

SMA series Touch Monitor

User Manual

Please read this manual very carefully before using your device and store in a safe place for future reference.



Take down the model number for reference.

Model No. : _____ Serial No. : _____

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Important Notes

For your safety please read this manual very carefully before use and keep it properly for any reference. We will take no responsibilities for any accidents resulting from violation of the safety and usage guidelines in this Manual.

Explanation of Signs

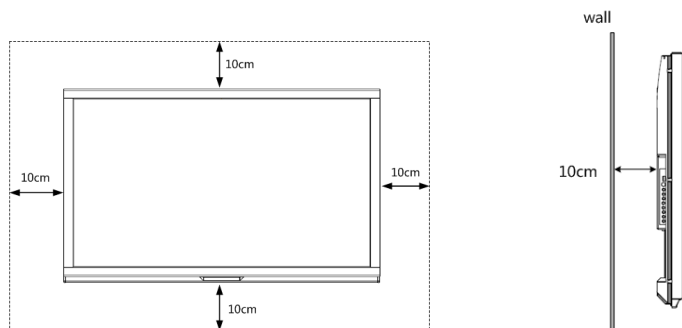
The signs used in this Manual and which are affixed on the product are listed below. Please read the Manual carefully and make sure you fully understand these signs.

 Warning	This sign warns about the risk of serious personal injury or even death due to incorrect operation.
 Notice	This sign warns about the risk of personal injury or property damage due to incorrect operation.
 High risk	This sign warns of high voltage. Only professional staff is allowed to maintain and replace the parts to avoid fire or shock hazards.

 Warning	
<ul style="list-style-type: none"> • To avoid electric shock, do not open the back cover. There are no parts inside that users can fix. Turn to a professional if you encounter any problems. • Do not insert any metal parts into the openings of the monitor, to avoid electric shock. • Do not install this monitor on an unstable surface, such as a loose shelf, a sloping floor or an insecure wall. Turn off the power and contact the local dealer if the monitor falls to the ground or gets damaged. • Keep the monitor away from rain and do not install in places near water (e.g. bathtub, basin, wet floor, etc.). If the monitor accidentally gets wet, disconnect the power, unplug from the power source, and contact your local dealer. 	
 Notice	
<ul style="list-style-type: none"> • The openings on the back cover are designed for ventilation and allow heat to escape. Do not block these openings and use the monitor only in adequately ventilated places. • Make sure the power outlet is in good condition before plugging the monitor, to avoid electric shock or damage. • Unplug the power cable and TV tuner during bad weather and thunderstorms to avoid damage. • Clean the monitor with a soft cloth. Never use harsh chemicals to clean your monitor. • Do not use any object or material that can scratch the surface or cause friction or indentations. • Do not affix stickers, labels or gummed paper to the touch screen. Keep it clean. • Avoid dropping the remote control. 	

Make sure you have enough space for installation

Allow the necessary distance between the monitor and other objects (e.g. the wall) to ensure adequate ventilation. Product failure may result from heat build-up caused by poor ventilation.

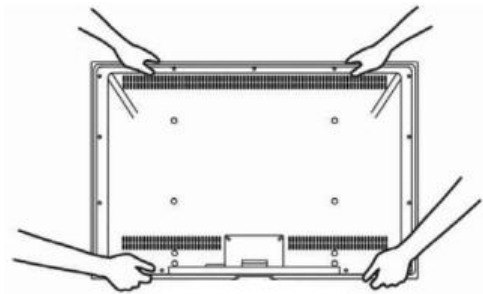


☞ Physical appearance may vary slightly depending on the model.

Moving the monitor

Two persons or more are required to handle the monitor.

Hold the top and bottom frame firmly to move the monitor.



Accessories

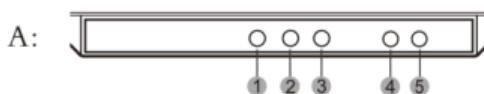
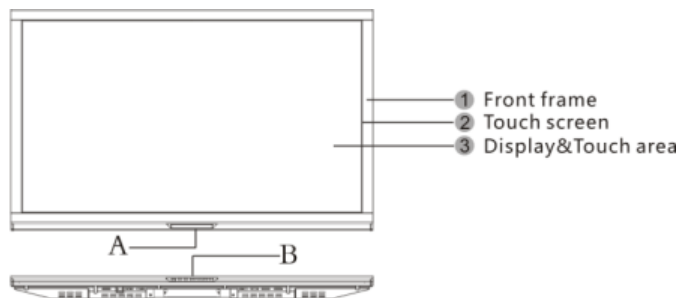


☞ These images are intended for reference only. Refer to actual product.

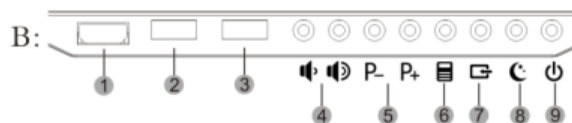
Features

- The super speed infrared touch screen allows for smooth writing, stable performance, prompt response and HID. It can support multi-touch (2-point and 4-point) with possibility to zoom in/out, drag and rotate the object selected.
- It uses high quality FULL HD LED panel with features of high brightness, high contrast ratio, color optimization function, bit by bit image, dynamic and static screen enhancing function.
- Optional PC box leaves no external cables.
- Super slim, esthetically pleasing frame, just 8 cm.
- Very low power consumption in standby mode.
- Rounded corners ensure safety
- Additional USB and HDMI inputs in the front.
- Power ON-OFF by remote control.
- Compatible with Windows, Linux, and other Operating Systems.

Control Panel



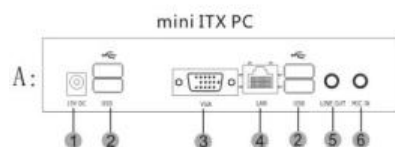
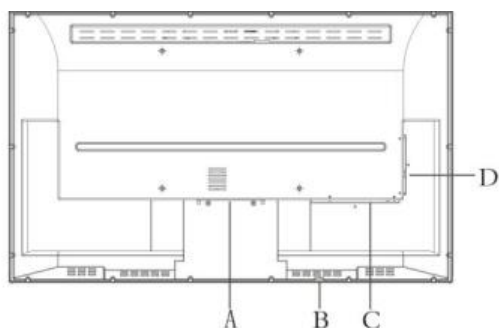
- ① Remote control sensor
- ② Indicator of TV power
- ③ Indicator of PC power
- ④ Distance sensor Launch
- ⑤ Distance sensor receive



- ① HDMI 1 input
- ② USB-Host for PC connection
- ③ USB-Touch for touch screen connection
- ④ Volume ±
- ⑤ Channel ±
- ⑥ TV function menu
- ⑦ Source
- ⑧ Key for LED backlight on/off
- ⑨ Key for all-in-one machine

☞ PC power indicator lights up in models with built-in PC

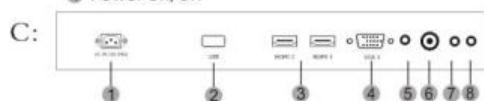
Interface



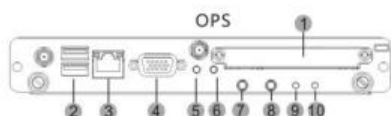
- A:
- 1 19V input, for testing only
 - 2 USB 2.0*4
 - 3 VGA output
 - 4 Ethernet
 - 5 Audio output
 - 6 Microphone port



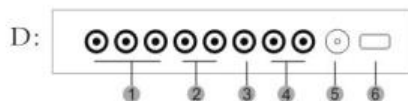
- 1 Power on/off



- 1 Power plug in
- 2 Multi-media
- 3 HDMI
- 4 VGA
- 5 Audio corresponding to VGA
- 6 SPDIF output
- 7 Audio output
- 8 3.5 mm AV output



- 1 2.5" HDD slot
- 2 USB 2.0*2
- 3 Ethernet
- 4 VGA
- 5 Power on/off
- 6 Reset
- 7 Audio output
- 8 Mic
- 9 Indicator of power
- 10 Indicator of HDD



- 1 YPbPr signal in
- 2 YPbPr audio in
- 3 AV video in
- 4 AV audio in
- 5 Tvsignal
- 6 Multi-media

Remote Control



Replacement of Remote Control Battery



Instructions

Turning on the monitor

When the power cable is connected, the TV indicator on the front control panel is red. Press the POWER button on the front control panel or the remote control, the TV indicator in red will flash for 5 seconds, then the TV and built-in PC (optional) will be turned on. The monitor indicator will be blue and the built-in PC indicator will be green.

To turn on the monitor alone, press POWER button to turn on the PC and monitor as above, then switch off the PC via the operating system.

Turning off the monitor

The monitor and built-in PC (optional) can be turned off with one button as follows :

Initial State	State after pressing POWER (single button solution)
PC is OFF, monitor is ON	Monitor will be turned off
Both PC and TV are On	PC will be turned off first, then the monitor.

☞ If you need to turn both monitor and in-built PC OFF immediately, press POWER button for 3 seconds.

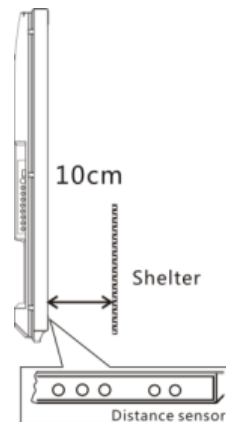
Turning off the backlight

Press SLEEP button on the front control panel to turn off the monitor backlight. The monitor indicator will change from blue to red and the other parts of the monitor will still be working.

Press SLEEP button again to turn on the backlight.

Distance Sensing

There is a distance sensor built into the front control panel. The monitor will turn off automatically if something is blocking the sensor within a 10 cm distance for 8-10 seconds.



Select Signal Source

Via the buttons on the control panel

- ① Press SOURCE button on front control panel: the sources will be listed as shown on the right.
- ② Press P+ or P- to select signal source.
- ③ Press SOURCE button on front control panel to confirm the signal source selected.

Via remote control

- ① Press SOURCE BUTTON on remote control; the sources will be listed as shown on the right.
- ② Press ▲ or ▼ to select signal source
- ③ Press SOURCE button on remote control to confirm the signal source selected.



Auto Switch Source

Both the built-in PC (optional) and HDMI port on the front control panel are in HDMI 1 source as default setting. When you connect an external PC to the HDMI port on the front control panel, the source will be automatically switched to HDMI 1.

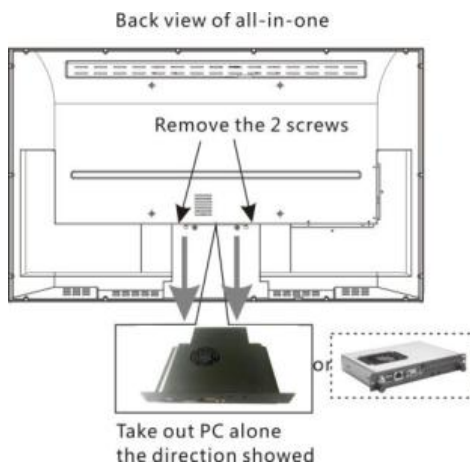
When the built-in PC (optional) and the HDMI port on the front control panel are connected at the same time, you must unplug the HDMI connection on the front control panel and external PC in order to have the signal source from the built-in PC.

Installing and Removing the built-in PC (optional)

The built-in PC box allows for easy installation and maintenance.

The PC is built into the back of the monitor. Loosen the screws and grasp the PC to move it out smoothly.

- ☞ Do not remove the PC if it is functioning properly. If it is necessary to remove it, disconnect the power from the monitor first.
- ☞ Installation is the same for OPS and Mini ATX PCs.



Connecting To External PC

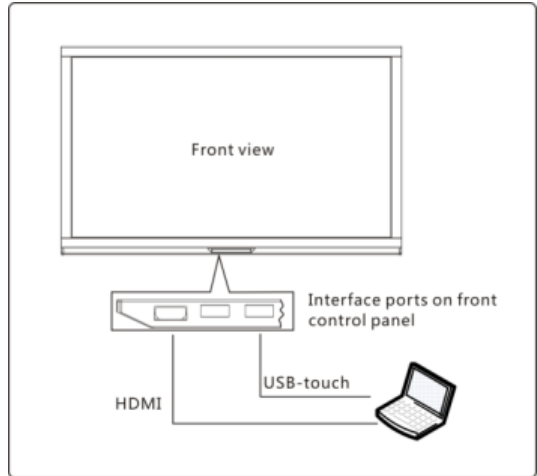
If necessary, you can connect your monitor to an external PC for interactive operation.

① Connecting to interface on front control panel

This monitor has a port on the front control panel for easy operation.

Connect the HDMI cable for video and audio signals; connect the USB cable for touch screen functionality.

☞ HDMI and USB cables may or may not be included in your supply. Check with your dealer in advance.

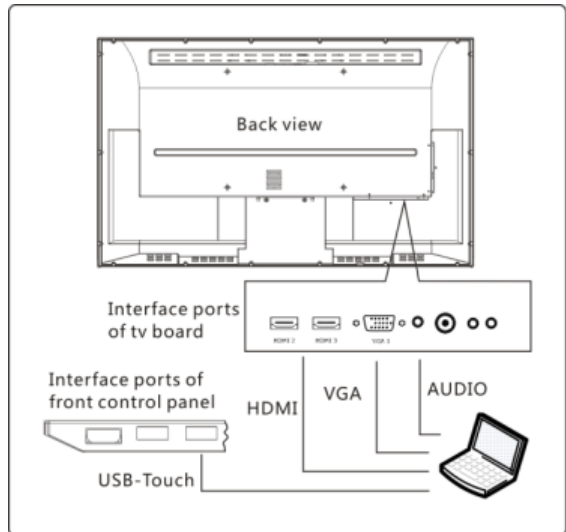


② Connecting to the ports on the back of your monitor.

Connect the VGA and audio cables to transmit the signal from the external PC to the monitor. Then connect USB cable for touch screen functionality.

Connection by HDMI can replace the VGA and Audio cables.

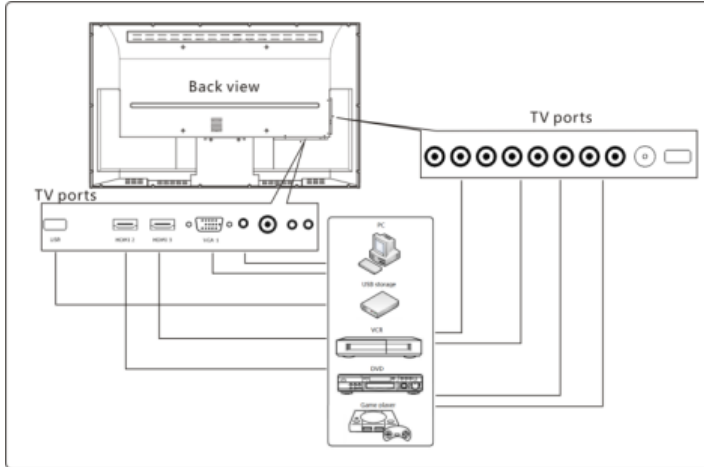
☞



Connecting Other External Equipment to the monitor

You can connect other external equipment like a PC or a DVD to the monitor via VGA, HDMI, YPBPR, AV, USB, etc. (see fig.)

- ☞ The figure is intended for reference only
- ☞ You may have to prepare some connecting cables.

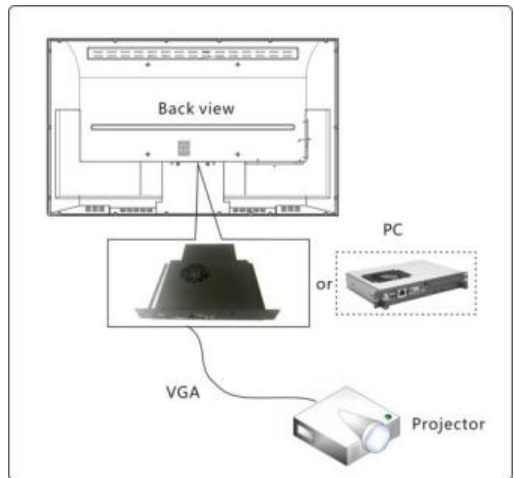


Connecting to a projector

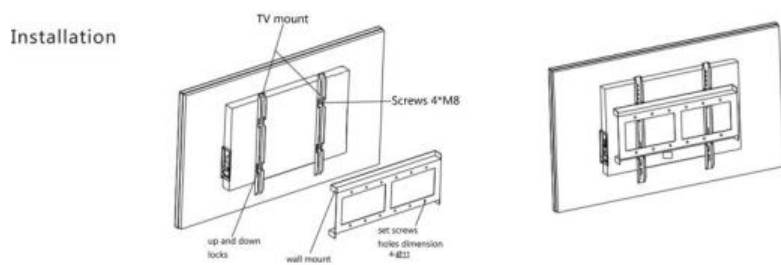
You can connect the monitor to a projector as explained below :

Connect VGA and HDMI output from PC.

Connect VGA output from extended interface.

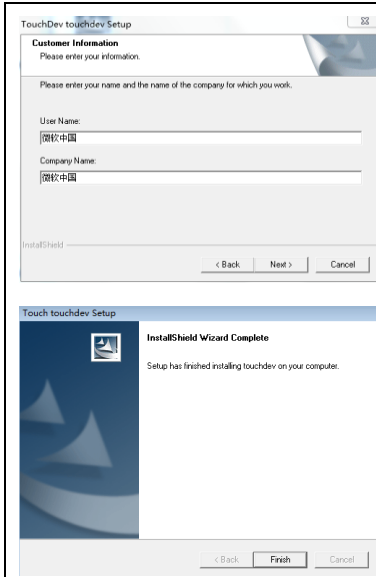


Installing the Wall Mount



Installing and Using the Touch Screen Software


(I) Setup




1. Load the attached disk into the CD-ROM
2. Double-click to run "TouchDevSetup.exe" in the disc.
3. Complete installation accordingly.


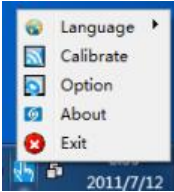
Click "Finish" and run touch screen management application "Fitouch.exe". The installation will be





completed when  appears on the desktop's



lower right-hand corner.  Blue indicates the equipment has been connected.

 Gray indicates the equipment has not been connected or a failed connection

(II) Basic Function

<p>1. Run TouchDev.exe</p> 	<p>By default, the software will automatically execute; the icon can be found on the desktop's lower right-hand corner.</p> <p>If you accidentally close the software, click "start"->"program", find and select "TouchDev", then run it. By default, the shortcut of "TouchDev" is on the desktop. Double click it.</p>
<p>2. Main Menu</p> 	<p>Click the "TouchDev" icon. The main menu will pop up as shown in the figure. Functions include:</p> <p>Language: Lets you select the relevant language for the interface.</p> <p>Calibration: Lets you calibrate the screen so that the touch and actual location on the screen match.</p> <p>Options: Shows basic information regarding the touch screen; allocates relevant parameters for real requirements.</p> <p>About: Shows other information regarding TouchDev.</p>

	Exit: Closes TouchDev.
<p>3. Calibration:</p> 	<p>Standard calibration:</p> <p>As shown in the figure on the left, there are “custom” and “advanced” options for calibration. If neither one of the two options is selected, calibration will be standard. Standard calibration is suitable when connecting only one electronic white board.</p> <p>“Calibrate mode” includes “TouchPanel” (touch screen) and “TouchBoard” (electronic white board). “Touchboard” supports positioning of non-rectangle screen, and “TouchPanel” only supports positioning of rectangle screen. When adopting a projector, choose “TouchPanel” mode.</p> <p>Under “calibrate position” you will find two positions “1” and “2”: in the first the display icon is close to the 4 angles of the screen; in the second, the display icon is close to the center of the screen. (Note: the first is recommended.)</p>
<p>4. Screen calibration :</p> 	<p>After selection, click “calibration”. The interface as shown in the figure on the left will appear. Use a touch pen or your finger to touch the center of icon “”. (During positioning, the touch pen must be vertical to the screen surface, and pen point coincide with the center of icon “”.)</p> <p>The positioning icon will move to the 4 angles of the screen upon touch. For “Touchboard” mode, the icon will also appear in the center of the screen.</p> <p>Custom calibration:</p> <p>Custom mode, when selected, supports two kinds of positioning.</p> <p>1) In “custom” mode two electronic white boards must be connected at the same time. (Custom mode is not supported in the case of one electronic whiteboard.).</p>

	<p>2) Matching between two parts of the screen: When the screen is split in two, with separate performance on both parts at the same time and both parts requiring touch functionality, carry out positioning on both sides, first on the left, then on the right.</p>
<p>5. Options :</p> 	<p>Information:</p> <p>The “Basic” box shows information regarding the current screen. If there is more than one touch screen device, a number will be assigned to each one and their specific information displayed.</p> <p>The “features” box shows updated information regarding the touch screen, “√” is supported, and “x” is not supported.</p> <p>Upgrading method: (related authorized documents are needed before upgrading.)</p> <p>Click “x” in “features” to show the upgrading box:</p> <p>Click “upgrade” to search for the authorized documents for upgrading.</p>
<p>6. Configuration :</p> 	<p>For “service parameters” configuration, we suggest using the default value, unless there is a specific requirement.</p> <p>Description of parameters: right button enabling: select “Yes” to use right button; select “No”, the right button is disabled.</p> <p>Delayed time length: Sets the time length for right button enabling.</p> <p>Fault-tolerant space: Errors while pressing on the screen with the hand; errors within a range are permitted.</p> <p>Sleek coefficient: set sampling points, to ensure data points sent to the system are smooth and to avoid excessive vibration of scribing line.</p>

(III) Basic Operation

General operation	The following operations may be performed on the screen: Click-----object on the screen Double click-----click the same object twice quickly on the same screen Drag-----press the object and drag it Right key-----press the object and remain for 2-3 second
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PC Specifications

Item	Mini ATX PC	OPS PC
Main Board	Mini ITX , Intel H61 chipset	Intel QM67 chipset
CPU	Intel1155 Pentium、I3、I5、I7. The model no. is subject to the real products	Intel I3、I5、I7. The model no. is subject to the real products.
Graphics	Integrated Intel (R) HD Graphics	Integrated Intel (R) HD Graphics
RAM	DDRIII 1333 /2G/4G	SO-DIMM DDRIII 1333 /2G/4G
HDD	SATA 2.5" 500G	
WIFI	Support IEEE802.11b/g/n,150/300Mbps, Max area 100m , security encryption (optional)	
Bluetooth	Support V3.0+EDR , Max 3Mbps, reliable distance 10m (optional)	

Touch Screen Specifications

Touch technology	Non-contact Infrared Sensing Technology
Sensing Object	Non-transparent object (like pen, finger etc.)
Size of Sensing Object	≥ Ø5mm
Multi-touch	2-point , 4-point
Response Time	Single Touch : click : 8ms writing : 3ms
	Multi-Touch : click : 8ms writing : 8ms
Cursor Speed	Up to 300dots/second
Touch Resolution	4096×4096
Positioning Accuracy	≤±2mm
Glass	4mm tempered Mohs 7 anti-explosive, transparency : >92%
Lifespan	No limit

Monitor Specifications

Size	55 inch	65 inch	70 inch
Speakers	8W+8W		
TV	PAL/SECAM , BG/DK/I		
Resolution	1920*1080	1920*1080	1920*1080
View Angle	178°		
Multi-Media Formats	Image : JPEG、 BMP、 PNG Audio : WMA、 MP3、 M4A、 AAC Video : MPEG1、 MPEG2、 MPEG4、 H264、 RM、 RMVB、 MOV、 MJPEG、 VC1、 DivX、 FLV		
Working Temperature	0°C to 40°C		
Working Humidity	10% to 90%, No condensation		
Storing Temperature	-20°C to 60°C		
Machine Size	1296.5x792.5x81mm	1550x944x96.5mm	1626x979x102mm
Packing Size	1425x970x210mm	1650x1085x210mm	1755x1135x210mm
Net Weight	40kg	55kg	60kg

☞ The design and specifications may be changed without any prior notice.

☞ Please refer to the labels on the product and packing for power and power consumption information.

Toxic and Hazardous Materials or Elements

Item	Toxic and Hazardous Material					
	Lead (PH)	Mercury (HG)	Chromium (CD)	Hexavalent Chrome (Cr(VI))	Polybrominated Biphenyl (PBB)	Polybrominated Diphenyl Ethers (PBDE)
PCB	×	○	○	○	○	○
Shell	○	○	○	○	○	×
LCD/LED panel	×	○	○	○	○	○
Speakers	○	○	○	○	○	○
Accessories	×	○	○	○	○	○

○: indicates that content of such material in the parts is below the limit of SJ/T11363-2006.

×: indicates that the content of such material in the parts is above the limit of SJ/T11363-2006.

The substance marked with × falls into the category that cannot be removed or replaced by the technology from a scientific point of view, (EU RoHS Directive 2002/95/EC); not in the listed materials of restricted content under SJ/T11363-2006 of PR China (except Taiwan, Hong Kong and Macao).