

COT121PCA-CPF03-CA2CN

12.1" Open-Frame Monitor with 2mm project capacitive

Vandal/Waterproof/Dust Proof Touchscreen Monitor



Shenzhen ZHONGKONG Computers Co. Ltd First released DATE:2013-03-28

REVISION HISTORY

VERSION	DATE	MODEL	PAGE	DESCRIPTION	AUTHOR
1.1	2016/6/11	COT121PCA-C PF03		Structure update	LQ.LI
1.0	2015/11/2 0	COT121PCA-A PF01		First released	LQ.LI



Safety Instructions

- 1. Read these safety instructions carefully.
- 2. Disconnect this equipment from any AC outlet before cleaning. Use a damp cloth. Do not use liquid or spray detergents for cleaning.
- 3. For plug-in equipment, the power outlet socket must be located near the equipment and must be easily accessible.
- 4. Keep this equipment away from humidity.
- 5. Put this equipment on a reliable surface during installation. Dropping it or letting if fall may cause damage.
- 6. The openings on the enclosure are for air convection. Protect the equipment from overheating. DO NOT COVER THE OPENINGS.
- 7. Make sure the voltage of the power source is correct before connecting the equipment to the power outlet.
- 8. Position the power cord so that people cannot step on it . Do not place anything over the power cord.
- 9. All cautions and warnings on the equipment should be noted.
- 10. If the equipment is not used for a long time, disconnect it from the power source to avoid damage by transient over voltage.
- 11. Never pour any liquid into an opening. This may cause fire or electrical shock.
- 12. Never open the equipment. For safety reasons, the equipment should be opened only by qualified service personnel.
- 13. If one of the following situations arises, get the equipment checked by service personnel:
 - A) The power cord or plug is damaged.
 - B) Liquid has penetrated into the equipment.
 - C) The equipment has been exposed to moisture.
 - D) The equipment does not work well, or you cannot get it to work according to the user's manula.
 - E) The equipment has been dropped and damaged.
 - F) The equipment has obvious signs of breakage.
- 14. DO NOT LEAVE THIS EQUIPMENT IN AN UNCONTROLLED ENVIRONMENT WHERE THE STORAGE TEMPERATURE IS BELOW -20°C OR ABOVE 60°C. THIS MAY DAMAGE THE EQUIPMENT.



1.1 Introduction

The COT121PCA-CPF03 LCD open frame touch monitor is a 12.1" SXGA TFT color display with the following features:

- Bezel seal standard: IEC IP64
- Long lasting product cycle-enclosure controlled by ZKTEK specifications
- Future generation panels phased-in without external changes
- High quality panel with high brightness, high contrast ratio and broad viewing angle
- Multiple mounting options including VESA mount, horizontal or vertical bracket-mount
- ZKTEK's Projective Capacitive technology on pure tempered glass for the ultimate in image quality
- Finger or gloved hand operation
- USB and Serial touch interface port

1.2 Product Features

Model	COT121PCA-CPF03	
Series	Metal-cased open frame	
Monitor Dimensions	Width: 370.2mm Height: 295.8mm Depth: 56.4mm	
Weight (N.W/G.W)	3.5Kg /4.3 Kg (Approx.)	
LCD Type	12.1"Active matrix TFT-LCD	
Video Input	DVI&VGA	
Recommend Resolution	1024x768@60Hz	
OSD controls	Allow on-screen adjustments of Brightness, Contrast Ratio,	
OSD controls	Auto-adjust, Phase, Clock, H/V Location, Languages, Function, Reset	
	Type: External brick	
Power Supply	Input (line) voltage: 100-240 VAC, 50-60 Hz	
	Output voltage/current: 12 volts at 2.6 amps max	
Mount Interface	1)VESA 75mm and 100mm	
Wount Interface	2)Mount bracket, horizontal or vertical	
Regular Warranty	5 years for Sensor; 3 years for controller; 1 year for LCD	
Agency Approval	roval FCC,CE	

1.2.1 General

1.2.2 LCD Specification

Active Area(mm)	246.0mm(H)x184.5mm(V)
Resolution	1024x768@60Hz
Dot Pitch(mm)	0.3075×0.3075

Nominal Input Voltage VDD	+3.3V(Typ)
Viewing angle (v/h)	60°/70°
Contrast	600:1
Luminance (cd/m2)	250(* see NOTE 1 below)
Response Time(Rising/Falling)	6s/6s
Support Color	16.2M/262K colors
Backlight MTBF(hr)	50000
NOTE 1: The LCD Specification will change follow the relevant LCD panel brand and model	

1.2.3 Touchscreen Specification

Туре	ZKTEK Projective Capacitive
Thickness	1.8mm tempered glass with 0.2mm senser layer
Resolution	4096*4096
Light Transmission	92%
Touch Life Cycle	50 millions
Touch Response time	16ms
Touch System Interface	USB interface
Power consumption of touch	+5V@80mA

1.2.4 External AC Power Adapter

Output	12VDC/4A
Input	100-240 VAC, 50-60 Hz
MTBF	50000 hr at 25°C

1.2.5 Environment

Operating Temp.	-10~50°C
Storage Temp.	-20~60°C
Operating RH:	20%~80%
Storage RH:	10%~90%

1.3 System setup

1.3.1 Preparing for First-time Use

Before you start to set up the LCD Monitor, You should have at least the following items ready in your accessory box:

- A) 12V DC Power adapter;
- B) Power cord for adapter;
- C) VGA cable;

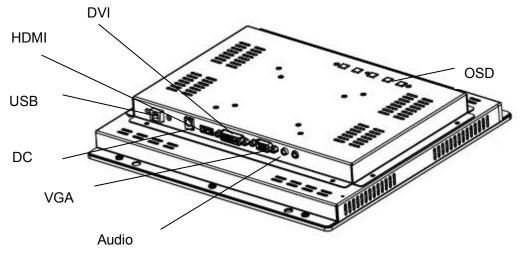




- D) USB cable or RS232 cable;
- E) L-brackets: Four tandard L-brackets are included;

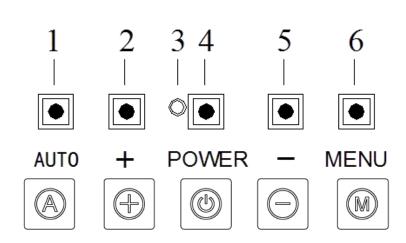
1.3.2 I/O arrangement

The diagram shows the Jack, VGA, DVI port, Audio, USB port and DC Power inlet



1.3.3 OSD Control

OSD buttons



Adjusting with OSD control

Five different keys are well-defined for operation . They are labeled on the keypad.

A) [Power] Key is designated for Power On/Off



- B) **[Menu]** Key is designated for Menu/Enter function depending on the selected item. Pressing [Menu] can invoke OSD menu. After that, [Menu] is also an entry key.
- C) [+] key is designated for selection function in up direction in OSD menu and also to increase the value on selected function.
- D) [-] key is designated for selection function in down direction in OSD menu and also to decrease the value on selected function.
- E) [AUTO] key is designated for invoking AUTO ADJUST function at any time once is pressed for H-position, V-position, Pixel Clock and Phase for an optimal image.

1.3.4 Setup the driver

* the touchscreen is driver-less in WINDOWS 7 or above. If you install an OS which is below WINDOWS or different from WINDOWS OS, please contact us for the right driver and follow below:

1. Make sure the Touchscreen Cable is properly connected. The Setup program cannot configure the touchscreen without it.

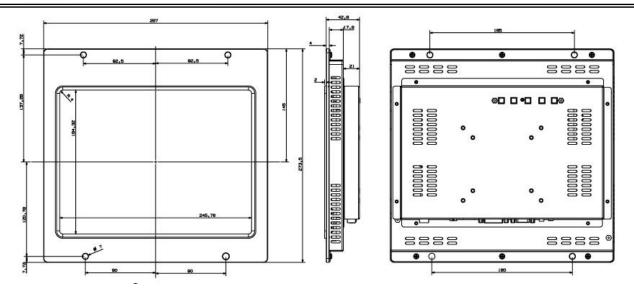
2. Insert the CD Kit into your PC system's CD drive.

3. Click the SETUP.EXE installation program. The Setup program begins to execute and load the ZKTEK'S driver.

4. Follow the instructions displayed on the screen. Make your selections carefully when answering questions to complete the installation.

1.4 Mechanical Characteristic

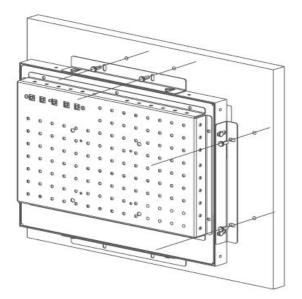






The above drawings is for reference only. Please make the design according to the delivered unit(s)

1.4.1 Touch Monitor Mounting guide

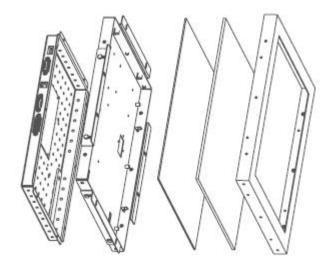


1. Build 8 screw studs along the four sides of the cut out opening based on the dimension given on the drawing above.



2. Tighten the screw stud with hex nut and make sure it is stable.

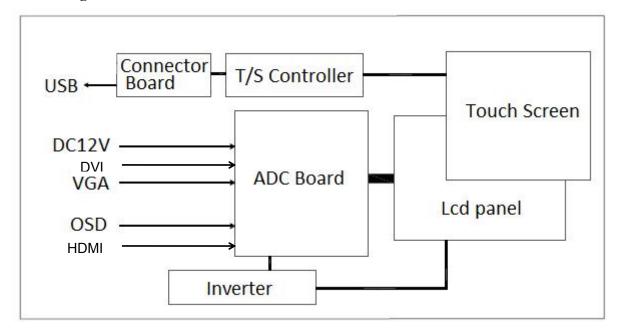
1.4.3 Maintenance Exploded Diagram



1.5 Electrical Characteristic

The LCD touch monitor is constructed based on steel open frame architecture. It consists of a 12.1" LCD panel, an DC to AC inverter board to support a set of cold cathode fluorescent light, an analog to digital converter board (AD Board) to convert analog RGB signals to digital ones, and a touchscreen used as a pointing device. A metal chassis supports the whole module.

Block Diagram



2.0 Solutions to Common Problems



Problem	Suggestion(s)
The monitor does not respond	1)Check that the monitor's Power Switch is on.
after you turn on the system	2)Turn off the power and check the monitor's power cord
	and signal cable for proper connection.
	3)Adjust the display resolution in SAFE MODE, and
	make sure it is complied with the native resolution of the
	LCD display.
Characters on the screen are dim	1)Refer to the About Touch monitor Adjustments section
	to adjust the brightness.
	2)If using the VGA: Check the VGA cable or change a
	better quality one
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.
Touch don't work	Make sure the touch cable is securely attached at both
	ends.

3.0 Typical Application

Gaming/Casino Systems Outdoor and indoor Kiosks Entertainment Transport and Ticketing Hospitality Banking Customized Solutions

4.0 How to contact us



www.zktek.com

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