# **Service Manual**





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### **Safety Notice**

Any person attempting to service this chassis must familiarize with the chassis and be aware of the ecessary safety precautions to be used when serving electronic equipment containing high voltage.



#### **Important Safety Notice**

**Product Announcement:** 

This product is certificated to meet RoHS Directive and Lead-Free produced definition. Using approved critical components only is recommended when the situation to replace defective parts. Vender assumes no liability express or implied, arising out of any unauthorized modification of design or replacing non-RoHS parts. Service providers assume all liability.

Qualified Repairability:

Proper service and repair is important to the safe, reliable operation of all series products. The service providers recommended by vender should being aware of notices listed in this service manual in order to minimize the risk of personal injury when perform service procedures. Furthermore, the possible existed improper repairing method may damage equipment or products. It is recommended that service engineers should have repairing knowledge, experience, as well as appropriate product training per new model before performing the service procedures.

#### NOTICE:

- ! To avoid electrical shocks, the products should be connect to an authorized power cord, and turn off the master power switch each time before removing the AC power cord.
- ! To prevent the product away from water or explosed in extremely high humility environment.
- ! To ensure the continued reliability of this product, use only original manufacturer's specified parts.
- ! To ensure following safety repairing behavior, put the replaced part on the components side of PWBA not solder side.
- ! To ensure using a proper screwdriver, follow the torque and force listed in assembly and disassembly procedures to screw and unscrew screws.
- ! Using Lead-Free solder to well mounted the parts.
- ! The fusion point of Lead-Free solder requested in the degree of 220°C.



# 1. Product Specification

#### 1.1 Scope:

This model is a 27nch TFT LCD (White LED backlight) display monitor.

The monitor supports HDMI1/HDMI2 and DP compatible interface, and provides maximum flexibility in the number of applications that it can provide to the end user.

Model Number is . XF273 S

### The features summary is shown as below:

Model No.	MN134701			
Display Size	27 Inch diagonal			
LCD panels	BOEB270WU3			
Maximum Resolution	1920 x 1080 @75Hz			
Pixel Pitch	0.2331(H) x 0.2331 (V) mm			
Active Display Area	596.736(H) x 335.664(V) mm			
Color	16.7M,8bit(True)			
Viewing Angle	Horizontal : 178°(typ) Vertical:178°(typ) , (CR≧ 10)			
Brightness	250 cd/m²(typical) 200 cd/m²(min)			
Contrast Ratio	1000:1(typical) 700:1 (min) Remark: If the ambient luminance is less than 1 lux, there is almost no light get leaked into the gap.			
Scan Frequency	Horizontal : 15 ~193kHz Vertical : 48 ~165Hz Horizontal & Vertical Frequency no include Video mode spec			
Display Timings	Factory Presets: 24 User Presets : ≦ 24			
Input signal connector	-20pins DisplayPort (Digital) -19pins HDMI 1(Digital) -19pins HDMI 2(Digital)			
Recommended Resolution	1920 x 1080 @144Hz			
Audio in	HDMI/DP Input=-8dBFS/1KHz			
Audio output	Speaker output: 2W *2 (Typ) Earphone: <150mVrms.@ 32ohm load			
Speaker	4Ω, 2.5W *2			
Power Consumption	30W (typical), 43W (MAX)			



#### 1.2 General Requirements:

- \*All panel spec. definition depends on the variance of panel source.
- \*All spec. of monitor need to warm up at least 1hr.
- \* To test the "Contrast Ratio" and "Luminance" functions, the color status must be "User preset" mode.
- \* 1. "Contrast Ratio": Set "brightness" at 100, and "contrast" at 50.
- \* 2. "Luminance": Set "brightness" at 100, and "contrast" at 100.

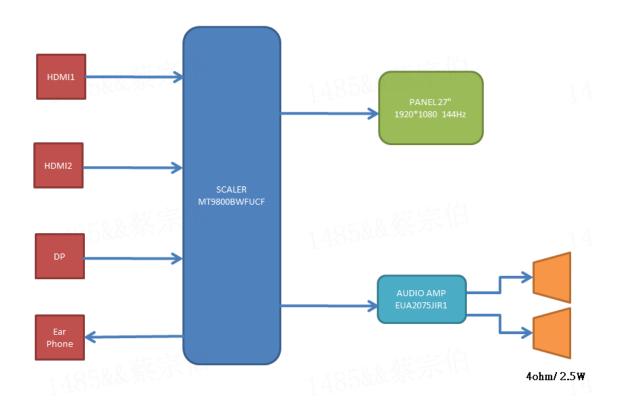
#### 1.3 Electrical:

The XF273 S 27inch TFT LCD (White LED backlight), 16.7M colors gray scale signal for each dot TFT LCD with HDCP 2.2 support monitor. It's have HDMI/DP interface LCD monitor with two 19pin HDMI and one 20pin DP signal cable which support HDCP 2.2 function. It's

compliant with VESA specification to offer a smart power management and power saving function. It also offers OSD menu for users to control the adjustable items and get some information about this monitor.

XF273 S also offer DDC2/CI function to meet VESA standard.

The XF273 S consists of a LCD module with W-LED, a LED board, LED driver board, Control board and an interface board. The block diagram is shown as below.





#### Note-1

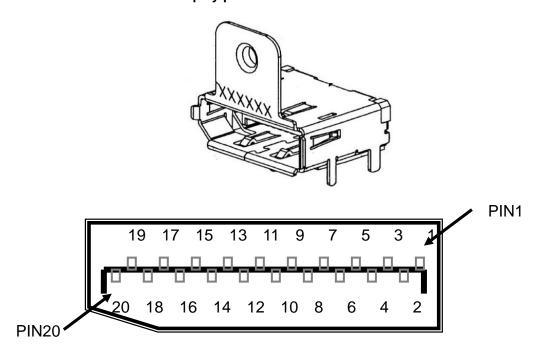
#### 1.3.1 Interface Connectors:

#### 1.3.1.1 **DisplayPort:**

Display port Connector pin assignments

The signal cable connector shall be a molded-over, shield twisted pair cable. The pin assignment of this connector is described as below:

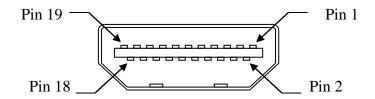
## **Display port connector**



19	17	15	13	11	9	7	5	3	1
GND	DAN	DAP	GND	GND	D1P	D1N	GND	D3P	D3N
20	18	16	14	12	10	8	6	4	2
POWER	HDP	GND	GND	D0P	D0N	GND	D2P	D2N	GND

#### Note-2

**HDMI:** 19 pins HDMI connector is designed to match with HDMI digital signal cable, the pin assignment is as the following:



\* 19 pins HDMI female



Pin	Signal Assignment	Pin	Signal Assignment
1	TMDS RX2+	11	TMDS Ground
2	TMDS Ground	12	TMDS Clock-
3	TMDS RX2-	13	CEC
4	TMDS RX1+	14	Floating
5	TMDS Ground	15	DDC Clock
6	TMDS RX1-	16	DDC Data
7	TMDS RX0+	17	Ground
8	TMDS Ground	18	+5V Power
9	TMDS RX0-	19	Hot Plug Detect
10	TMDS Clock+		

<sup>\*</sup>HDMI(v2.0)+HDMI(v2.0) & DisplayPort(v1.2)+HDCP(2.2)

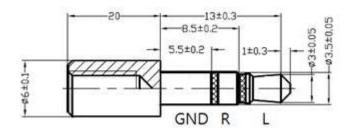
# Earphone:

Audio earphone Jack(P602):

3.5\(\phi\) 5P(577C) WTJ-035-09A01 (KYOYAKU)

Pin	Description
1	Right GND
2	SW
3	Left GND
4	GND
5	SW

Earphone jack only supports 3 poles



1.3.2 Input Signals:

Horizontal: 15KHz~193KHz

Vertical: 48Hz~165Hz



#### 1.3.3 User Controls and Indicators:

#### 1.3.3.1 Power On/Off Switch:

The monitor shall have a power control switch visible and accessible on the front of monitor.

#### 1.3.3.2 Power Indicator LED:

The monitor shall have LED indicators located on the front of the monitor. Table below is the LED color for the power indicator

State	LED Light
ON	Blue
Power Saving Mode	Orange

1.3.3.3 On-Screen Display (Please refer to user guide for more information of OSD function):

On Screen Display system shall be used to control the monitor. Current setting will be saved and OSD will be tuned off when the keys are not touched for a period of time.

#### 1.4 Flat Panel:

#### 1.4.1 General Requirements:

BOEB270WU3 is a 27" TFT Liquid Crystal Display module with WLED Backlight unit and 2 channel LVDS interface. This module supports 1920(H)x1080(V) FHD mode and can display up to 16.7M colors(8 bits).

#### 1.4.2 Panel Timings:

The controller in the monitor shall translate video timings from the PC to meet the timing requirements listed in Panel specification. Under no circumstances may the controller supply the panel with timings that may result in damage. The controller shall insulate the panel from the PC, so that the panel shall always be driven according to its specification regardless of the timings being sent from the PC.

#### 1.4.3 Polarizer Hardness:

The outer face of the front polarizer panel shall be covered with a coating with a 3H hardness value.



#### 1.5 Optical Characteristics:

#### BOEB270WU3

Item.	Unit	conditions	Min	Тур	Max
Viewing Angle	degree	Horizontal (Right) CR=10 (Left)		178	
, restricting transfer		Vertical (Up) CR=10 (Down)		178	
Contrast ratio		Normal Direction	700:1	1000:1	
		Raising Tine (TrR)			
Response Time	m sec	Falling Time (TrF)			
		Raising +Falling		5.9	11
		Red x		0.6835	
		Red y		0.3085	
Color/Chromaticity		Green x		0.253	
Coordinates (CIE)		Green y		0.6705	
		Blue x		0.1429	
		Blue y		0.0494	
Color Coordinates(CIE)		White x		0.313	
White		White y		0.329	
Central Luminance		Cd/m2	200	250	
Luminance Uniformity		%	85		
Crosstalk (in 60Hz)		%			
Flicker		dB			

### 1.51 Brightness Uniformity (BU)

(a) LCD Panel Model No: BOEB270WU3

- (b) The panel used as the display device shall be a 1920X1080 resolution 27"diagonal TFT-LCD.
- (c) The brightness uniformity shall be measured the brightness at nine pre-defined locations and taking the ratio by following definition. (Fig.1)

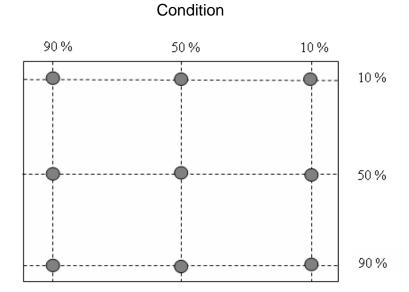
#### **Definition**

Minimum Luminance in 9 Points (1-9)

Brightness Uniformity = — × 100 %

Maximum Luminance in 9 Points (1-9)





(d) The brightness uniformity (BU) shell be meet the following criteria. BU >= 70% if set contrast & brightness at defult settings.

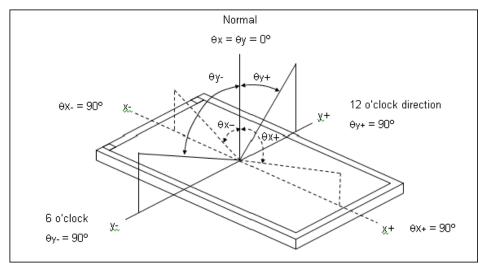
### 1.52 Response Time

Model Name	Extreme (ms)	Normal (ms)	Off
XF273 S	2	4	Panel OD

## 1.53 View Angle

The typical viewing angle in the horizontal direction is 178 degrees. The typical viewing angle in the vertical direction is 178 degrees. (Fig.2)

**Fig.2** Definition of Viewing Angle: Viewing Angle Range (CR > =10)





# 1.54 The typical luminance of white (center of screen) is 250cd/m²

$$x = 0.313 + -0.03$$
  $y = 0.329 + 0.03$ 

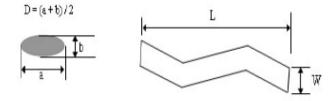
Brightness and Contrast are set to maximum.

### 1.55 Dot/Dust criteria

Visual Inspection Criteria

ITEMS	DETAILS		INSPECTION CRITERIA
	Bright Sub Pixel Defect		N ≤ 5 (ZBD ≥80%)
	Dark Sub Pixel Defect		N ≤ 12
	Bright+Dark Sub Pixel Defect		N ≤ 12
	Defect Distance Bright	& Bright	-
Sub Dival Defects	Dark 8	& Dark	L ≥10mm
Sub Fixel Delects	2 Adjacent Bright Sub I	Pixel Defect	N ≤ 0
	2 Adjacent Dark Sub P	ixel Defect	N ≤ 2
	3 Adjacent Bright Sub I	Pixel Defect	N = 0
	3 Adjacent Dark Sub P	ixel Defect	N = 1
	Partial Dot ≤ 1/2 Dot		N ≤ 12
Line Defects	Bright Line, Dark Line		N = 0
		Circular Type	D ≤ 0.3 Ignore
	Black/Bright Spot		0.3< D ≤ 1.0, N ≤ 5
	(Hair, Lint, Etc)	Linear Type	W ≤ 0.05 Ignore
		Linear Type	$0.05 < W \le 0.25, 0.5 < L \le 5.0, N \le 5$
		Circular Type	D ≤ 0.3 Ignore
	Polarizer Dent/Bubble	Officular Type	0.3< D ≤ 1.0, N ≤ 5
Displayed Screen	Scratch	Linear Type	W ≤ 0.05 Ignore
		Linear Type	$0.05 < W \le 0.25, 0.5 < L \le 5.0, N \le 5$
	Glass Broken, Stain		Could not be seen by human eyes
	Circular White Mura, Lumination Mura,		Judged by 5% ND Filter in 50% of total gray
Black/White Mura, etc.			pattern or refer to limit sample.
Crosstalk			Should not be perceived

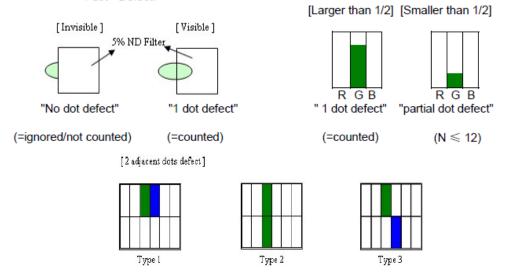
Note 1) D = Diameter, L = Length, W = Width, N = Number



Note 2) Circular Type : long axis/short axis≤2 Linear Type : long axis/short axis>2



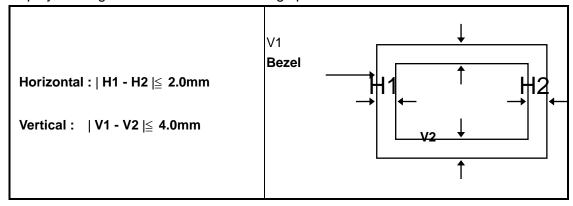
Note 3) Dot which is invisible through 5% ND filter or smaller than 1/2 of sub-pixel size will not counted as " 1 dot " Defect.



1.56 Backlught tech.: PWM

## 1.6 Display image

The displayed image should be within following spec.





# 1.7 Mechanical and Packing:

### 1.7.1 Dimension

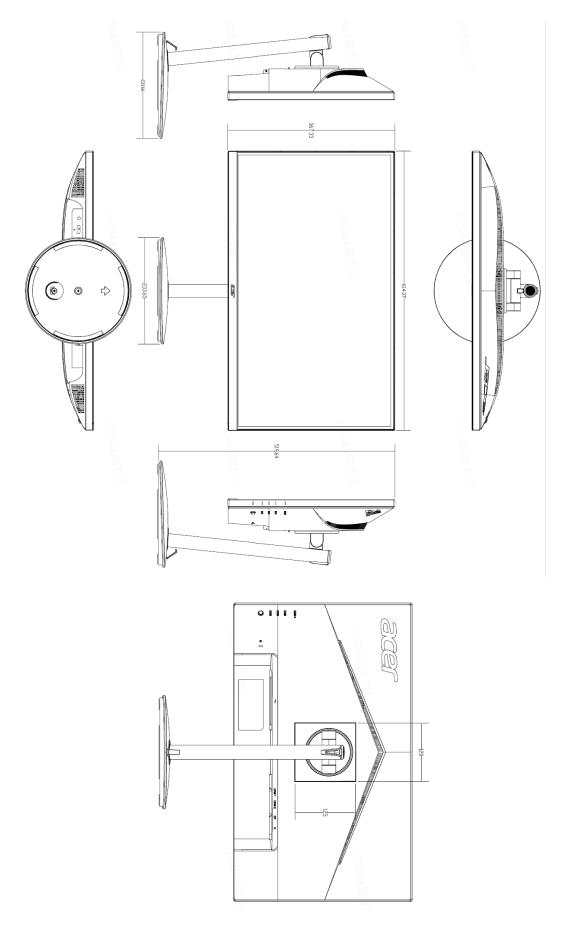
Dimensions (With Stand)

Width	614mm±2mm
Height	52~40mm±2mm
Depth	22.9±2mm
Monitor Weight	$6.5\pm0.3$ kg

## Dimensions (W/O Stand/Wall Mount)

Width	614mm±2mm
Height	36.7mm±2mm
Depth	7±2mm
Monitor Weight	4.96±0.3kg







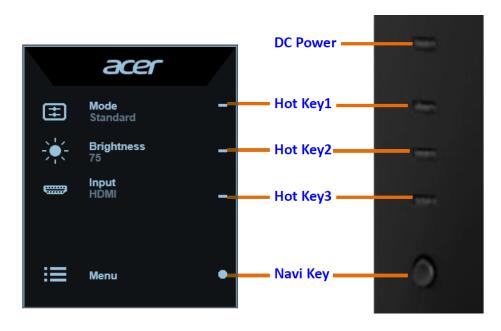
#### 1.7.2 Weight:

Net Weight(kg)	Gross Weight(kg)
4.96±0.2kg	6.5±0.2kg

### 2. OSD Menu

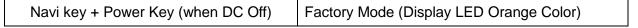
### 2.1 Key Definition

Power key + Hot key + Navi key



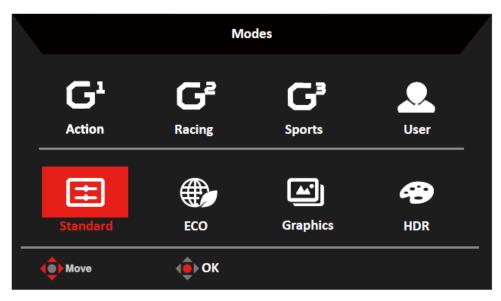
Key	Function description
DC Power	Power on/off the monitor.
Hot Key1	Function key; (Default is Modes, user can redefine).
Hot Key2	Function key; (Default is Brightness, user can redefine).
Hot Key3	Function key; (Input Source).
Navi Key	Function key; (Main Menu).

First Layer Function Menu

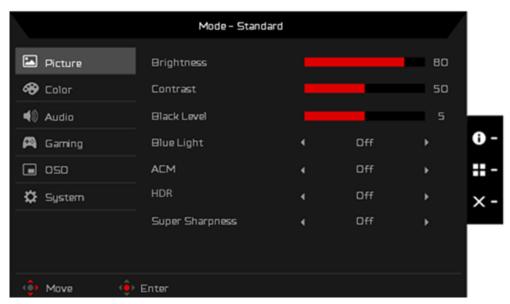




Navi key + Hot Key2+ Power Key (when DC Off)	BURN IN Mode (Display LED Orange Color)
Navi key (press 3 sec)	Unlock OSD Menu



Mode Management Menu



Main Menu OSD



# Function key is use Button sensor

Icons	Function description
<b>( )</b>	Adjust: Increase and Decrease of value.
< ⊕ >	Move: Up and Down function item.
	Move: Left/Right/Up/Down.
<b>4</b>	Back: Return previous Menu Exit: Close current Menu.
<b>₹</b>	OK: Choose item function Enter: Into sub menu or select Menu.

# 1.2 Function Menu:

Main Menu item	1st Sub Menu Item	Description	Adjust Range	Reset Value
	Brightness	Backlight Adjustment. Each step will increase/decrease value by 1	0-100	70
	Contrast	Contrast from Digital-register. Each step will increase/decrease value by 1.	0-100	50
	Black Boost	It determines the level of picture quality	0-10	5
Picture	Blue Light	Low Blue Light function	Off,80%,70%,60%,50%	Off
	ACM	To adjust the delay time of data and clock.	Off/ON	Off
	HDR	To adjust high dynamic range imaging	Off/Auto	Off
	Super Sharpness	Sharpness Adjustment by Off/On	Off/On	Off
	Gamma	Gamma Adjustment by 1.8 / 2.2 / 2.4	1.8 / 2.2 / 2.4	2.2
	Color Temp.	Warm: 6500K (Default). Normal: 7500K. Cool: 9300K. Blue Light: User:	Warm / Normal / Cool / Blue Light / User	Warm
	R Gain	Only enable at User color.	0-100	50
	G Gain	Only enable at User color.	0-100	50



	Refresh Rate Num	On: Refresh Rate	shows in top right doesn't show in top right	Off/On	[Off]
3	Premium	Not support FreeSync conditions: Show "Off" and gray out can't to control.			
Gaming	FreeSync	Meet FreeSync conditions:  Will enable the function for User to control.		Off/On	[On]
	Over Drive	Over Drive adjustment by Off / Normal / Extreme			
	Mute	Mute adjustment b	<u>-</u>	Off/On Off / Normal / Extreme	Off Normal
Audio	Volume	Volume value adju	•	0-100/	[70]
		Reset			r= 01
	6-axis Saturate	Cyan Saturate	Reset: Load default value.	0-100	[50]
		Magenta Saturate	Reset: Load default value.	0-100	[50]
		Yellow Saturate	Reset: Load default value.	0-100	[50]
		Blue Saturate	Reset: Load default value.	0-100	[50]
		Green Saturate	Reset: Load default value.	0-100	[50]
		Red Saturate	Reset: Load default value.	0-100	[50]
		Reset			
		Cyan Hue	Reset: Load default value.	0-100	[50]
		Magenta Hue	Reset: Load default value.	0-100	[50]
	6-axis Hue	Yellow Hue	Reset: Load default value.	0-100	[50]
		Blue Hue	Reset: Load default value.	0-100	[50]
		Green Hue	Reset: Load default value.	0-100	[50]
		Red Hue	Reset: Load default value.	0-100	[50]
	Grayscale Mode	Off: Normal color e	ck and white effect. effect.	Off/On	Off
	sRGB Mode	automatically.	I have gamma as 2.2	Off/On	Off
Color	Modes	Action/Racing/Spo /ECO/Graphics/HD	)R		rd
Calar	B Bias	Only enable at Use Support 8 modes:	er color.	0-100 Action~ HDR	50 Standa
	G Bias	Only enable at Use		0-100	50
	R Bias	Only enable at Use		0-100	50
	B Gain	Only enable at Use	er color.	0-100	50



	VRB	more clearly, but the brightness will be		Off/ Normal/ Extreme	[Off]
	Ultra-Low Latency		delay display time after the	Off/On	[On]
	Aim Point		n point icon display shape	Off / Icon1 / Icon2 / Icon3	[Off]
OSD	Language		anguage Issian) ortuguese	English~한국어	Accord with custom er's request ed
			isplaying time of OSD vill increase/decrease value by	10-120	10
	Transparency	Transparency value adjustinion by On 7		Off / 20% / 40% / 60% / 80%	[Off]
OSD Lock		Default: Off. On: Enable OSD Lock, Display LED Orange Color Unlock: Must press Navi Key to unlock OSD.		Off/On	[Off]
	Input Auto Source			HDMI1(2.0)/HDMI1(2.0) /DP	HDMI1 (2.0)
			auto source.	Off/On	[On]
	DP Format	Select DP For	rmat	DP1.1/DP1.2	DP1.2
	Wide Mode	Select Aspect	: Ratio4:3 and Full Screen and 1:1	Full / Aspect/1:1	Full
System PIP/PBP		Switch to PIP/PBP mode menu  Select PIP/PBP mode  PIP/PBP Default: Off.		OFF PIP Large PIP Small PBP	OFF



		PIP Position	Control PIP window Position	Top Left Top Right Bottom Right	<del>Top</del> <del>Left</del>
			<del>PIP only</del>	Bottom Left	
		PBP Size	Select PBP size. PBP only	Aspect Full	Aspect
		Sub Source	Select PIP/PBP sub source	HDMI1(2.0) HDMI2(2.0) DP1	HDMI1 (2.0)
		<del>Source</del> <del>Swap</del>	The main window is interchanged with the sub-window signal source.	NA	NA
		Audio- Source	Select the source for the sound output, default is Main source.	Main Sub	Main
	Hot Key	Hot Key 1	Modes / Brightness/Volume / Gamma / Contrast / Blue Light / Over Drive / VRB	Modes~VRB	Modes
	Assignment	Hot Key 2	Modes / Brightness/Volume/ Gamma / Contrast / Blue Light / Over Drive / VRB	Modes~VRB	Brightne ss
	DDC/CI	DDC/CI function controlled by OFF/ON		OFF/ON	ON
	HDMI Black Level		CE timing/AV resolution deo 16-235 encoded sources 255 PC encoded material.	Normal/Low	[Norma I]
	Quick Start Mode	OFF: normal display ON: does not display ACER logo		OFF/ON	OFF
	Mode: Action	Save setting	s to Action Mode	Mode only in "User" can	N/A
Save Settings	Mode: Racing	Save setting	s to Racing Mode	save mode	
to			s to Sports Mode	(Action~Sports).	
	Main Source	Ex. HDMI1	·	N/A	N/A
	Resolution	Ex. 1920x108	0.		
Information	H/V Frequency	Ex. H: 56 KHz, V: 60 Hz.			
	Mode	If FreeSync is "On" can show (Normal/FreeSync Premium) mode.			
	Series Number	(Depend on sku requirement).			
	Reset All Settings		eset, will show "Please Wait" I reset system.		
	Exit Exit Information Menu.		ion Menu.		

## 1.3 Modes menu function definition.

Mode	Contrast OSD value (slope	Brightness OSD value (Percent of	Damark	
IVIC	ode	ratio for the luma gamma)	Panel brightness)	Remark



Action	50 (1)	50	
Racing	50 (1)	60	
Sports	50 (1)	25	
User	N/A	N/A	
Standard	50 (1)	70	Default
ECO	50 (1)	44 (61%)	
Graphic	60 (1.04)	97 (98%)	
HDR	50(1)	100(100%)	

1.4 Blue Light function definition

	Tribido Eight tanodori dominació					
Mode	Color Coordinates (CIE 1931, White x & White y)	Percent of Panel Max. brightness	Brightness OSD value	Contrast OSD value (Slope ratio for the gamma)		
80%	0.32±0.03, 0.35±0.03	80%	80	50 (1)		
70%	0.33±0.03, 0.36±0.03	75%	75	50 (1)		
60%	0.34±0.03, 0.38±0.03	65%	65	50 (1)		
50%	0.35±0.03, 0.40±0.03	60%	60	50 1)		

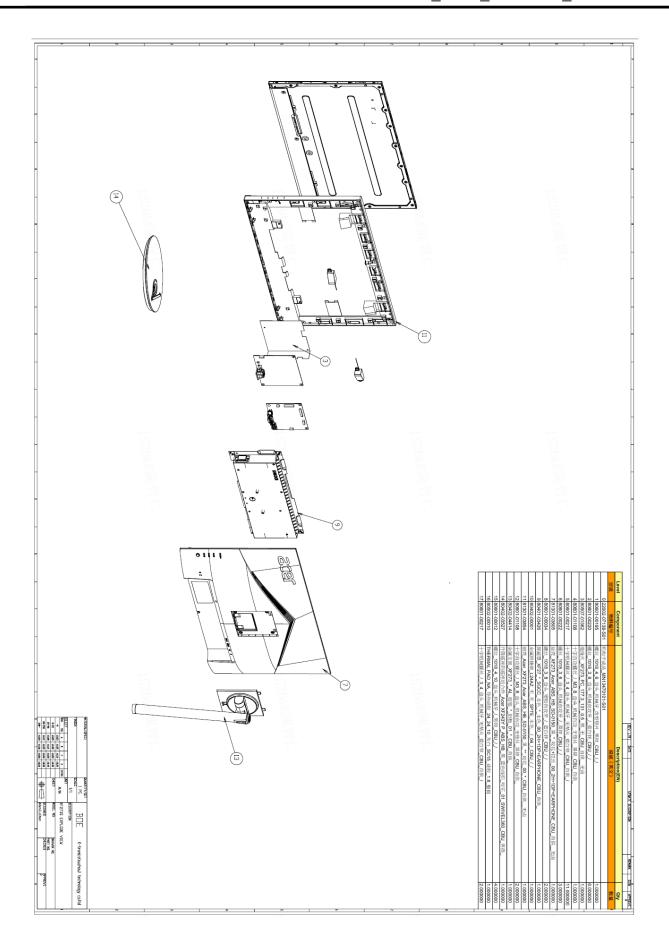
1.5 HDR function definition(HDMI-1)

	HDR default color setting
ACM	Off
Gamma	2.2
Contrast	50
BlueLight	Off
Color Temp	Warm
Brightness	100
Super Sharpness	On
Over Drive	Normal



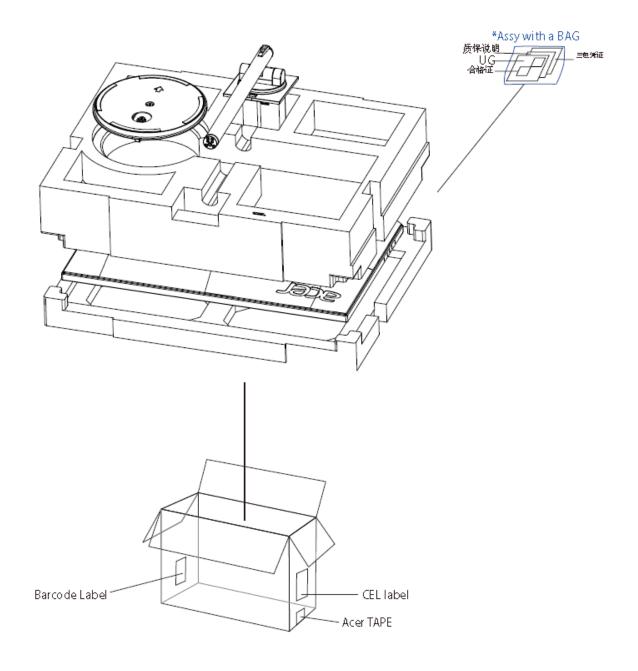
3. Exploded Diagram







# 3.2 Packing Exploded Diagram





## 4. Assembly and Disassembly SOP

4.1 Assembly procedures

Preparation before assemble

- 1.Clean the room for work
- 2.Identify the area for material
- 3. Prepare the implement, equipments, materials as bellow:
- 1) Press-fixture
- 2) working table
- 3) Screw-driver
- 4) knife\*1
- 5) glove
- 6) cleaning cloth
- 7) ESD protection
- 1. After unpacking, put the machine flat on the disassembly table.



2. Remove the screw that locks the back cover.





3. Remove the back cover and remove the function keys from the back cover.



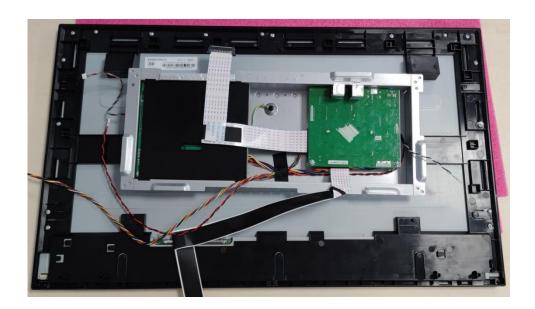


4. Tear off the acetic acid tape of the fixed wire and isolation cover, unplug the backlight line &FFC line (press the clamping tongue on both sides, pull out LVDS line upward), then tear off the aluminum foil of the fixed wire and isolation cover, cancel the speaker, and unplug the speaker line.



5. Open the isolation cover, disassemble the main board, power board screws and interface screws

of the isolation cover, and remove the foam and mylar.



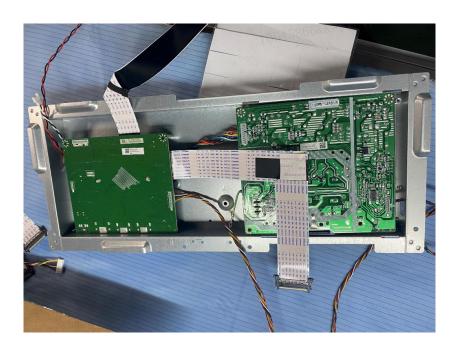
6. Remove screws from the middle frame.



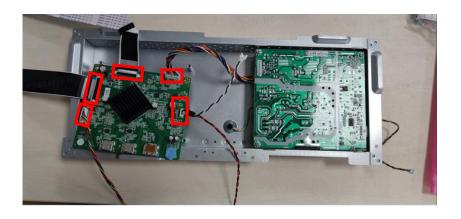
7. Remove screw \*6 and ground screw \*1 from the fixing plate, and remove conductive foam,



aluminum foil and adhesive tape.



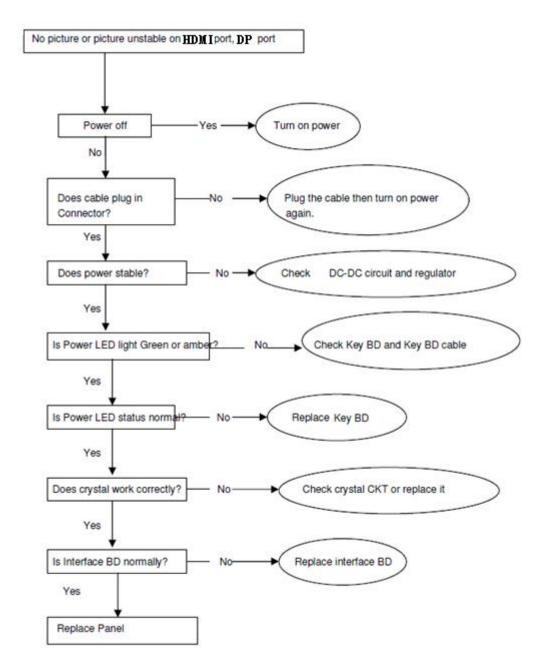
8. Remove the main board and power board, and unplug the function key line &FFC line \*2& speaker line & main board end connection line.



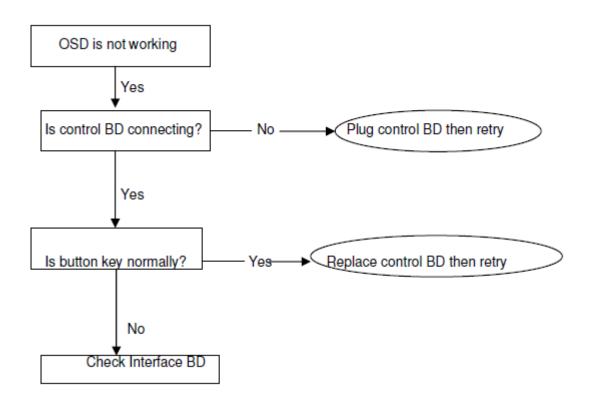
# 5. Troubleshooting



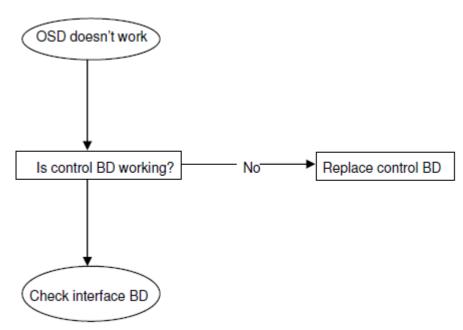
5.1 No Display or display is unstable on analog or digital port:





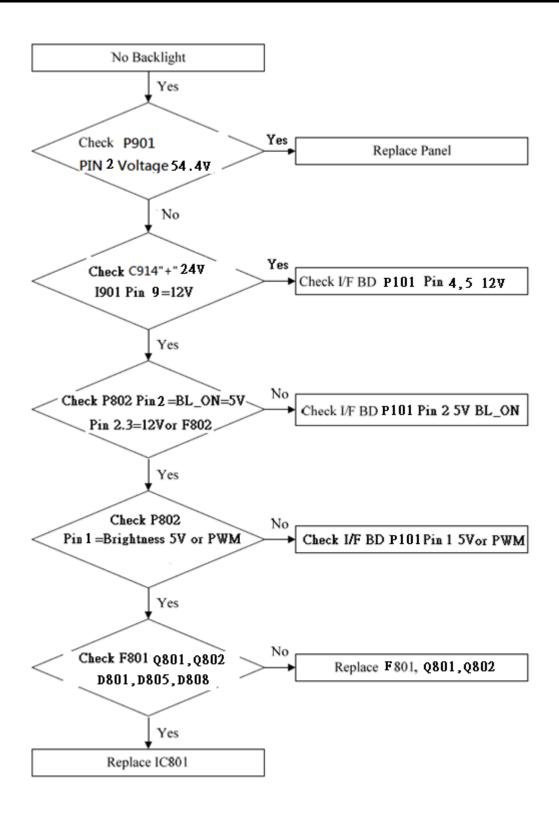


## 5.3 OSD function



5.4 LED Backlight Driver no and Power work troubleshooting





# **6. Firmware and EDID Upgrade Process**



## **6.1 Setting the environment**

#### 6.1.1 MStar ISP driver install

We need below item to finished Mstar ISP driver install:

- a. PC with XP/win7/win8 system
- b. USB cable x1
- c. ISP BD driver,
- CDM 2.02.04.for.XP.exe (for XP system)
- CDM20600\_Win7\_64 (for win7 64bit system)
- CDM\_Setup.vista.rar (for win7 32bit system)

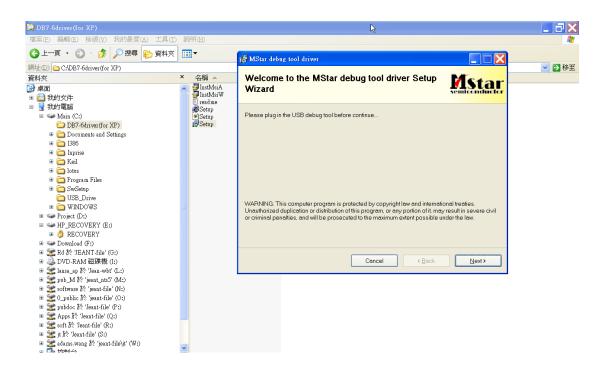
#### d. USB ISP BD



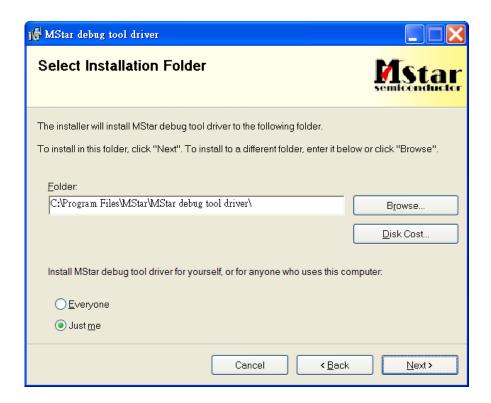
Step 1 : Select folder to install ISP BD driver.(Double click CDMxxx.exe depend on which



## windows system you used)



Step 2: Click "NEXT" to continue

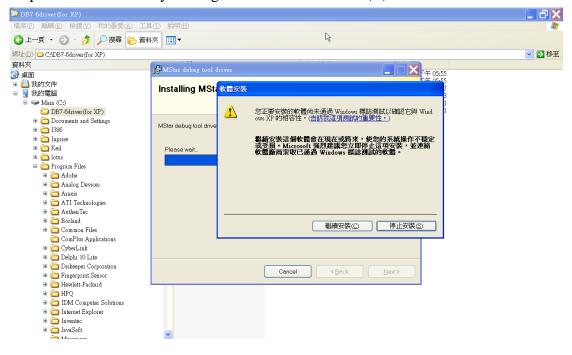


Step 3: Click "NEXT" to continue



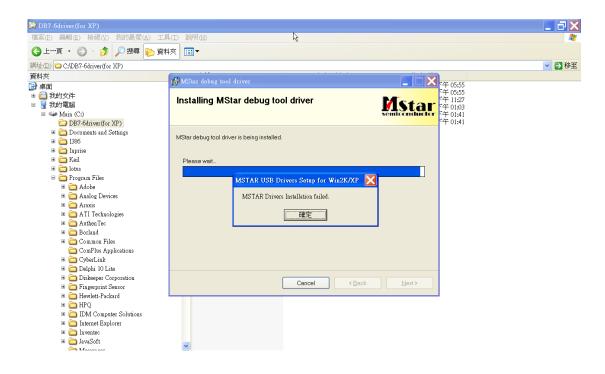


Step 4: Don't care worry message and click "Continue (C)" to continue





Step 5: Click "Sure" button to continue



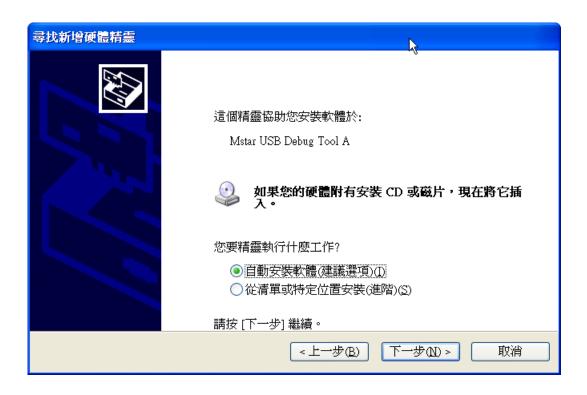
#### Plug in USB

Step 6: Select "(Y)" and click "NEXT" to continue

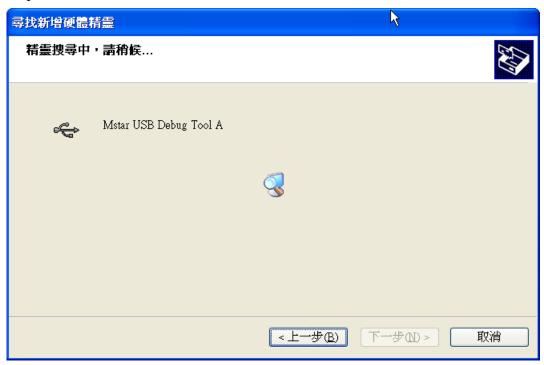


Step 7: click "NEXT" to continue





Step 8:



Step 9: Don't care worry message and click "Continue (C)" to continue.





Step 10:

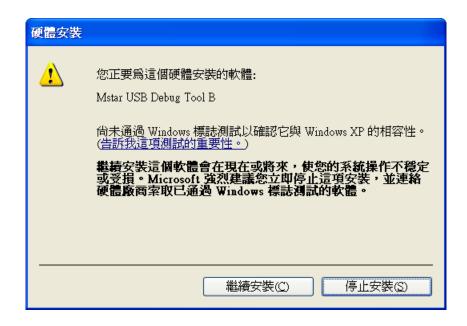


Step 11:





Step 12: Don't care worry message and click "Continue (C)" to continue.



Step 13:



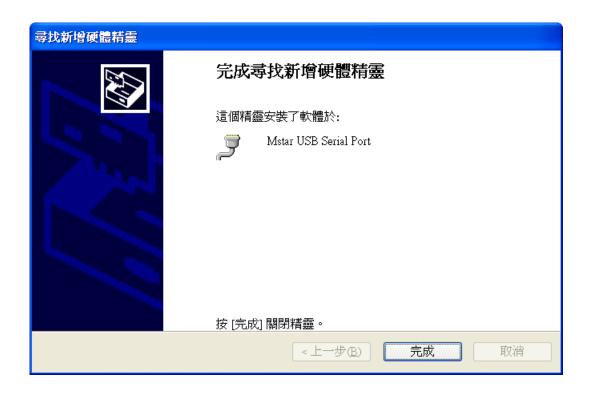


Step 14: Don't care worry message and click "Continue (C)" to continue.

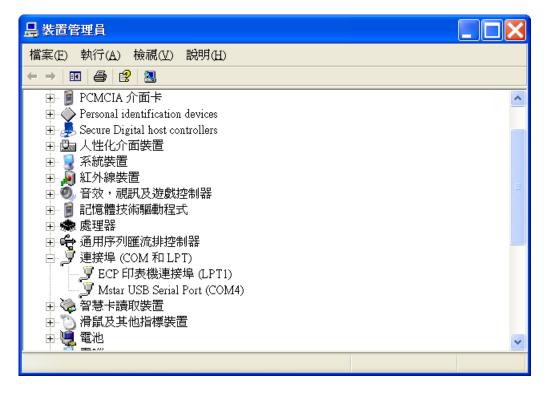


Step 15:





Step 16: Open System Manager to check device "Mstar USB Serial Port" is install ok





#### 6.1.2 Hardware configuration:

Step 1: Prepare following items

- a. PC with XP/win7/win8 system
- b. USB cable x1
- c. D-sub cable x2
- d. Power cord x1
- e. USB ISP BD



Step 2: Connect the cables to PC, Monitor and USB ISP BD

- a. Connect USB cable between PC and USB ISP BD
- b. Connect one HDMI cable between Monitor and USB ISP BD
- c. Connect the power cord firmly to the Monitor and the electrical outlet

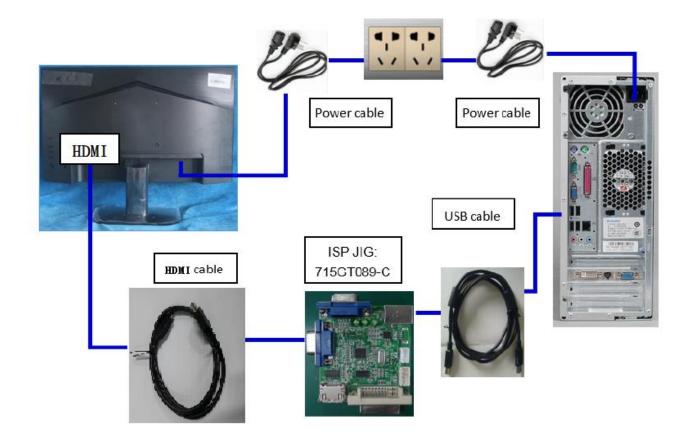




# **6.2 Firmware Upgrade Procedure:**

# Step 1:Connect to PC and monitor

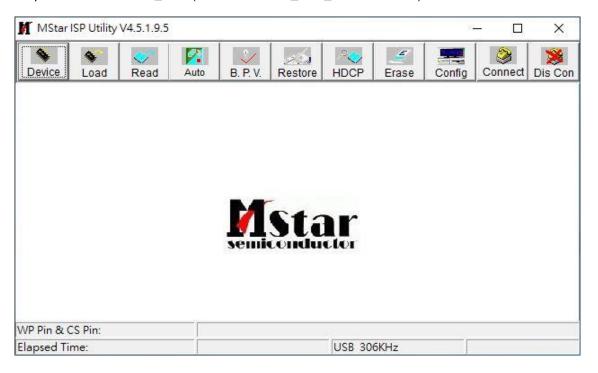
Connect HDMI and USB cable to the PCB as shown and then connect the other side of the HDMI and USB cable to monitor and PC accordingly. You need to install the driver (DB07-6) of the PCB so PC can connect this device. Make sure the switch is in the position as shown.



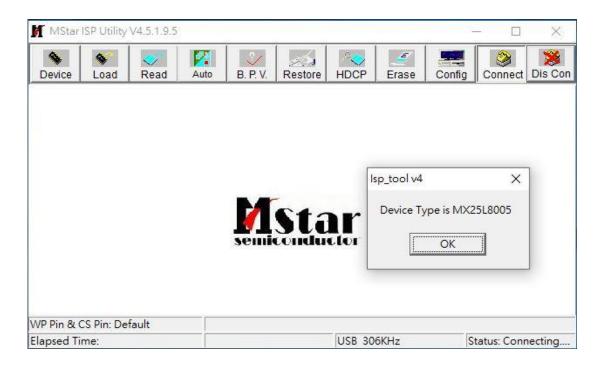




Step 2: Execute file ISP\_Tool (double click ISP\_Tool\_V4.5.1.9.5.exe)

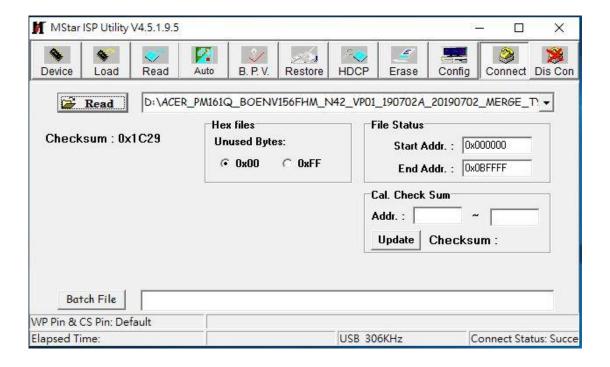


Step 3: Click "Conntect" Icon and show as below

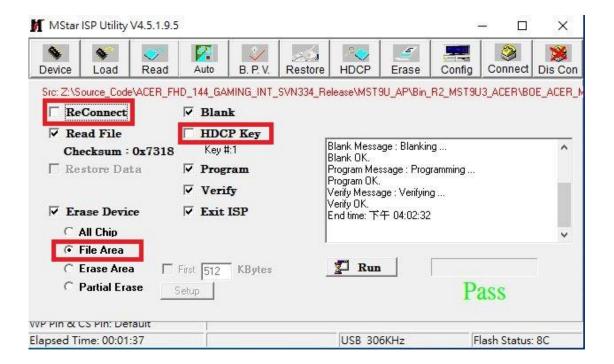




Step 4: Click "Read" Icon and select download file \*\*\*.bin as below



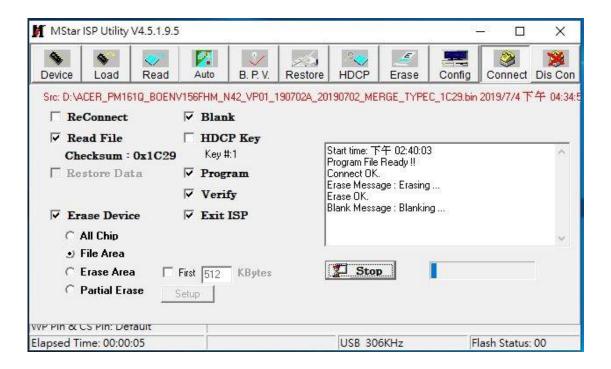
Step 5: Click "Auto" Icon and show as below



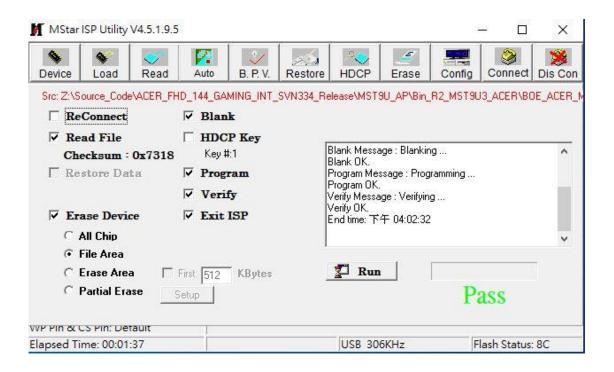


Step 6: Click "Run" button and show as below

(If fail please check Icon "Connect" is on and click "Run" button to download again)



Step 7: Download ok.





# **6.3 Writing EDID Process**

# 6.3.1 Hardware configuration:

Step 1: Prepare following items

- a. PC with XP system x1
- b. Install DLPortIO.exe
- c. HDMI cable x1
- d. Printer to D-sub BD x1
- E.USB cable x1



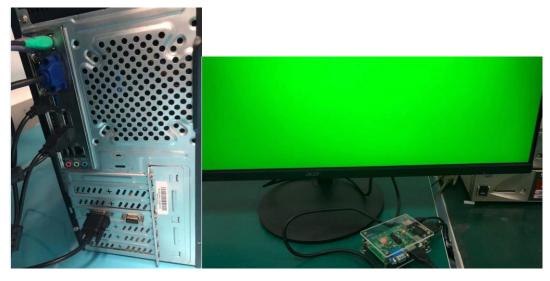






Step 2: Connect the Printer to D-sub BD to PC, Monitor and D-sub to HDMI cable

- a. Connect Printer port between PC and Printer to D-sub BD
- b. Connect one D-sub to HDMI cable between Monitor and Printer to D-sub BD



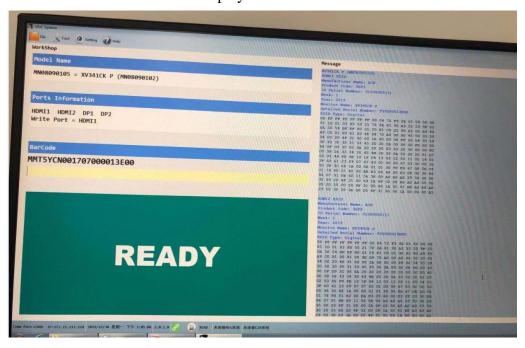
# **6.3.2Prepare:**

Before we are going to EDID programming, we have to set the Monitor into Burnin mode. And Connect D-sub to HDMI cable to the Monitor.



# **6.3.3 EDID programming procedure:**

Step 1: Double click file name <u>DDC System-V2.0.2.0.exe</u> to open it. Load Acer Model "xxxxxxx" display 'READY'.



Step 2: Press the 'RUN' button to load the EDID file and check, when write EDID. download EDID ,It is completed until function display 'PASS'.



#### 6.4 Appedix1-Install driver for PC with Win7 OS:

\*\*Note: Before installing driver, please make sure the USB cable is connected well to PC and Mstar USB

ISP board

Step1. Un-zip "Driver for Win7-32 bites" or "Driver for Win7-64 bites" and save it in your PC

\*\*Note: Driver vs PC

Driver	PC
Driver for Win7-32 bit	PC with 32 bit Win7 system
Driver for Win7-64 bit	PC with 64 bit Win7 system
Driver for Win8-32 bit	PC with 32 bit Win8 system
Driver for Win8-64 bit	PC with 64 bit Win8 system

Step2. Enter "Control Panel" and select "System & Security"

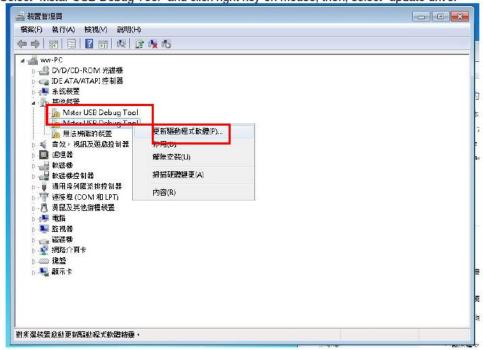


Step3. Select "Device Manager"





Step4. Select "Mstar USB Debug Tool "and click right key on mouse, then, select "update driver"

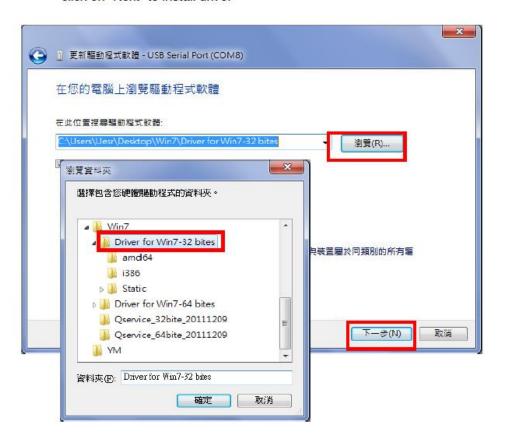


#### Step5. Select manual update

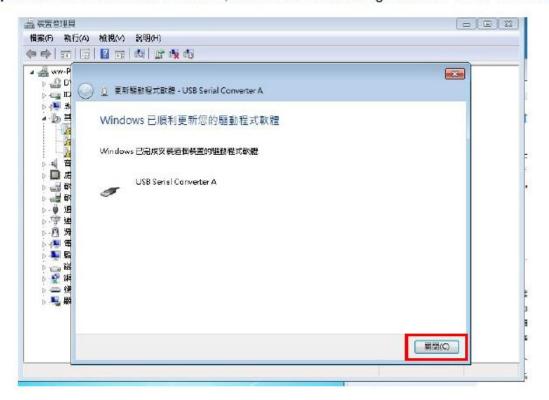




Step6. Click on "Browse" and select "Driver for Win7-32 bites" or "Driver for Win7-64 bites, then, click on "Next" to install driver

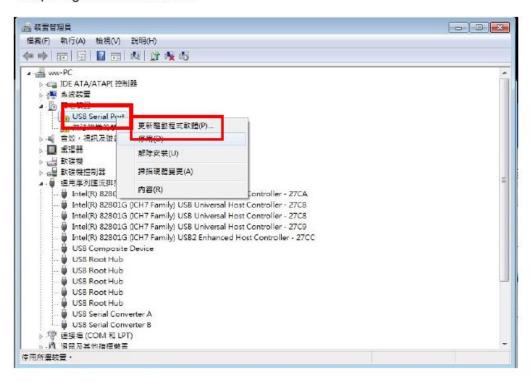


Step7. After the installation is finished, it will show as following. Click on "Close" to close screen

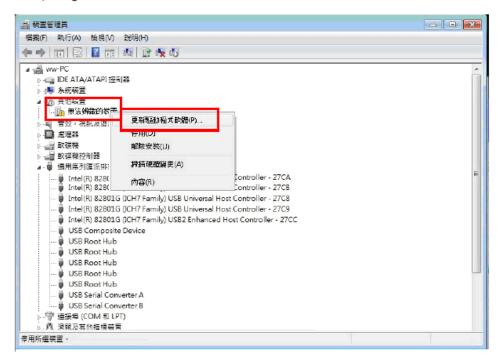




Step8. Select "USB Serial Port "and click right key on mouse to select "update driver", then, do Step 5~ Step.7 again to install driver.



Step9. Select "Unknown Device" and click right key on mouse to select "update driver", then, do Step 5~ Step.7 again to install driver.



**Step10.** After the driver is installed, you can click on "QService\_32" or "QService\_64" to run the program.



#### 7. FRU List

This chapter gives you the FRU (Field Replaceable Unit) listing in global configurations of ACER XV340CK P. Refer to this chapter whenever ordering for parts to repair or for RMA (Return Merchandise Authorization).

Please note that WHEN ORDERING FRU PARTS, you should c heck the most up-to-date information available on your regional web or channel. For whatever reasons a part number change is made, it will not be noted on the printed Service Guide. For AUTHORIZED SERVICE PROVIDERS, your office may have a DIFFERENT part number code from those given in the FRU list of this printed Service Guide. You MUST use the local FRU list provided by your regional office to order FRU parts for repair and service of customer machines

NOTE: To scrap or to return the defective parts, you should follow the local government ordinance or regulations on how to dispose it properly, or follow the rules set by your regional office on how to return it

Category	Part Name	Description	Part No.	ACER PART NO.
	LED Panel BOE 27" FHD	BOEB270WU3 _MV270FHB-NF0 _Acer_250nits_不用	24118-03359-S01	
1		ES8.0& TCO8.0		
	MAIN BOARD	2H+2DP+USB(1U2D) +EAR+SPK_165*135 mm_4L	21311-01764-S01	
	CONTROL BOARD	TACT_100.4*22_2L_ ORG/BLUE ORG/BLUE_/_50*8.8_ 2L_ACER	21202-00911-S01 2120A-00117-S01	
SEASON OF THE PROPERTY OF THE	CABLE - PANEL TO MAIN BOARD	FFC_Pitch0.5_41P_434 mm_105C_CON*1_lock *1_Au_SPEED_CBU_	61001-04545 61001-04546	
The statement of the st		复合铝箔_Green FFC_Pitch0.5_51P_297 mm_105C_CON*1_lock *1_Au_SPEED_CBU_ 复合铝箔_Green		
108±2	CABLE - CONTROL	FFC_Pitch1.0_6P_140m	61001-03258	
195.2 元分別	BOARD TO LED	m_105C_UN-CON_unl	61003-03007	
100 mm representation of the second s	BOARD	ock_Sn_群力_CBU/		
PINCELES SERRY		H/W_H/H_2_/_8P/8P_1 .25/2.0_550mm_UL106 1 AWG28_/_/_CBU/		
	POWER CORD EU	Power Cord_三 Pin 弯	61002-00001	
1800**		头_C13_1.5M_黑_否_		
		欧韩俄		
		_STD_RoHS_I-SHEN G		
		Power Cord_三 Pin 弯		
		头_C13_1.5M_黑_否_		
		英国		
		_STD_RoHS_I-SHEN G		



A DARGEMENT OF ALACOM PARTITION AND	Danie Baard	Т	04004 00007 004
10 2 A 11/20 203	Power Board	AC 品字 C13_LD7790_OB336 5C_PQ3220_170*145 _1L_12V/30V	21204-00887-S01
	Main Frame	34 MNT 金属壳 SGCC	80401-02424
	BEZEL	34 MNT 塑膠前殼 ABS 黑色咬花	81301-02968
	BACK COVER	34 MNT 塑膠後殼 ABS 黑色咬花	81301-02969
	NECK	34 Neck 塑膠+呂鑄 件 黑色	81302-03805
	STAND BASE	34 stand 塑膠 +SGCC 黑色	81302-03806

