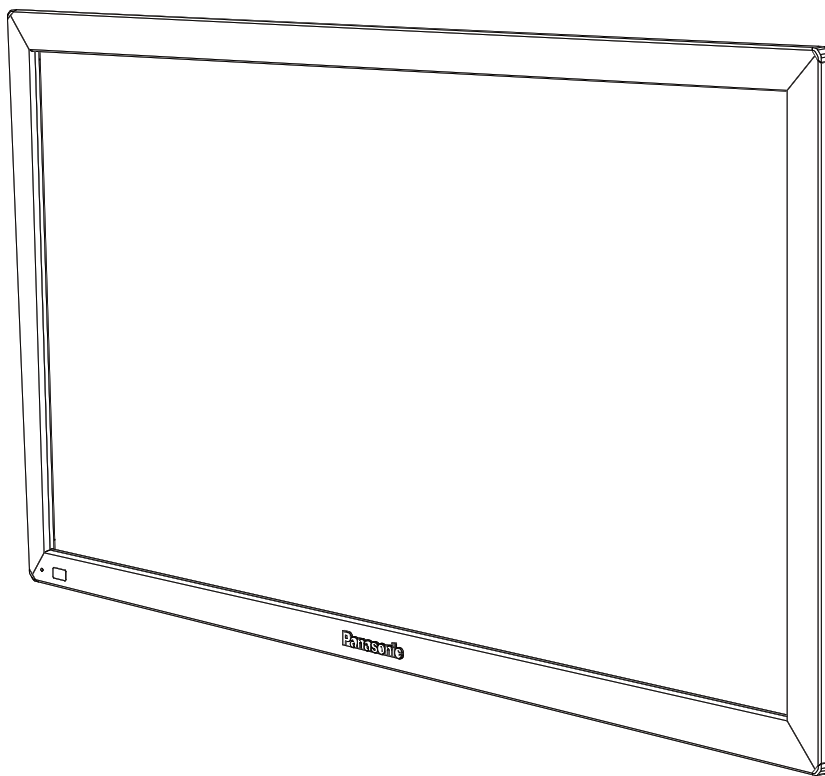


Panasonic®

Operating Instructions Touch Panel

Model No. TY-TP42P30K
TY-TP50P30K
TY-TP60P30K
TY-TP65P30K



Before connecting, operating or adjusting this product, please read these instructions completely.
Please keep this manual for future reference.

English

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Precautions with regard to setting up

WARNING

Only a qualified technician should perform installation.

- Incorrect installation may cause an accidental fall of the equipment resulting in personal injury.

Do not disassemble or modify the equipment.

- Doing so may cause a fire or electric shock.

Stop using the equipment if anything abnormal occurs.

- Using the equipment even when it is generating smoke or an odor or in other abnormal conditions may cause a fire or other accidents.
- Stop using it immediately and contact your dealer for repair. Do not repair it by yourself because doing so can be dangerous.

Do not place nearby a container with water or such other liquid in it.

- If water or other liquid is spilled on or gets inside the equipment, a fire or electric shock may occur. (E.g., flower vases, flower pots, glass, and bottles containing cosmetic liquid, chemical liquid or water)

Prevent the equipment from getting wet.

- Doing so may cause a fire or electric shock.

Do not allow foreign materials to get in the equipment.

- Do not insert or let metal objects or combustible materials in the equipment because that may cause a fire or electric shock. "Pay special attention to children's behavior."

CAUTION

Do not use the equipment with any other device than the main device specified in the catalog.

- Otherwise the unit may be dropped and become damaged, and personal injury may result.

Installation should be performed only in the specified procedure.

- Incorrect installation may cause an accidental fall of the equipment resulting in personal injury.

Do not place the equipment in a humid or dusty location or in a location where the equipment may be exposed to oil smoke or steam.

- Doing so may cause a fire or electric shock.

Use only the special components for installation.

- Otherwise the main device may fall and get damaged resulting in personal injury.

Two or more people are required to install or remove the main device.

- Otherwise the main device may fall causing personal injury.

Tighten all the screws securely when assembling the equipment.

- Improper assembly may cause an accidental fall or damage of the equipment resulting in personal injury.

Unplug the connecting cable before moving the equipment.

- Failure to do so may cause an accidental fall or turnover resulting in personal injury.

Note for an installation technician

- Please hand over these operating instructions to the customer after installation.

- Panasonic shall not be accountable for any accident or damage caused by incorrect installation or mishandling.

Maintenance

Setup location

Places where the touch panel should not be setup include:

- Locations exposed to direct sunlight, and locations near powerful light sources
(The equipment is an optical touch panel utilizing infrared rays and may function incorrectly when adversely affected.)
- Dusty or humid locations
- Locations that may be exposed to impact or vibration
- Locations near emissions of chemicals or steam, or locations where contact may be made with chemicals
- Locations near sources of electrical noise (generators, air conditioners etc.)

Cautions when in use

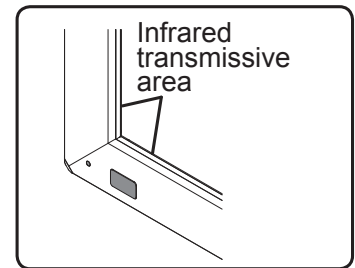
Do not touch the infrared transmissive area and screen until the OS starts up after the computer is turned on.

- Such an action will be detected as defective elements resulting in malfunction of the equipment. Should this occur, restart the computer. Also when disconnecting and connecting the USB cable, do not touch the infrared transmissive area and screen.

When using other devices utilizing infrared rays, keep them away from the equipment to prevent erroneous operation.

Use only the touch pen included with this equipment. Operation is not guaranteed with other products.

When using the touch panel, be careful not to apply an excessive load to it by pressing the touch panel body or in any other way.



Cautions when moving

Keep the equipment away from any impact when moving. Failure to do so may result in failure.

Hold the main device when moving.

- Gripping this equipment to move may result in failure.

Do not hold the USB cable when moving.

- Doing so may damage the USB cable resulting in a failure.

Maintenance

* Be sure to unplug the USB cable before cleaning the equipment.

Use a soft cloth and lightly wipe off dirt on the surface of the equipment.

- If soiling is severe, wet a cloth in neutral detergent diluted by 100 times with water, wring well, wipe off the soiled part, and then wipe well with a dry cloth.
- If liquid droplets get inside, the equipment as well as the screen of the main device may fail. Also do not rub up the screen with strong force.

Use a soft cloth and wipe off dirt on the surface of the infrared transmissive area.

- Once a day, use a soft cloth to wipe off any soiling or debris on the infrared transmissive area. Failure to do so will cause a malfunction, but on such an occurrence you can restore normal function simply by gently wiping the soiling off.
- If soiling is severe, wet a cloth in neutral detergent diluted by 100 times of water, wring well, wipe off the soiled part, and then wipe well with a dry cloth.

Do not directly spray or apply detergent.

- If liquid droplets get inside, the equipment may fail.

Do not apply volatile materials such as insecticides, benzene or thinner.

- The panel may get deteriorated or the coating may come off.

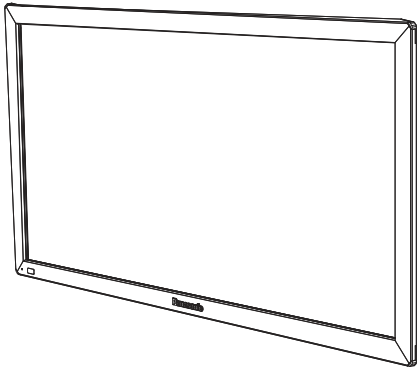
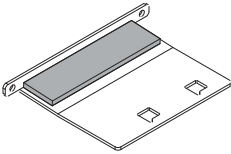
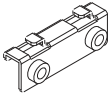
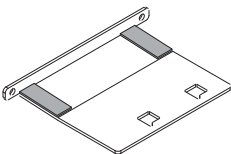

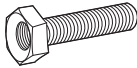
Do not keep the equipment contacted with rubber or plastic materials for a long time.

- The cabinet may get deteriorated.
- When using a chemical wipe, follow the instructions supplied with it.

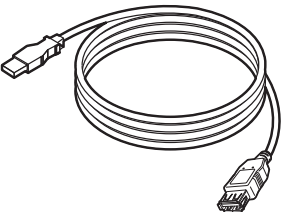
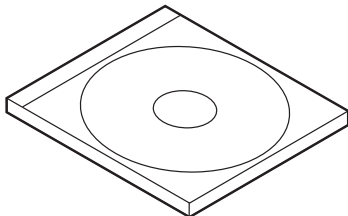
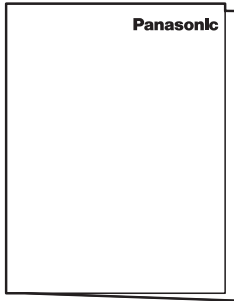
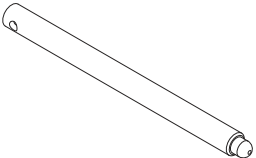
Cleaning of the inside should be performed at least once a year. Consult your dealer for cleaning.

- If dust builds up inside, the level of infrared light available for touch detection will decrease and may result in poor operation. Consult your dealer for cleaning of the inside at least once a year.

Components (Check the components and their quantities.)

Touch panel (1) 	Mounting bracket A (for top side) (2) 	Mounting bracket B (4) 
	Mounting bracket A (for bottom side) (2) 	Mounting screw A (8) 
		Mounting screw B (8) 

Accessories

USB extension cable (1) 	CD-ROM (1) • Operating Instructions • Driver software 	Operating Instructions (1) 
Touch pen (2) 		

- Illustrations are conceptual views and may differ in shape from the actual equipment.
- The specifications of the product are subject to change without notice.

- Windows is a registered trademark of Microsoft Corporation in the USA and other countries. (The official name of Windows is Microsoft® Windows® Operating System.)
- The names of other companies and products appearing in this publication are the trademarks, registered trademarks or products names of their respective owners.

Touch Panel Assembly

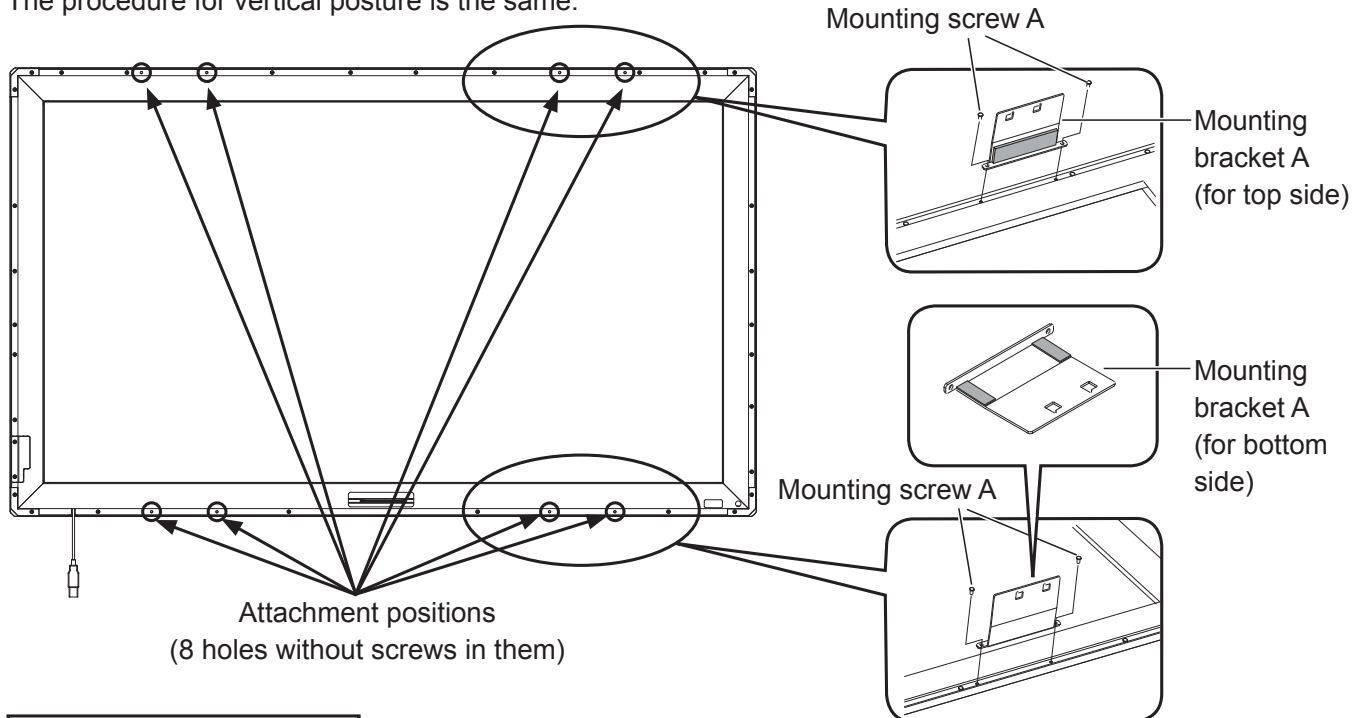
Note

- Place the touch panel making its front surface face down on a clean cloth or blanket to prevent the front surface of the touch panel from getting scratched or dirty during work.

Mounting in horizontal posture

Attach the mounting brackets A (for top and bottom sides) to the touch panel with the mounting screws A (2 each). See the figure below for the screw holes of attachment positions.

The procedure for vertical posture is the same.

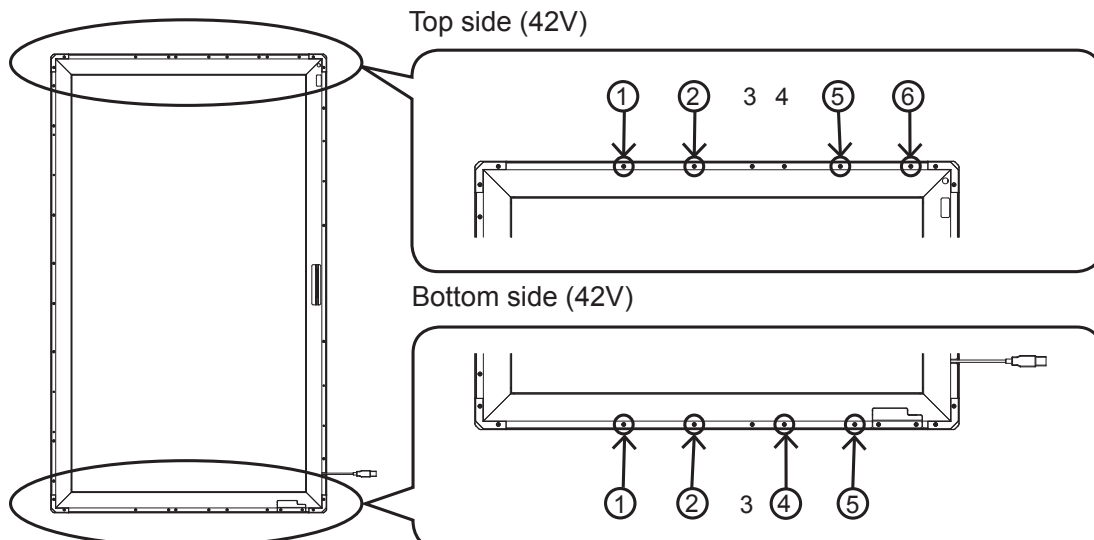


Mounting in vertical posture

Check in the figure below the positions where the brackets are attached, and remove the screws (8 in total from top and bottom sides). Attach the mounting brackets A (for top and bottom sides) with the mounting screws A (2 each) to the screw holes from which the screws were removed.

Notes

- For screw holes of other models than 42V, see "Drawing of Screw Holes" (page 14).
- Keep the screws which were removed.



Mounting Touch Panel

Notes

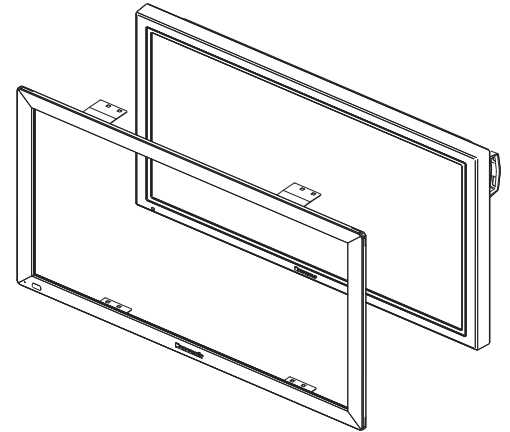
- Two or more people are always required for mounting.
- **Never** mount the main device in the way that is overlapped from above the touch panel while the touch panel is laid down.
Doing so may damage the touch panel.

- 1 Fit the assembled touch panel from the front side of the main device.

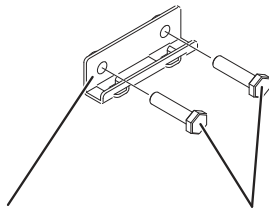
Note

- There should not be a space between the touch panel and the front surface of main device.

The procedure for vertical posture is the same.
Mount in the way that the USB port becomes lower left when seen from the front.



- 2 Prepare the mounting brackets B.

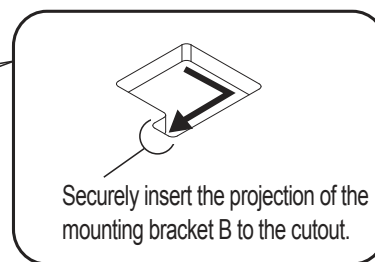
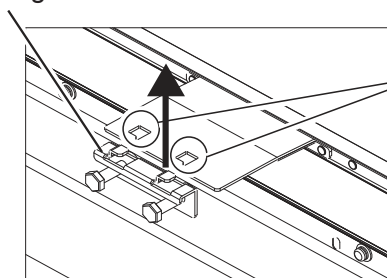


Mounting bracket B Temporarily fix the mounting screws B. (2 or 3 turns)

- 3 As shown in the figure below, attach the mounting brackets B to the mounting brackets A (for top side) on the left and right of the top side.
Temporarily fix the screws.
Attach on the left and right of the bottom side in the same way.

Attaching to the top side

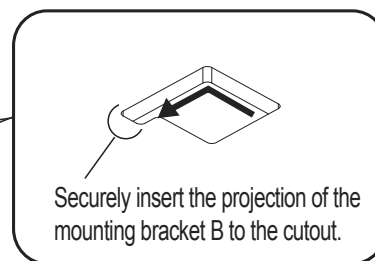
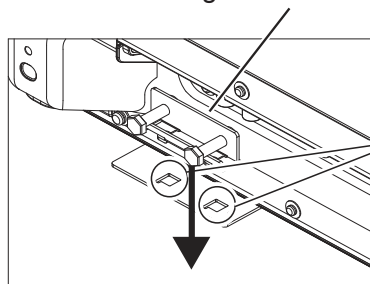
Mounting bracket B



Securely insert the projection of the mounting bracket B to the cutout.

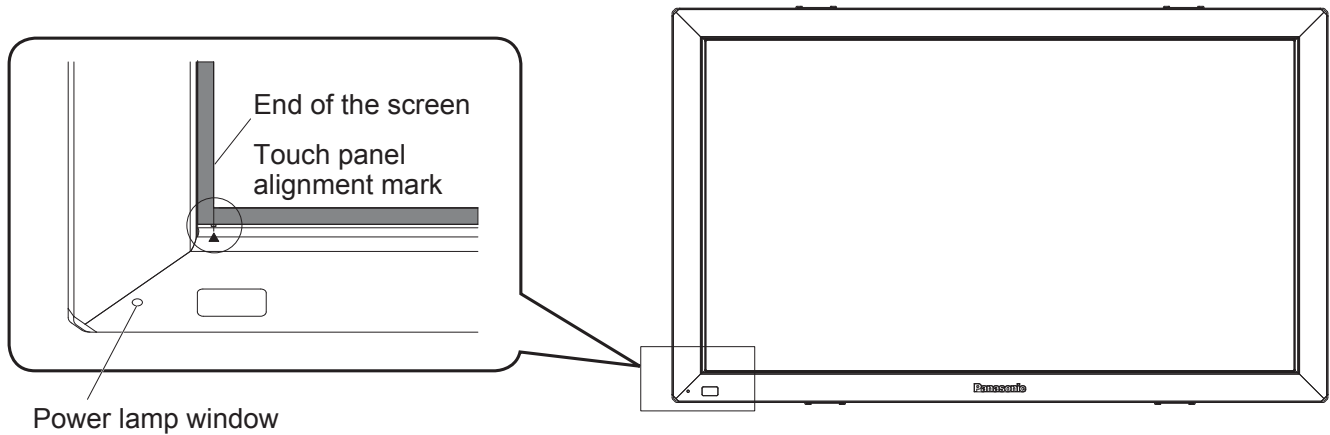
Attaching to the bottom side

Mounting bracket B



Securely insert the projection of the mounting bracket B to the cutout.

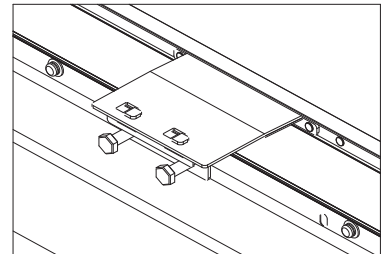
-
- 4 Referring to the alignment mark shown in the figure below, adjust the position seeing from the front so that the touch panel does not lean to one side.



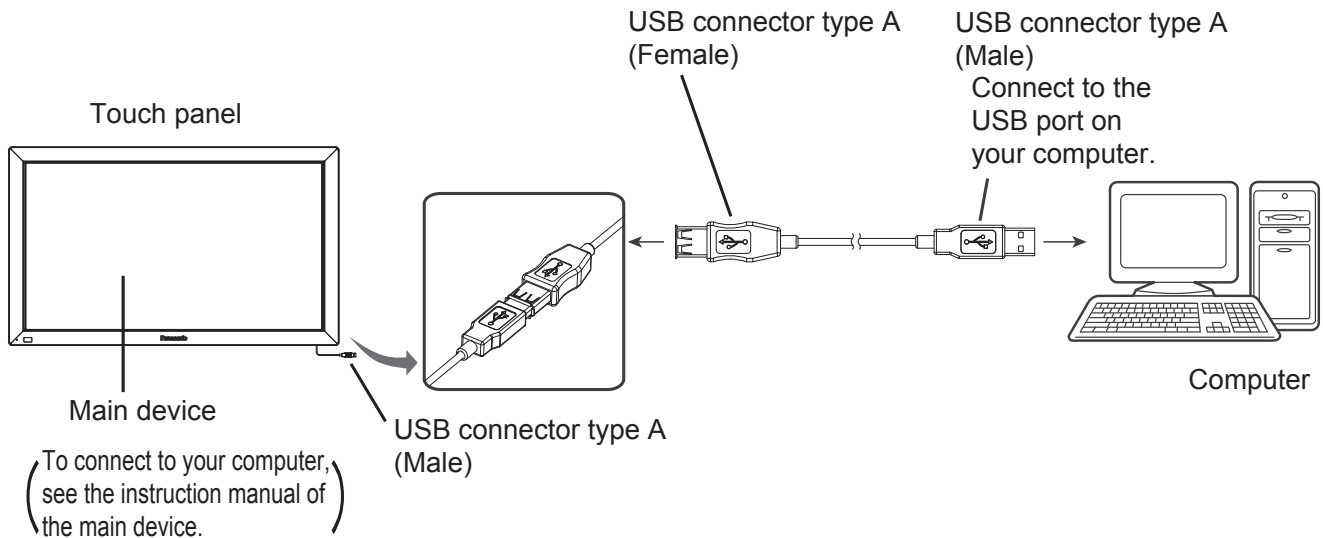
- 5 After adjusting the position, completely tighten the screws which were temporarily fixed.
- Note that tightening the screws too tight may deform the bracket.

Notes

- There should not be a space between the touch panel and the front surface of the main device.
- Confirm that lighting of the power lamp can be seen from the power lamp window. If it cannot be seen due to misalignment, move the touch panel horizontally to make fine adjustment.



Connection with Computer



Caution

- If the infrared transmissive part on the screen is shaded by your fingers or other things when connecting the USB extension cable, that may be detected as a failure during initialization and, if no corrective action is taken, touch detection may not correctly function partially.
In that case, disconnect and reconnect the USB extension cable. At this time, restarting the computer is not necessary.
- Because some cables may not ensure the proper functioning of the equipment, use the USB extension cable supplied with the equipment.

Operating Conditions

OS of computer

IBM PC/AT compatible machine with USB ports, supporting the OS below
Windows XP (SP2 or later, 32 bit or 64 bit)
Windows Vista (32 bit or 64 bit)
Windows 7 (SP1 or later, 32 bit or 64 bit)

Caution

- The USB ports should function correctly.
- If a previous version of driver has been installed, disconnect the USB cable of the touch panel from the computer, uninstall the previous version, and then install the new one.
- For installation and uninstallation of the touch panel driver, see the installation manual of the touch panel driver software included in the supplied CD-ROM.
- When using Windows 7, installation of the touch panel driver is not necessary.
When using Windows XP or Vista, follow the descriptions of the installation manual of the driver software included in the supplied CD-ROM for connection of the USB extension cable and setup of the touch panel driver software.

Touch Operation

Use the supplied touch pen.

The touch operations are different depending on the OS used.

Dual touch is not possible on Windows XP and Vista.

	Windows		Function
	XP/ Vista	7	
Single tap	Applicable	Applicable	Functions as a left click of mouse.
Double tap	Applicable	Applicable	Functions as a double-click by quickly touching twice. The pen or a finger should be set apart enough from the panel window before the second touch is made. If the distance is not enough, the double tap may not be correctly recognized.
Drag and drop	Applicable	Applicable	Functions as a drag and drop of mouse by touching, moving a finger while it is kept contacted and then releasing it.
Flick	Not applicable	Applicable	When a frequently executed operation has been set, flipping a finger toward the location of the function to be used can execute the operation.
Press and hold	Not applicable	Applicable	Functions as a right click by touching and holding on the area of the screen where you want to make a right click and then releasing it.
Pan	Not applicable	Applicable	On a page with the scroll bar, touching and moving toward the direction you want can scroll the page along with the movement.
Zoom	Not applicable	Applicable	On the screen which can be zoomed in and out, touching the screen with two fingers and separating the touching points from each other in the manner of stretching enables zooming in. Moving the touching points closer in the manner of pinching enables zooming out.
Press and tap	Not applicable	Applicable	Functions as a right click of mouse by touching and holding a finger on the screen and quickly making a single tap with another finger.

Caution

- When using Windows 7, confirm that “Enable multi-touch gestures and inking” is checked in “Pen and Touch” of the Control Panel.
- When operating between two points, touch operation may not function correctly if the touch operation is too fast, if the distance between the two points is too short, or if the two points are crossing.
- Touch operation may not correctly function if any obstacle is between the sensor and the operating finger.
- For more information about touch operation, see the help information of Windows.

Before Calling for Service

If you think the touch panel is broken or if it is not operating correctly, check the following before calling for service. When using Windows XP or Vista, refer also to “Troubleshooting” of the installation manual of the touch panel included in the supplied CD-ROM.

For Windows XP, Vista and 7

*1 Windows 7 only

Problem	Check point	Action to take	Page	
No action occurs by touching	Is the USB cable connected appropriately?	Check that the USB cable is connected. If using a USB hub, check that the power is supplied from the USB hub.	8	
		Use the supplied USB extension cable. Because some cables may not correctly function, use the USB extension cable supplied with the equipment.	4	
	Are strong light sources or devices that use infrared rays located nearby?	This equipment is a touch panel using infrared rays. Incident light containing infrared rays may hinder operation of the touch panel. Sunlight: It is not a problem as long as the infrared transmissive part of the touch panel is not directly exposed to sunlight. Fluorescent light: It can be a problem because some types of fluorescent light (particularly inverter type) produce infrared rays. White incandescent light: It can be a problem because it contains much infrared rays. Keep as long a distance as possible between the equipment and the light source, or prevent the infrared transmissive part from being directly exposed to the light. Device using infrared rays: Malfunction may occur if a remote control or other device using infrared rays is used for the touch panel.	—	
		Has the OS been started up?	Start up the OS.	—
		Has setting of the computer been correctly made? *1	Check that “Use your finger as an input device” is checked in “Touch” of “Pen and Touch” of Control Panel. For more information, see the help information of Windows.	—
Response is lost during operation	Is the USB cable connected appropriately?	Check that the USB cable is connected. If using a USB hub, check that the power is supplied from the USB hub.	8	
	Is there a strong electrical noise source (e.g., power generators, air conditioners) near the equipment?	Do not use the equipment near from a device causing much electrical noise. The noise affects the power source and interface, and may cause malfunction.	—	

Problem	Check point	Action to take	Page
Response is lost during operation	Are strong light sources or devices that use infrared rays located nearby?	<p>This equipment is a touch panel using infrared rays. Incident light containing infrared rays may hinder operation of the touch panel.</p> <p>Sunlight: It is not a problem as long as the infrared transmissive part of the touch panel is not directly exposed to sunlight.</p> <p>Fluorescent light: It can be a problem because some types of fluorescent light (particularly inverter type) produce infrared rays.</p> <p>White candescent light: It can be a problem because it contains much infrared rays. Keep as long a distance as possible between the equipment and the light source, or prevent the infrared transmissive part from being directly exposed to the light.</p> <p>Device using infrared rays: Malfunction may occur if a remote control or other device using infrared rays is used for the touch panel.</p>	-
Response is slow or there is an area where response cannot be obtained	Are strong light sources or devices that use infrared rays located nearby?	<p>This equipment is a touch panel using infrared rays. Incident light containing infrared rays may hinder operation of the touch panel.</p> <p>Sunlight: It is not a problem as long as the infrared transmissive part of the touch panel is not directly exposed to sunlight.</p> <p>Fluorescent light: It can be a problem because some types of fluorescent light (particularly inverter type) produce infrared rays.</p> <p>White candescent light: It can be a problem because it contains much infrared rays. Keep as long a distance as possible between the equipment and the light source, or prevent the infrared transmissive part from being directly exposed to the light.</p> <p>Device using infrared rays: Malfunction may occur if a remote control or other device using infrared rays is used for the touch panel.</p>	-
	Is there a strong electrical noise source (e.g., power generators, air conditioners) near the equipment?	Do not use the equipment near from a device causing much electrical noise. The noise affects the power source and interface, and may cause malfunction.	-
	Is the tool used for touch inputting thinner than a finger?	Inputting with a tool smaller than 7 mm (W) x 7 mm (H) may lower the resolution or detection speed, or may not be detected.	-
	Is the infrared transmissive part on the screen kept untouched until the OS starts up on the computer?	After removing an obstacle, reconnect the USB cable or restart the computer.	-

Problem	Check point	Action to take	Page
The touched point is displaced	Has calibration been performed? *1	Perform calibration in "General" of "Tablet PC Settings" of the Control Panel. For more information, see the help information of Windows.	–
The touched point is displaced	Was the touch panel removed?	If the touch panel was removed and mounted again, the mounting position may not be the same as the previous one, and thus the touching position and cursor position may not match. If the touch panel was removed, be sure to perform calibration. For Windows 7: Perform calibration in "General" of "Tablet PC Settings" of the Control Panel. For more information, see the help information of Windows. For Windows XP and Vista: Perform calibration using the supplied driver software. For calibration procedure, see the installation manual of the touch panel driver software included in the supplied CD-ROM.	–
Dual touch is not possible*1	Has Windows 7 been installed in the computer? *1	Dual touch is available only on Windows 7. Use the computer with Windows 7 OS.	–
	Has the touch panel drive been installed on Windows 7? *1	Installing the touch panel driver on Windows 7 will disable dual touch. Uninstall the touch panel driver because it is not necessary on Windows 7.	–

If the problem is not solved even if the actions have been taken, contact our sales office or the dealer of purchase.

Specifications

Model Number	TY-TP42P30K	TY-TP50P30K	TY-TP60P30K	TY-TP65P30K	
Type	Touch Panel				
Power source	Voltage	+5V DC±10%			
	Electric current	+5V DC Max. 500 mA			
	Supply method	From USB bus			
Touch Panel	Detection system	Infrared ray interruption detection			
	Panel window	934.1 mm (W) × 524.1 mm (H)	1124.1 mm (W) × 638.1 mm (H)	1348.1 mm (W) × 766.1 mm (H)	1468.1 mm (W) × 839.1 mm (H)
	Detection range	925 mm (W) × 520 mm (H)	1105 mm (W) × 615 mm (H)	1330 mm (W) × 750 mm (H)	1435 mm (W) × 805 mm (H)
	Effective detection range	Above detection range + 1.0 mm around all sides			
	Resolution	1481 (W) × 833 (H)	1769 (W) × 985 (H)	2129 (W) × 1201 (H)	2297 (W) × 1289 (H)
	Detection pitch	2.5 mm × 2.5 mm			
	Output system	Coordinate output			
	Number of optical elements	186 (W) × 105 (H)	222 (W) × 124 (H)	267 (W) × 151 (H)	288 (W) × 162 (H)
	Optical element pitch	5.0 mm (W) × 5.0 mm (H)			
	Minimum stylus	7.0 mm (W) × 7.0 mm (H)			
Interface	USB1.1 compliant Signals: +DATA, -DATA, VCC, GND				
Temperature	When operating: 0 ~ 40°C (Temperature gradient 25°C /Hr or less) *1				
Humidity	When operating: 20 ~ 80% (No dewing) *1				
Resistance to external light	Lateral light	2000 lx or higher (20° angle of incidence)			
	Frontal light	10000 lx or higher (90° angle of incidence)			
Panel shape	Flat panel (Flat type)				
External dimensions (excluding projections and mounting brackets)	1,028.2 mm (W) × 618.2 mm (H) × 12 mm (D)	1,218.2 mm (W) × 732.2 mm (H) × 12 mm (D)	1,442.2 mm (W) × 860.2 mm (H) × 12 mm (D)	1,562.2 mm (W) × 933.2 mm (H) × 12 mm (D)	
Mass	Approx. 2.4 kg	Approx. 2.7 kg	Approx. 3.1 kg	Approx. 3.3 kg	
Escutcheon material	Aluminum				
Computer	IBM PC/AT compatible machine with USB ports				
OS	Windows XP (SP2 or later, 32 bit or 64 bit) Windows Vista (32 bit or 64 bit) Windows 7 (SP1 or later, 32 bit or 64 bit)				

*1 For the touch panel only (when mounted to the main device, it follows the conditions of the main device.)

External Dimensions

External Dimensions

(Unit: mm)

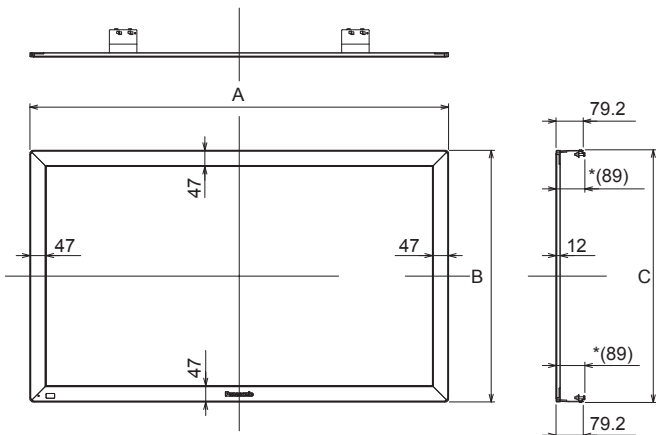


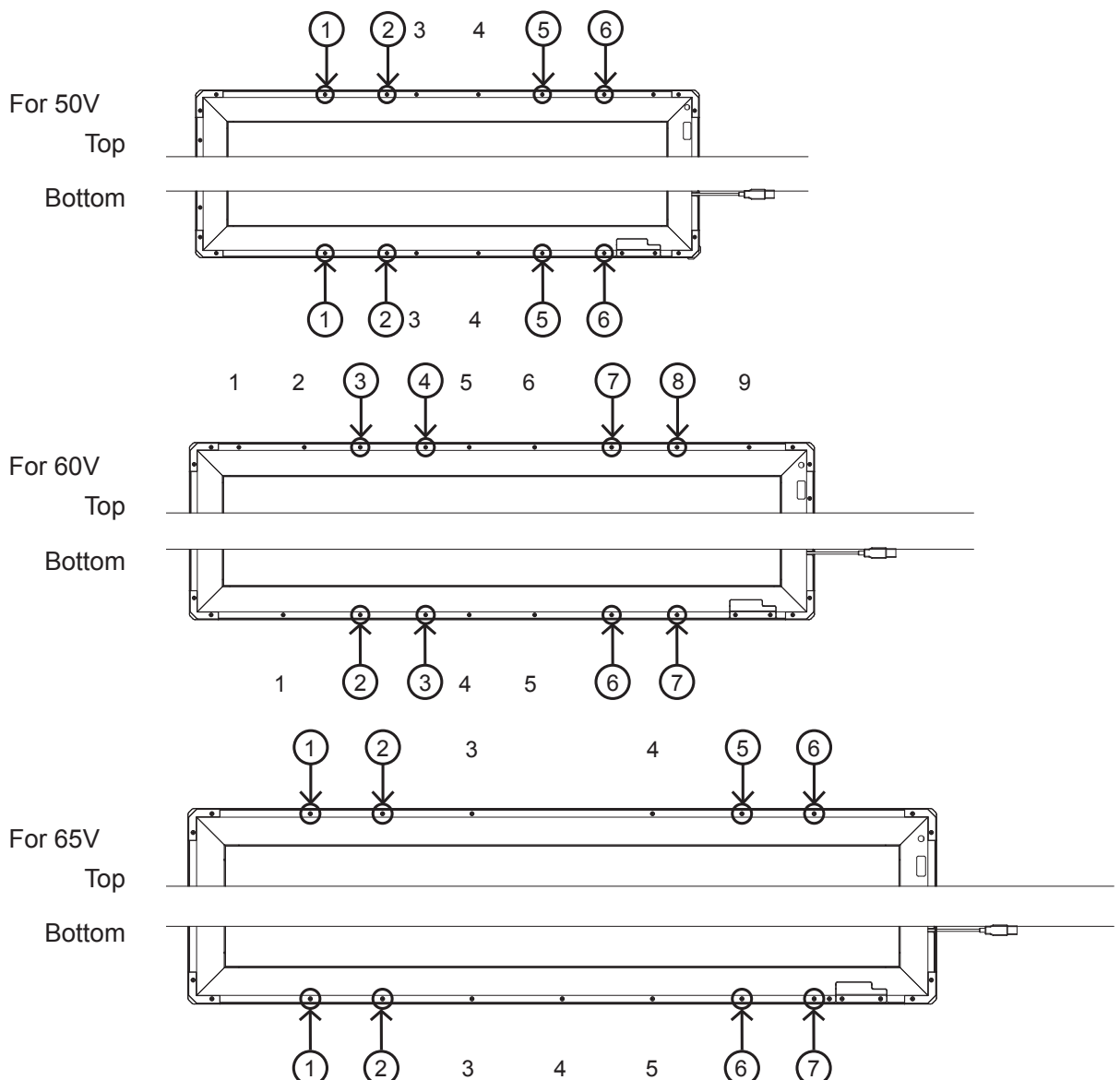
Table of external dimensions (Unit: mm)

	42V	50V	60V	65V
A	1028.2	1218.2	1442.2	1562.2
B	618.2	732.2	860.2	933.2
C	621.4	735.4	863.4	936.4

* The dimensions may vary depending on the device to be mounted to or the status of tightening.

Drawing of Screw Holes (Mounting in vertical posture)

• Refer to page 5 for 42V.



Customer's Record

The model number and serial number of this product can be found on its bottom side. You should note this serial number in the space provided below and retain this book, plus your purchase receipt, as a permanent record of your purchase to aid in identification in the event of theft or loss, and for Warranty Service purposes. Warranty conditions are managed by distributors to meet the standards set by each country. For details, contact your dealer where you made your purchase.

Model Number _____

Serial Number _____

Pursuant to at the directive 2004/108/EC, article 9(2)
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Panasonic Service Europe, a division of
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Printed in Japan
M0212-0