

User Manual for DTS-2410C



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User Manual for DTS-2410C

REV.NO : 1.0

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PAGE : 3

Change History of Revision

Revision	Date	Contents of Revision Change	Remark
1.0	21.12.13	Release	

Recommended Use

FOR OPTIMUM PERFORMANCE, PLEASE NOTE THE FOLLOWING WHEN SETTING UP AND USING THE TOUCH SCREEN MONITOR.

- **DO NOT OPEN THE MONITOR.**
Opening or removing covers may expose you to dangerous shock hazards or other risks.
Once you open it the warranty voids.
- To protect from electrical shock, unplug the display power supply from the wall before moving.
- Do not put anything on top of the monitor.
- Do not spill any liquids into the cabinet or use your monitor near water.
- Do not place this product on a sloping or unstable cart, stand or table, as the monitor may fall, causing serious damage to the monitor.
- If you connect or disconnect the HDMI cable while both of PC's and LCD monitor's power is turned on, the monitor might show some garbage on the screen or could be damaged. Please turn off the TFT-LCD monitor's power before connect or disconnect HDMI cable.
- Ensure that sufficient space is available around the display to provide air circulation for cooling.
- Ensure that ambient air temperature will not exceed the specified maximum temperature.
- Handle with care when transporting. Save packaging for transporting.
- Do not touch or press the surface of on the LCD panel, it will cause a permanent damage. Use only soft cloth with non-ammonia glass cleaner to clean the panel.

Thank you for your selection of FHD Touch Screen Display Monitor

Please take a few minutes to read this User's manual for the best performance of this monitor.

Information in this manual is subject to change without prior notice for improving design, function and etc.

1. Package Contents

Your LCD monitor package will consist of the primary components listed below.



Touch USB Cable



HMDI Cable



ADAPTER

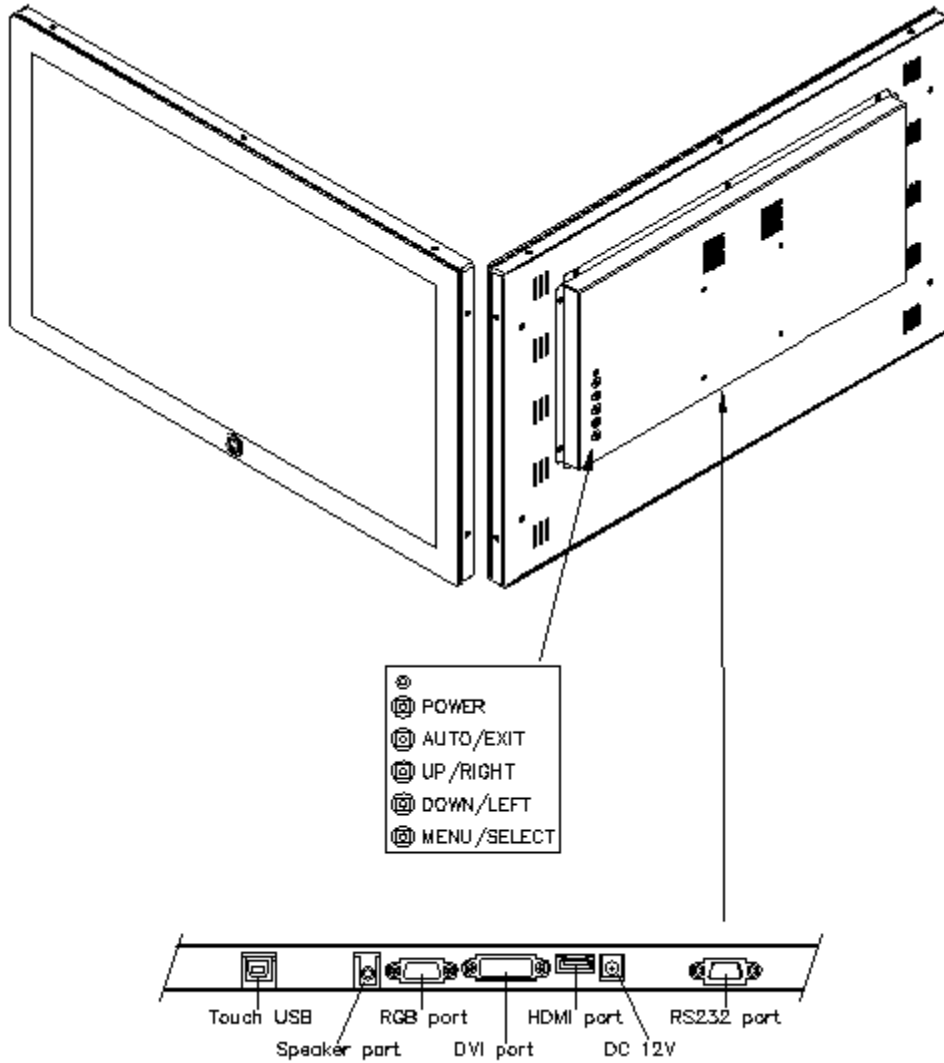


Power Cord

** It's possible that it can vary from country*

Note) Actual accessories may differ from those in this user's guide.

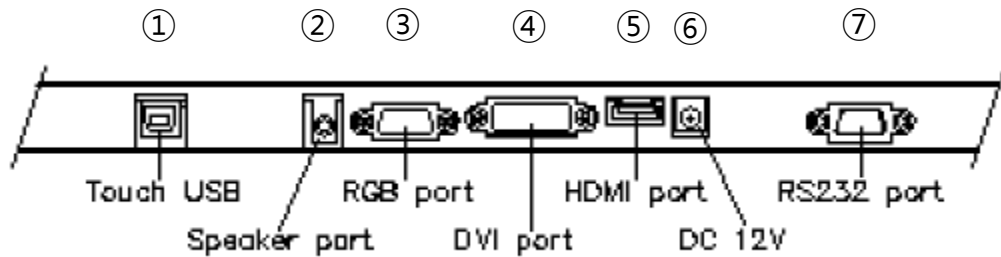
2. Product Configuration



Interface Terminal (Attached page 7)

Note) Actual Touch Screen Monitor may differ from those in this user's drawing

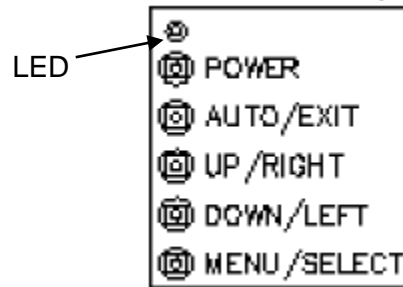
3. Interface Description



No	Name	Description
1	USB(Touch)	<ul style="list-style-type: none"> • Touch screen connect USB cable. • Connect to PC's USB 2.0 port
2	HP In	<ul style="list-style-type: none"> • For AUDIO In
3	VGA	<ul style="list-style-type: none"> • For VGA Input 1
4	DVI	<ul style="list-style-type: none"> • For DVI Input 1
5	HDMI1	<ul style="list-style-type: none"> • For HDMI(2.0) Input 1 • Connector to the digital video and audio input terminal
6	DC	<ul style="list-style-type: none"> • DC12V 3.5A
7	RS232	<ul style="list-style-type: none"> • For RS232 Input 1

4. OSD Control Board Description

4.1 OSD Interface Description



No	Name	Description
1	LED	<ul style="list-style-type: none"> • Indicated LED <ul style="list-style-type: none"> - . Red Color : Display Power On - . Green Color : Display On
2	POWER BUTTON	<ul style="list-style-type: none"> • Display Power On / Off
3	AUTO/EXIT	<ul style="list-style-type: none"> • Auto Adjust(VGA Mode Only) • Exit the present menu
4	UP / RIGHT	<ul style="list-style-type: none"> • Up shift • Right shift
5	DOWN / LEFT	<ul style="list-style-type: none"> • Down shift • Left shift
6	MENU / SELECT	<ul style="list-style-type: none"> • Display the setting menu • Increase level • Selected to Input video source : Hot key

OPERATING THE MONITOR

To create the best picture, your LCD monitor has been preset at the factory with the COMPLIANT TIMING shown on page ???. You are also able to adjust the picture by following the button operation shown below. For more detailed adjustments, see page 11 for SCREEN ADJUSTMENTS.

- **MAIN ICON**

MAIN ICON	Description	Remark
ICON 1	LUMINANCE	
ICON 3	PICTURE	D-SUB ONLY
ICON 4	COLOR	
ICON 5	OSD SETTING	
ICON 6	SETUP	

- **ICON 1 : LUMINANCE**



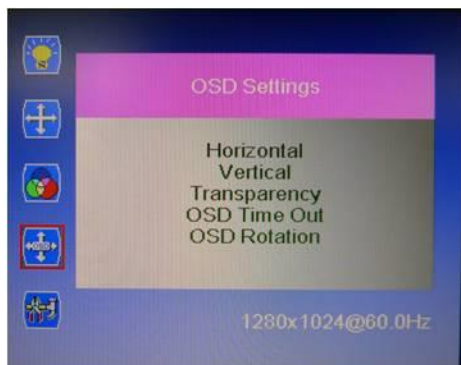
- **ICON 2 : PICTURE**



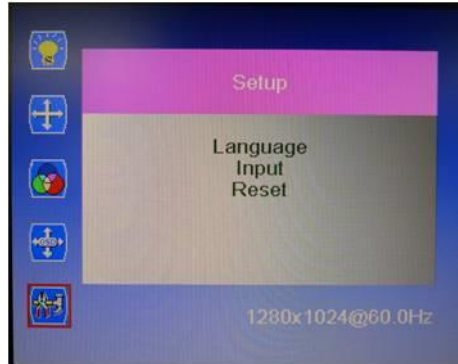
- **ICON 3 : COLOR**



- **ICON 4 : OSD Setting**



- **ICON 5 : SETUP**

**ADJUSTMENT MENU CONTENTS**

	Item	Adjust	Remark
LUMINANCE	Brightness	0-100	
	Contrast	0-100	
	Gamma	ON/OFF	
	DCR	OFF/DCR/DBC	
PICTURE(D-SUB Only)	PHASE	0~100	
	CLOCK	0-100	
	H.POSITION	0~100	
	V.POSITION	0~100	
COLOR	Color temperature	6500K,7500K,8200K,9300K, 11500K,sRGB,User Define	
	Red	0~100	
	Green	0~100	
	Blue	0~100	
OSD setting	Horizontal	0~100	
	Vertical	0~100	
	Transparente	0~4	
	OSD TIMER	15(5~60Sec)	
Setup	LANGUAGE	English (English/Italian/French/Spanish/German/Portugues e/Russian/Chinese)	
	Mute	OFF(OFF/ON)	
	input	D-SUB/DVI/HDMI	
	Display Size	4:3/Full Screen	
	Reset	No/Yes	

5. Trouble shooting

Phenomenon	Confirmation and action
No Display	<ul style="list-style-type: none"> • Check that the Power code is properly connected to the display. • Check that Power on/off button on the OSD • Check that the signal cable is properly connected to the display. • Try disconnecting the video cable from the display and connecting to another display if available to confirm the presence of proper video. • Make sure the resolution mode is supported by the display and check display settings of the PC • Confirm that the video cables is not defective.
Image Persistence	<ul style="list-style-type: none"> • Image persistence occurs when a ghost of an image remains on the screen after the screen image has been changed. • The LCD monitor's image persistence is not permanent. To erase an image ghost, turn the monitor off for several hours. • What happens is the liquid crystals after extended periods of operation. • Check for proper Max. Resolution and Frequency.
Picture Quality & Image Stability	<ul style="list-style-type: none"> • Check for proper video cable for proper grounding and shielding. • Check the signal source for proper signal. • Check for proper adjustment of the Phase and Frequency controls. • Check for proper recommended signal timing.
Green LED not lit	<ul style="list-style-type: none"> • Check for proper power and power connections.
Display image is not properly sized	<ul style="list-style-type: none"> • Press the "Select" button to Auto Adjust the display. • Adjust the Vertical and Horizontal size controls via the OSD. • (Reference setup adjustments) • Ensure that a supported mode is selected on the display card or system being used. Consult the display card or system manual for proper video.
Display is present but "bar" Appear or roll across screen	<ul style="list-style-type: none"> • Ground contact problem between computer and display. • Interference from adjacent equipment.

Phenomenon	Confirmation and action
Image will not adjust	<ul style="list-style-type: none"> • Video timing outside of range • Use the one-screen menu to adjust the clock setting. • Make sure timing is within VESA standard.
Slight distortion in text or Graphics	<ul style="list-style-type: none"> • Not working in native resolution
Vertical shaded bars on Screen image	<ul style="list-style-type: none"> • Horizontal size not properly adjusted. Adjust horizontal size
Image is not stable	<ul style="list-style-type: none"> • Monitor has incorrect or bad sync signals. • Check for proper video cable installation. • Replace suspected faulty cable. • Check to ensure that video source is within the display's operating range.

6. Specification

(1) MONITOR SPECIFICATIONS

ITEMS		SPECIFICATION
Panel	Screen Diagonal	23.8 inch
	Active Display Area	527.04 x 296.46 mm
	Display Type	Transmissive mode, Normally black
	Max. Resolution	1920 x 1080
	Display Colors	16.7M Colors, 8Bits(D)
	Pixel Pitch	274.5 x 274.5 um
	Brightness	250 cd/m ² (Typ.)
	Contrast Ratio	1000 : 1 (Typ.)
	Response Time (G to G)	14ms (Typ.)
	Viewing Angle	178°(H), 178° (V) Min.
	Lamp Life Time	30,000Hrs (Typ)
Input Video Signal		HDMI, DVI , VGA , RS232
Audio	Input / Output	HDMI / ø3.5 Phone Jack for Headphone, Speaker
	Speaker Output	2Wrms + 2Wrms (± 10%)
Control/OSD		5 KEY
Indication LED		Power Off : Led Off , St-by : Red Blinking , Normal : Green
Power Input		DC 12V 3.5A
Power Management		VESA DPMS

(2) TOUCH SPECIFICATIONS

ITEMS	SPECIFICATION
Touch Type	PCAP (Projected Capacitive) ILITEK Controller
Touch Input Method	Finger
Number of Touch Point	10 Points Multi-Touch
Available Object size	ø9mm(Finger)
Response Time	10ms
Thickness	3.4mm(Glass : 3mm, Sensor : 0.4mm)
Transmittance	84%(Typ.)
Position Accuracy	+/- 1mm (outside 3.5mm from edges) +/- 2mm (within 3.5mm from edges)
Interface	USB 1.1 FS, HID Compliant Plug & Play / RS232 (Option)
Supported OS	Windows 7/8/10/11, Linux (Linux USB/HID Driver) : above kernel Ver.4.x.x, Android

(3) MECHANICAL SPECIFICATIONS

ITEMS	SPECIFICATION
Outline Dimension (HxVxD)	585.4±1.2mm x 355.4±0.8mm x 40.5±0.3mm
Weight(Net/ Gross)	7.3Kg Approx./ TBD
Standard Accessory	HDMI Cable, USB Cable, Power Cord, Adapter
VESA Mount Size	100 x 100 (mm) ,4-M4

(4) CONNECTOR INTERFACE

ITEMS	DESCRIPTION	
HDMI	HDMI x1	
DVI	DVI-I Dual-Link (Only Support DVI-D Dual-Link Signal)	
VGA	D-SUB 15pin Female	
Headphone Output	3.5ø Stereo Phone Jack	
USB (Touch Interface)	Connector	USB Type 'B' Female
	Power	USB Bus Powered
	Protocol	Human Interface Device(HID)
	Operation	Plug & Play
	Speed	USB 1.1 Full Speed

※Notice 1 : Do not set battery mode or power save mode in computer power option.

※Notice 2 : The standard of USB communication length is 5M(refer to usb.com)

When you use USB extension Cable, data loss and degradation might be able to be occurred.

In order to minimize data loss and degradation according to USB extension Cable using,

We highly recommend Repeater using to provide external power supply.

(5) ENVIRONMENTAL CONDITIONS

ITEMS	SEPECIFICATION
Operating Temperature	0 ~ 50 °C
Operating Humidity	10 ~ 90% (Non Condensing)
Storage Temperature	-20 ~ 60 °C
Storage Humidity	10 ~ 90% RH(Non Condensing)

(6) ELECTRICAL SPECIFICATIONS

ITEMS	SEPECIFICATION
Power Supply	DC 12V
Power Consumption	Max. 2A