Spanish.

Broadcasting

If you're sending the same fax to multiple locations, you can program the unit to do so automatically, eliminating the need to manually repeat the sending process for each location. Documents are stored in memory and faxed in succession to each of the locations you program.

Caller ID¹

The LCD readout can display the caller's name and number, so you can see at a glance who's calling. You can also enjoy the convenience of printing the list of Caller ID¹ activity to review.

Caller ID Call Waiting¹

Can display the name and number of incoming callers, even if you're on another call. Up to 50 names and numbers can be stored in memory for easy retrieval and direct callback.

Caller IQ Compatible²

Compatible with services which may be available from openLCR after registration with openLCR such as:
Auto Program – By accessing openLCR's web page, you can easily set the most frequently used features of your fax machine and then download them directly into the unit, if available.

Ringer Melody Download – Download a maximum of two ringer melodies per handset, if available.

Information Download - Provides local Lottery results, local Weather forecasts, and Stock market trading information on the 3-line LCD on the handset, if available.

Phone Directory Download - By accessing openLCR's web page, you can easily type in your most frequently called names and numbers using your computer keyboard, and then download them directly into your handset instead of awkwardly using the telephone keypad to program your phone directory, if available. (Hardware & software limitations apply.)

Low Cost Routing Service - Will automatically search for a low cost long distance carrier to help save you money on your long distance phone bill, if available.

Call Screening

A monitor speaker allows you to hear incoming messages as they're being recorded.

Call Transfer

You can transfer an outside call from the base unit to a cordless handset or from one cordless handset to another.

Chain Dial

Search your phone book and dial a number you previously programmed during a phone call. This feature can be useful for those who frequently use "calling cards".

Clarity Booster

Combines two voice paths helping the handset to improve clarity in an area where there may otherwise be interference.

Customized Ringer

Use this feature for unlimited free recording of your favorite songs or sounds that you can set as your telephone ringer. All you need is the included audio cable and the music or sound. (Maximum recording time is 2 minutes, depending on the model).

Data Port

A phone jack built into the base lets you easily hook up a computer, modem, fax or answering machine.

Digital Answering System

Messages are recorded on a microchip. With no cassette tapes to rewind or reset, operation is quiet and messages can be easily accessed.

Digital Duplex Speakerphone

Delivers crisp, natural sound without dropouts or clipping. Use the speakerphone for hands-free operation or to allow others in the room to join in your conversation.

Diversity Antenna System

Greatly improves signal sensitivity and overall performance through the use of two antennas.

Document Memory⁵

Panasonic fax machines have built-in memory that can conveniently store incoming or outgoing documents, depending on their length (memory capacity differs from model to model). Ideal for broadcasting documents to multiple locations, the document memory also enables out-of-paper reception and QuickScan.

Dual Keypads

Lets you dial from the base so you can make calls without using the handset.

ENERGY STAR[®] Compliance*

The ENERGY STAR[®] label, a symbol for energy efficiency, was created by the U.S. Environmental Protection Agency

(EPA) and the U.S. Department of Energy (DOE) to help consumers identify products that can save them money and protect the environment by saving energy. Panasonic fax systems with the ENERGY STAR[®] label generally consume less energy than similar standard products.

Enhanced Copier

Panasonic fax machines perform a range of advanced copier functions, including Enlarge, Reduce, Collate and Multiple Copy.

Expandable

Up to seven additional handsets can be added to the phone system for a total of 8 handsets (depending on model) while using only one base unit and one phone jack.

Extension Line Transfer

If you answer an incoming fax call on a phone that operates on the same line as your fax unit, you can press *9 to transfer the call to your fax unit.

Fax Advantage Program⁶

Every Panasonic fax system is backed by the Panasonic Fax Advantage Program at no extra cost. The Fax Advantage Program consists of three parts: 1) A 1 year or 6 month limited warranty (depending on model), 2) A toll-free help line for 1 year or 6 months (depending on model) and 3) A product exchange program⁶. Limits and exclusions apply. See dealer for details.

Fax/Voice Pager Call

The unit can be programmed to send a numeric message to your pager when you receive a fax or voice message. Caller ID¹ data, where available, will also be sent to your pager.

Flash Memory

Panasonic answering systems store recorded messages in flash memory, so that they are unaffected by power failure or interruptions.

Handset Locator

To locate a misplaced handset, simply touch a button on the base and the handset will ring.

Handset Speakerphone

A digital duplex speakerphone on the back of the handset enables convenient, high-quality hands-free conversations.

Handset Volume Control

Lets you adjust the handset volume to your preference.

Headset Jack (and Belt Clip)

A standard 2.5mm jack enables you to connect an optional headset to the unit for hands-free conversations (on the go).

High Resolution Amber-Glow Backlit LCD (1.4")

Easy operation amber glow backlit LCD with icon menu.

High Resolution Full-Color Backlit LCD (1.5")

Easy operation, full-color, backlit LCD that uses an icon menu to let you download picture wallpaper using the included USB cable.

Icon Operation

Phone operation is made easy by choosing from clearly defined icons in the menu to select and set your phone feature options.

Join In

This feature allows one or more handset users to join in a conversation already in progress with another handset and an outside line.

Lighted Handset Keypad

The keypad is illuminated for easy dialing in darkened rooms.

Light-Up Indicator with Ringer/Message(or Voice Mail) Alert

The indicator will flash quickly to show that you have an incoming call, and it will flash slowly to let you know that you have a new message.

Light-Up ID¹

Choose a light-up indicator color to link to your preprogrammed phone book data. The preprogrammed indicator light will occur when the corresponding Caller ID¹ information is received from an incoming call.

Line Status LED Indicators

Lets you know in a glance which line is in use.

Memo Recording

Instead of leaving a note you can record memos for family or friends.

Memory Redial

Use the memory redial button to recall, and dial, any one of the last five dialed phone numbers.

Message Delivery

Users can send a message to another user's mailbox or to several users' mailboxes in a single operation.

Multi-Function LCD

The backlit display can show multiple lines of Caller ID information at once, so there's no need for scrolling. Several models feature dual LCD readouts: one on the base and one on the handset.

Multi-Line Operation with 3-Way Conferencing

Several users can make separate calls simultaneously where multiple lines are installed. It also allows you to conference two outside calls together with one system handset, or to conference two system handsets together with one outside call.

Name/Number Caller ID¹

Displays the name and phone number of incoming callers on the LCD readout. Also, when you listen to your messages, it will show the Caller ID data for each person who left a message as their message plays.

Navigator Key

Lets you easily control the handset volume and ringer level, as well as the phone directory & dialer, Caller ID¹ memory and other advanced functions, where applicable.

New Message Playback

Touch a button and the unit will play only the messages you haven't heard before.

NiMH Battery Included

NiMH batteries have an advantage over NiCD batteries in that they do not have memory effect, and the absence of cadmium in the NiMH battery makes it more environmentally friendly than the NiCD battery.

One-Touch Direct Dial Button

Lets you store an important phone number in memory for dialing at the touch of a button.

One-Touch Intercom Buttons

You can page and communicate between the base and each extension at the touch of a button.

Personalized Caller ID¹

The phone will automatically compare the incoming Caller ID data with your stored phone data. If you stored a personalized name or "Nickname" for a particular phone number, the personalized name will appear in the display when the corresponding phone number is received through Caller ID¹.

Phone Company Voice Mail Compatible (FSK & Stutter Dial Tone Compatible)¹

An indicator on the phone lets you know if there are new messages in your phone company mailbox.

Phone Directory and Dialer

Up to 50 names and telephone numbers (30 on certain models) can be stored and quickly accessed for dialing using the phone's navigator key or jog dial.

Phone Book Sharing

Once you have programmed all your names and phone numbers into one of your handsets you can then share that phone book with any other handset in the system.

Picture ID¹

Choose from a downloaded or selectable picture to link to your preprogrammed phonebook data. The preprogrammed picture will occur when the corresponding Caller ID¹ information is received from an incoming call.

Privacy Mode

Each handset in the system has the capability to manually block all other handsets from joining in on the conversation. When this feature is in use the handset and base will either display the word "PRIVACY" or an indicator button will light up, depending on the model. The privacy mode automatically shuts off when the call is ended.

Quick Scan

Spend less time waiting for your documents to scan! Models with this feature rapidly scan documents into the built-in memory, so you can quickly retrieve the pages and get back to work. Then, the document is transmitted from memory.

Remote Operation with Tone Remote Control

When checking your messages on a touch tone keypad while away from home, you can control the Greeting Message, All Message Playback and Individual Message Erase.

Reversible Handset Charging

Lets you place the handset in the base, for charging, with the keypad and LCD (select models only) facing up or down.

Ringer ID¹

Choose from a downloaded or selectable ringer to link to your preprogrammed phone book data. The preprogrammed ringer will occur when the corresponding Caller ID¹ information is received from an incoming call.

Room Monitor

By using the room monitor feature the user is able to listen in on any handset or base unit in the system from any other handset or base unit in the system using the intercom function.

Selectable Ringtones

Choose from up to 7 different options when selecting what you would like to hear when your phone rings.

Shock-Resistant Design¹⁰

Features special construction and a rubberized trim that helps the handset stand up to everyday wear and tear and occasional dropping.

Simultaneous Base/Handset Calling

The base and handset can be used on separate phone lines for two different calls.

Skip and Repeat Function

Lets you selectively review your messages.

SlowTalk® Message Playback

For easier listening of recorded messages, you can slow down the playback speed by 30% at the touch of a button.

Splash-Resistant Design¹⁰

Models with this feature are protected against accidental splashes, although they are not designed to be fully immersed or held under running water.

Station Speed Dialer

Lets you store and quickly dial as many as 10 frequently called phone numbers, depending on the model. Each station can hold up to 32 digits, giving you enough room to include your favorite long-distance access code (i.e., 10-10-XXX).

Talking Caller ID^{1,7}

When a call comes in, the phone doesn't just let you see who is calling, it actually tells you who is calling. Using text-to-speech technology the caller's name is announced in between rings if name-and-number Caller ID¹ information is available.

Telephone Directory Navigator

Lets you save and quickly recall your most important phone numbers. Up to 122 numbers can be stored, depending on the model.

Toll saver

When checking your messages from a remote location, the system will answer on the first ring if you have any new messages. If it doesn't, you can then hang up to avoid toll charges.

Transfer Message

A message in your mailbox can be easily transferred to another mailbox.

True Voice Paging

From the base unit or a handset, you can call any other extension in the system or simultaneously page all handsets in the system by speaking through the base unit. This feature comes in handy, whether you're announcing an impromptu meeting or calling everyone at home to the dinner table.

USB Features

Download music, pictures, wallpapers and phone book data using the included USB cable.

Voice Changer

Liven up your conversations by changing your voice as you talk. Change your voice 3 different ways: HIGH/DEEP/FUN.

Voice Enhancer Technology

Helps clarify and improve sound reception creating a natural-sounding voice that is easy to hear and understand. It is able to simulate a band signal above and below the normal bandwidth limitations, achieving a sound that is close to the actual voice.

Voice Menu & Time/Day Stamp

Digital voice prompts clearly inform you of the time and day that each message was recorded.

Voice Prompts & Time/Day Stamp

A voice synthesizer will prompt callers through the messaging system, and will stamp each incoming message with the time and day it was received.

Wireless Network Friendly

5.8 GHz Technology will not interfere with wireless computer networks such as 802.11b or 802.11g Wi-Fi Technology.

- 1- Requires subscription to name-and-number Caller ID, call waiting and/or voice mail services offered by certain local telephone companies for a fee.
- 2- Requires registration to Caller IQ™ services from openLCR. Certain services require a fee. See dealer for details. Applicable fees apply when using the Ringer Melody Download. Neither Panasonic Communications Co., Ltd. (PCC) nor Panasonic Corporation of North America is in any way affiliated with, or responsible for the acts or omissions of, openLCR.com, Inc. (openLCR). Neither PCC nor Panasonic Corporation of North America nor any of their employees or affiliates or customers make any warranties or representations, either expressed or implied, to any customer or an other third party with respect to any of the services provided by openLCR.com, Inc., nor assume nor create any other obligation of any kind on behalf of openLCR.
- 3- Requires optional handset, sold separately.
- 4- Name pronunciation may vary. Name pronunciation quality is based on names most commonly used in the United States.
- 5- Actual number of pages depends upon the contents of the pages and the resolution. Page count based upon ITU-T No. 1 test chart at standard resolution.
- 6- The product exchange program is valid for the duration of the limited warranty and if the unit would otherwise qualify for in warranty service. Replacement unit may be refurbished. Replacement program excludes Puerto Rico and is subject to termination at any time without notice. Significant restrictions and exclusions apply – see dealer for details.
- 7- USB and/or Parallel (IEEE1284) cable not included.
- 8- Requires subscription to Distinctive Ring Service
- 9- Special construction and a rubberized trim help the unit stand up to everyday wear and tear and occasional dropping. The unit is protected against accidental splashes, although it is not intended to be fully immersed or held under running water.

* ENERGYSTAR® is a U.S. registered mark.

IP Camera Features Chart

Product Type	Business Use								Home Use			
	Outdoor/Indoor type			Indoor type					Indoor type			
	Wireless Type and voice function	Voice Function		Zoom function		Zoom, voice function		Wireless type	Wireless type		Wireless type	
Main Features	BB-HCM371A	BB-HCM331A	BB-HCM311A	KX-HCM110A	KX-HCM280A	KX-HCM361A	BB-HCE481A	BL-C30A	BL-C10A	BL-C20A	BL-C1A	
Server	Image Data Compression System	JPEG (Motion JPEG for moving image display)										
	Video Resolution	640x480, 320x240, 160x120										
	Image Quality	3 modes (Favor clarity, standard, favor motion)										
	Frame rate *1	Max. 12 frames/sec. (640x480) ** Max. 30 frames/sec (320x240) Max. 30 frames/sec. (160x120)							Max 7.5 frames/sec. (640x480) Max. 15 frames/sec. (320x240) Max. 15 frames/sec. (160x120)			
	Security	User ID/Password/IPsec							User ID/Password			
	Encryption Algorithm	DES-CBC, 3DES-CBC, AES-CBC										
	IPsec Function*3	ESP encryption, EPS authentication, transport mode (main mode only)/tunnel mode IKE (Internet Key Exchange)										
	Supported Protocol	IPv4/IPv6 dual stack IPv4: TCP, UDP, IP, HTTP, FTP, SMTP, DHCP, DNS, ARP, ICMP, POP3, NTP, Ipsec, UPnP IPv6: TCP, EDTP, IP, HTTP, FTP, SMTP, DNS, ICMv6, POP3, NDP, NTP, IPsec							TCP, UDP, IP, HTTP, FTP, SMTP, DHCP, DNS, ARP, ICMP, POP3, NTP, DDNS		TCP, UDP, IP, HTTP, FTP, SMTP, DHCP, DNS, ARP, ICMP, POP3, NTP, UPnP	
	User access limit	Max. 30 simultaneous accesses (max. 10 accesses with voice reception) (KX-HCM280A has no voice function)							Max. 20 simultaneous accesses			
Buffered images*4	Approx. 125 images; (320x240) • Approx. 16 KB per image • Without using SD memory card							Approx. 250 images; (320x240), standard image quality				
Network Camera	Zoom	10 x digital zoom			Maximum 42x (21x optical, 2x digital)			10 x digital zoom				
	Viewing Angle	53° horizontal (total 173°) 40° vertical (total 105°)			Tele: 2.6°, Wide: 51° (horizontal) Tele: 1.9°, Wide 38° (Vertical)			43° Horizontal (total 143°) 32° Vertical (total 82°)		53° horizontal 41° vertical		
	Pan (Horizontal Direction)	-60° up to +60°			-175° up to +175°			-50° up to +50°				
	Tilt (Vertical Direction)	-45° up to +20°			-120° up to +0° (On a table) 0° up to +90° (On the ceiling)			-40° up to +10°				
	Revolving Speed	Pan: Max. 80°/sec Tilt: Max. 80°/sec			Pan: Max. 300°/sec Tilt: Max. 200°/sec			Pan: Max. 50°/sec. Tilt: Max. 50°/sec.				
	Number of Pixels	1/4 inch, approx. 320,000 pixels, CCD sensor		CMOS	1/4 inch, approx. 320,000 pixels, CCD sensor			1/4 inch, approx. 320,000 pixels, CMOS sensor				
	Lens Focal Point	Fixed (focal range: 0.5 m to infinity)			Auto/Manual (40 steps)			Fixed (focal range: 0.5 m to infinity)		Fixed (focal range: 0.3 m to infinity)		
	Lens Brightness	F3.5			F1.6 (Wide) - 3.6 (Tele)			F2.8				
	Required Light Intensity	3 to 100,000 lux (in color night view mode: 0.2 to 100,000 lux)		5 to 100,000 lux (1 to 100,000 lux)	3 to 100,000 lux (in color night view mode: 0.9 to 100,000 lux)			1 to 10,000 lux		10 to 10,000 lux (in color night view mode: 4 to 10,000 lux)		
Audio	Voice Direction	Half-duplex two-way communication (transceiver system)										
	Voice Data Compression System	ADPCM 32 kbps										
	Voice Band	300 Hz- 3.4 kHz										
	Audio Input	Built-in microphone or external microphone (sold separately), external microphone input terminal (3.5 mm dia. mini-jack)										
	Audio Output*5	Audio line output terminal for external speaker (3.5 mm dia. Stereo mini-jack, monaural output)										
Wireless	Standards	802.11 b/g							802.11 b/g		802.11 b/g	
	Antenna	Diversity							Diversity		Diversity	
	Number of Channels	11 ch.							11 ch.		11 ch.	
	Transmission Speed	up to 54 Mbps.							up to 54 Mbps.		up to 54 Mbps.	
	Security	WEP 64/128/152 bit							WEP 64/128/152 bit		WEP 64/128/152 bit	
Terminal	Network Interface	Ethernet (10Base-T/100Base-TX)										
	I/O Connector for Sensor	G GND 1 External sensor input G GND 2 External sensor input 3 External device control output 4 DC power output terminal (10.5-13.5 VDC)			G GND 2 PC power output terminal 3 External sensor input 4 External device control output		G GND 1 External sensor input 2 GND 2 External sensor input 3 External device control output 4 DC power output terminal (10.5-13.5 VDC)					
	Analog Video Output	Composite NTSC										
	SD Memory Card Slot	Full size (operation guaranteed for 2GB, 1GB, 512 MB, 256MB, 128MB and 64MB SD Memory Cards)				Full size (operation guaranteed for 2GB, 1GB, 512 MB, 256MB, 128MB and 64MB SD Memory Cards)						
General	Operating Temperature	-4° F up to 122° F (-20° C to +50° C)			32° F to 104° F (-0° C to +40° C)			41° F to 104° F (+5° C to +40° C)				
	Operating Humidity	20% to 90% (No condensation)			20% to 80% (No condensation)							
	Dimensions (H x W x D)	3 15/16 x 3 15/16 x 3 1/8" (100 x 100x80mm)		3 15/16 x 3 15/16 x 2 7/8" (100 x 100x 73.5mm)		5 1/2 x 4 13/16 x 4 13/16" (140 x 123 x 123mm)		3 7/8 x 2 15/16 x 2 7/8" (98 x 74 x 73mm)	3 7/8 x 2 7/8 x 2 3/8" (98 x 74 x 61mm)	3 3/8 x 3 3/8 x 1 3/8" (85 x 85 x 35.5mm)	3 3/8 x 3 3/8 x 1" (85 x 85 x 25mm)	
	Weight	0.78 lb (350 g)	0.68 lb (310 g)	0.66 lb (300 g)	0.61 lb (275 g)	1.41 lb (640 g)	1.43 (650 g)	1.41 lb (640 g)	0.44 lb (200 g)	0.37 lb (170 g)	0.36 lb (165 g)	0.22 lb (100 g)
	Power Supply	AC adaptor: Input 120 V AC, Output 12 V DC					PoE		AC adaptor: Input 120 V AC, Output 12 V DC		AC adaptor: Input 120 V AC, Output 9 V DC	
	Consumption	10W	6W	5.5W	12W	11W	12W	6.4W	3.5W	4.6W	1.7W	

*1 This varies depending on the subject, image quality, network environment, PC performance, ect.

*2 The image update speed may decrease when favor motion is set, when images are recorded onto an SD Memory Card, and when IPsec is used, as well as due to the network environment and PC performance.

*3 Transport mode (mode for IPsec communication between terminals, for IPv4 only) operating environment: Microsoft® Windows® XP Service Pack 1 only, tunnel mode (mode for IPsec between VPN routers, IPv4/IPv6)

*4 The number of images that can be stored varies depending on the subject. *5 Install an amp or use a speaker with built-in amp.

5.8GHz FHSS (Expandable) Features Chart

Main Features		TG5761	TG5771	TG5776
General Information	Frequency/Technology	5.8GHz/FHSS Digital	5.8GHz/FHSS Digital	5.8GHz/FHSS Digital
	Channels	89	89	89
	Multi Handset Capability	up to 8	up to 8	up to 8
	Number of phone lines	1	1	1
	LCD Language	English/Spanish	English/Spanish	English/Spanish
Advanced Features	Customized Ringer	•	•	•
	USB port (Customized Ringer/Picture/Phone Book Download)			•
	Caller IQ			
	Ringer Download (Base/each Handsets)			
	Accessibility(Big Button/Slow Talk/HAC)			
	Wireless Camera Monitoring			•
	Skype compatible	•	•	•
	Voice Enhancer Technology	•	•	•
	Easy Operation (Menu Driven)	•	•	•
	Icon Operation	•	•	•
	Voice Mail Mess.-Waiting Indicator (LCD)	•	•	•
Caller ID/Phone Book	Voice Scramble (Digital Security)	•	•	•
	Call waiting Caller ID	•	•	•
	Talking Caller ID	•	•	•
	Ringer ID	•	•	•
	Picture ID			•
	Light-up ID	•	•	•
	Caller ID Memory	50	50	50
	Phone Book	50	50	50
	Chain Dial	•	•	•
	Dialer Storage Capacity (# of digits per station)	32	32	32
	Speed Dial	•(10)	•(10)	•(10)
Answering System	Phone Book Sharing	•	•	•
	All-Digital Answering System/(max min)		•/21	•/21
	Voice Prompts/Time day Stamp		•	•
	Pre-Recorded OGM		•	•
	Remote Control from Handset		•	•
	Remote Control from outside line (DTMF)		•	•
	Toll saver		•	•
Basic Features	Memo Record		•	•
	Base Unit Dial Keypad	•	•	•
	Speakerphone (Base/Handset)	•/•	•/•	•/•
	Hold (Base/Handset)	•/•	•/•	•/•
	Mute (Base/Handset)	•/•	•/•	•/•
	Flash (Base/Handset)	•/•	•/•	•/•
	Redial (Base/Handset)	1/5	1/5	1/5
	Ringer Patterns (Base/Handset)	3/3	3/3	3/3
	Melody Ringer (Base/Handset)	3/3	3/3	3/3
	Ringer Volume Control (Base/Handset)	Off, Low, Mid, Hi/Off, 6Step	Off, Low, Mid, Hi/Off, 6Step	Off, Low, Mid, Hi/Off, 6Step
	Talk Volume Control (Base/Handset)	8-step/4Step	8-step/4Step	8-step/4Step
	Any Key Answer	•	•	•
	LCD (Base Unit)		2-Digit	2-Digit
	Line status indicator	•	•	•
	Handset Locator	•	•	•
	Intercom (Handset - Handset) *2	•	•	•
	Intercom (Handset - Base Unit)	•	•	•
Voice Paging (Base Unit to all Handsets)	•	•	•	
Handset	Multi-way Conferencing	Up to 4-way	Up to 4-way	Up to 4-way
	Programmable Tone/Pulse	•	•	•
	Wall Mountable	• *1	• *1	• *1
	Backlit Handset Keypad	•	•	•
	Lighted indicator with Ringer/Message alert	•	•	•
	Backlit LCD on Handset	5-Line	5-Line	1.5 inch (65k Color LCD)
	Out of Range Indicator	•	•	•
	Battery Type	NiMH	NiMH	NiMH
	Standby Battery Life(Days)	7	7	7
	Talk Time(Maximum Hours)	5	5	5
	Low Battery Indicator	•	•	•
Reversible Handset Charging(Base Unit)				
Recharge Time (Hours)	6	6	6	
Headset Jack	•	•	•	
Beltclip	sold separately	sold separately	sold separately	

5.8GHz FHSS (Bundle HS) Features Chart

Main Features		TG5622	TG5632	TG5652	TG5623	TG5633	TG5634	TG5672
General Information	Frequency/Technology	5.8GHz /FHSS Digital	5.8GHz /FHSS Digital	5.8GHz /FHSS Digital	5.8GHz /FHSS Digital	5.8GHz /FHSS Digital	5.8GHz /FHSS Digital	5.8GHz /FHSS Digital
	Channels	89	89	89	89	89	89	89
	Multi Handset Capability	2	2	2	3	3	4	2
	Number of phone lines	1	1	1	1	1	1	1
	LCD Language	English/Spanish	English/Spanish	English/Spanish	English/Spanish	English/Spanish	English/Spanish	English/Spanish
Advanced Features	Customized Ringer							
	USB port (Customized Ringer/Picture/Phone Book Download)							
	Caller IQ		Y			Y	Y	
	Ringer Download (Base/each Handsets)		-/2			-/2	-/2	
	Accessibility(Big Button/Slow Talk/HAC)							
	Wireless Camera Monitoring							
	Skype compatible							
	Voice Enhancer Technology	Y	Y	Y	Y	Y	Y	Y
	Easy Operation (Menu Driven)	Y	Y	Y	Y	Y	Y	Y
	Icon Operation							
	Voice Mail Mess.-Waiting Indicator (LCD)	Y			Y			
	Voice Scramble (Digital Security)	Y	Y	Y	Y	Y	Y	Y
Caller ID/Phone Book	Call waiting Caller ID	Y	Y	Y	Y	Y	Y	Y
	Talking Caller ID			Y				Y
	Ringer ID	Y	Y	Y	Y	Y	Y	Y
	Picture ID							
	Light-up ID	Y	Y	Y	Y	Y	Y	Y
	Caller ID Memory	50	50	50	50	50	50	50
	Phone Book	50	50	50	50	50	50	50
	Chain Dial	Y	Y	Y	Y	Y	Y	Y
	Dialer Storage Capacity (# of digits per station)	32	32	32	32	32	32	32
	Speed Dial							Y
Answering System	Phone Book Sharing	Y	Y	Y	Y	Y	Y	Y
	All-Digital Answering System/(max min)		Y/15	Y/21		Y/15	Y/15	Y/21
	Voice Prompts/Time day Stamp		Y	Y		Y	Y	Y
	Pre-Recorded OGM		Y	Y		Y	Y	Y
	Remote Control from Handset		Y	Y		Y	Y	Y
	Remote Control from outside line (DTMF)		Y	Y		Y	Y	Y
	Toll saver		Y	Y		Y	Y	Y
	Memo Record							Y
Basic Features	Base Unit Dial Keypad							Y
	Speakerphone (Base/Handset)	-/Y	-/Y	-/Y	-/Y	-/Y	-/Y	Y/Y
	Hold (Base/Handset)	-/Y	-/Y	-/Y	-/Y	-/Y	-/Y	Y/Y
	Mute (Base/Handset)	-/Y	-/Y	-/Y	-/Y	-/Y	-/Y	Y/Y
	Flash (Base/Handset)	-/Y	-/Y	-/Y	-/Y	-/Y	-/Y	Y/Y
	Redial (Base/Handset)	-/5	-/5	-/5	-/5	-/5	-/5	1/5
	Ringer Patterns (Base/Handset)	-/3	3/3	3/3	-/3	3/3	3/3	3/3
	Melody Ringer (Base/Handset)	-/4	-/4	-/4	-/4	-/4	-/4	-/4
	Ringer Volume Control (Base/Handset)	- /Off, Low, Mid, Hi	Off, Low, Mid, Hi /Off, Low, Mid, Hi	Off, Low, Mid, Hi /Off, Low, Mid, Hi	- /Off, Low, Mid, Hi	Off, Low, Mid, Hi /Off, Low, Mid, Hi	Off, Low, Mid, Hi /Off, Low, Mid, Hi	Off, Low, Mid, Hi /Off, Low, Mid, Hi
	Talk Volume Control (Base/Handset)	-/ Low, Mid, Hi	-/ Low, Mid, Hi	-/ Low, Mid, Hi	-/ Low, Mid, Hi	-/ Low, Mid, Hi	-/ Low, Mid, Hi	8-step/ Low, Mid, Hi
	Any Key Answer	Y	Y	Y	Y	Y	Y	Y
	LCD (Base Unit)		2-Digit	2-Digit		2-Digit	2-Digit	2-Digit
	Line status indicator	Y	Y	Y	Y	Y	Y	Y
	Handset Locator	Y	Y	Y	Y	Y	Y	Y
	Intercom (Handset - Handset)	Y	Y	Y	Y	Y	Y	Y
Intercom (Handset - Base Unit)		Y	Y		Y	Y	Y	
Handset	Voice Paging (Base Unit to all Handsets)							
	Multi-way Conferencing	3-way	3-way	3-way	3-way	Up to 4-way	Up to 4-way	Up to 4-way
	Programmable Tone/Pulse	Y	Y	Y	Y	Y	Y	Y
	Wall Mountable	Y	Y	Y	Y	Y	Y	Y
	Backlit Handset Keypad	Y	Y	Y	Y	Y	Y	Y
	Lighted indicator with Ringer/Message alert	Y	Y	Y	Y	Y	Y	Y
	Backlit LCD on Handset	3-Line	3-Line	3-Line	3-Line	3-Line	3-Line	3-Line
	Out of Range Indicator	Y	Y	Y	Y	Y	Y	Y
	Battery Type	NiMH	NiMH	NiMH	NiMH	NiMH	NiMH	NiMH
	Standby Battery Life(Days)	11	11	11	11	11	11	11
	Talk Time(Maximum Hours)	5	5	5	5	5	5	5
	Low Battery Indicator	Y	Y	Y	Y	Y	Y	Y
Reversible Handset Charging(Base Unit)	Y	Y	Y	Y	Y	Y	Y	
Recharge Time (Hours)	6	6	6	6	6	6	6	
Headset Jack	Y	Y	Y	Y	Y	Y	Y	
Beltclip	Y							

5.8GHz FHSS (Single HS) Features Chart

Main Features		TG5621	TG5631	TG5651	TG5661	TG5671
General Information	Frequency/Technology	5.8GHz /FHSS Digital	5.8GHz /FHSS Digital	5.8GHz /FHSS Digital	5.8GHz /FHSS Digital	5.8GHz /FHSS Digital
	Channels	89	89	89	89	89
	Multi Handset Capability					
	Number of phone lines	1	1	1	1	1
	LCD Language	English/Spanish	English/Spanish	English/Spanish	English/Spanish	English/Spanish
Advanced Features	Customized Ringer					
	USB port (Customized Ringer/Picture/Phone Book Download)					
	Caller IQ		•			
	Ringer Download (Base/each Handsets)		•/2			
	Accessibility(Big Button/Slow Talk/HAC)					
	Wireless Camera Monitoring					
	Skype compatible					
	Voice Enhancer Technology	•	•	•	•	•
	Easy Operation (Menu Driven)	•	•	•	•	•
	Icon Operation					
	Voice Mail Mess.-Waiting Indicator (LCD)	•			•	
	Voice Scramble (Digital Security)	•	•	•	•	•
Caller ID/Phone Book	Call waiting Caller ID	•	•	•	•	•
	Talking Caller ID			•		•
	Ringer ID	•	•	•	•	•
	Picture ID					
	Light-up ID	•	•	•	•	•
	Caller ID Memory	50	50	50	50	50
	Phone Book	50	50	50	50	50
	Chain Dial	•	•	•	•	•
	Dialer Storage Capacity (# of digits per station)	32	32	32	32	32
	Speed Dial				•	•
Answering System	Phone Book Sharing					
	All-Digital Answering System/(max min)		•/15	•/21		•/21
	Voice Prompts/Time day Stamp		•	•		•
	Pre-Recorded OGM		•	•		•
	Remote Control from Handset		•	•		•
	Remote Control from outside line (DTMF)		•	•		•
	TollSaver		•	•		•
Memo Record					•	
Basic Features	Base Unit Dial Keypad				•	•
	Speakerphone (Base/Handset)	•/•	•/•	•/•	•/•	•/•
	Hold (Base/Handset)	•/•	•/•	•/•	•/•	•/•
	Mute (Base/Handset)	•/•	•/•	•/•	•/•	•/•
	Flash (Base/Handset)	•/•	•/•	•/•	•/•	•/•
	Redial (Base/Handset)	•/5	•/5	•/5	1/5	1/5
	Ringer Patterns (Base/Handset)	•/3	3/3	3/3	3/3	3/3
	Melody Ringer (Base/Handset)	•/4	•/4	•/4	•/4	•/4
	Ringer Volume Control (Base/Handset)	•/Off, Low, Mid, Hi	Off, Low, Mid, Hi /Off, Low, Mid, Hi	Off, Low, Mid, Hi /Off, Low, Mid, Hi	Off, Low, Mid, Hi /Off, Low, Mid, Hi	Off, Low, Mid, Hi /Off, Low, Mid, Hi
	Talk Volume Control (Base/Handset)	•/Low, Mid, Hi	•/Low, Mid, Hi	•/Low, Mid, Hi	8-step/ Low, Mid, Hi	8-step/ Low, Mid, Hi
	Any Key Answer	•	•	•	•	•
	LCD (Base Unit)		2-Digit	2-Digit		2-Digit
	Line status indicator	•	•	•	•	•
	Handset Locator	•	•	•	•	•
	Intercom (Handset - Handset)					
	Intercom (Handset - Base Unit)		•	•	•	•
Voice Paging (Base Unit to all Handsets)						
Multi-way Conferencing				3-way	3-way	
Programmable Tone/Pulse	•	•	•	•	•	
Wall Mountable	•	•	•	•	•	
Handset	Backlit Handset Keypad	•	•	•	•	•
	Lighted indicator with Ringer/Message alert	•	•	•	•	•
	Backlit LCD on Handset	3-Line	3-Line	3-Line	3-Line	3-Line
	Out of Range Indicator	•	•	•	•	•
	Battery Type	NiMH	NiMH	NiMH	NiMH	NiMH
	Standby Battery Life(Days)	11	11	11	11	11
	Talk Time(Maximum Hours)	5	5	5	5	5
	Low Battery Indicator	•	•	•	•	•
	Reversible Handset Charging(Base Unit)	•	•	•	•	•
	Recharge Time (Hours)	6	6	6	6	6
Headset Jack	•	•	•	•	•	
Beltclip	•	•	•	•	•	

5.8GHz FHSS (Optional Handset) Features Chart

Main Features		TGA570	TGA571	TGA572	TGA573	TGA575
General Information	Frequency/Technology	5.8GHz /FHSS Digital	5.8GHz /FHSS Digital	5.8GHz /FHSS Digital	5.8GHz /FHSS Digital	5.8GHz /FHSS Digital
	Channels	89	89	89	89	89
	Multi Handset Capability	-	-	-	-	-
	Number of phone lines	-	-	-	-	-
Advanced Features	LCD Language	English/Spanish	English/Spanish	English/Spanish	-	-
	Customized Ringer	•	•	-		
	USB port (Customized Ringer/Picture/Phone Book Download)		•	-	-	• (PC Interface)
	Caller IQ					
	Ringer Download (Base/each Handsets) *1					
	Accessibility(Big Button/Slow Talk/HAC)			•		
	Wireless Camera Monitoring		•		•(Camera)	
	Skype compatible	•	•	•		•(Adaptor)
	Voice Enhancer Technology	•	•	•		
	Easy Operation (Menu Driven)	•	•	•		
	Icon Operation	•	•	•		
	Voice Mail Mess.-Waiting Indicator (LCD)					
Caller ID/Phone Book	Voice Scramble (Digital Security)	•	•	•	•	•
	Call waiting Caller ID	•	•	•		
	Talking Caller ID	•	•	•		
	Ringer ID	•	•	•		
	Picture ID		•			
	Light-up ID	•	•	•		
	Caller ID Memory	50	50	50		
	Phone Book	50	50	50		
	Chain Dial	•	•	•		
	Dialer Storage Capacity (# of digits per station)	32	32	32		
Answering System	Speed Dial			•(One Touch)		
	Phone Book Sharing	•	•	•		
	All-Digital Answering System(/max min)					
	Voice Prompts/Time day Stamp					
	Pre-Recorded OGM					
	Remote Control from Handset					
	Remote Control from outside line (DTMF)					
Basic Features	TollSaver					
	Memo Record					
	Base Unit Dial Keypad	•	•	•		
	Speakerphone (Base/Handset)	/•	/•	/•		
	Hold (Base/Handset)	/•	/•	/•		
	Mute (Base/Handset)	/•	/•	/•		
	Flash (Base/Handset)	/•	/•	/•		
	Redial (Base/Handset)	/5	/5	/5		
	Ringer Patterns (Base/Handset)	/3	/3	/3		
	Melody Ringer (Base/Handset)	/3	/3	/3		
	Ringer Volume Control (Base/Handset)	/Off, 6Step	/Off, 6Step	/Off, 6Step		
	Talk Volume Control (Base/Handset)	/4Step	/4Step	/4+		
	Any Key Answer	•	•	•		
	LCD (Base Unit)					
	Line status indicator	•	•	•		
	Handset Locator	•	•	•		
	Intercom (Handset - Handset)	•	•	•	•	-
Intercom (Handset - Base Unit)	•	•	•	•	-	
Voice Paging (Base Unit to all Handsets)	•	•	•			
Multi-way Conferencing	Up to 4 way	Up to 4 way	Up to 4 way			
Programmable Tone/Pulse	•	•	•			
Wall Mountable	•(Charger)	•(Charger)	•(Charger)	•		
Handset	Backlit Handset Keypad	•	•	•		
	Lighted indicator with Ringer/Message alert	•	•	•		
	Backlit LCD on Handset	5-Line	1.5 inch (65k Color LCD)	5-Line		
	Out of Range Indicator	•	•	•	•	•
	Battery Type	NiMH	NiMH	NiMH		
	Standby Battery Life(Days)	7	7	7		
	Talk Time(Maximum Hours)	5	5	5		
	Low Battery Indicator	•	•	•		
	Reversible Handset Charging(Base Unit)	-	-	-		
	Recharge Time (Hours)	6	6	6		
Headset Jack	•	•	•			
Beltclip	sold separately	sold separately	sold separately			

2.4GHz FHSS (Single HS) Features Chart

Main Features		TG2620	TG2621	TG2631	TG2622	TG2632
General information	Frequency/Technology	2.4GHz /FHSS Digital	2.4GHz /FHSS Digital	2.4GHz /FHSS Digital	2.4GHz /FHSS Digital	2.4GHz /FHSS Digital
	Channels	90	90	90	90	90
	Multi Handset Capability				2	2
	Number of phone lines	1	1	1	1	1
	LCD Language	English/Spanish	English/Spanish	English/Spanish	English/Spanish	English/Spanish
Advanced Features	Customized Ringer					
	USB port (Customized Ringer/Picture/Phone Book Download)					
	Caller IQ			•		•
	Ringer Download (Base/each Handsets)	•/•	•/•	•/2	•/•	•/2
	Accessibility(Big Button/Slow Talk/HAC)					
	Wireless Camera Monitoring					
	Skype compatible					
	Voice Enhancer Technology	•	•	•	•	•
	Easy Operation (Menu Driven)	•	•	•	•	•
	Icon Operation					
	Voice Mail Mess.-Waiting Indicator (LCD)	•	•		•	
	Voice Scramble (Digital Security)	•	•	•	•	•
Caller ID/Phone Book	Call waiting Caller ID	•	•	•	•	•
	Talking Caller ID					
	Ringer ID					
	Picture ID					
	Light-up ID					
	Caller ID Memory	50	50	50	50	50
	Phone Book	50	50	50	50	50
	Chain Dial	•	•	•	•	•
	Dialer Storage Capacity (# of digits per station)	32	32	32	32	32
	Speed Dial					
Phone Book Sharing				•	•	
Answering System	All-Digital Answering System/(max min)			•/15		•/15
	Voice Prompts/Time day Stamp			•		•
	Pre-Recorded OGM			•		•
	Remote Control from Handset			•		•
	Remote Control from outside line (DTMF)			•		•
	Toll saver			•		•
	Memo Record					
Basic Features	Base Unit Dial Keypad					
	Speakerphone (Base/Handset)	-/•	•/•	•/•	•/•	•/•
	Hold (Base/Handset)	•/•	•/•	•/•	•/•	•/•
	Mute (Base/Handset)	•/•	•/•	•/•	•/•	•/•
	Flash (Base/Handset)	•/•	•/•	•/•	•/•	•/•
	Redial (Base/Handset)	•/5	•/5	•/5	•/5	•/5
	Ringer Patterns (Base/Handset)	•/3	•/3	•/3	•/3	•/3
	Melody Ringer (Base/Handset)	•/4	•/4	•/4	•/4	•/4
	Ringer Volume Control (Base/Handset)	•/Off, Low, Mid, Hi	•/Off, Low, Mid, Hi	•/Off, Low, Mid, Hi	•/Off, Low, Mid, Hi	•/Off, Low, Mid, Hi
	Talk Volume Control (Base/Handset)	•/Low, Mid, Hi	•/Low, Mid, Hi	•/Low, Mid, Hi	•/Low, Mid, Hi	•/Low, Mid, Hi
	Any Key Answer	•	•	•	•	•
	LCD (Base Unit)			2-Digit		2-Digit
	Line status indicator	•	•	•	•	•
	Handset Locator	•	•	•	•	•
	Intercom (Handset - Handset)				•	•
	Intercom (Handset - Base Unit)			•		•
	Voice Paging (Base Unit to all Handsets)					
	Multi-way Conferencing				3-Way	3-Way
Programmable Tone/Pulse	•	•	•	•	•	
Wall Mountable	•	•	•	•	•	
Handset	Backlit Handset Keypad		•	•		•
	Lighted indicator with Ringer/Message alert	•	•	•	•	•
	Backlit LCD on Handset	3-Line	3-Line	3-Line	3-Line	3-Line
	Out of Range Indicator	•	•	•	•	•
	Battery Type	NiMH	NiMH	NiMH	NiMH	NiMH
	Standby Battery Life(Days)	11	11	11	11	11
	Talk Time(Maximum Hours)	5	5	5	5	5
	Low Battery Indicator	•	•	•	•	•
	Reversible Handset Charging(Base Unit)					
	Recharge Time (Hours)	6	6	6	6	6
Headset Jack		•	•		•	
Beltclip						

4-Line ITS Features Chart

Main Features		TS4100	TS4200	TS4300
	Expandability	16	16	16
	Number of phone lines	4	4	4
	Language	English/Spanish	English/Spanish	English/Spanish
Caller ID/Phone Book	Call waiting Caller ID		•	•
	Caller ID Memory		200	200
	Phone Book		200	200
	Chain Dial		•	•
	Dialer Storage Capacity (# of digits per station)		24	24
	One Touch Operation	• (32 one touch buttons) It should be 16 key with Lower Key.	• (32 one touch buttons) It should be 16 key with Lower Key.	• (32 one touch buttons) It should be 16 key with Lower Key.
Answering System	All-Digital Answering System (/max min)			•/60 min.
	Voice Prompts/Time day Stamp			•
	Pre-Recorded OGM			•
	Call Screening/Intercept			•
	Remote Control from outside line (DTMF)			•
Basic Features	Memo Record			•
	Easy Operation (Menu Driven)	•	•	•
	Voice Mail Mess.-Waiting Indicator		•	•
	Power Outage Operation (Requires battery)	•	•	•
	Base Unit Dial Keypad	•	•	•
	Speakerphone	•	•	•
	Hold	•	•	•
	Mute	•	•	•
	Flash	•	•	•
	Redial	•	•	•
	Ringer Tone	4-pattern	4-pattern	4-pattern
	Ringer Volume Control	4-step/OFF	4-step/OFF	4-step/OFF
	Talk Volume Control	•	•	•
	Do Not Disturb	•	•	•
	LCD	•	•	•
	Line status indicator	•	•	•
	Call Transfer	•	•	•
	Intercom	•	•	•
	Voice Paging	•	•	•
	Multi-way Conferencing	Up to 3-way	Up to 3-way	Up to 3-way
Barge in/Privacy	•	•	•	
Programmable Tone/Pulse	•	•	•	
Wall Mountable	•	•	•	
Headset Jack	•	•	•	

4-Line Cordless Features Chart

Main Features		TG4500
General Information	Color	Black
	Frequency/Technology	5.8GHz /FHSS Digital
	Channels	TBD
	Multi Handset Capability	8
	Number of phone lines	4
Advanced Features	Language	English/Spanish
	Easy Operation (Menu Driven)	•
	Voice Scramble (Digital Security)	•
Caller ID/Phone Book	Power Outage Operation	•(20Min.)
	Call waiting Caller ID	•
	Caller ID Memory	50
	Ringer ID	•
	Phone Book	100
	Dialer Storage Capacity (# of digits per station)	32
Answering System	Speed Dial (Base/Handset)	10/10
	Phone Book Sharing	•
	All-Digital Answering System with Automated Attendant (/max min)	•/100min.
	Private Mail Boxes	1 box for each handset (max. 8)
	Different OGM for each line	•
	Voice Prompts/Time day Stamp	•
	Pre-Recorded OGM	•
	Call Screening	•
	Remote Control from Handset	•
	Remote Control from outside line (DTMF)	•
	Toll-saver	•
	2-way Recording	•

Basic Features	Base Unit Dial Keypad	•
	Speakerphone (Base/Handset)	••
	Headset Jack (Base)	•
	Hold (Base/Handset)	••
	Melody on Hold (User recorded music)	•
	Mute (Base/Handset)	••
	Flash (Base/Handset)	••
	Redial (Base/Handset)	10/10
	Ringer Patterns	4
	Melody Ringer	6
	Ringer Tone (Base/Handset)	•/•
	Ringer Volume Control (Base/Handset)	Off, Low, Mid, Hi /Off, Low, Mid, Hi
	Talk Volume Control (Base/Handset)	Low, Mid, Hi/ Low, Mid, Hi
	Speaker Phone Volume (Base/Handset)	8-Step/8-Step
	Any Key Answer	•
	LCD (Base Unit)	•
	Line status indicator	•
	Handset Locator	•
	Intercom (Handset - Handset)	•
	Intercom (Handset - Base Unit)	•
Multi-way Conferencing	Up to 3-wa•	
Barge in/Privacy	•	
Programmable Tone/Pulse	•	
Wall Mountable (Base/Charger)	-/•	

Chart Continues >

Home Communications System – Multi Talk V

Main Features		TH102	THA11	THA12	THA13	THA14	THA16	THA17	
General Information	Description	Base Unit	USB handset	Color LCD handset	Wireless Camera	USB adaptor	Large LCD Unit	Color LCD Handset	
	Color	Silver	Silver	Silver	Silver	Silver	Silver	Silver	
	Frequency/Technology	2.4GHz/Bluetooth	2.4GHz/Bluetooth	2.4GHz/Bluetooth	2.4GHz/Bluetooth	2.4GHz/Bluetooth	2.4GHz/Bluetooth	2.4GHz/Bluetooth	
	Channels	79	79	79	79	79	79	79	
	Multi Handset Capability (Handset)	up to 8							
	Multi Handset Capability (Handset and BT devices)	up to 18							
	Number of phone lines	2							
Advanced Features	Language	English/Spanish	English/Spanish	English/Spanish	English/Spanish	English/Spanish	English/Spanish	English/Spanish	
	Cellular Convergence	•	•	•			•	•	
	Telephone capability	•	•	•			•	•	
	Video Phone			•			•	•	
	Video Monitoring			Camera/View	Camera Only		Camera/View	Camera/View	
	Data Link	•	•	•		•	•	•	
	Digital Picture Frame (with BGM)						•		
	Digital Still Camera			•			•	•	
	Blue Tooth Headset Capability	•(Base Unit)							
	Wireless Image Printing	•					•		
	Recordable Customized Ringer	•(Handset)	•	•			•	•	
	USB port (Real Music Ringer)	•(Handset)	•	•			•	•	
	USB port (Picture)			•			•	•	
	USB port (Phone Book Download)	•	•	•			•	•	
	USB port (Feature setup)	•	•	•			•	•	
	USB port (TAD file operation)	•							
	Voice Enhancer Technology	•(Handset)	•	•			•	•	
	Easy Operation (Menu Driven)	•	•	•			•	•	
	Icon Operation	•	•	•			•	•	
	Voice Mail Mess.-Waiting Indicator								
	Voice Scramble (Digital Security)	•	•	•	•	•	•	•	
	Caller ID/Phone Book	Call waiting Caller ID	•	•	•			•	•
		Talking Caller ID	•(Handset)	•	•			•	•
		Ringer ID	•	•	•			•	•
		Picture ID			•			•	•
		Light-up ID	•(Handset)	•					
		Caller ID Memory	50	50	50			50	50
Phone Book		50	50	50			50	50	
Chain Dial		•	•	•			•	•	
Dialer Storage Capacity (# of digits per station)		32	32	32			32	32	
Speed Dial							2		
Answering System	Phonebook Sharing	•	•	•			•	•	
	All-Digital Answering System(/max min)	60							
	Voice Prompts/Time day Stamp	•							
	Pre-Recorded OGM	•							
	Remote Control from Handset	•	•	•			•	•	
	Remote Control from outside line (DTMF)	•							
	Toll saver	•							
	Memo Record	•							
Basic Features	Base Unit Dial Keypad	•							
	Speakerphone	•	•	•			•	•	
	Hold	•	•	•			•	•	
	Mute	•	•	•			•	•	
	Flash	•	•	•			•	•	
	Redial	10	10	10			10	10	
	Ringer Patterns	5	5	5			5	5	
	Customized Ringer	2 (Handset)	2	2			2	2	
	Ringer Volume Control	Off, Low, Mid, Hi	•	•			•	•	
	Talk Volume Control	8-step	•	•			•	•	
	Any Key Answer	•(Handset)	•	•			•	•	
	Line status indicator	•	•	•			•	•	
	Handset Locator								
	Intercom	•	•	•			•	•	
	Intercom(Video)			•			•	•	
Handset	Voice Paging (Base Unit to all Handsets)	•(Base Unit)							
	Multi-way Conferencing	Up to 4-way•	•	•			•	•	
	Programmable Tone/Pulse	•							
	Wall Mountable	•							
	Backlit Handset Keypad	•	•	•			•	•	
	Lighted Indicator with Ringer/Message alert	•	•						
	Backlit LCD on Handset	•(1.6")	•(1.6")	2.0", 65,000 color capable			3.6", 65,000 color capable	2.0", 65,000 color capable	
	Battery Type	Ni-MH	Ni-MH	Ni-MH			Ni-MH	Ni-MH	
	Standby Battery Life(Days)	7	11	4			9	4	
	Talk Time(Maximum Hours)	4.5	7	3			2.5	3.5	
Recharge Time (Hours)	4	4.5	4			9	4		
Low Battery Indicator	•	•	•			•	•		
Reversible Handset Charging(Base Unit)									
Headset Jack	•	•	•			•	•		
Beltclip	•	•							

Laser Fax Features Chart

Panasonic Model	KX-FLB851	KX-FLB811	KX-FLB801	KX-FLM651	KX-FL611	KX-FL541	KX-FL511
Printing Speed (Approximate) ²	18 PPM	18 PPM	18 PPM	14 PPM	14 PPM	14 PPM	12 PPM
Print Resolution	600 dpi	600 dpi	600 dpi	600 dpi	600 dpi	600 dpi	600 dpi
Recording Paper: Capacity (Letter)	up to 780	250	250	250	250	250	220
Letter Size	•	•	•	•	•	•	•
Legal Size	•(manual tray)	•	•	•	•	•	•
A4 Size	•	•	•	•	•	•	•
Automatic Document Feeder (# of Pages) ²	50	40	40	20	20	20	20
Memory Size - Mbyte (Pages)	2MB (150 Pgs of Memory Send) 8MB (630 Pgs of Memory Rcv)	2MB (170 Pgs)	2MB (170 Pgs)	2MB (170 Pgs)	2MB (170 Pgs)	4MB (341 Pgs of Memory Send) 6MB (512 Pgs of Memory Rcv)	2MB (170 Pgs)
Quick Scan	•	•	•	•	•	•	•
Out-of-Paper Reception	•	•	•	•	•	•	•
Broadcasting	3 Keys, 20 Stations	3 Keys, 20 Stations	3 Keys, 20 Stations	3 Keys, 20 Stations	3 Keys, 20 Stations	3 Keys, 20 Stations	3 Keys, 20 Stations
Navigator Key with 2-Line Display	•	•	•	•	•	•	•
Flat Bed Fax Scan	•	•	•	•	•	•	•
User Friendly Reception	•	•	•	•	•	•	•
64-Level Halftone	•	•	•	•	•	•	•
Super Fine Mode	•	•	•	•	•	•	•
Overseas Mode	•	•	•	•	•	•	•
Extension Line Transfer	•	•	•	•	•	•	•
Distinctive Ring Detection	•	•	•	•	•	•	•
Delayed Send	•	•	•	•	•	•	•
Junk FAX Prohibitor	•	•	•	•	•	•	•
Send Reservation	•	•	•	•	•	•	•
Dual Access	•	•	•	•	•	•	•
HELP Function	•	•	•	•	•	•	•
Fax Activity Report with Journal Printout	•	•	•	•	•	•	•
Transmission Report	•	•	•	•	•	•	•
Modem Compatibility	G3	G3	G3	G3	G3	G3	G3
Modem Speed	33600 bps	33600 bps	33600 bps	14400 bps	14400 bps	33600 bps	14400 bps
Error Correction Mode	•	•	•	•	•	•	•
Send Time (Seconds)*	4	4	4	8	8	4	8
Coding Scheme	MH / MR / MMR	MH / MR / MMR	MH / MR / MMR	MH / MR / MMR	MH / MR / MMR	MH / MR / MMR	MH / MR / MMR
Multi-Copy	99	99	99	99	99	99	99
Reduction Copy (to 50%, 5% Steps)	•	•	•	•	•	•	•
Enlargement Copy (to 200%, 5% Steps)	•	•	•	•	•	•	•
Collate	•	•	•	•	•	•	•
Flat Bed Copy	•	•	•	•	•	•	•
Multi-Function PC Interface	•	•	•	•	•	•	•
PC Interface	USB (Network Optional)	USB	USB	USB	•	•	•
PC Print	•	•	•	•	•	•	•
PC Scan	•	•	•	•	•	•	•
PC Fax	•	•	•	•	•	•	•
Scan Resolution (Interpolated)	9600	9600	9600	9600	•	•	•
Full Version Text Recognition, 55 Languages	•	•	•	•	•	•	•
Operating System - Windows® 2000/ME/XP	•	•	•	•	•	•	•
Corded Phone	Optional	Optional	Optional	•	•	•	•
Monitor Speakerphone	•	•	•	•	•	•	•
Electronic Volume Control	•	•	•	•	•	•	•
Caller ID ¹ Compatible with 2-Line Display	•	•	•	•	•	•	•
Display Caller ID ¹ List	•	•	•	•	•	•	•
Print Caller ID ¹ List	•	•	•	•	•	•	•
Edit and Store List	•	•	•	•	•	•	•
Dial Mode	Tone/Pulse	Tone/Pulse	Tone/Pulse	Tone/Pulse	Tone/Pulse	Tone/Pulse	Tone/Pulse
Electronic Phone Directory (Auto-Dial)	300 (318)	300 (314)	300 (314)	100 (122)	100 (122)	100(122)	100 (122)
Navigator for Phone Directory	•	•	•	•	•	•	•
One Touch Keys	9 Keys, 18 Entries	7 Keys, 14 Entries	7 Keys, 14 Entries	11 Keys, 22 Entries	11 Keys, 22 Entries	11 Keys, 22 Entries	11 Keys, 22 Entries
Fax Redial	•	•	•	•	•	•	•
Answering Machine Interface	•	•	•	•	•	•	•
Warranty ³	1 year	1 year	1 year	1 year	1 year	1 year	1 year
Advantage Exchange ³	Overnight	Overnight	Overnight	Overnight	Overnight	Overnight	Overnight
Toner (KX-FA83)	•	•	•	•	•	•	•
Drum (KX-FA84)	•	•	•	•	•	•	•
Toner (KX-FA85 or KX-FA87)	KX-FA85	•	•	•	•	•	•
Drum (KX-FA86)	•	•	•	•	•	•	•

Plain Paper Fax

Panasonic Model	KX-FP205	KX-FHD331	KX-FHD351	KX-FP145	KX-FG2451	KX-FG6550
Recording Paper Capacity (Letter)	20	50	50	30	20	30
Automatic Document Feeder (# of Pages)	10	10	10	10	10	10
Memory Size - Kbyte (Pages) ⁵	300 (24)	300 (24)	350(28)	300 (24)	350 (28)	350 (28)
Quick Scan	•	•	•	•	•	•
Out-of-Paper Reception	•	•	•	•	•	•
Broadcasting	20 Locations	20 Locations	20 Locations	20 Locations	20 Locations	20 Locations
Navigator Key with 2-Line Display	•	•	•	•	•	•
2-Line LCD (16 Characters per Line)	•	•	•	•	•	•
User Friendly Reception	•	•	•	•	•	•
64-Level Halftone	•	•	•	•	•	•
Super Fine Mode	•	•	•	•	•	•
Overseas Mode	•	•	•	•	•	•
Extension Line Transfer	•	•	•	•	•	•
Distinctive Ring Detection	•	•	•	•	•	•
Delayed Send	•	•	•	•	•	•
HELP Function	•	•	•	•	•	•
Fax Activity Report with Journal Printout	•	•	•	•	•	•
Electronic Film Indicator	yes (2 Level)	yes (2 Level)	yes (2 Level)	yes (2 Level)	yes (2 Level)	yes (2 Level)
Modem Compatibility	G3	G3	G3	G3	G3	G3
Modem Speed	9600 bps	9600 bps	14400 bps	9600 bps	9600 bps	9600 bps
TX Send Time (Seconds)*	15	15	9	15	15	15
Coding Scheme	MH/MR	MH/MR	MH/MR	MH/MR	MH/MR	MH/MR
Multi-Copy	20	40	50	30	20	30
Reduction Copy (92% / 86% / 72%)	•	•	•	•	•	•
Enlargement Copy (150% / 200%)	•	•	•	•	•	•
Collate	•	•	•	•	•	•
Number of Phone Lines	1	1	1	1	1	2
Corded Phone	•	•	•	•		
Speakerphone	Monitor	Monitor	Digital Duplex	Digital Duplex	Digital Duplex	Digital Duplex
Electronic Volume Control	•	•	•	•	•	•
Caller ID ¹ Compatible with 2-Line Display	•	•	•	•	•	•
Call Waiting Caller ID ¹	•	•	•	•	•	•
Caller ID ¹ List Display & Print	•	•	•	•	•	•
Dial Mode	Tone/Pulse	Tone/Pulse	Tone/Pulse	Tone/Pulse	Tone/Pulse	Tone/Pulse
Electronic Phone Directory (Auto-Dial)	50	80 (90)	100	100	50	50
Navigator for Phone Directory	•	•	•	•	•	•
One Touch Keys		5 Keys, 10 Entries	5 Keys, 10 Entries			
Fax Redial	•	•	•	•	•	•
Cordless Handset					2.4 GHz/FHSS	5.8 GHz/FHSS
Expandable to Multiple Handsets						4 Handsets
Voice Enhancer Technology					•	•
Light-Up Indicator with Ringer/Voice Mail or Message Alert ¹					•	•
Handset Locator - Paging/Intercom					Intercom	Single Intercom
Headset Jack and Handset Speakerphone					•	•
LCD					3-Line	4-Line
Handset Caller ID ¹					Display	Display
Navigator Key					•	•
Built-In Digital Answering System			18 Min.	18 Min.	18 Min.	60 Min.
Pre-Recorded Greeting Message			•	•	•	•
Voice Prompts with Time/Day Stamp			•	•	•	•
Voice Mailboxes			2	2		
Voice Pager Alert with Caller ID Data ¹			•	•		
Message Transfer			•	•		
Remote Retrieval/Turn On			•	•	•	•
External Answering Machine Interface	•	•				
Caller IQ™ Compatible ²		•	•	•		
Warranty	6 Months	6 Months	6 Months	6 Months	6 Months	6 Months
Advantage Exchange ⁶	•	•	•	•	•	•
Additional Handset						KX-TGA650B
Replacement Battery					HHR-P105	HHR-P104
Consumables	KX-FA91	KX-FA93	KX-FA93	KX-FA92	KX-FA91	KX-FA92

Fax Consumables

Model Number	Accessory Model Number
KX-F1000	KX-FA132, KX-FA133
KX-F1020	KX-FA132, KX-FA133
KX-F1050	KX-FA132, KX-FA133
KX-F1070	KX-FA132, KX-FA133
KX-F1100	KX-FA132, KX-FA133
KX-F1150	KX-FA132, KX-FA133
KX-F1200	KX-FA132, KX-FA133
KX-F2900	KX-A144A, KX-A145A
KX-F3000	KX-A144A, KX-A145A
KX-F3100	KX-A144A, KX-A145A
KX-FB421	KX-FA94
KX-FG2451	KX-FA91
KX-FG6550	KX-FA92
KX-FHD301	KX-FA65
KX-FHD331	KX-FA93
KX-FHD351	KX-FA93
KX-FL501	KX-FA76 Toner, KX-FA77D Drum
KX-FL511	KX-FA83 Toner, KX-FA84 Drum
KX-FL521	KX-FA76 Toner, KX-FA77D Drum
KX-FL541	KX-FA83 Toner, KX-FA84 Drum
KX-FL611	KX-FA83 Toner, KX-FA84 Drum
KX-FLB751	KX-FA76 Toner, KX-FA77D Drum
KX-FLB756	KX-FA76 Toner, KX-FA77D Drum
KX-FLB801	KX-FA87 Toner, KX-F86 Drum
KX-FLB811	KX-FA87 Toner, KX-FA86 Drum
KX-FLB851	KX-FA85 Toner, KX-F86 Drum
KX-FLM551	KX-FA76 Toner, KX-FA77D Drum
KX-FLM600	KX-FA75 Toner & Drum
KX-FLM650	KX-FA75 Toner & Drum
KX-FLM651	KX-FA83 Toner, KX-FA84 Drum
KX-FM106	KX-FA65
KX-FM205	KX-FA135, KX-FA136
KX-FM210	KX-FA135, KX-FA136
KX-FM220	KX-FA135, KX-FA136
KX-FM260	KX-FA135, KX-FA136
KX-FM280	KX-FA135, KX-FA136

Model Number	Accessory Model Number
KX-FMC230	KX-FA135, KX-FA136
KX-FP101	KX-FA65
KX-FP105	KX-FA65
KX-FP121	KX-FA65
KX-FP145	KX-FA92
KX-FP151	KX-FA53, KX-FA55
KX-FP152	KX-FA53, KX-FA55
KX-FP155	KX-FA53, KX-FA55
KX-FP195	KX-FA135, KX-FA136
KX-FP200	KX-FA135, KX-FA136
KX-FP205	KX-FA91
KX-FP245	KX-FA135, KX-FA136
KX-FP250	KX-FA135, KX-FA136
KX-FP270	KX-FA135, KX-FA136
KX-FP80	KX-FA53, KX-FA55
KX-FP81	KX-FA53, KX-FA55
KX-FP85	KX-FA53, KX-FA55
KX-FP86	KX-FA53, KX-FA55
KX-FPC135	KX-FA65
KX-FPC141	KX-FA65
KX-FPC161	KX-FA53, KX-FA55
KX-FPC165	KX-FA53, KX-FA55
KX-FPC166	KX-FA53, KX-FA55
KX-FPC91	KX-FA53, KX-FA55
KX-FPC95	KX-FA53, KX-FA55
KX-FPC96	KX-FA53, KX-FA55
KX-FPG175	KX-FA53, KX-FA55
KX-FPG371	KX-FA53, KX-FA55
KX-FPG372	KX-FA53, KX-FA55
KX-FPG376	KX-FA92
KX-FPG377	KX-FA92
KX-FPG379	KX-FA92
KX-FPG381	KX-FA92
KX-FPG391	KX-FA92
KX-FPW111	KX-FA65

Cordless Phone Battery Chart

Panasonic Model						Battery Model Number	Size	Cells	Power	Capacity	Chem.
KX-T3000						P-P201PA	1/3AA	3 Cells	3.6V	110mAh	NiCD
KX-T4000						P-P202PA	1/3AA	3 Cells	3.6V	110mAh	NiCD
KX-T3807	KX-TCM424	KX-T3850	KX-T3945	KX-TC150	KX-T4342	P-P301PA	2/3AA	3 Cells	3.6V	300mAh	NiCD
KX-T3823	KX-TCM440	KX-T3855	KX-T3950	KX-TC155	KX-T4350						
KX-T3824	KX-T3610	KX-T3860	KX-T3960	KX-TC157	KX-T4360						
KX-T3832	KX-T3620	KX-T3870	KX-T3962	KX-TC162	KX-T4365						
KX-TC185	KX-T3640	KX-T3875	KX-T3965	KX-TC170	KX-T4370						
KX-TC187	KX-T3702	KX-T3908	KX-T3967	KX-TC180	KX-T4400						
KX-TCC106	KX-T3705	KX-T3910	KX-T3968	KX-TC190	KX-T4410						
KX-TCC116	KX-T3710	KX-T3912	KX-T3980	KX-TC280	KX-T4500						
KX-TCM410	KX-T3712	KX-T3920	KX-T4108	KX-TC289	KX-T4550						
KX-TCM412	KX-T3720	KX-T3925	KX-T4109	KX-T4200	KX-T4600						
KX-TCM415	KX-T3725	KX-T3930	KX-T4168	KX-T4300							
KX-TCM418	KX-T3730	KX-T3932	KX-T4169	KX-T4310							
KX-TCM420	KX-T3732	KX-T3935	KX-TC100	KX-T4330							
KX-TCM422	KX-T3848	KX-T3940	KX-TC109	KX-T4340							
(Fits many Cobra, General Electric, and Sanyo Cordless Phones)						P-P302PA	2/3AA	3 Cells	3.6V	300mAh	NiCD
(Fits many ATT, General Electric, Phonemate and Sharp Cordless Phones)						P-P303PA	2/3AA	3 Cells	3.6V	300mAh	NiCD
(Fits many Bell South and South Western Bell Cordless Phones)						P-P304PA	2/3AA	3 Cells	3.6V	300mAh	NiCD
KX-TC1000	KX-TC1001	KX-TC1040				P-P305PA	2/3AA	2 Cells	2.4V	300mAh	NiCD
KX-T3825	KX-TC934	KX-TC1403	KX-TC1481	KX-TC1710	KX-TC1741	P-P501PA	AA	3 Cells	3.6V	600mAh	NiCD
KX-T3835	KX-TC935	KX-TC1410	KX-TC1484	KX-TC1711	KX-TC1742	P-P504PA					
KX-T3845	KX-TCM939	KX-TC1430	KX-TC1500	KX-TC1713	KX-TC1743						
KX-T3900	KX-TCM943	KX-TC1431	KX-TC1501	KX-TC1720	KX-TC1750						
KX-TC901	KX-TCM944	KX-TC1447	KX-TC1503	KX-TC1721	KX-TC1800						
KX-TC904	KX-TCM947	KX-TC1450	KX-TC1520	KX-TC1723	KX-TC1850						
KX-TC907	KX-TC1400	KX-TC1451	KX-TC1700	KX-TC1731	KX-TC1870						
KX-TC911	KX-TC1401	KX-TC1460	KX-TC1701	KX-TC1733	KX-TC1890						
KX-TC933	KX-TC1402	KX-TC1461	KX-TC1703	KX-TC1740							
KX-TG2000	KX-TG4000					P-P507A	AA	6 Cells	7.2V	500mAh	NiCD
KX-TG2401	KX-TG2503	KX-TG2563	KX-TG2593	KX-TC1851	KX-TC1886	P-P510A	AA	3 Cells	3.6V	1000mAh	NiCD
KX-TG2403	KX-TG2551	KX-TG2564	KX-TC1801	KX-TC1861	KX-TC1891	P-P508A					
KX-TG2451	KX-TG2553	KX-TG2583	KX-TC1811	KX-TC1866	KX-TC1881						
KX-TG2481	KX-TG2562	KX-TG2584	KX-TC1831	KX-TC1871	KX-TC1868						
KX-TG2205	KX-TG2227	KX-TG2247	KX-TG2720	KX-TG2770	KX-TG5100	P-P511A	AA	3 Cells	3.6V	850mAh	NiCD
KX-TG2215	KX-TG2236	KX-TG2257	KX-TG2730	KX-TGA270	KX-TG5110						
KX-TG2217	KX-TG2237	KX-TG2267	KX-TG2740	KX-TGA273	KX-TGA510						
KX-TG2219	KX-TG2239	KX-TG2700	KX-TG2750								
KX-TC905	KX-T9500	KX-T9509	KX-T9550			P-P543PA	AA	3 Cells	3.6V	600mAh	NiCD
KX-TC930	KX-T9505	KX-T9520									
KX-TC914	KX-TCC912	KX-TCS970	KX-TC900B	KX-TC909	KX-TC910	P-P592PA	AA	3 Cells	3.6V	600mAh	NiCD
KX-TCC902	KX-TCC942	KX-TC900	KX-TC900W	KX-TC910	KX-TC919						
KX-TGA271	KX-TGA272	KX-TG2352	KX-TG2382	KX-TG2383	KX-TGA230	HHR-P103A	AAA	3 Cells	3.6V	700mAh	NiMH
KX-TG2397	KX-TG2500	KX-TG2560				HHR-P401A	4/5AA	3 Cells	3.6V	1150mAh	NiMH
KX-TG2400	KX-TG2550	KX-TG2570									
KX-TG200	KX-TG210	KX-TGM240				HHR-505PA	AA	3 Cells	3.6V	1300mAh	NiMH
KX-TG2000	KX-TG4000	KX-TGA200	KX-TGA400	KX-TGA420		HHR-P506A	AA	2 Cells	2.4V	1500mAh	NiMH
KX-TG2650	KX-TG2670	KX-TG2680				HHR-P509A	AA	2 Cells	2.4V	1500mAh	NiMH
KX-TG1000	KX-TG1050	KX-TGA100				HHR-P546A	AA	2 Cells	2.4V	1500mAh	NiMH
KX-TG2208	KX-TG2216	KX-TG2226	KX-TG2238	KX-TG2258		HHR-P513A	AA	2 Cells	2.4V	1500mAh	NiMH
KX-TG2214	KX-TG2224	KX-TG2235	KX-TG2248								
KX-TG2302	KX-TG2343	KX-TG2335	KX-TG5050	KX-TG5055	KX-TGA520	HHR-P104	AAA	3Cells	3.6 V	830mAh	NiMH
KX-TG2312	KX-TG2344	KX-TG2355	KX-TG5200	KX-TG5202	KX-TGA523						
KX-TG2313	KX-TG2336	KX-TG2357	KX-TG5210	KX-TG5212	KX-TG6500						
KX-TG2314	KX-TG2346	KX-TG2386	KX-TG5230	KX-TG5243	KX-TG6502						
KX-TG2322	KX-TG2356	KX-TG2480	KX-TG5240		KX-TGA650						
KX-TG5421	KX-TG5431	KX-TG5451	KX-TG5561	KX-TG5571	KX-TGA550						
KX-TG5422	KX-TG5432	KX-TG5452	KX-TG5566	KX-TG5576	KX-TGA551						
KX-TG5423	KX-TG5433				KX-TGA552						
KX-TG5428	KX-TG5438	KX-TG5471	KX-TG5480	KX-TG2480							
KX-TG5439											
KX-TG2970B	KX-TGA290B					HHR-P402	AA	3Cells	3.6 V	1000mAh	NiMH
KX-TG2420	KX-TG2421	KX-TG2422	KX-TG2431	KX-TG2432	KX-TG5621	HHR-P105	AA	2Cells	2.4 V	830mAh	NiMH
KX-TG2620	KX-TG2621	KX-TG2622	KX-TG2631	KX-TG2632							
KX-TG5761	KX-TG5766	KX-TG5767	KX-TG5771	KX-TG5776							
KX-TG6700	KX-TGA670	KX-TG5631	KX-TG5652	KX-TG5632							
KX-TGA570	KX-TGA571	KX-TGA572	KX-TGA670	KX-TG5672							

Panasonic Consumer Electronics Company

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