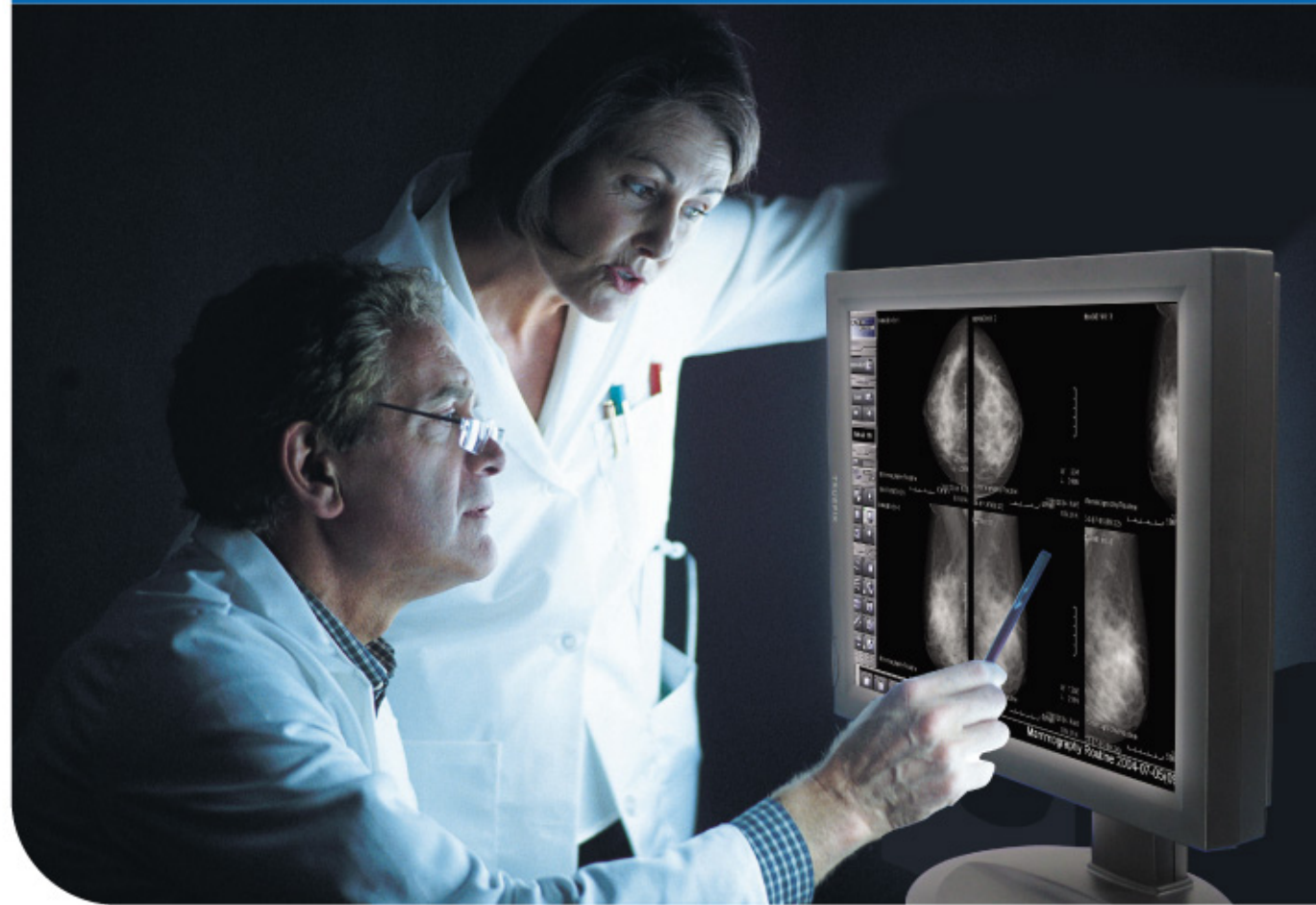




**TRUEPIX**  
HIGH QUALITY DISPLAY

[www.dooyangsystem.com](http://www.dooyangsystem.com)



PRODUCT MANUAL  
**TRUEPIX Series**

**TX-2M | TX-3M | TX-5M**



# Timing Table

Display Resolution (Graphic Card)	Monitor	Landscape	Portrait	H.Freq.(KHz)	V.Freq.(Hz)	Dot Clock(MHz)
	TX-2M	1600 x 1200	1200 x 1600	75,0	60	129
	TX-3M	2048 x 1536	1536 x 2048	96,72	60	130
	TX-5M	2560 x 2048	2048 x 2560	123,9	60	166,5

## FCC Information

This equipment has been tested and found to comply with limits for a class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment can generate, use, and radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause unacceptable interference to radio and television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- \*Reorient or relocate the receiving antenna.
- \*Increase the separation between the equipment and receiver.
- \*Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- \*Consult the dealer or an experienced Radio/TV technician for help.

### Caution

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



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This mark used to inform the power switch ON/OFF.



This mark used to inform the AC/DC power connector.



This mark used to inform the users of possible causes that could inflict the injury, death, or property damage to the patients.



Avoid placing the monitor, or any other heavy object, on the power cord to prevent fire or electrical shock from damage to the power cord.



Do not expose the monitor to rain, excessive moisture, or dust to avoid fire or shock hazard.



Do not cover the slots or openings of the monitor for proper heat dissipation. Always put the monitor in a place where there is a adequate ventilation.



Avoid placing the monitor against a bright background or where sunlight or other light source may reflect on the area of the monitor. Place the monitor just below eye level.



Refrain from giving the shock or scratch to the screen, as screen is fragile.



The operator is not to touch the following part and the patient simultaneously USB connector, DVI-D connector .



## TRUEPIX Series

**More than 90%** Of hospital and clinics in the world are still using film to check X-Ray picture.

But there are a lot of medical displays which have some different features. It is too complicate for hospitals and clinics who want to use medical display system instead of film to select medical display.

In this Situation, **TRUEPIX** system which cover minimum medical standards give you the best fit system for first Investment to medical display.



## Monitor



TX-2M Monitor



TX-3M Monitor



TXM-5M Monitor

## Accessory



Adapter



Power cord



DVI-D Cable



User Manual

## Graphi Board



Graphic Board



CD Dirver



Manual

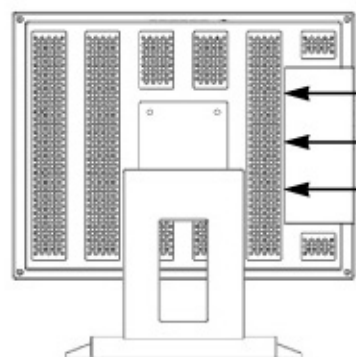


## Installation

Before you unpack your monitor, prepare a suitable workspace. You need a stable and level surface near a grounded wall outlet in an area which is relatively free of glare from sunlight or other source of bright light. The monitor is cooled by natural convection. For optimum performance, do not block the cooling vents.

To install the monitor to your host system, please follow the steps as given below:

1. Use the DVI-D cable that provides digital connection to the DVI-D connection on the VGA controller card.
2. Connect the DC power cord to the DC power connector on the monitor.
3. Then turn the computer on and then the monitor.
4. TX-2M/3M/5M monitor will begin to work automatically.
5. If the monitor still does not function properly, please consult with the purchased place.



Power connector DC in  
USB Hub In & Out  
DVI-D Connector

## DDC

To make your installation easier, the monitor is able to Plug and Play with your system if your system also supports DDC protocol. The DDC (Display Data Channel) is a communication protocol through which the monitor automatically informs the host system about its capabilities, for example, supported resolutions and corresponding timing. The monitor supports DDC1 and DDC2B standard.



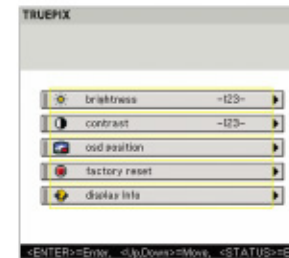
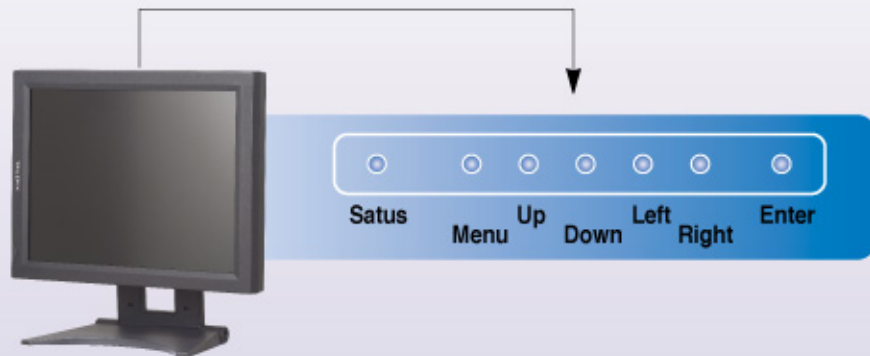
TRUEPIX | TX-2M Monitor



## Front Panel and Top OSD Controls

### ■ TX-2M

- Power Switch : To turn ON or OFF the power.
- Status : Exit OSD menu completely.
- Menu : Active OSD menu. (Press button for 5 seconds)
- Enter : Enter sub menu.
- Up : To enter OSD menu then can use as moving up in the OSD menu.
- Down : To enter OSD menu then can use as moving down in the OSD menu.
- Left : To decrease the value of the parameter in the OSD you have selected for adjustment.
- Right : To increase the value of the parameter in the OSD you have selected for adjustment.

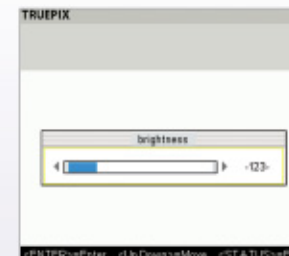


Push **menu** button for five seconds then pop up the OSD screen



Select menu by Push **Enter** button.

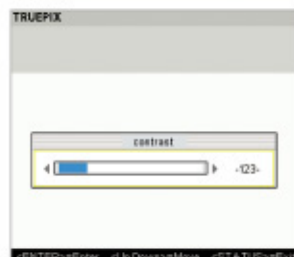
Push Up or Down button to select between Brightness, Contrast, OSD Position, Factory reset, Display info then push Enter button to enter sub menu



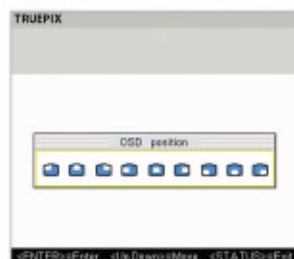
Enter **Brightness** menu then push **Left** or **Right** button to adjust



Push **Status** button  
Exit menu



Enter **Contrast** menu then push **Left** or **Right** button to adjust



Enter **OSD Position** menu then push **Left** or **Right** button to adjust



Enter **Factory reset** menu then push **Right** button to reset



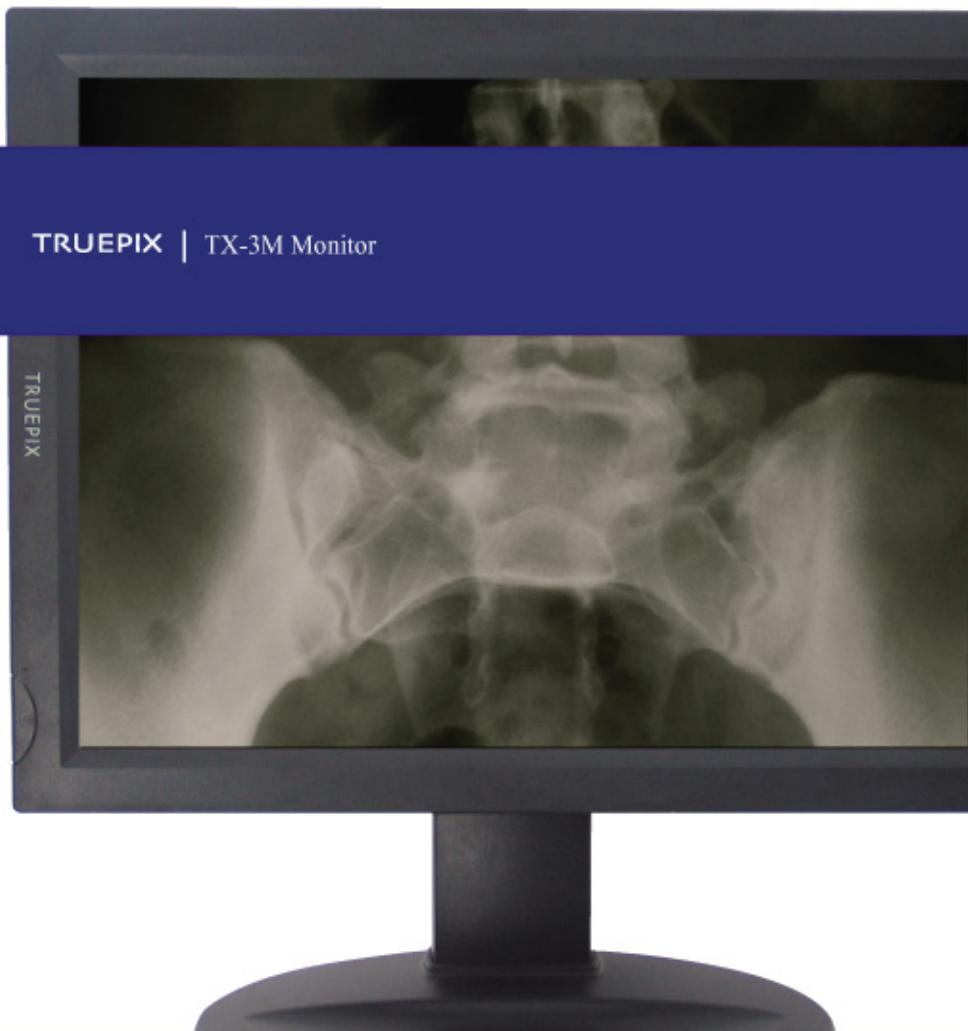
Enter **Display info** menu then push **Status** button to exit

TX-2M	LCD Panel	21.3" Monochrome TFT Panel
	Type	Active Matrix
	Resolution	1600(H)×1200(V)
	Display Gray scale	256 gray scale per 1 sub – pixel(8-bit)
	Response Time	30 ms
	Viewing Angle(L/R/U/D)	85/85/85/85
	Video	TMDS(Panel Link), Digital 165Mhz × 1
Input Signal	Sync	20.3 ~ 4.0 Vp-p separated sync
	Input Impedance	Standard 50ohm DVI
Scanning Frequency	Horizontal	75 KHz
	Vertical	60 Hz
Display Size	H x V	432.02 mm × 324.0 mm
Brightness, Contrast Ratio	Brightness	1000 cd/m2
	Contrast Ratio	700 : 1
Signal Input Connector	Video	DVI-D connector
Other Connector	4 USB Hub	USB connector
Power Source	Display Monitor	6.67A, 12Vdc
	AC/DC Adapter	Input:1.0A, 100~240V, 50~60Hz Output:6.67A, 12Vdc
Cabinet	Desk top Stand	505mm(W) × 505mm(H) × 81mm(D)
	Free Mount	505mm(W) × 398mm(H) × 81mm(D)
Weight	Desktop Stand	10.83 Kg
	Free Mount	8.21 Kg
Compatibility (Video Card)	Single Portrait	1200 × 1600
	Single Landscape	1600 × 1200
Environmental Consideration	Operating	Temperature : 0℃ to 40℃ / 32°F to 104°F
		Humidity : 10% to 80%
	Storage	Temperature : -20℃ to 60℃ / -40°F to 104°F
		Humidity : 5% to 95%





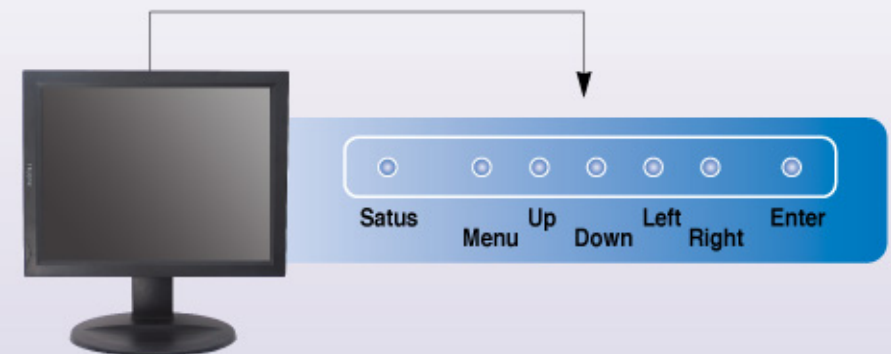
TRUEPIX | TX-3M Monitor

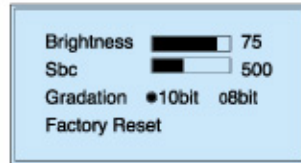


## Front Panel and Top OSD Controls

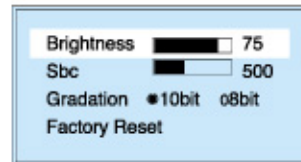
### ■ TX-3M

- Power Switch : To turn ON or OFF the power.
- Status : Exit OSD menu completely. Identify status of the monitor.
- Menu : Active OSD menu.(Press button for 10 seconds)
- Enter : Enter sub menu.
- Up : To enter OSD menu then can use as moving up in the OSD menu.
- Down : To enter OSD menu then can use as moving down in the OSD menu.
- Left : To decrease the value of the parameter in the OSD you have selected for adjustment.
- Right : To increase the value of the parameter in the OSD you have selected for adjustment.

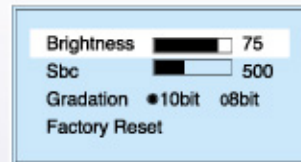




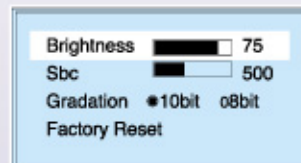
Push status button then pop up the OSD screen to identify status of monitor.



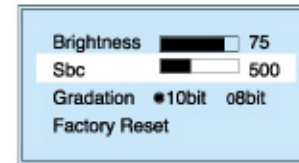
Push menu button for five seconds then pop up the active OSD screen.



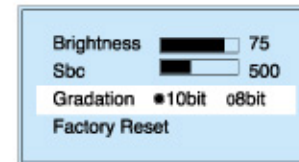
Select menu by push enter button.  
Push up or down button to select between Brightness, Sbc, Gradation, Factory reset then push enter button to enter sub menu.



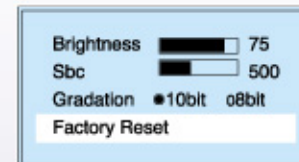
Enter brightness menu then push left or right button to adjust.



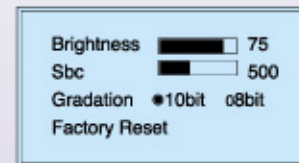
Enter Sbc menu then push left or right button to adjust.  
If Sbc begin to work, brightness value will be unnotice.



Enter Gradation menu then push left or right button to select 10bit or 8bit.



Enter Factory Reset menu then push enter button to reset.



Push status button to exit.

TX-3M	LCD Panel	21.3" Monochrome TFT Panel
	Type	Active Matrix
	Resolution	2048(H) x 1536(V)
	Display Gray scale	256 gray scale per 1 sub - pixel(8-bit)
	Response Time	32 ms
	Viewing Angle(L/R/U/D)	85/85/85/85
	Video	TMDS(Panel Link), Digital 165Mhz x 1
Input Signal	Sync	20.3 ~ 4.0 Vp-p separated sync
	Input Impedance	Standard 50ohm DVI
Scanning Frequency	Horizontal	96.72 KHz
	Vertical	60 Hz
Display Size	H x V	433.152 mm x 324.864 mm
Brightness, Contrast Ratio	Brightness	800 cd/m2
	Contrast Ratio	700 : 1
Signal Input Connector	Video	DVI-D connector
Power Source	Display Monitor	6.67A, 12Vdc
	AC/DC Adapter	Input:1.0A, 100~240V, 50~60Hz Output:6.67A, 12Vdc
Cabinet	Desk top Stand	505mm(W) x 505mm(H) x 81mm(D)
	Free Mount	505mm(W) x 505mm(H) x 81mm(D)
Weight	Desktop Stand	10.83 Kg
	Free Mount	8.21 Kg
Compatibility (Video Card)	Single Portrait	1536 x 2048
	Single Landscape	2048 x 1536
Environmental Consideration	Operating	Temperature : 0°C to 40°C / 32°F to 104°F Humidity : 10% to 80%
	Storage	Temperature : -20°C to 60°C / -40°F to 104°F Humidity : 5% to 95%



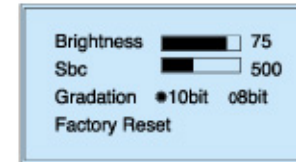
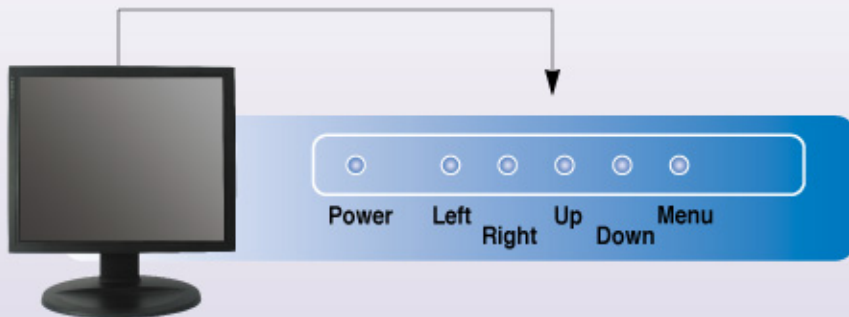
TRUEPIX | TX-5M Monitor



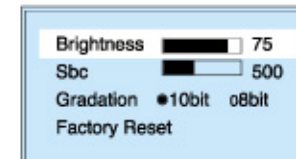
## Front Panel and Top OSD Controls

### ■ TX-5M

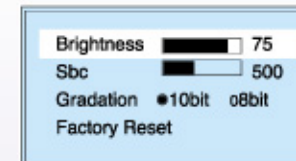
- Power Switch : To turn ON or OFF the power.
- Menu : Active OSD menu or exit OSD menu. (Press button for 5 seconds)
- Left : To decrease the value of the parameter in the OSD you have selected for adjustment.
- Right : To increase the value of the parameter in the OSD you have selected for adjustment.
- Up : To enter OSD menu then can use as moving up in the OSD menu.
- Down : To enter OSD menu then can use as moving down in the OSD menu.



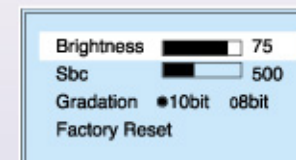
Push menu button then pop up the OSD screen to identify status of monitor.



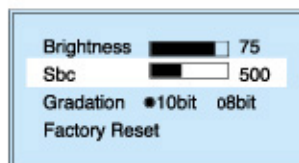
Push menu button for five seconds then pop up the active OSD screen.



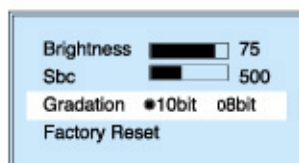
Push up or down button to select between Brightness, Sbc, Gradation, Factory reset.



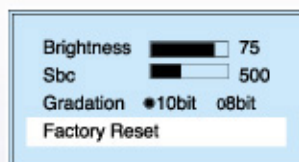
Enter brightness menu then push left or right button to adjust.



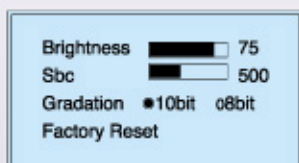
Enter Sbc menu then push left or right button to adjust.  
If Sbc begin to work, brightness value will be unnotice.



Enter Gradation menu then push left or right button to select 10bit or 8bit.



Enter Factory Reset menu then push left or right button to reset.



Push menu button to exit.

TX-5M	LCD Panel	20.1" Monochrome TFT Panel
	Type	Active Matrix
	Resolution	2560(H) x 2048(V)
	Display Gray scale	256 gray scale per 1 sub - pixel(8-bit)
	Response Time	30 ms
	Viewing Angle(L/R/U/D)	85/85/85/85
	Video	TMDS(Panel Link), Digital 165Mhz x 1
Input Signal	Sync	20.3 ~ 4.0 Vp-p separated sync
	Input Impedance	Standard 50ohm DVI
Scanning Frequency	Horizontal	123.9 KHz
	Vertical	60 Hz
Display Size	H x V	399,36 mm x 319,49 mm
Brightness, Contrast Ratio	Brightness	850 cd/m2
	Contrast Ratio	600 : 1
Signal Input Connector	Video	DVI-D connector
Power Source	Display Monitor	6.67A, 12Vdc
	AC/DC Adapter	Input:1.0A, 100~240V, 50~60Hz Output:6.67A, 12Vdc
Cabinet	Desk top Stand	445mm(W) x 376mm(H) x 90mm(D)
	Free Mount	445mm(W) x 365mm(H) x 90mm(D)
Weight	Desktop Stand	9.8 Kg
	Free Mount	7.2 Kg
Compatibility (Video Card)	Single Portrait	2560 x 2048
	Single Landscape	2048 x 2560
Environmental Consideration	Operating	Temperature : 0℃ to 40℃ / 32°F to 104°F
		Humidity : 10% to 80%
	Storage	Temperature : -20℃ to 60℃ / -40°F to 104°F
		Humidity : 5% to 95%