TOUCH SCREEN User Manual



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Important Safety Information

Read and understand all safety information before using this product. Follow all instructions marked on the product and described in this document. Pay close attention to the following installation warnings and safety precautions.

Intended Use

The touch monitor was designed for touch input and tested to replace an existing monitor. These monitors are intended for indoor use only and are not designed for use in hazardous locations.

Explanation of Signal Word Consequences

DANGER: To avoid the risk of fire and/or explosion which will result in serious injury or death: Do not install or use this product in a hazardous location.

WARNING:To avoid the risk of fire which could result in serious injury or death:Do not remove the cover or back of the monitor.

CAUTION:To avoid the risk of electric shock which could result in serious injury or death:

- •This device must be operated with the original power supply,
- •Do not use a damaged power supply.
- •Do not use a power cord that is frayed or otherwise damaged.

CAUTION:To avoid the risk of electric shock which may result in minor or moderate injury:

- •The socket-outlet should be installed near the equipment and should be easily accessible.
- •Use a power cable that is properly grounded. Always use the appropriate AC cord certified for the individual country. Some examples are listed below:
- •Do not service the monitor Do not remove the cover or back of the monitor. There are no user serviceable parts inside. Refer all servicing to qualified service personnel. The backlight inverter output is at high voltage.
- •Do not use non-conforming replacement parts.
- •Do not expose the monitor to rain or other sources of water, steam, or moisture.
- •Do not place foreign objects on the monitor or its cables.

CAUTION: To avoid the risk of minor or moderate personal injury or damage to the monitor:

- Never wall-mount the monitor without the locking mechanism in place.
- Use an anchoring system appropriate for the weight of the product.
- Consult a construction professional before attempting to hang the unit on the wall.

To avoid the risk of glass breakage which may result in minor or moderate injury:

- Handle the monitor with care to avoid breaking the touch screen sensor. The display contains glass parts. Dropping the display may cause the glass parts to break.
- Do not place foreign objects on the monitor.

Important Notes:

- •Plug powercord into appropriate power source & a grounded receptacle.
- •When unplugging power supply cord, pull on plug not cord.
- •Do not connect or disconnect this product during an electrical storm.
- •Install the display in a well-ventilated area. Always maintain adequate ventilation to protect the display from overheating and to ensure reliable and continued operation.
- •Do not expose this display to heat. Passive heat may cause damage to the case and other parts.
- •Do not install this display in areas where extreme vibrations may be generated. For example, nearby manufacturing equipment may produce strong vibrations. The vibrations may cause the display to exhibit picture discoloration or poor video quality.
- Product weight varies from 10 to 24 pounds depending on the packaging, use caution when lifting.
- Ensure that metal does not contact the touch screen.
- To avoid ergonomic concerns:
- Do not install the monitor in a manner or location with awkward accessibility. Extended use may result in muscle, tendon, or fixed posture strains. It is recommended you take periodic breaks from continuous use.

CAUTION: To avoid the risk of electric shock which may result in minor or moderate injury:

Liquid is spilled into the product or the product is exposed to rain or water. The product does not operate properly when operating instructions are followed.

•The product has been dropped or the case has been damaged.

•The product shows a distinct change in performance, indicating a need for service.

Touch Screen Care and Cleaning

The touch screen requires very little maintenance. We recommends that you periodically clean the glass touch screen surface. Typically, an isopropyl alcohol and water solution ratio of 50:50 is the best cleaning agent for your touch screen. You can also use straight isopropyl alcohol. Apply the cleaner with a soft, lint-free cloth. Avoid using gritty cloths. Always dampen the cloth and then clean the screen. Be sure to spray the cleaning liquid onto the cloth, not the screen, so that drips do not seep inside the display or stain the bezel. Always handle the touch screen with care. Do not pull or stress cables.

- •Be sure to follow solvent manufacturer's precautions and directions for use when using any solvents.
- •It is important to avoid using any caustic chemicals on the touch screen. Do not use any vinegar-based solutions.

Accessories

Please check the following listed accessories before installation:

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VGA cable	one pcs
AC Power Cord	one pcs
AC /DC Power supply	one pcs
User's Manual	one pcs
Touchscreen software CD	one pcs
Foam blocks (with out frame)	four pcs
Wall-mount kit (if applicable)	one set
Bracket kit (if applicable)	one set

Installation

(1)System Requirements

The touch monitor requires a personal computer (PC).

The requirements for your PC are as follows:

- •Your PC must have an available RS-232 serial communication (COM) port or USB port. You connect the touch screen to this port.
- •Your PC must have a video card and video driver already installed for the monitor. If you need to install a video card or a video driver, refer to your computer documentation for instructions.

When choosing your workspace, select a sturdy, level surface. Also, make sure you can easily access the back of the touch monitor and the computer. Easy access helps ensure a smooth setup of the touch monitor.

Note: Before setting up your monitor, refer to the Important Safety Information section at the beginning of this document.

(2) Connecting the Touch Monitor

- 1.Turn off your computer.You should always turn off the computer Before connecting or disconnecting any device.
- 2. Connect one end of the VGA cable to the VGA connector on the monitor. Connect the other end to the video card in your computer.
- 3. Connect one end of the touch screen cable (either serial or USB) to the monitor. Connect the other end to an available port on the back of your computer. If you are using a USB connection, make sure you have installed the Touch Software drivers before connecting the touch screen cable.
- 4. Plug the AC/DC power supply into the monitor. Be sure to use the power supply included with the monitor.
- 5. Connect the power cable to the AC/DC supply. Connect the other end to the appropriate AC outlet.

(3) Connecting the Monitor Cables to your Computer

You should be sure all cable connections are secure — tighten all cable screws. Shaking and vibration may dislodge cables that are improperly connected.

Route all wiring and cabling away from heat sources and sharp metal edges to avoid damage. Also, keep the touch screen cable away from sources of electromagnetic and radio frequency interference.

(4) Testing the Monitor

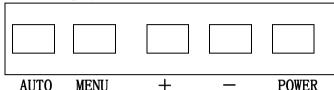
After connection, turn on the power switch located on the rear(or side) bezel. Before you test your touch monitor, make sure all cables are connected properly and routed through the cable management system. Be sure to tighten all cable screws. To test that the monitor is working properly:

- 1. Turn on your computer.
- 2. Make sure the video image is displayed. If it is not, turn on your monitor. Ensure the LED is blue red indicates power but no signal.
- 3. Make sure the video image is centered within the screen area. Use the monitor controls to adjust the image, if necessary. Perform an Auto Config first, then if you wish you can adjust the horizontal and vertical position, contrast, and brightness to better suit your video card and your personal

preference. Refer to Basic OSD setup for more information on using the on-screen menu to adjust the video display.

Controls & Functions

1. Video Display Controls



"AUTO": Performs automatic configuration of the Phase, Clock, vertical, and horizontal position.

"Menu": Shows or hides the menu.

"— / Left': Enables you to scroll backwards through items on the menu -- decrease the value of selected option or move to the previous menu item.

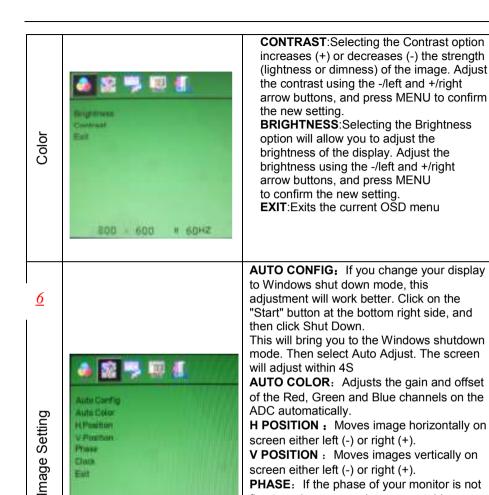
"+ / Right": Enables you to scroll forward through items on the menu - increase the value of selected option or move to the next menu item.

"Power": press this button to turn on or off the unit.

Basic OSD setup

OSD setup under VGA input mode

- 1) Pressing MENU will pull up the On Screen Display (OSD) menu, as shown below.
- 2) Highlights the current menu option or saves the current setting. Press or + to change the value. Press "menu" choose to save settlings and press "auto" to Cancel the current operation
- 3) EXIT:Exits the OSD menu and choose to save any settings (or not). *Note: the setting interface only available when connected with computer



800 - 600 # 60HZ

fine-tuned, you may observe unstable

CLOCK: If the clock setting of your image is not fine-tuned, you may observe periodic vertical bars of video noise on your image. These bars of noise are usually adjusted out when an Auto Configuration is performed. If the bars of noise are still present, this setting

horizontal

can be adjust manually.

LANGUAGE: Selects a language among English, German, French, Spanish, Italian, Simplified Chinese Language or Traditional Chinese. **EXIT**: Exits the current OSD menu 800 - 600 . 60HZ **RESET:** Resets the control functions back to the original factory preset values. In order for the Recall function to work, the timing must fall under one of the factory preset timina modes. BLUE: blue screen, ON or OFF COLOR Misc **MODE:** Adjusts the gain and offset of the Red. Green and Blue channels on the ADC automatically. SHARP: Adjusts the video quality to be sharp or blurry (special for text mode). **EXIT**: Exits the current OSD menu 800 - 600 - 60HZ **EXIT** Exits the OSD menu.

I Connect Hardware

- 1) Connect VGA with the VGA port on host computer
- 2) Put interface of touch screen into port of COM/USB on host computer
- 3) Connect power adapter with power port on the backside of monitor.
- 4) Startup computer

II. Installing Touch Software and calibration(e.g USB2.0) caution:if an older version of touchscreen software is installed in your computer, you should uninstall the older version first.

- connect the supplied USB cable to a free port on your computer .the system will detect the USB driver automatically.(Found New Hardware)
- 2) A message will appear advising the device is installed and ready to use.
- 3) Insert the touchscreen driver CD. Run the "setup.exe" file. When the following dialog box appears, click Next
- 4) Click **Finish** to complete the touchscreen installation
- 5) Click "Finish" will pop-up "digital signature not found" window, press"yes" continuing the installation
- 6) Through digital signature, driver, and installed pop-up control panel Through digital signatures, the drive to complete the installation, and pop-up control panel







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Hant "Dente" to meet the same

III Set Parameter of COM Interface

(I) Sound Settings:

Select audible beep on touch down, touch up, or no beep at all. Click on the Beep button to select the appropriate option for your application. The default setting is touch down

(II) Mouse mode

- 1)."Click on touch up" touch screen for just the time to respond to body;
- 2). "Click on touch down" body for the finger away from the screen when the response;
- 3). "Dragging" function with the "touch when clicking", but they can drag in the screen body; "Drag, double-click" function with the "drag", but to

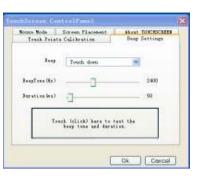
increase the effective range of the double-click to make it easier to double-click.

(III) Screen placement

To associate or link a touch screen to a particular monitor, select that monitor and simply touch a touch screen. Note that the monitors have colored frames that will blink when selected and match the touch screen frame once they have been linked Click on the screen placement button to select the appropriate option for your application. The default setting is Single monitor.



Edge Adjustment Tab



Touch Points Calibration Res Settings

After changing Double Click Field, please log-on or reboot the system to make the operation efficiency.

RIGHT BUTTON DELAT is a presenter for sucto making a mouse rightbutton chicked event, when caser keep touching at somewhere waits for several hundreds

Ok Cancel

Double Click Field:

Right button dellar 1 Da

Once you calibrate the touch screen, the cursor should be located directly beneath your finger when you touch the screen. However, this may make it difficult to touch items at the very edges of the screen. The Edge Adjustment tab enables you to define an offset area in which the cursor moves closer to the edges of the screen so you can easily and more precisely select small items, such as single words, the Windows Start button, check boxes, or radio buttons.For example, if you have a row of buttons along the left edge of your touch screen, you may want to set an edge adjustment to enable users to easily activate these buttons.Because each edge is independent of the other, you only need to adjust the left margin to accommodate this row of buttons.

(IV) Calibrating the TouchScreen

click"start" program touch screen utility calibrate
Touch the screen positioning your fingertip to completely cover the
red target. This position is calculated upon liftoff and when you
remove you finger, the second calibration target appears in the
lower right conner of the touch screen. Repeat these instructions
for additional calibration targets. When touching the calibration
target, make sure to:

- 1). Face the monitor directly.
- 2). Perform the calibration in the position (sitting or standing) you expect to normally use the touch screen.
- 3). Touch the calibration target firmly and precisely with your fingertip. During Calibration, be careful to keep your fingernails and other fingers away from the touch screen as you touch the target.





- •Selecting Yes will keep the new calibration settings.
- •If you select Cancel, it will be pre-calibration setting again.



(V) Testing the Calibration

If you accidentally liftoff from the screen in the wrong place during calibration, you will distort the touch screen calibration. Test by touching several points on the screen to make sure you are satisfied with the calibration results. The cursor should be located underneath your finger or pen when you touch the screen. Repeat the Calibration process until you are satisfied. Recalibrate the touch screen if any of the following tests fail

- Touch random points on the screen. The cursor should be located underneath your finger or pen when you touch the screen.
- Drag your finger across the screen and check that the cursor follows your movements.
- Touch each corner and along the edges of the screen. Verify that the cursor reaches the full image area of the screen. Be sure you can touch and activate all icons and menus across the entire screen.
- •If you are using a TouchPen, repeat the calibration procedure with the pen.
- If you need to recalibrate the screen, make sure to touch the targets carefully. It is possible that one of your touches did not register properly or you accidentally touched the screen in the wrong place during calibration. For example, if you touch beyond the targets or into the non-image area, you will distort the touch screen calibration.

2. Uninstall the driver:

A: click"start" → program→ touch screen utility → uninstall

B: click Finish to complete the driver uninstall.

Troubleshooting the Touch Screen

Overview: If you are unable to resolve your problem using the troubleshooting information contained in this chapter or contact related Technical Support.

If you are experiencing problems with the touch screen, check that all cables are connected properly and restart your system. Verify that any previously loaded hardware/software that used the same serial port as your touch screen has been uninstalled. Just because the hardware is disconnected does not mean that the software is not claiming the port. Ensure that all components are completely removed from the system files. To correct the communication settings in a Windows system, use the Windows Hardware Conflict Troubleshooter from Windows Help.

1) Touch screen does not respond

- Review the installation procedures. Are all cables connected to touch properly?
- After you installed Touch Software, did you restart your PC to activate the touch screen driver?
- Are the communication settings correct? Is the touch screen trying to use the COM port or IRQ of another device (for example, a mouse)? If so, a hardware device conflict will result and the touch screen will not work.

2) Touch screen is not accurate

 Calibrate the touch screen for the current video resolution and operating system.

3) Cursor does not follow finger movement or does not reach the edges of the screen

Try calibrating the touch screen. When calibrating the screen, be sure you touch the center of each target firmly and precisely. If

additional tuning is necessary, use the Edge Adjustment Tab to enable greater ability to touch into corners and edges of the scree

4) Cursor is not located directly underneath your finger

- 13 pen the touch screen control panel and make sure all cursor offsets (vertical, edge/horizontal) are turned off.
- Calibrate the touch screen for the current video resolution and operating system.

5) Cursor is extremely jittery or erratic

• Stabilize the cursor by adjusting the operating frequency of the touch screen controller using the touch screen control panel. You need to adjust the touch screen frequency. Choose Touch Screen Frequency from the Controller tab. Any time you adjust the frequency you should test how the touch screen is working and verify you are satisfied with the operation of the touch screen. Note that this option only applies to capacitive EX II based controllers.

6) Cursor is Jittery

You need to adjust the touch screen frequency. Choose Touch Screen Frequency from the Controller tab. Any time you adjust the frequency you should test how the touch screen is working and verify you are satisfied with the operation of the touch screen.

7) Double-Click Doesn't Work

Use the Touch Settings tab to adjust the double-click speed and area. The double-click speed defines how quickly you must touch the screen for the system to interpret your actions as a double-click. Set the double-click speed in the slow to medium range for optimum performance with a touch screen. The double-click area defines the space in which you must touch the screen for the system to interpret your actions as a double-click.

Model no.	TS08	TS10.4	
Display Area (⊞×V)	162×122mm	246.50 × 179.4mm	
Touch panel(option)	Saw、4-wire resistiv etc.	Saw、4-wire resistiv etc.	
Touching Life(typ.)	≥ 5000,0000 times(saw) ≥ 100,0000(4-wire resistive)		
Pixel Pitch(mm)	0.0675(H) × 0.02025(V)	0.33(H) ×0.33(V)	
Touch Sensibility Touch force	Touch force lower than	80g(adjust allowed)	
Surface Hardness	Mohss hardness rating of 7.		
Best Resolution	800 x 600	640x480, 800x600, 1024x768	
Brightness(typ.)	200nit	350nit	
Contrast Ratio(typ.)	500:1	300:1	
Viewing Angle(typ.)	70°(H)/70°(V)	80°(H)/70°(V)	
Response Time(option)	10/15ms	20/40ms	
OSD Language(option)	English, French, German, Spanish. Chinese etc.	English, French, German, Spanish. Chinese etc.	
Work temperature	-10-60℃	-10-60℃	
Work Humidity	20%-70%	20%-70%	
Input Terminal(option)	DC12V、VGA USB1.1/RS232 etc.	DC12V、VGA USB1.1/RS232 etc.	
Power input	AC100-240V 50/60Hz DC 12V 2A		
Power consumption	<10W	<10W	
Metal case	Aluminum cabinets and open frame wall mount type	Aluminum cabinets and open frame	

Panel Type	TS12.1	TS15
Display Area (H×V)	278.3×209mm	304.128×228.096mm
Touch panel(option)	Saw、4-wire resistiv etc.	Saw 4-wire resistive etc.
Touching Life	≥ 5000,0000 times(saw) ≥ 100,0000(4-wire resistive)	
Pixel Pitch(mm)	0.3075(H) × 0.3075(V)	0.297(H) × 0.297(V)
Touch Sensibility Touch force	Lower than 80g(adjust allowed)	
Surface Hardness	Mohss hardness rating of 7.	
Best Resolution	800 x 600	1024 x 768
Brightness(typ.)	330nit	300nit
Contrast Ratio(typ.)	450:1	600:1
Viewing Angle(typ.)	80°(H)/40°(V)	160°(H)/140°(V)
Response Time(optional)	10/25ms	<16ms
OSD Language(option)	English, French, German, Spanish. Chinese etc.	English, French, German, Spanish. Chinese etc.
Work temperature	-10-60℃	-10-60℃
Work Humidity	20%-70%	20%-70%
Input Terminal(option)	DC12V、VGA USB1.1/RS232 etc.	DC12V、VGA USB1.1 / RS232 etc.
Power input	AC100-240V 50/60Hz DC 12V 2A	AC100-240V 50/60Hz DC 12V 4A
Power consumption	<20W	<20W
Metal case	Aluminum cabinets and open frame wall mount type	Aluminum cabinets and open frame wall mount type

Panel Type	TS17	TS19
Display Area (H×V)	337.920 × 270.336mm	376.32 × 301.156mm
Touch panel(option)	Saw、4-wire resistiv etc.	Saw、4-wire resistiv etc.
Touching Life(typ.)	≥ 5000,0000 times(saw) ≥ 100,0000(4-wire resistive)	≥ 5000,0000 times(saw) ≥ 100,0000(4-wire resistive)
Pixel Pitch(mm)	0.264(H) × 0.264(V)	0.294(H) × 0.294(V)
Touch Sensibility Touch force (adjust allowed)	Lower than 80g	
Surface Hardness	Mohss hardness rating of 7.	
Best Resolution	1280 x 1024	1280 x 1024
Brightness(typ.)	300nit	350nit
Contrast Ratio(typ.)	700:1	700:1
Viewing Angle(typ.)	120°(H)/140°(V)	150°(H)/160°(V)
Response Time(option)	5~10ms	5~10ms
OSD Language(option)	English, French, German, Spanish. Chinese etc.	English, French, German, Spanish. Chinese etc.
Work temperature	0-50℃	0-50℃
Work Humidity	20%-70%	20%-70%
Input Terminal(option)	BNC(In/out) Audio(in/out) VGA ,S-VIDEO	BNC(In/out) Audio(in/out) VGA ,S-VIDEO
Power input	AC100-240V 50/60Hz DC 12V 4A	AC100-240V 50/60Hz DC 12V 4A
Power consumption	<48W	<48W
Metal case	Aluminum cabinets and open frame wall mount type	Aluminum cabinets and open frame wall mount type