

i3TOUCH

Premium

User Manual

Model no.

i3TOUCH P6505 T10

i3TOUCH P7505 T10



TECHNOLOGIES

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IMPORTANT SAFETY INSTRUCTIONS

1. Please read these instructions carefully before using the product and keep it for later reference
2. Follow all warnings and instructions marked in this manual or on the product.
3. Unplug the power cable from the wall outlet before cleaning. Clean the product with a damp soft cloth. Do not use liquid or aerosol cleaners as it may cause permanent damage to the screen.
4. Caution of use varies from model to model; please observe appropriate operation per model in use.
5. Do not place this product on an unstable cart, stand, or surface which may cause damage or harm to the product or personnel.
6. Slots and openings on the cabinet, in the back cover or in the bottom, are for ventilation; to ensure reliable operation and to prevent from overheating; these openings must not be blocked or covered at all time. The openings should never be placed near or over a radiator or heat register, or in a built-in installation unless proper ventilation space (min. 2 inches/ 5cm of gap) is provided.
7. This product should be operated from the type of power indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local service company.
8. This product is equipped with a 3-wire grounding type power plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you do not have proper outlet to insert the plug, contact your electrician to replace your obsolete outlet. Do not break the ground pin and defeat the purpose of the grounding.
9. Do not allow anything to rest, or persons to walk, on the power cord.
10. . If an extension cord is used with this product, make sure that the total ampere rating plugged into the extension cord does not exceed the maximum ampere rating of the extension cord.
11. Never thrust object/tool of any kind through cabinet slots of this product, as they may touch dangerous voltage point or short out parts that could result in risk of fire or electric shock. Never spill liquid of any kind on the product.
12. Do not attempt to service this product yourself; always refer to qualified or authorized personnel for servicing this product.
13. Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a. When the power cord or plug is damaged or frayed or broken.
 - b. In case that liquid has been spilled into the productIn case the product does not operate normally when the operating instructions are followed, adjust only those controls that are delineated by the operating instructions.
14. Caution: When fixed patterns are displayed for a long time, remnant image (retention) is likely to occur.

1. Introduction

1.1 About the Product

The monitor consists of a (LED/ TFT) LCD panel and microprocessor -controlled main board. It is designed to meet the demanding or rigid performance requirements of education/schools, public premises, corporate, and industrial applications.

GENERAL FUNCTION

- Display type: TFT-LCD MODULE DRIVE BOARD
- RESOLUTION: UP TO 3840x2160 with a 16:9 ASPECT RATIO @30Hz
- AUDIO/ VIDEO SIGNAL CONNECTIONS
 - SOURCE INPUT:
 - HDMI 1
 - HDMI 2
 - OPS (internal HDMI)
 - Display Port
 - VGA
 - Android
 - AUDIO INPUT:
 - For VGA audio input.
 - AUDIO OUTPUT:
 - Audio output follow source.
- DATA CONNECTIONS
 - USB A x 3 (A type)/
 - USB B x 1 (B type)/ only for connection touch control data to a user PC
 - RJ45 (for Android)
 - Wi-Fi (for Android)
 - RS232 CONTROL input
- Aspect Ratio

1.2 Notice

1. Do not apply any sharp object on the original LCD panel surface, if model is without protective glass.
 2. Do not use corrosive or abrasive detergents, waxes or solvents for cleaning. Use only a dry or damp with clean water, soft cloth when cleaning.
 3. Use qualified and safety-approved AC power cord only.
 4. The length of cables (HDMI, DP, VGA) should not be longer than 2 meters each.
- 4 | Learn more about i3TOUCH and other product in the i3 line? Visit www.i3-learning.com

1.3 Check List

When opening the carton, please make sure that all the items listed below are present:

1. VGA cable (male-to-male) ×1
2. Power cord ×1
3. USB cable ×1 (for touch monitor models only)
4. HDMI cable x1
5. Audio cable 3.5E x1
6. User guide ×1
7. Remote control x 1,
8. Battery x 2
9. Cleaning fabric x2
10. Stylus x2
11. Wall mount installation guide x1
12. Screw M8*18mm P head with washer x 4

If any items are missing or damaged, please contact your local dealer immediately.

Following items are optional at specific ordering:

13. VGA cable (male-to-male) (optional) for VGA out application

Adapter/Converter Advisory

If specific adapter/converter is required, i.e. tablet PCs, in order to connect to this monitor, please use original adapter/converter recommended by the original brand. The length of cables should not be longer than 2 meters each.

2. Connecting the Monitor

The procedures for setting up your Monitor kit is as followed:

2.1 Power & Signal Connections

Power cord connection:

Connect the power cord to the AC outlet.

Power on:

Switch on the main power of your monitor (switch is located next to the AC outlet)

Input Source VGA (HDMI1/ HDMI2/ OPS(internal HDMI)/ DP) Signal cable connection:

Plug one end of the 15-pin signal cable to the video signal connector at the rear of the PC/laptop system (or engine box) and the other end to the monitor.

Or plug one end of the HDMI/ DP signal cable to signal source (PC, laptop, IPC, media player of any kind with proper HDMI or other out port), and the other end to the HDMI connector on the monitor.

Tighten the connector screws on both ends of the cable to secure good signal connection.

USB cable connection (for touch monitor models):

Plug one end of the USB (B type) cable to the USB (A type) connector at the rear of the (PC, or, IPC, or, media player), and the other end to the USB connector on monitor.

There are two USB (B type) connectors, one for HDMI1 on side. the other for dynamic source

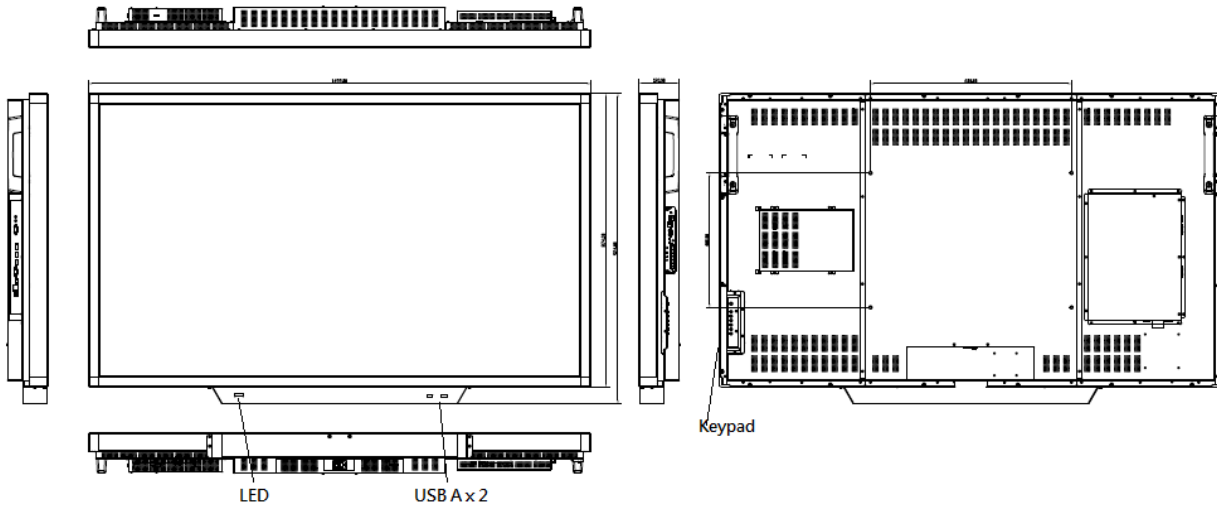
(VGA/ HDMI1/ HDMI2/ DP) on rear.

Please connect the signal source first, then follow by connecting USB cable for touch.

3. Using the Monitor

3.1 Get to know the monitor

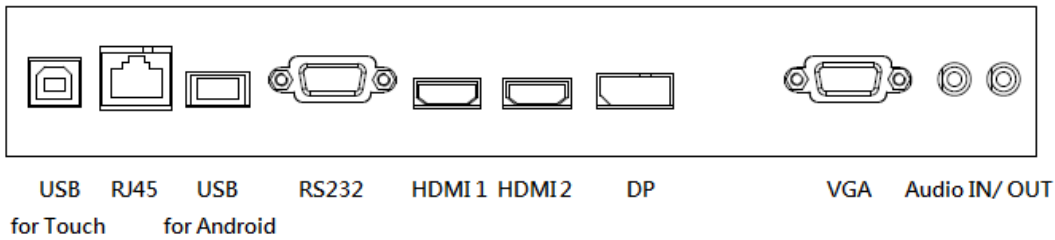
The Monitor connectors are located on the rear side. They are shown in the physical monitor as figure below and described in the following paragraphs. Please note that connectors may vary in some derivative models; please refer to individual leaflet for special notation.



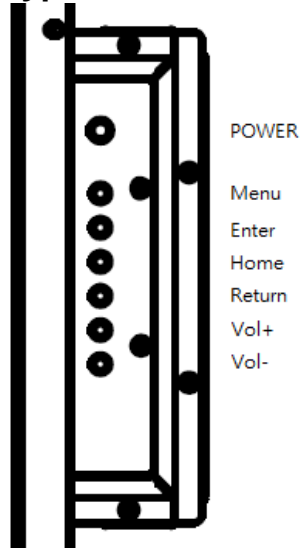
3.2 Connector ports

The Figure below depicts the signal connectors on the main board.

Rear



3.3 Keypad



Side View

3.4 Remote Control

The outlook of remote control is shown in the Figure, hereafter,



Size: 197.2 x 47.1 x 23.2mm (7.7 x 1.85 x 0.9 x in.)

Operation distance: < 10 meter (32ft.)

Working angle: not more than +/- 40 degrees

CAUTION
RISK OF EXPLOSION IF BATTERY IS REPLACED
BY AN INCORRECT TYPE
DISPOSE OF USED BATTERIES ACCORDING
TO THE INSTRUCTION

3.5 Understanding the OSD Menu (with Remote control)

a. Power

Press the Power button to turn on/off the monitor.

b. Android

Press the Android button to select the Android source.

c. WB

Reserve

d. Video

Press the Video button to enter video player list. (under Android)

e. Photo

Press the Photo button to enter photo player list. (under Android)

f. H1/ H2/ OPS/ DP/ VGA

Press H1 button to select the HDMI 1 signal source.

Press H2 button to select the HDMI 2 signal source. Source default is at HDMI 2 source.

Press OPS button to select the OPS signal source.

Press DP button to select the Display Port signal source.

Press VGA button to select the VGA signal source.

g. MISC.

Press MISC. button to turn On/ Off OPS

h. Media control



Press those buttons for media player (Video, Music and Photo) control.

i. Touch on/ off



Press the Touch button to turn on/off the panel lock function. Terminate Touch function and keyboard mouse function which were connected with USB A1/ A2 on monitor.

j. Auto Adj.

Press this button to auto-adjust and optimize picture screen of the monitor.

k. Menu

Press the Menu button to go into OSD menu.

l. Mute


Press this button to mute or un-mute.

m. Return/ Exit


Press Exit button to exit setting, or, exit OSD menu.

n. Select function for adjustment



Press  button to navigate the intended function items for adjustment, and then press the Enter button to select that function item.

o. Volume

Press  to adjust value of volume and mute on/ off.

p. Info.

Press to show source information

q. Zoom





Press Zoom button to auto-adjust and optimize picture screen of the monitor.

r. BL+ / BL-

Press BL+ / BL- button to adjust backlight of the monitor.

3.4 Content of OSD Menu





Picture

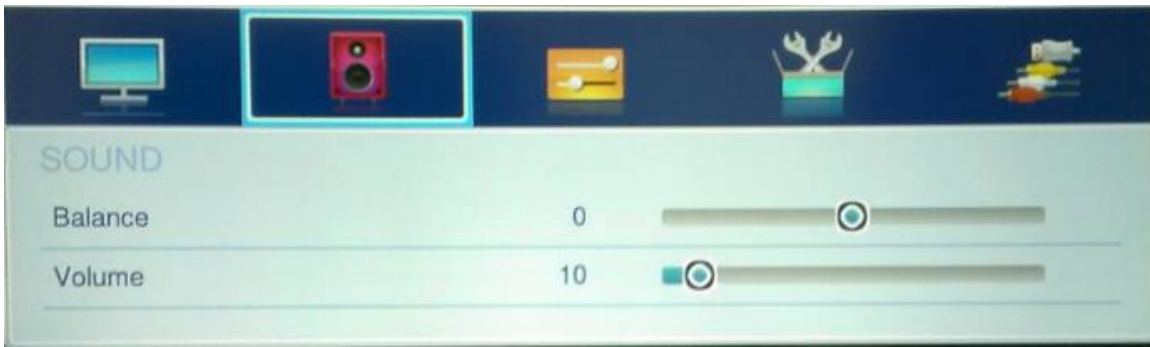
// press  /  (UP/Down) to select sub menu, press  /  to next page(Sound/ Input)







Picture Mode: to select "User" to active sub menu (Contrast/ Brightness/ Colour/ Colour Temperature)







Sound // press  /  (UP/Down) to select sub menu, press  /  to next page(Picture/ Display)

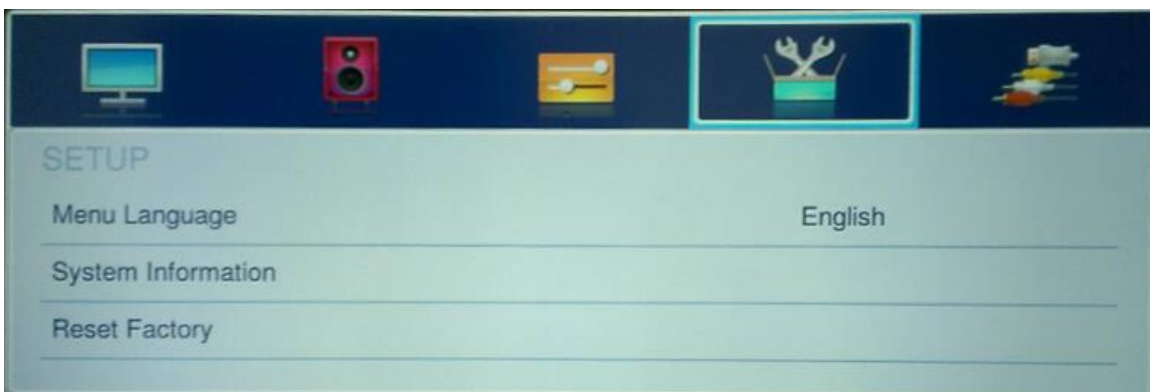


Display // press  /  (UP/Down) to select sub menu, press  /  to next page(Sound/ Setup)







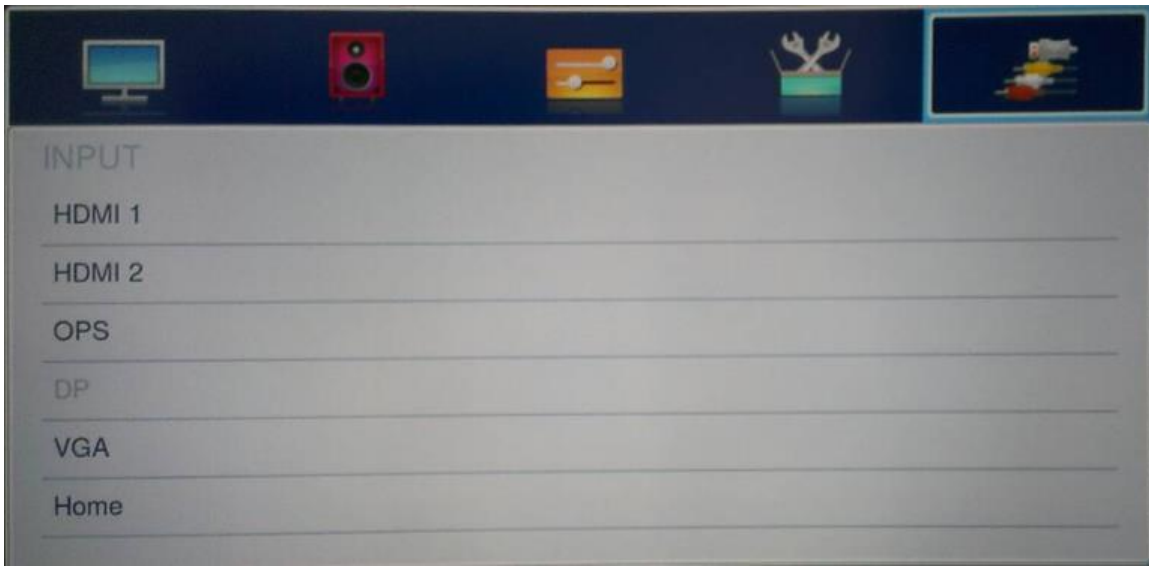
Panel Lock: To select "ON" to active "Panel Lock" function(disable Touch function)
Under source VGA the sub menu of (Auto Position/ Auto Color/ PC Setting) will be able adjusted.

SETUP // press  /  (UP/Down) to select sub menu, press  /  to next page(Display/ Input)



INPUT

// press  /  (UP/Down) to select sub menu, press  /  to next page(Setup/ Picture)



3.6 RS232 Command

3.6.1 Introduction

This document is the communication protocol between the Monitor and PC Via RS232.

3.6.2 Data format

Data will be transferred serially according to RS232 protocol using the following settings.

Female DB9 DCE pin numbering and definitions: recommended communication rates are: (higher baud rates are fine but 9600 is by far the most common and is sufficient for the volume of data being transmitted)

Baud Rates	9600
Data Bits	8
Stop Bits	1
Parity	No

3.6.3 Data structure

Note - All numbers shown in the protocol description are in string unless indicated otherwise. Percentages are shown in decimal.

General Command Form

- STX. The first character is the standard Start of Text (STX) character 'S'.
- Address. The second character is the device address. If a device does not support addressing, these should be 0 and 9 to act as the global address.
- Type. The third character is the command type. TBD
- Property ID (CmdH and CmdL). The four and fifth and characters are the property(command) identifier. By using one byte we have 256(0x00~0xFF)
- Data0~Data2. Following the sixth, seven and eight characters are the parameter data section This parameter section contains the value (Decimal) for the property from 000~100.
- ETX1~ETX2. The last two characters are the standard End of Text (ETX) 'EN'.

Sample:

STX	Addr	Type	CmdH	CmdL	D2	D1	D0	ETX1	ETX0
S	0	0	0	1	0	0	1	E	N

In this example (Power On to everything), the Address character 0, which is the global address for all devices connected to the serial port. The Type character is 0 to indicate the transmission is a command. The Property ID characters indicate a property identifier of 1, which in this protocol is the value for power. The Length character is a 1, which indicates that there is one character of data associated with this command. The Data has a value of 1, which is the value for ON. The ETX is command End code.

3.6.4 Command code

Command		1	3	4	5	6	6	7	8	9/10	Note			
Power	OFF	S	0	0	1	0	0	0	0	EN				
	ON								1					
Input Source	VGA	S	0	0	2	0	0	0	0	EN				
	HDMI 1								1					
	HDMI 2								2					
	OPS								3					
	DP								4					
	WB								5					
	Android								6					
Brightness	0%	S	0	0	3	0	0	0	0	EN				
	50%								0			5	0	
	100%								0			1	0	0
	Plus								1			0	0	0
	Minus								2			0	0	0
Language	English	S	0	0	4	0	0	2	0	EN				
	France								1					
	German								2					
	Chinese S								6					
	Chinese T								7					
Volume	0%	S	0	0	5	0	0	0	0	EN				
	50%								0			0	5	0
	100%								0			1	0	0
	UP								1			0	0	0
	Down								2			0	0	0

4. Cleaning the Monitor

1. Make sure the monitor is turned off.
2. Never spray or pour any liquid directly onto the screen or case (depends on different model).
3. Do not use chemical solvents, alcohol, or any other based to clean the unit or panel. It may cause permanent damage on the unit or panel.
4. Use a clean, soft, lint-free cloth, or apply a small amount of non-ammonia, non-alcohol based glass cleanser to achieve maximum cleaning.

5. Disclaimer

The manufacturer assumes no responsibility, and will not be liable of any damage resulting from non-conforming safety actions or operation, or, cleaning on this product.

The standard of all panels is followed by the ISO 13406-2 Class II.

6. Trouble Shooting

Before calling for service, please try following easy and simple steps to verify:

Symptom	Check Point
1. No picture	<ul style="list-style-type: none">□ Check if the signal cable is firmly seated in the socket.□ Check if the Power is ON at the computer□ Check if the brightness control is at the appropriate position, not at the minimum.□ State the monitor is powered on and the LED of power is GREEN, plug out the VGA cable and plug in again.
2. The screen is not synchronized	<ul style="list-style-type: none">□ Check the LED light if it indicates in red, the device is in power off status. Use the remote and press "Power" to turn the power on.□ Use the "Auto" key on remote control to automatically adjust the monitor timing scan.□ Check if the signal cable is firmly seated in the socket.□ Make sure the signal timings of the computer system are within the specification of the monitor.□ If your computer was working with a CRT monitor, you should check the current signal timing and turn off your computer before you connect the VGA Cable to this monitor.
3. The picture is not centered	<ul style="list-style-type: none">□ Adjust the H-position, and V-position, or perform the Auto adjustment.

4. The screen is flickering

- Press the "Auto" - adjustment control by remote control or OSD to adjust. Re-locate nearby devices, such as motor, or transformer, which generate magnetic field, away from the monitor. Check if the specific voltage is applied.
- Check if the signal timing of signal source (PC, IPC, laptop or media player) is within the specification of monitor. If you are unable to correct the fault by following this chart, stop using your monitor and contact your distributor or dealer for further assistance.

※ **Should all above trouble-shooting measure fails, please write down the S/N, Serial Number, which is located on the left-side of the monitor, and provide that S/N to the service personnel, this will help processing or further diagnosis easier.**

7. Supplement

This Monitor is designed to meet following VESA standard resolution and timing per two different types of panel's native resolution.

VGA Timing		
1	640x480	60Hz
2	640x480	72Hz
3	640x480	75Hz
4	800x600	56Hz
5	800x600	60Hz
6	800x600	72Hz
7	800x600	75Hz
8	1024x768	60Hz
9	1024x768	70Hz
10	1024x768	75Hz
11	1152x864	75Hz
12	1280x720	60Hz
13	1280x768	60Hz
14	1280x800	60Hz
15	1280x960	60Hz
16	1280x1024	60Hz
17	1280x1024	75Hz
18	1360x768	60Hz
19	1440x900	60Hz
20	1600x1200	60Hz
21	1600x1200	65Hz
22	1600x1200	70Hz
23	1600x1200	75Hz
24	1680x1050	60Hz
25	1920x1080	60Hz

HDMI/ DP Timing	
1	480i60
2	480p60
3	576p50
4	720p60
5	720p50
6	1080p50
7	1080p60
8	3840x2160 24HZ
9	3840x2160 30HZ

Timing modes exceeding above chart may show abnormal, off-centered, unproportioned picture on the screen, or even "No Signal" as such timing mode maybe completely

undisplayed, please refer to graphic card output timing mode respectively.