

SPECIFICATION

(●) Preliminary Specification
() Final Specification

Title	19" TFT LCD TOUCH MONITOR
-------	---------------------------

BUYER NAME	TETERONIK
MODEL NAME	

SUPPLIER	YOUNG DISPLAY
MODEL NAME	YI190PT-D-C01

SIGNATURE	DATE

Please return 1 copy for our confirmation with your signature and comments.

APPROVED BY	DATE
REVIEWED BY	DATE
PREPARED BY	DATE

Product Engineering Dept.

Table of Contents

	ITEM	Page
-	COVER	1
-	TABLE OF CONTENTS	2
-	RECORD of REVISION	3
Chapter 1	INTRODUCTION	
	1-1 GENERAL DESCRIPTION	4
	1-2 GENERAL CHARACTERISTICS	4
	1-3 MAXIMUM RATINGS (S24/J24)	5
	1-4 OPTICAL SPECIFICATIONS	5
Chapter 2	INSTALLATION AND SETUP	
	2-1 UNPACKING YOUR TOUCH MONITOR	6
	2-2 IN/OUTPUT TERMINAL FORMATIONS	7
	2-3 INSTALLING THE DRIVER SOFTWARE AND CALIBRATION	7
	2-3.1 INSTALLING THE DRIVER SOFTWARE	7
	2-3.2 CALIBRATION / ALIGNMENT	8
Chapter 3	OPERATION	
	3-1 ABOUT TOUCH MONITOR ADJUSTMENT	9
	3-1.1 REAR PANEL CONTROLS	9
	3-1.2 INSTRUCTION OF OSD MENU OPERATING	10
	3-2 POWER MANAGEMENT SYSTEM	13
Chapter 4	TROUBLESHOOTING	14
Appendix A	TOUCH MONITOR SAFETY	15
	CARE AND HANDLING OF YOUR TOUCH MONITOR	15
Appendix B	INSTALLING THE MONITOR BY LUGS FOR PANEL MOUNTING	16
Appendix C	NOTATION OF LOT NUMBER	17
	HOW TO CONTACT US	17
	MECHANICAL DIMENSIONS	18

Record of Revision

Data and version	Description
2010-10-15	CCFL backlight : 4Lamp -> 2Lamp Brightness(cd/m2) : 300 -> 250 Contrast : 800 -> 1,000 Video controller : 2621 -> 5621 Additional video function : DVI input

Chapter 1

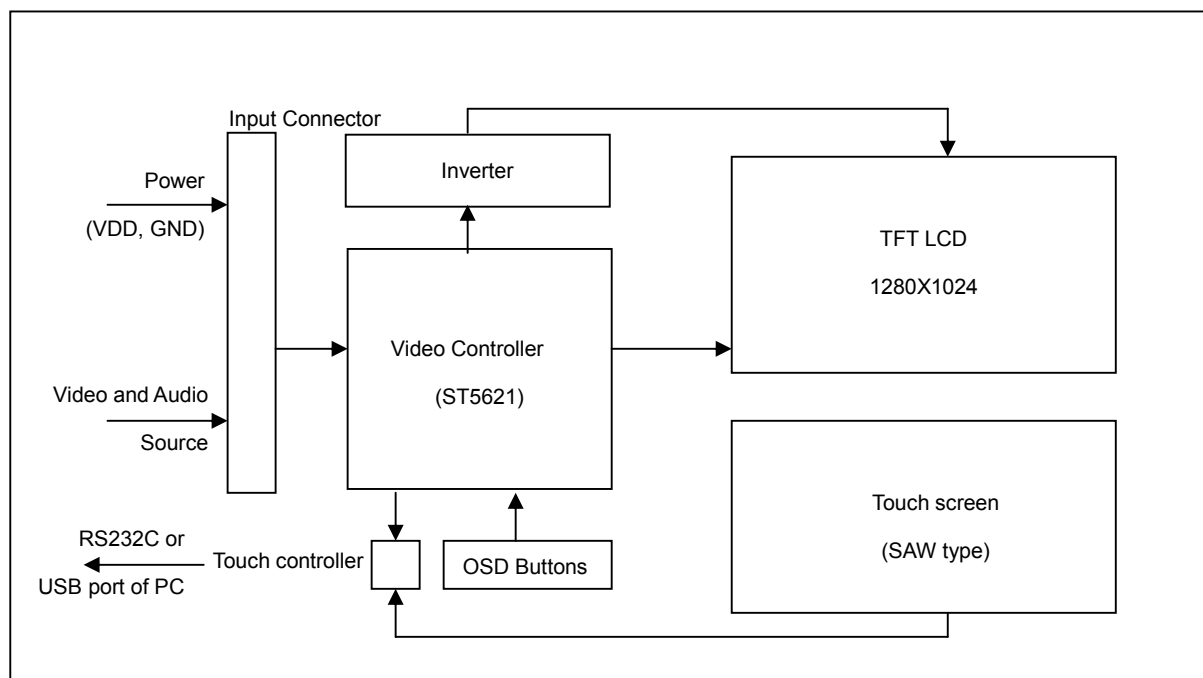
INTRODUCTION

1-1 General Description

The YOUNG DISPLAY model YI190PT-D-C01 is a TFT LCD touch monitor for industrial. This product is used to be mounted a some fixture like a door, cabinets and etc.. All functions can be operated by OSD buttons of rear side. Also this product is providing OSD menu of many languages, so anyone can operate it easily,

This product is providing RS232C and USB port for touch controller and included the SAW type touch screen of ELO cooperation.

The housing of front side is made of anodized aluminum-6061 by black color. It's very strong and polish.



1-2 General Characteristics

- 1) Display size : 19" diagonal
- 2) Resolution : 1280 X RGB X 1024 dots.
- 3) Brightness : 250 cd/m²

- 4) Contrast ratio : 1,000 : 1
- 5) Video input : Analog RGB / DVI (1280X1024 @60Hz)
- 6) Touch screen : SAW type.
- 7) Touch control : RS232C and USB combo type.
- 8) The type of Mounting : Panel mounting.
- 9) Power : DC12V (3.5A)
- 10) Dimension (WXHXD) : 462 X 385 X 65.3 mm
- 11) Weight : 11.5KGS(NET)

1-3 Maximum Ratings

The following are maximum values which, if exceeded, may cause faulty operation or damage to unit.

Parameter	Values			Unit	Note
	Min	Typ	Max		
Power input Voltage	+11.5	+12.0	+13.0	Vdc	at 25 °C
Operating Temperature	0	-	+50	°C	
Storage Temperature	-20	-	+70	°C	

1-4 Optical Specifications

Optical characteristics are determined after the unit has been “ON” and stable for approximately 30 minutes in a dark environment at 25°C. The values specified are at an approximate distance 50 cm from the LCD surface at a viewing angle of Φ and θ equal to 0°.

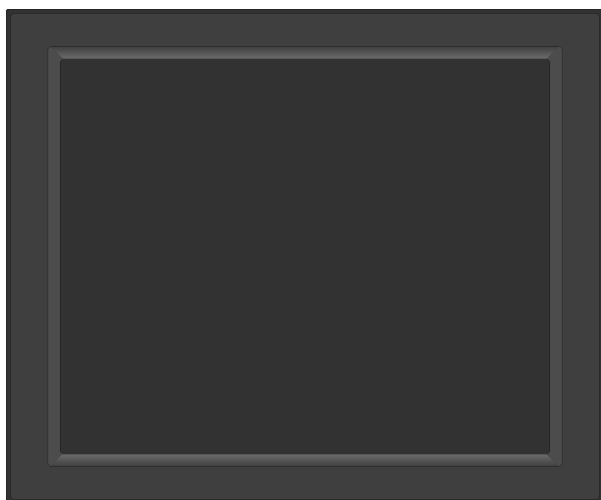
Parameter	Values			Unit	Note
	Min	Typ	Max		
Contrast Ratio	600	1,000	-		
Surface	200	250	-	cd/m ²	LCD only
Luminance.white	184	230	-		With touch screen
Response Time					
Rise Time	-	2	4	msec	
Decay Time	-	3	6	msec	
Viewing Angle(CR>10)				degrees	CR>10 at center
Right($\Phi=0^\circ$)	70	80	-		
Left($\Phi=180^\circ$)	70	80	-		
Up($\Phi=90^\circ$)	70	80	-		
Down($\Phi=270^\circ$)	70	80	-		

Chapter 2

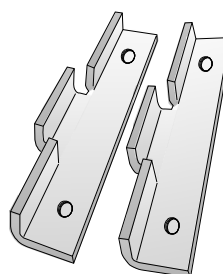
INSTALLATION AND SETUP

2-1 Unpacking your touch monitor

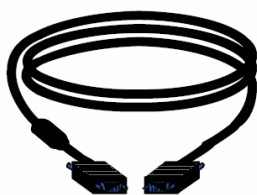
Check that the following 7 items are present and in good condition:



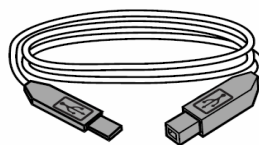
One Touch monitor



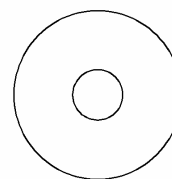
Two Ear-Lugs with Four Screws(M5)



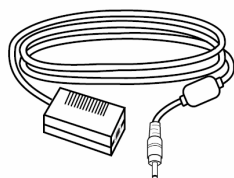
One Video cable



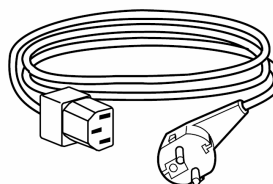
One USB cable



One Driver software CD



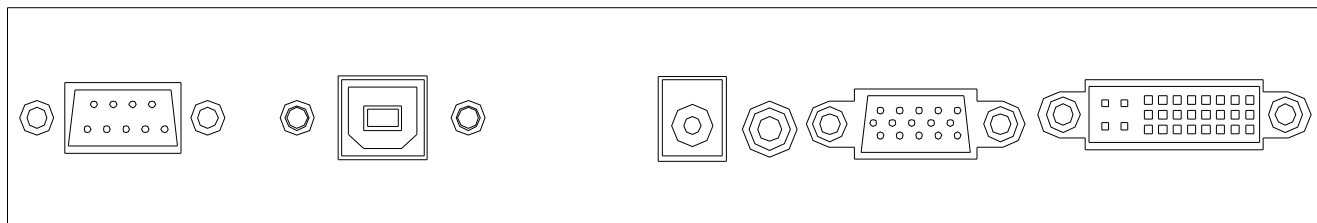
One Power Adaptor



One Power Cord

* Note : The DVI cable and RS232C cable is optional.

2-2 In/Output terminal formations.



	1	2	3	4	5	6
1	9 Pin D-sub Jack	Connection between touch controller and your PC				Note 1.
2	USB-B Jack	Connection between touch controller and your PC				
3	DC 2.5 Φ Jack	DC12V input				
4	Stereo Phone Jack	Audio input				Note 2.
5	15 Pin D-sub Jack	Analog RGB video input				
6	DVI Jack	DVI vide input				

Note 1. Should be connected one of cable to your PC between RS232C and USB.

Note 2. You can use "Audio function" with internal speakers, if you need. The pins of speaker out is placed on the AD board.

2-3 Installing the Driver Software

We, Young Display provides driver software that allows your touch monitor to work with your computer. Drivers are located on the enclosed CD-ROM for the following operating system.

- Windows XP
- Windows 2000
- Windows Me
- Windows 98
- Windows 95
- Windows NT 4.0

Additional drivers and information for other operating systems are available on the ELO Touch Systems web site

at www.elotouch.com. (Refer about IntelliTouch system)

2-3.1 Installing the Driver Software

This example is for the Windows XP/Vista driver:

1. Double-click the file on the desktop.
2. Click Run (For Windows Vista, if "Cannot create output file" is displayed, close the message box, then right-click the file and select Run as Administrator.)
3. Click OK.
4. Click Unzip.
5. Click OK.

6. Click Next to select English as the default language.
7. Click either Install USB Touch screen Drivers or Install Serial Touch screen Drivers (This is determined by the choice made when the cables were connected.)
8. Ignore Enable Pre-calibration.
9. Click Next.
10. Click Yes to indicate that you have read and accept the license agreement terms.
11. The files will install.
12. Click Finish.

2-3.2 Calibration / Alignment

1. Get to the Alignment screen.
 - 1) If an Elo icon is available in the tool tray at the lower right side of the desktop, click it, then click Align.
 - 2) Otherwise, go to the Windows Control Panel, double-click Elo Touch screen and click the Align button on the General tab. (If no Elo icon, click the "Switch to Classic View" button on the left.)
2. Touch and release the upper left target; the target should jump to the lower right.
3. Touch and release the lower right target; the target should jump to the upper right.
4. Touch and release the upper right target; the target should jump to the lower right.
5. Touch and release the green check mark; the check screen should disappear.
6. The cursor should now jump to the point of touch.
7. If the Elo Control Panel is open, close it and the Windows Control Panel.

Chapter 3

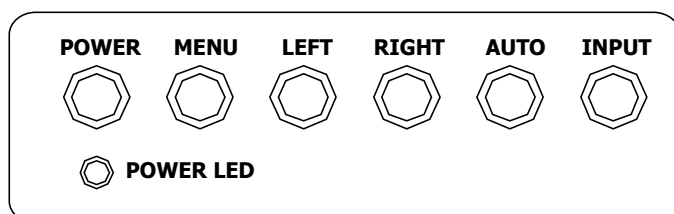
OPERATIONS

3-1 About Touch monitor Adjustments

Your touch monitor will not likely require adjustment. Variations in video output and application may require adjustments to your touch monitor to optimize the quality of the display. For best performance, your touch monitor should be operating in native resolution, that is 1280×1024 at 60 Hz. Use the Display control panel in Windows to choose 1280×1024 resolution. Operating in other resolutions will degrade video performance. For further information, please refer to Chapter 1.

All control adjustments are automatically memorized. This feature saves you from having to reset your choices every time you unplug or power your touch monitor off and on. If there is a power failure, your touch monitor settings will not default to the factory specifications

3-1.1 Rear Panel Controls



The OSD menu key-press board in driving panel generally divides into two specifications, please refer to frontal charts when making key-press board and connecting line:

6 key operation: (POWER), (MENU), (LEFT) or <->, (RIGHT) or <+>, (AUTO/EXIT), (INPUT)

Adjusted contents in OSD menu contain five items: Audio, Bright-Contrast and Color.

(POWER) : Turn on/off display.

(MENU) : Turn on OSD menu, and activate the first menu item on tip layer. If continuing pressing it, enter (namely SELECT/BOUNCE) the next layer menu of menu item activated. The operation has circle. In addition, for this key corresponds with SELECT, it can achieve exiting menu.

(LEFT) or <-> : Prominently display certain item menu, move menu bright strip on the left, or decrease value in the circumstance of menu item having value (parameter).

(RIGHT) or <+> : Prominently display certain item menu, move menu bright strip on the right,

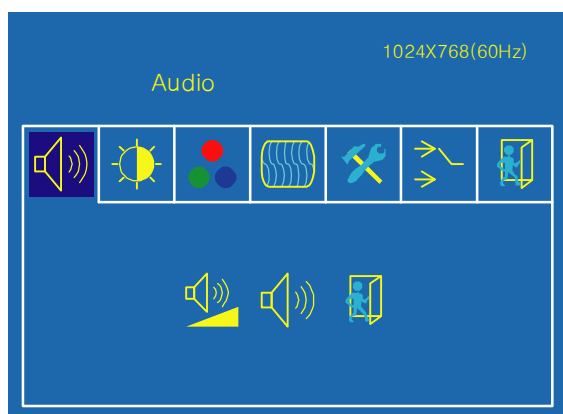
or increase value in the circumstance of menu item having value (parameter).

(AUTO/EXIT) : Automatically adjust image position and phase. In the state of non-full-screen image (in the mode of DOS) or connecting to divider, it may appear to deviate after automatically adjusting image position, at this time you need enter into OSD menu to carry on the hand regulation horizontal or vertical position and phase, or exit present menu level to its father menu level.

(INPUT) : Choose the video source between VGA and DVI mode.

3-1.2 Instruction of OSD menu operating

Audio : press the key of MENU to enter the next layer sub-menu; adjusted contents contain Volume and Mute



Volume

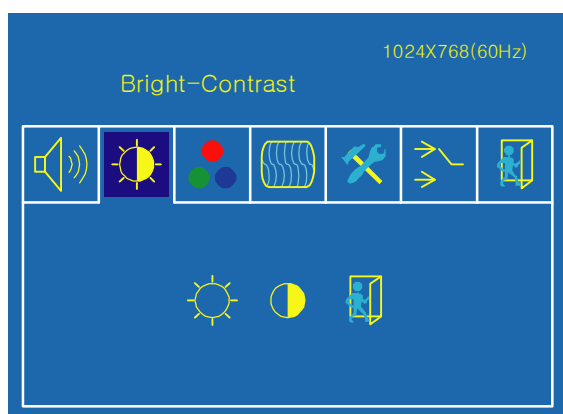
press the key of MENU to enter Volume sub-menu, and then press (LEFT)/<->, (RIGHT)/<+> to adjust the size of volume



Mute

press the key of MENU to enter Volume sub-menu, and then press (LEFT)/<->, (RIGHT)/<+> to choose mute, namely turn off audio.

Bright-Contrast



Brightness

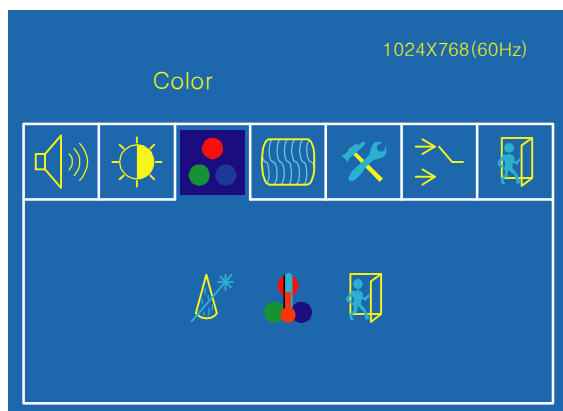
Adjust the size of brightness value with (LEFT)/<->, (RIGHT)/<+>



Contrast

Adjust the size of contrastive value with (LEFT)/<->, (RIGHT)/<+>

Color



Color Auto

Press the key of MENU to choose, adjust the balance of tricolor (Red、Green、Blue)



sRGB

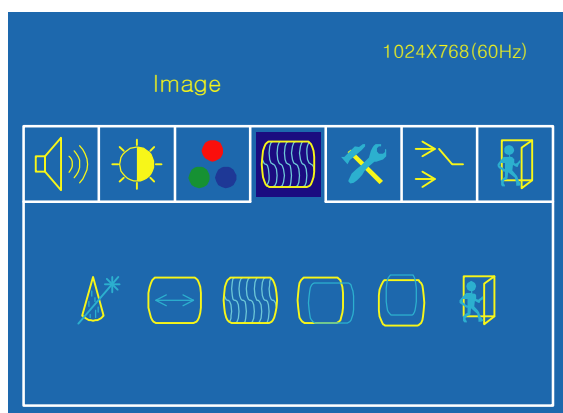
Press the key of MENU to choose, make the image color conform to the field unification sRGB standard



Color Temperature

Press the key of MENU to choose, enter the next layer sub-menu, press (LEFT)/<->, (RIGHT)/<+> to move bright strip, and choose sub-menu what you want

Image : Press the key of MENU to enter, specifically Includes following several item of sub- menus



Auto

Press the key of MENU to enter choosing this item of menu to automatically adjust image position and phase from the most top IMAGE



Width

Press the key of MENU to enter after choosing, press (LEFT)/<->, (RIGHT)/<+> to adjust the size of image width



Phase

Press the key of MENU to enter after choosing, press (LEFT)/<->, (RIGHT)/<+> to adjust, in order to stabilize the image and remove the noise



Horizontal

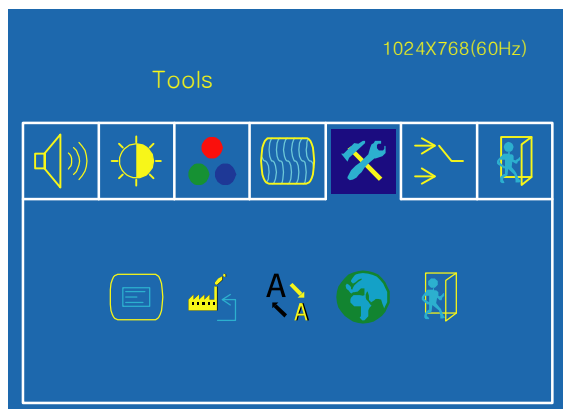
Press the key of MENU to enter after choosing, press (LEFT)/<->, (RIGHT)/<+> to adjust image horizontal position which display on the screen



Vertical

Press the key of MENU to enter after choosing, press (LEFT)/<->, (RIGHT)/<+> to adjust image vertical position which display on the screen

Tools : Press the key of MENU to choose and enter the next layer sub-menu of TOOLS, adjusted contents contain: OSD、Reset、Sharpness、DOS text/image mode (640/720)、Language



OSD

Entrance of OSD menu itself of parameter adjusting, press the key of MENU to choose and enter the next layer detailed sub-menu

- Display Time of OSD menu
- Horizontal position of OSD menu
- Vertical position of OSD menu



Reset

Press the key of MENU to enter after choosing under the OSD menu, make the monitor restore to the factory starting value, it is convenient to use because of disoperation or be unable to adjust initial value



Sharpness

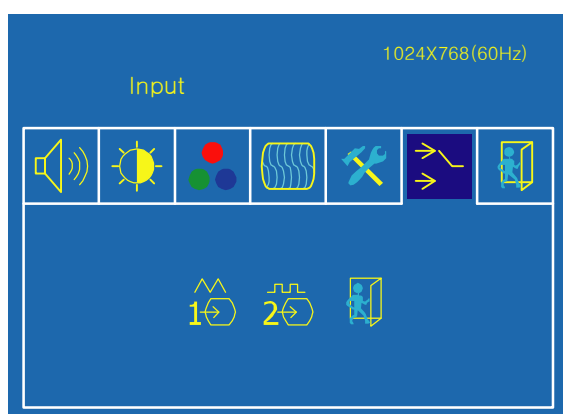
Press the key of MENU under the TOOLS menu to choose Sharpness sub-menu, and then press (LEFT)/<->, (RIGHT)/<+> to adjust sharpness



Language

Press the key of MENU under the TOOLS menu to choose Language sub-menu, and then press (LEFT)/<->, (RIGHT)/<+> to choose Chinese or English, press MENU to exit after affirming again

Input : Press the key of MENU to choose and enter the next layer sub-menu of INPUT, adjusted contents contain : VGA、DVI



VGA

press the key of MENU to choose VGA input mode.



DVI

press the key of MENU to choose VGA input mode.

3-2 Power Management System

The monitor is equipped with the power management function which automatically reduces the power consumption when not in use.

Power	Mode Consumption
On	<36W
Sleep	<4W
Off	<2W

We recommend switching the monitor off when it is not in use for a long time.

NOTE: The monitor automatically goes through the Power Management System (PMS) steps when it is idle. To activate the monitor, press any key on the keyboard or move the mouse.

4

Chapter

TROUBLESHOOTING

If you are experiencing trouble with your touchmonitor, refer to the following table. If the problem persists, please contact your local dealer or our service center.

Solutions to Common Problems

Problem	Suggestion(s)
The monitor does not respond after you turn on the system	1)Check that the monitor's Power Switch is on. 2)Turn off the power and check the monitor's power cord and signal cable for proper connection.
Characters on the screen are dim	Refer to the About Touch monitor Adjustments section to adjust the brightness.
The screen is blank	1)During operation, the monitor screen may automatically turn off as a result of the Power Saving feature. Press any key to see if the screen reappears. 2) Refer to the About Touch monitor Adjustments section to adjust the brightness.
Screen flashes when initialized	Turn the monitor off then turn it on again.
"Out of Range" display	Check to see if the resolution of your computer is higher than that of the LCD display. Reconfigure the resolution of your computer to make it less than or equal to 1280X1024.
Touch doesn't work	Make sure the touch cable is securely attached at both ends.

Appendix A

TOUCHMONITOR SAFETY

This manual contains information that is important for the proper setup and maintenance of your touch monitor. Before setting up and powering on your new touch monitor, read through this manual, especially Chapter 2 (Installation), and Chapter 3 (Operation).

- 1 To reduce the risk of electric shock, follow all safety notices and never open the touch monitor case.
- 2 Turn off the product before cleaning.
- 3 The socket-outlet shall be installed near the equipment and shall be easily accessible.
- 4 The slots located on the sides and top of the touch monitor case are for ventilation. Do not block or insert anything inside the ventilation slots.
- 5 It is important that your touch monitor remains dry. Do not pour liquid into or onto your touch monitor. If your touch monitor becomes wet do not attempt to repair it yourself.

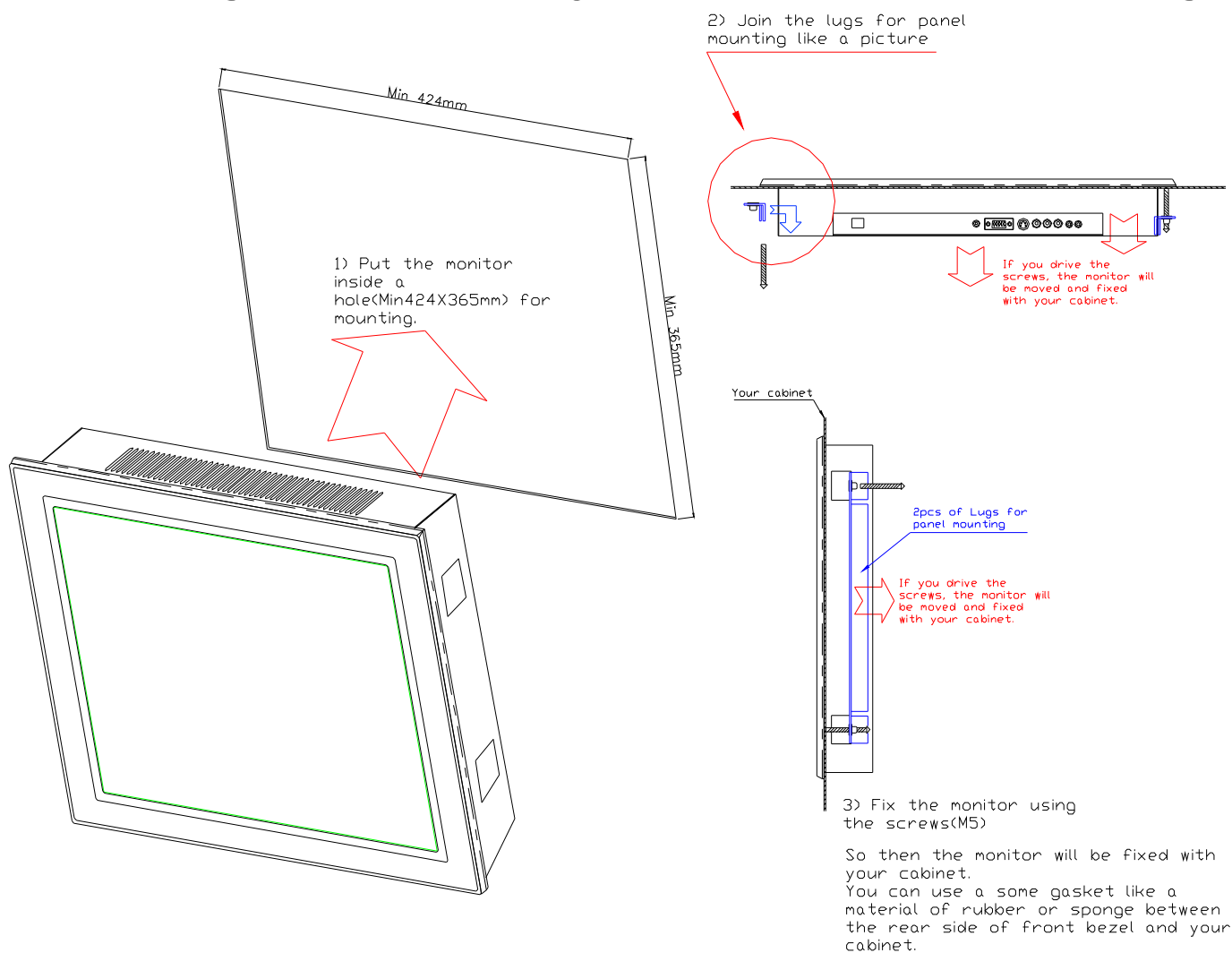
Care and Handling of Your Touch monitor

The following tips will help keep your touch monitor functioning at the optimal level.

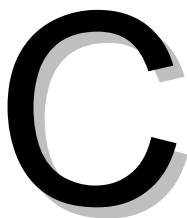
- To avoid risk of electric shock, do not disassemble the brick supply or display unit cabinet. The unit is not user serviceable. Remember to unplug the display unit from the power outlet before cleaning.
- Do not use alcohol (methyl, ethyl or isopropyl) or any strong dissolvent. Do not use thinner or benzene, abrasive cleaners or compressed air.
- To clean the display unit cabinet, use a cloth lightly dampened with a mild detergent.
- Avoid getting liquids inside your touch monitor. If liquid does get inside, have a qualified service technician check it before you power it on again.
- Do not wipe the screen with a cloth or sponge that could scratch the surface.
- To clean the touch screen, use window or glass cleaner. Put the cleaner on the rag and wipe the touch screen. Never apply the cleaner directly on the touch screen.

Appendix B

Installing the Monitor by LUGS for Panel Mounting.



Appendix



Notation of LOT Number

	NON-FIXED : MODEL NAME. XXXXXXXXXX : Product number. PPP : Serial number “001”.....”999” MM : The month of product DD : The day of product YY : The year of product
---	---

How to contact us

Checkout YOUNG DISPLAY's Web site!! <http://www.lcd21.co.kr>

Get the latest...

- *Product information*
- *Specifications*
- *News on upcoming events*
- *Press releases*
- *Software drivers*

FACTORY

404Ho, Byucksan-Technopia, 434-6, Sangdaewon-Dong, Jungwon-Gu, Seongnam-si, Gyunggi-Do, Korea.(462-807)

TEL : +82-31-737-8180 / FAX : +82-31-737-8166

Website : www.lcd21.co.kr

Sales and technical support : hong@lcd21.co.kr

4

3

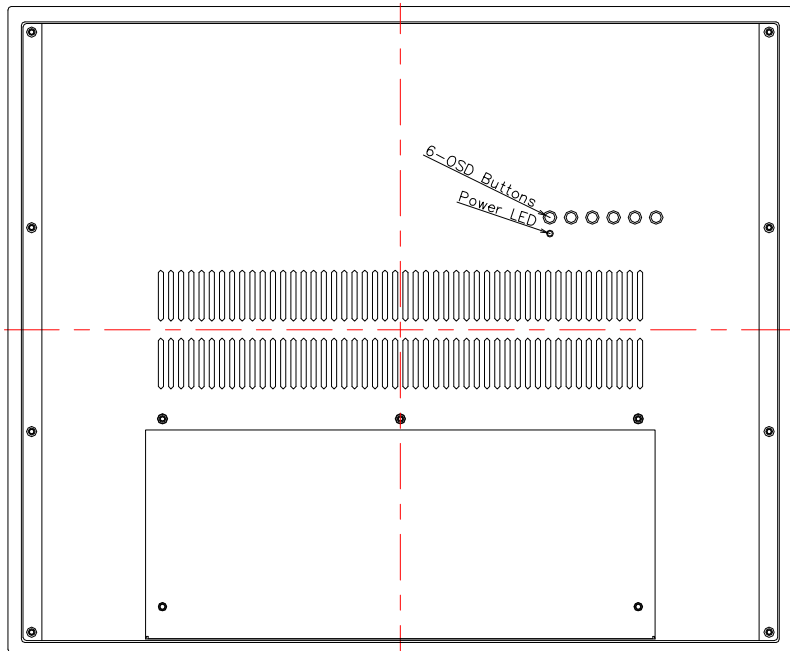
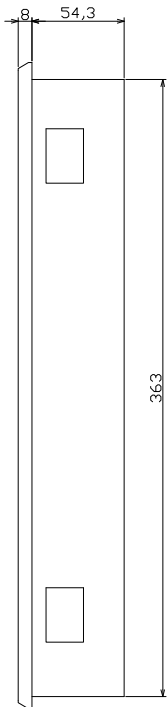
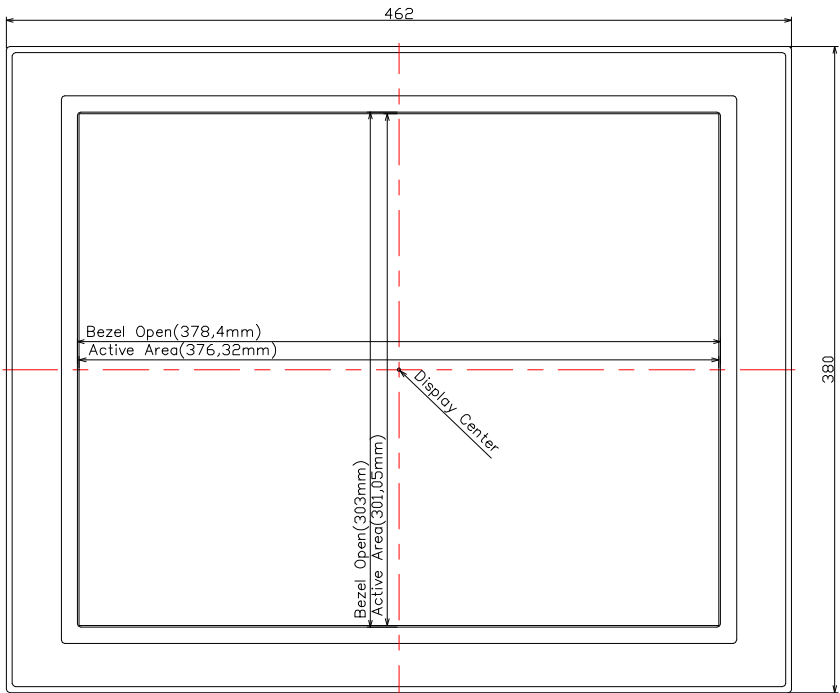
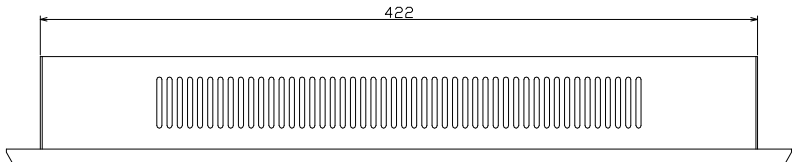
2

1

NO.	COUNT	REVISIONS	DATE (YYMMDD)	APPROVED
△	x		' / /	
△	x		' / /	
.	x		' / /	

D

D



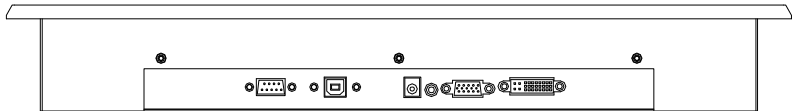
C

B

본 도면은 [주]영디스플레이의 자산으로 무단 도용 및 악용을 금함.

A

A

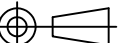


4

3

2

1

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS AND TOLERANCES ARE AS FOLLOWS:		SIZE	SCALE	QUANTITY	MATERIAL	REMARK		
0 - 6	±0,05		SIHONG	DRAWN	DATE (YY/MM/DD)	DRW NO.	SHEET	
6 - 15	±0,1						1 OF 1	
15 - 60	±0,15							
60 - 200	±0,2			DESIGNED	DATE (YY/MM/DD)	MODEL		
200 - ∞	±0,3						YI190PT-D-CXX	
				CHECKED	DATE (YY/MM/DD)	PART NO.	72-6422X0	REV. A
				APPROVED	DATE (YY/MM/DD)			