TPM-4100/TP-4100/TP-2070/ TP-3080/TP-5120/TP-6150/ TP-7170 Touch Panel Monitor User Manual



Touch Panel Monitor User Manual, version 1.0.7, Last Revised: June 2014

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This chapter provides an overview of the TPM-4100/TP-4100/TP-2070/TP-3080/T P-5120/TP-6150/TP-7170 and its components.

The TPM-4100/TP-4100/TP-2070/TP-3080/TP-5120/TP-6150/TP-7170 Panel Mount Monitor includes a standard TFT LCD screen with a rugged aluminum front bezel resolution and a wide operating temperature range. The TPM-4100/TP-4100/TP-2070/TP-3080/TP-5120/TP-6150/TP-7170 is also guaranteed to integrate with ICP DAS PAC control systems, such as WP-8000 series, LinPAC-8000 series and the XP-8000 series.

Package List

The shipping package includes the following items:

- 1 TFT LCD Monitor
- 1 VGA cable
- 1 RS-232 cable
- 1 USB cable
- 4 Mounting clamps
- 4 Mounting Screws
- 1 Power supply
- 1 Companion CD containing software drivers and digital versions of the user manuals

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1.1. Features

• Support resolution

Mode name	Size	Resolution
TP-2070	7"	800 x 480
TP-3080	8.4"	
TPM-4100/TP-4100	10.4"	800 x 600
TP-5120	12.1"	
TP-6150	15"	1024 x 768
TP-7170	17"	1280 x1024

- Full-function OSD control keys for optimizing the display
- Driver Support for Windows 2K/XP/Vista/7/XP-Embedded/WinCE 5.0/6.0/Linux
- Wide operating temperature range

Mode name	Operating temperature
TP-2070	
TP-3080	
TPM-4100/TP-4100	0070.00
TP-5120	-20~+70 °C
TP-6150	
TP-7170	

- Aluminum front bezel design that is ideal for rugged applications
- LED backlight technology
- Supports the IP65 standard for protection against dust and water

1.2. Specifications

The table below is a summary of the specifications of the touch panel, and lists the accessories that are supported by the touch panel.

Specifications

Model	TP-2070	
Display		
Size	7"	
Resolution	800 x 480	
Luminance	400 cd/m2	
Touch screen	4-wire, analog resistive; Light Transmission: 80%	
Contrast ratio	500:1	
Viewing angle (H/V)	140/120	
Backlight life (hrs)	20,000	
Touchscreen function	Combo RS-232 & USB interface	
Input signal	VGA (analog RGB)	
MMI (Man Machine Interface)		
OSD control	Functions: Brightness, Contrast, Clock, Phase, Horizontal Position, Vertical Position and Sharpness	
Power switch	Yes	
LED indicators	Power, Display signal is detected	
Power		
Input range	+12 ~ +48 VDC	
Power consumption	5 W	
Mechanical		
Casing	Plastic	
Dimensions (W x L x H)	213 mm x 148 mm x 44 mm	
Installation	Panel Mounting, VESA (75 x 75) Mounting	
Ingress protection	Front panel: IP65	
Environmental		
Operating temperature	-20 ~ +70°C	
Storage temperature	-30 ~ +80°C	
Ambient relative humidity	10 ~ 90% RH (non-condensing)	

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Model	TP-3080	
Display		
Size	8.4"	
Resolution	800 x 600	
Max. Color	16.7 M	
Luminance	400 cd/m2	
Touch screen	5-wire, analog resistive; Light Transmission: 80%	
Contrast ratio	500:1	
Viewing angle (H/V)	140/130	
Backlight life (hrs)	50,000	
Touchscreen function	Combo RS-232 & USB interface	
Input signal	VGA (analog RGB)	
MMI (Man Machine Interface)		
OSD control	Functions: Brightness, Contrast, Clock, Phase, Horizontal Position, Vertical Position and Sharpness	
LED indicators	Power, Display signal is detected	
Power		
Input range	+12 ~ +48 VDC	
Power consumption	7 W	
Mechanical		
Casing	Plastic	
Dimensions (W x L x H)	249 mm x 207 mm x 65 mm	
Installation	Panel Mounting, VESA (75 mm x 75 mm; 100 mm x 100 mm) Mounting	
Ingress protection	Front panel: IP65	
Environmental		
Operating temperature	-20 ~ +70°C	
Storage temperature	-30 ~ +80 ℃	
Ambient relative humidity	10 ~ 90% RH (non-condensing)	

Model	TPM-4100	TP-4100	
Display			
Size	1(10.4"	
Resolution	800	x 600	
Max. colors	16	.7 M	
Luminance	400	cd/m2	
Touch screen	5-wire, analog resistive Light Transmission: 80%	5-wire, analog resistive Light Transmission: 80%	
Contrast ratio	50	00:1	
Viewing angle (H/V)	140	0/130	
Backlight life (hrs)	50	,000	
Touchscreen function	Combo RS-232	2 & USB interface	
Input signal	VGA (an	alog RGB)	
MMI (Man Machine Interface)			
OSD control	a	Functions: Brightness, Contrast, Clock, Phase, Horizontal Position, Vertical Position and Sharpness	
Power switch	Y	Yes	
LED indicators	Power, Display	signal is detected	
Power			
Input range	+12 ~	+12 ~ +48 VDC	
Power consumption	8.	5 W	
Mechanical			
Material	Aluminum	Plastic	
Dimensions (W x L x H)	293 mm x 231 mm x 53 mm	291 mm x 229 mm x 54 mm	
Installation	Panel Mounting	Panel Mounting, VESA (75 x 75) Mounting	
Ingress protection	Front pa	Front panel: IP65	
Environmental			
Operating temperature	-20 ~	-20 ~ +70°C	
Storage temperature	-30 ~	-30 ~ +80°C	
Ambient relative humidity	10 ~ 90% RH (10 ~ 90% RH (non-condensing)	

Model	TP-5120	
Display		
Size	12.1"	
Resolution	800 x 600	
Max. Color	16.7 M	
Luminance	400 cd/m2	
Touch screen	5-wire, analog resistive; Light Transmission: 80%	
Contrast ratio	500:1	
Viewing angle (H/V)	140/130	
Backlight life (hrs)	50,000	
Touchscreen function	Combo RS-232 & USB interface	
Input signal	VGA (analog RGB)	
MMI (Man Machine Interface)		
OSD control	Functions: Brightness, Contrast, Clock, Phase, Horizontal Position, Vertical Position and Sharpness	
LED indicators	Power, Display signal is detected	
Power		
Input range	+12 ~ +48 VDC	
Power consumption	13 W	
Mechanical		
Casing	Plastic	
Dimensions (W x L x H)	323 mm x 254 mm x 65 mm	
Installation	Panel Mounting, VESA (75 mm x 75 mm; 100 mm x 100 mm) Mounting	
Ingress protection	Front panel: IP65	
Environmental		
Operating temperature	-20 ~ +70°C	
Storage temperature	-30 ~ +80 ℃	
Ambient relative humidity	10 ~ 90% RH (non-condensing)	

Model	TP-6150	
Display		
Size	15"	
Resolution	1024 x 768	
Max. colors	16.7 M	
Luminance	400 cd/m2	
Touch screen	5-wire, analog resistive Light Transmission: 80%	
Contrast ratio	500:1	
Viewing angle (H/V)	140/130	
Backlight life (hrs)	50,000	
Touchscreen function	Combo RS-232 & USB interface	
Input signal	VGA (analog RGB)	
MMI (Man Machine Interface)		
OSD control	Functions: Brightness, Contrast, Phase, Horizontal Position, Vertical Position and sharpness	
LED indicators	Power, Display signal is detected	
Power		
Input range	+12 ~ +48 VDC	
Power consumption	14.4 W	
Mechanical		
Material	Plastic	
Dimensions (W x L x H)	381 mm x 305 mm x 65 mm	
Installation	Panel Mounting, VESA (75mm x 75mm; 100mm x 100mm) Mounting	
Ingress protection	Front panel: IP65	
Environmental		
Operating temperature	-20 ~ +70°C	
Storage temperature	-30 ~ +80 ℃	
Ambient relative humidity	10 ~ 90% RH (non-condensing)	

Model	TP-7170	
Display		
Size	17"	
Resolution	1280 x 1024	
Max. colors	16.7 M	
Luminance	400 cd/m2	
Touch screen	5-wire, analog resistive Light Transmission: 80%	
Contrast ratio	500:1	
Viewing angle (H/V)	140/130	
Backlight life (hrs)	50,000	
Touchscreen function	Combo RS-232 & USB interface	
Input signal	VGA (analog RGB)	
MMI (Man Machine Interface)		
OSD control	Functions: Brightness, Contrast, Phase, Horizontal Position, Vertical Position and sharpness	
LED indicators	Power, Display signal is detected	
Power		
Input range	+12 ~ +48 VDC	
Power consumption	22 W	
Mechanical		
Material	Plastic	
Dimensions (W x L x H)	413 mm x 359 mm x 70 mm	
Installation	Panel Mounting, VESA (75mm x 75mm; 100mm x 100mm) Mounting	
Ingress protection	Front panel: IP65	
Environmental		
Operating temperature	-20 ~ +70°C	
Storage temperature	-30 ~ +80℃	
Ambient relative humidity	10 ~ 90% RH (non-condensing)	

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1.3. Dimension

TP-2070 (Unit: mm)





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TP-3080 (Unit: mm)



Rear View

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TP-5120 (Unit: mm)





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TP-4100 (Unit: mm)





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TP-6150 (Unit: mm)



Rear View

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TP-7170 (Unit: mm)



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1.4. I/O interfaces

TP-2070



TP-3080/TP-5120/TP-6150/TP-7170



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TPM-4100



TP-4100



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1.5. Companion CD

This package includes a companion CD that contains a collection of documentation and device drivers. An outline of the folder structure is illustrated below.



The "**[Model]**" of the "CD:\[Model]" represents TPM-4100_TP-4100, TP-2070, TP-6150, etc. For example, CD:\ TPM-4100_TP-4100, or CD:\ TP-2070.



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1.6. System Setup

This section gives details regarding system configuration and adjustment and mounting options.

1.6.1. System Configuration

There are two kinds of OSD menu in the following description.

TP-2070/TP-4100/TPM-4100 support the following OSD menu.



Control Function

- Adjust V-Position, H-Position, Clock and Clock and Clock-Phase
 - Turns OSD main menu on or off
- 3 💟

1

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- Selects adjustment item
- Selects adjustment item counter-clockwise
- Decreases the value of the adjustment item
- Increases the value of the adjustment item
 - 2. Enter the adjustment item

OSD Menu Functions

Control	Description		
Contrast	Adjusts the contrast of the monitor		
Brightness	Adjusts the brightness of the monitor		
Image setting	Auto config	Press 🖾 to adjust automatically	
	Phase	Increase or decrease phase value.	
	Clock	Increase or decrease pixel clock value	

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-			
-	H-position	Move the screen left or right	
	V-position	Moves the screen up or down	
Color setting	NATIVE	Color temperature	
	9300K	Color temperature	
	6500K	Color temperature	
	USER	Making adjustments to the R/G/B content.	
OSD setting	Language	Support 8 languages.	
OSD.H screen. OSD co of the sc is press		Move the OSD position horizontally on the screen. When the ▲ button is pressed, the OSD control menu will move to the right side of the screen. Likewise, when the ▼ button is pressed, the OSD control menu will move to the left side.	
	OSD.V	Move the OSD position vertically on the screen. When the ▲ button is pressed, the OSD control menu will move to the top side of the screen. Likewise, when the ▼ button is pressed, the OSD control menu will move to the lower side.	

TP-3080/TP-5120/TP-6150/TP-7170 support the following OSD menu.



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- 3 Shift the icon to the left side or shift it down.
- 4 Shift the icon to the right side or shift it up.
 - 1. Enter the OSD menu.
 - 2. Enter the adjustment item.
- 6 Executing auto adjustment.

Data and Power LED

5

The Data LED and Power LED are situated in the top right-hand corner.



Data LED: When the LED is green, it indicates that there is no display signal.

Power LED: When the LED is red, it indicates that the power is on. When the LED is not illuminated, it indicates that either the power is off, or the power supply is not connected.

Display Modes

The following display modes are supported for WP-8000 and XP-8000 series.				
Platform	Supported Resolution	Supported Vert. Sync.(Hz)		
WP-8x4x	800 x 600	55.8/56.6		

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		TP-6150 : 55.8
	640 x 480	Don't care
		TP-2070 : Supported by the WP-8x4x OS version 1710 and upward.
WP-8x3x	1024 x 768	60/70/75
		TP-6150 : 60/75
	800 x 600	60/72/75
		TP-6150 : 60/72
	640 x 480	56/60/62/70/72/75
		TP-6150 : 72
WP-5x4x	800 x 600	55.8/56.6
	640 x 480	Don't care
		TP-2070 : Supported by the WP-5x4x OS version 1300 and upward.
XP-8x4x-Atom	1280 x 720	Don't care
	1024 x 768	Don't care
	800 x 600	Don't care
XP-8x4x-Atom-CE6	1024 x 768	60/70/75/85
	800 x 600	60/70/75/85
	640 x 480	60/70/75/85
XP-8x4x	1024 x 768	Don't care
	800 x 600	Don't care
XP-8x4x-CE6	1290 x 1024	TP-2070: not support
		TP-4100/TPM-4100: 60/70/75
	1152 x 864	TP-2070 : 70/75
		TP-4100/TPM-4100: 60/70/75
	1024 x 768	60/70/75
	800 x 600	60/70/75
	640 x 480	60/70/75

Resolution	Horiz. Sync.	Vert. Sync.
640 x 480	31.4 KHz	50 Hz
	31.4 KHz	59.9 Hz
	37.5 KHz	75 Hz
720 x 400	31.4 KHz	70 Hz
800 x 600	35.1 KHz	56.2 Hz
	37.8 KHz	60.3 Hz
	46.9 KHz	75 Hz
1024 x 768	48.3 KHz	60 Hz
	56.4 KHz	70 Hz
	60.0 KHz	75 Hz

The following display modes are supported for other devices.

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1.6.2. Panel Mounting



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2. Touch Driver Setup

This chapter provides a overview that describes the steps required for installing, uninstalling, and configuring the touch driver.

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2.1. Windows CE 5.0

This section describes how to install, calibrate and uninstall the touch driver for the WP-8000 series and WP-5000 series, and gives details of how to obtain drivers for other CE5 devices.

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2.1.1. USB Touch Driver

Two USB touch drivers are available. The first is for WP-8000 series modules and WP-5000 series modules of ICP DAS PAC controllers, and the second is for other Windows CE5.0 systems.

WP-8000 series:

WP-8131/WP-8431/WP-8831, WP-8141/WP-8441/WP-8841 WP-8137/WP-8437/WP-8837, WP-8147/WP-8447/WP-8847 WP-8139/WP-8431/WP-8839, WP-8141/WP-8441/WP-8849 WP-8136/WP-8431/WP-8836, WP-8141/WP-8441/WP-8846

WP-5000 series:

WP-5141/WP-5441-OD/WP-5149/WP-5449-OD/WP-5147/WP-5447-OD/ WP-5146/WP-5446-OD

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2.1.1.1. Installation for WinPAC-8000 and WinPAC-5000

The following procedure describes how to install the PenMount USB touch driver.

1. Copy the driver from the CD-ROM to the WinPAC.

The "PenMount_USB_TOUCH_Vyyyymmdd.CAB" driver file can be obtained from:

[name]	Driver path
TP-2070/TP-3080/TP-5120	CD:\[name]\Driver\WinCE\V5.0\WP-8000 and WP-5000 device
TPM-4100_TP-4100/	For example:
TP-6150/TP-7170	CD:\TP-6150\Driver\WinCE\V5.0\WP-8000 and WP-5000 device

Or go to the "\System_Disk\External_device_driver\" folder on the WinPAC.

2. Double-click the "PenMount_USB_TOUCH_Vyyyymmdd.CAB" file.

<u>File Edit View G</u> o							N?	×
3 🗣 🔊 🗙 💽 [
I- Egalax_Se E 756x_Win	Egalax_US ELO_Seria	I ELO_USB	PenMount	PenMount_U SB_TOUCH_ V20100526	PM6000_S	readme		

3. Show one of two dialogs below. Just click the "OK" button to continue installation.

Install ICP 🍺 📂 🕅 OK 🗡		
System_Disk External_device_driver CCDAS	Click "OK" -	Installing ICPDAS USB PenMount
tools	Or	Already Installed
Name: USB_TOUCH		Cancel

4. From the "Start" menu, click "Programs"→Open the "WinPAC Utility", and then click the "Save and Reboot" option from the "File" menu.





2.1.1.2. Configuration for WinPAC-8000 and WinPAC-5000

Calibration

 From the "Start" menu, click "Programs"→"USB_TOUCH"→ "PenMount"→"Calibration".



2. Follow the instructions on the screen to begin calibration.

PenMount Calibration Program. Driver: 2.7, Pmware: 6000.6.0.0	
Please touch the red point.	
	2

 Once calibration has been completed, from the "Start" menu, click "Programs"→Open the "WinPAC Utility", and then click the "Save and Reboot" option from the "File" menu.

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Simulating the Right Mouse Button

From the Start menu, click "Programs"→"USB_TOUCH"
 →"PenMount"→"RightButton".



Show a screen below (Left picture) → Click the "mouse" → Turn into right picture.



3. Click any object: Click "My device" to test if the function of "RightButton" works. If the screen below shows, the function of "RightButton" works.



 The operation of the right mouse button can be simulated by repeating Step 2 and Step 3 for any object.

2.1.1.3. Uninstalling the WinPAC-8000 and WinPAC-5000

The following procedure describes how to uninstall the PenMount USB touch driver.

- 1. From the "Start" menu, click "Programs"→"USB_TOUCH"
 - → "PenMount" → "Uninstall".



2. A warning pop-up will be displayed asking you to confirm the uninstall request. Click the "Yes" button to uninstall the driver.

Uninst	all Drivers 🛛 🗙
?	Are you uninstalling this drivers?
	Yes No

 Once the uninstallation process is complete, a dialog will displayed requesting that you reboot the system. Click the "Yes" button to reboot the WinPAC immediately, or click "NO" if you intend to reboot at a later time.

Uninstall Drivers 🛛 🗙
The Driver is uninstalled , plase reboot the system

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2.1.1.4. Other Windows CE5.0 Devices

The driver for use with other windows CE5.0 devices can be obtained from:

[name]	Driver path
TP-2070/TP-3080/TP-5120/	CD:\[name]\Driver\WinCE\V5.0\Other CE5.0 device For example:
TPM-4100_TP-4100/TP-6150/TP-7170	CD:\TP-6150 \Driver\WinCE\V5.0\Other CE5.0 device

or go to the PenMount website to download the latest driver:

http://www.penmount.com/down_2_1.php

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2.1.2. Serial Touch Driver

Two serial touch drivers are available. The first is for WP-8000 series modules and WP-5000 series modules of ICPDAS PAC controllers, and the second is for other Windows CE5.0 systems.

WP-8000 series:

WP-8131/WP-8431/WP-8831, WP-8141/WP-8441/WP-8841 WP-8137/WP-8437/WP-8837, WP-8147/WP-8447/WP-8847 WP-8139/WP-8431/WP-8839, WP-8141/WP-8441/WP-8849 WP-8136/WP-8431/WP-8836, WP-8141/WP-8441/WP-8846

WP-5000 series:

WP-5141/WP-5441-OD/WP-5149/WP-5449-OD/WP-5147/WP-5447-OD/ WP-5146/WP-5446-OD

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2.1.2.1. Installation for WinPAC-8000 and WinPAC-5000

The following procedure describes how to install the PenMount serial touch driver. Note that **the default COM port for serial touch driver is COM4**.

There is a **RS-232 cable in the shipping package** (Sec.1). The user can directly use this cable to **connect the monitor with COM4 of WinPAC-8000 to use serial touch driver to do a touch operation by serial way**. If the user wants to use other com port, please note the position of TX and RX of COM port. About the pin assignment, please refer to the user manual of the WinPAC-8000





Warning:

The WinPAC-5000 series doesn't include a COM4, so please refer to "Changing the COM Port" in Sec.2.1.2.2 for details of how to change the COM Port to the specified COM Port.

 Copy the driver from the CD-ROM to the WinPAC. The "PenMount_Serial_TOUCH_Vyyyymmdd(PM6000R).CAB" driver file can be obtained from:

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[name]	Driver path
TP-2070/TP-3080/TP-5120/	CD:\[name]\Driver\WinCE\V5.0\WP-8000 and WP-5000 device
TPM-4100_TP-4100/TP-6150	For example:
/TP-7170	CD:\TP-6150 \Driver\WinCE\V5.0\WP-8000 and WP-5000
	device

Or go to the "\System_Disk\External_device_driver\" folder on the WinPAC.

2. Double-click the "PenMount_Serial_TOUCH_Vyyyymmdd(PM6000R).CAB" file.



3. Show one of two dialogs below. Just click "OK" button to continue installation.

Install ICP 🦻 📂 🕅 OK 🗡	Click	"OK" button
🖄 My Device		
Deplication Data 🛛 🗁 Program Files		Already Installed
My Documents System_Disk	•	
Setwork Contraction Temp	Or	ICPDAS SERIAL PM6000 is already installed. Re-install?
Name: (Install Here)		
Type:		

 From the "Start" menu, click "Programs"→Open the "WinPAC Utility", and then click the "Save and Reboot" option from the "File" menu.



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2.1.2.2. Configuration for WinPAC-8000 and WinPAC-5000

Calibration

 From the "Start" menu, click "Programs"→"Serial_TOUCH" →"PenMount"→"Calibration".



2. Follow the instruction on the screen to begin calibration.

	Calibration Mode Select Click on the preferred mode Wait 4 seconds to 9 Points 4 Points	9 Points	16 Points	
🐉 🎸 PenMount Calibr	ration		k,	🌉 🕹 + 7:34 PM 🏓 🚰 .

 Once calibration has been completed, from the "Start" menu, click "Programs"→Open the "WinPAC Utility", and then click the "Save and Reboot" option from the "File" menu.



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Changing the COM Port

- 1. From the "Start" menu, click "Programs"→"Serial_TOUCH"
 - →"PenMount"→"SetCOM".



2. In the pop-up dialog, select the COM Port you wish to use as default and click the "Set" button to save the changes.

Set CO	M Port (PenMount)PM60 🔀
сом	Port
4	Set
2 3	4
4	

 From the "Start" menu, click "Programs"→Open the "WinPAC Utility", and then click the "Save and Reboot" option from the "File" menu.



4. Disconnect the cable from the current COM Port and reconnect it to the specified COM Port.

Simulating the Right Mouse Button

For details of how to configure right mouse button simulation, please refer to the process describes in "Simulating the Right Mouse Button" in <u>Sec.2.1.1.2</u>

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2.1.2.3. Uninstalling the WinPAC-8000 and WinPAC-5000

The following procedure describes how to uninstall the PenMount serial touch driver.

- 1. From the "Start" menu, click "Programs"→"Serial_TOUCH"
 - →"PenMount"→"Uninstall"



2. A warning pop-up will be displayed asking you to confirm the uninstall request. Click the "Yes" button to uninstall the driver.

Uninsta	ll Drivers(V104) 🛛 🛛 🗙
?	Are you uninstalling this drivers?
	Yes No

 Once the uninstallation process is complete, a dialog will displayed requesting that you reboot the system. Click the "Yes" button to reboot the WinPAC immediately, or click "NO" if you intend to reboot at a later time.

Uninstall Drivers ×
The Driver is uninstalled , plase reboot the system
<u>Y</u> es

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2.1.2.4. Other Windows CE5.0 Devices

[name]	Driver path
TP-2070/TP-3080/	CD:\[name]\Driver\WinCE\V5.0\Other CE5.0 device
	For example:
TPM-4100_TP-4100/	CD:\TP-2070\Driver\WinCE\V5.0\Other CE5.0 device
TP-5120/TP-6150//TP-7170	

The driver can be obtained from:

or go to PenMount website to download the latest driver:

http://www.penmount.com/down_2_1.php

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2.2. Windows CE 6.0

This section describes how to install, calibrate and uninstall the touch driver for the XP-8000-CE6 series, and gives details of how to obtain drivers for other CE6 devices.

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2.2.1. USB Touch Driver

Two USB touch drivers are available. The first is for XP-8000-CE6 series modules of ICP DAS PAC controllers and, and the second is for other Windows CE6.0 systems.

XP-8000-CE6 series:

1. Using the ATOM CPU:

XP-8141-Atom-CE6/XP-8341-Atom-CE6/XP-8741-Atom-CE6 XP-8147-Atom-CE6/XP-8347-Atom-CE6/XP-8747-Atom-CE6 XP-8149-Atom-CE6/XP-8349-Atom-CE6/XP-8749-Atom-CE6

2. Using the LX800 CPU:

XP-8041-CE6/XP-8341-CE6/XP-8741-CE6 XP-8047-CE6/XP-8347-CE6/XP-8747-CE6 XP-8049-CE6/XP-8349-CE6/XP-8749-CE6 XP-8046-CE6/XP-8346-CE6/XP-8746-CE6

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2.2.1.1. Installation for XP-8000-CE6

The following procedure describes how to install the PenMount USB touch driver.

1. Copy the driver from the CD-ROM to the XP-8000-CE6.

The "PenMount_USB_TOUCH_Vxx_yyyymmdd_XPAC_CE6.CAB" driver file can be obtained from:

Driver path
CD:\[name]\Driver\WinCE\V6.0\XP-8000-CE6 device\
For example:
CD:\TP-2070\Driver\WinCE\V6.0\XP-8000-CE6 device\

Or go to the "\System_Disk\External_device_driver" folder on the XP-8000-CE6.

2. Double-click the

"PenMount_USB_TOUCH_Vxx_yyymmdd_XPAC_CE6.CAB" file.

Tips & Warnings



The driver (*.cab) file can only be used once. If you attempt to use it to install driver a second time, a warning dialog with a message similar to "<FileName> is not a valid Windows CE Setup file" will be displayed advising that the setup has failed. Please re-download a new (*.cab) file to use.

Setup Failed
The file "\System_Disk\External_device_driver\PenMount_USB_" is not a valid Windows CE Setup file.
ОК

3. Depending on the type of CPU, one of two dialog windows will be displayed. Click the "OK" button to continue with the installation.

Using the ATOM CPU

Using the LX800 CPU

	Install ICPDAS	🔁 🖆 ОК 🗡				
Installi	🔍 My Device	$\mathbf{\cup}$		Install ICPDAS USP	PenMount 🗈 💣 🧱 🏢	OK K
Instal	Application Data Application Data My Documents Retwork Program Files	System_Disk System_Disk Temp Windows	Or	My Device Application Data My Documents Network Program Files System_Disk	Control Panel	
	<u>T</u> ype:	Ţ	J	<u>N</u> ame: (Install Here)	Type:	7

4. Once the installation has been completed, a dialog will be displayed advising that the system needs to be rebooted. Click the "OK" button to reboot the XP-8000-CE6.

install		ок 🗙
?	Install complete!! Press 'OK' button to reboot the system, and	d the settings will take effect.

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2.2.1.2. Configuration for XP-8000-CE6

Calibration

 From the "Start" menu, click "Programs"→"USB_TOUCH" →"PenMount"→"Calibration".



2. Following the instructions on the screen to begin calibration.

C	Calibration Mode Select: v1.6		×	
	Click on the preferred mode Wait 6 seconds to 9 Points			
	4 Points	9 Points	16 Points	
	\searrow			
🎸 PenMount Calibration				

Simulating the Right Mouse Button

For details of how to simulate right mouse button functions, please refer to the process described in "Simulating the Right Mouse Button" in <u>Sec. 2.1.1.2</u>

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2.2.1.3. Uninstalling the XP-8000-CE6

The following procedure describes how to uninstall the PenMount USB touch driver.

1. From the "Start" menu, click "Settings" \rightarrow "Control Panel".



2. Double click the "Remove Programs" icon and select "ICPDAS USB PenMount" from the "Programs" panel in the "Remove Programs" dialog box and then click the "Remove" button. When the warning pop-up, click "Yes" button to permanently uninstall the driver.



3. Once the uninstallation process is complete, a dialog will be displayed requesting that you reboot the system. Click the "Yes" button to reboot immediately or click the "No" button if you intend to reboot at a later time.

Uninsta	all 🔀
?	Uninstall successed !! Press 'Yes' button to reboot
	Yes No

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2.2.1.4. Other Windows CE6.0 Devices

The driver car	n be obtained from:
----------------	---------------------

[name]	Driver path
TP-2070/TP-3080/	CD:\[name]\Driver\WinCE\V6.0\Other CE6.0 device\
TPM-4100_TP-4100/	For example:
TP-5120/TP-6150/TP-7170	CD:\TP-2070\Driver\WinCE\V6.0\Other CE6.0 device\

or go to the PenMount website to download the latest driver:

http://www.penmount.com/down_2_1.php

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2.2.2. Serial Touch Driver

Two serial touch drivers are available. The first is for XP-8000-CE6 series modules of ICPDAS PAC controllers and the second is for other Windows CE6.0 systems.

XP-8000-CE6 series:

1.Using ATOM CPU

XP-8141-Atom-CE6/XP-8341-Atom-CE6/XP-8741-Atom-CE6 XP-8147-Atom-CE6/XP-8347-Atom-CE6/XP-8747-Atom-CE6 XP-8149-Atom-CE6/XP-8349-Atom-CE6/XP-8749-Atom-CE6

2.Using LX800 CPU

XP-8041-CE6/XP-8341-CE6/XP-8741-CE6 XP-8047-CE6/XP-8347-CE6/XP-8747-CE6 XP-8049-CE6/XP-8349-CE6/XP-8749-CE6 XP-8046-CE6/XP-8346-CE6/XP-8746-CE6

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2.2.2.1. Installation for XP-8000-CE6

The following procedure describes how to install the PenMount Serial touch driver. Note that the default COM Port for the touch driver is COM5.

There is a **RS-232 cable in the shipping package** (Sec.1). The user can directly use this cable to **connect the monitor with COM5 of XP-8000-CE6 to use serial touch driver to do a touch operation by serial way**. If the user wants to use other com port, please note the position of TX and RX of COM port. About the pin assignment, please refer to the user manual of the XP-8000-CE6



1. Copy the driver from the CD-ROM to the XP-8000-CE6 device.

The "PenMount_Serial_TOUCH_Vxx_yyymmdd_XPAC_CE6(PM6000R).CAB" file can be obtained from:

 [name]
 Driver path

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TP-2070/TP-3080/	CD:\[name]\Driver\WinCE\V6.0\XP-8000-CE6 device\ For example:
TPM-4100_TP-4100/	CD:\TP-2070\Driver\WinCE\V6.0\XP-8000-CE6 device\
TP-5120/TP-6150/TP-7170	

Or go to the "\System_Disk\External_device_driver" folder on the XP-8000-CE6.

2. Double click the

"PenMount_Serial_TOUCH_Vxx_yyyymmdd_XPAC_CE6(PM6000R).CAB" file.

Tips & Warnings



The driver (*.cab) file can only be used once. If you attempt to use it to install driver a second time, a warning dialog with a message similar to "<filename>is not a valid Windows CE Setup file" will be displayed advising that the setting has failed. Please re-download a new (*.cab) file to use.

Setup Failed
The file "\System_Disk\External_device_driver\PenMount_Serial_ .CAB" is not a valid Windows CE Setup file.
ОК

3. Depending on the type of CPU, one of two dialog windows will be displayed.

If the controller use the ATOM CPU, the following will be displayed.

Alternatively, if the controller use the LX800 CPU, the following will be displayed.

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	Install ICPDAS S 🖻 🛒 OK 🗙		Install ICPDAC Cor	ial PenMount 🗈 🥂 🧱 🏢	ОКК
Installi	🔍 My Device	Or	My Device		
Instal	Application Data System_Disk My Documents System_Disk Program Files Windows		Application Data My Documents Network Program Files System_Disk	➢ Temp ➢ Windows ℬ Control Panel	
	Name: (Install Here)		<u>N</u> ame: (Install Here)	<u>T</u> ype:	V
	Type:				
Click the "OK" button to continue with the installation					

Click the "OK" button to continue with the installation.

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4. Once the installation has been completed, a dialog will be displayed advising that the system needs to be rebooted. Click the "OK" button to reboot the XP-8000-CE6.

install	ок 🗙
?	Install complete!! Press 'OK' button to reboot the system, and the settings will take effect.

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2.2.2.2. Configuration for XP-8000-CE6

Calibration

 From the "Start" menu, click "Programs"→"Serial_TOUCH" →"PenMount"→"Calibration"



2. Follow the instruction on the screen to begin calibration. You will be presented with one of two screens depending on the CPU you are using.

	PerMount Calbriton Program. Driver: 2.13, Finware: 6000.6.0.0 Please touch the red point.	If you are using the LX800 CPU, the screen will look like this.
If you are using the ATOM CPU, the screen will look like this.	ATOM CPU, the screen	Chi di Succión Di Silvardi di di acción di Silvardi di Palantes 9 Palantes 16 Palantes Eg

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Change the COM Port

 From the "Start" menu, click "Programs"→"Serial_TOUCH" →"PenMount"→"SetCOM".



 Just choose the COM port→Click "Set" button→Click "Yes" button to reboot the system. The baudrate for the touch monitor is 19200 bps, so please don't modify the baudrate of touch driver.



Simulating Right Mouse Button

For details of how to configure right mouse button simulation, please refer to the process describes in "Simulating the Right Mouse Button" in <u>Sec.2.1.1.2</u>

2.2.2.3. Uninstalling the XP-8000-CE6

The following procedure describes how to uninstall the PenMount serial touch driver.

1. From the "Start" menu, click "Settings" \rightarrow "Control Panel".



2. Double click the "Remove Programs" icon and select "ICPDAS Serial PenMount" from the "Programs" panel in the "Remove Programs" dialog box and then click the "Remove" button. When the warning pop-up, click "Yes" button to permanently uninstall the driver.

<u>File V</u> iew								[? ×
<u>0 </u>	1		۵ ک			P	1	4	
Certifie te/Time Device Management	Dialing Display	Input Panel k	Keyboard Mouse	Network and Dial-up Co	Owner	Password	PC Connection	Power	
	51			bidi dp com			connocdon		
Regional Remove Storage Settings Programs Manager	System								
Remove Program	16		ок 🗙						
Remove Programs	>	_							
The lis	ted software can be Pro	arene:	2						
remov	atically removed. To ICP e a program, selectit he list and then	DAS Serial PenMou	unt i						
	Remove.								
	Remove								
	Remove Programs	;		•		×			
	The selecte		permanently removed	. Are you sure you	u want to rem	iove			
	it?								
			Yes No						
🎝 Start 🤽 Virtual CE	🕑 Con	trol Panel		🍓 Remove Progr	ams		💥 🕹 СН	11:47 PM	🕑 拼

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3. Once the uninstallation process is complete, a dialog will be displayed requesting that you reboot the system. Click the "Yes" button to reboot immediately or click the "No" button if you intend to reboot at a later.

Uninstall
• Uninstall successed !! Press 'Yes' button to reboot
<u>Y</u> es <u>N</u> o

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2.2.2.4. Other Windows CE 6.0 Device

[name]	Driver path
TP-2070/TP-3080/	CD:\[name]\Driver\WinCE\V6.0\Other CE6.0 device\
TPM-4100_TP-4100/	For example:
TP-5120/TP-6150/TP-7170	CD:\TP-2070\Driver\WinCE\V6.0\Other CE6.0 device\

The driver can be obtained from:

or go to the PenMount website to download the latest driver:

http://www.penmount.com/down_2_1.php

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2.3. Windows XP Embedded

The touch driver for XP embedded is a universal driver. USB and Serial both use the same driver.

2.3.1. Universal Driver

Two universal touch drivers are available. The first is for XP-8000 series modules of ICP DAS PAC controller, and the second is for other Windows XP embedded system.

XP-8000 series:

1.Using ATOM CPU

XP-8141-Atom/XP-8341-Atom/XP-8741-Atom

2. Using LX800 CPU

XP-8041/XP-8341/XP-8741

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2.3.1.1. Installation for XP-8000

The following procedure describes how to install the PenMount universal touch driver.

There is a **RS-232 cable in the shipping package** (Sec.1). The user can directly use this cable to **connect the monitor with COM5 of XP-8000 to use universal touch driver to do a touch operation by serial way**. If the user wants to use other com port, please note the position of TX and RX of COM port. About the pin assignment, please refer to the user manual of the XP-8000.



1. Copy the driver from the CD-ROM to the XP-8000.

The "PenMount Windows Universal Driver Vx.x.x.x" folder can be obtained from:

[name]	Driver path
TP-2070/TP-3080/	CD:\[name]\Driver\Win_XP_Embedded\XP-8000 device\

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TPM-4100_TP-4100/

For example:

TP-5120/TP-6150/TP-7170 CD:\TP-2070\Driver\Win_XP_Embedded\XP-8000 device\

2. Executing XPAC Utility to disable EWF on desktop.

📁 PenMount Windows Universal Driver V	/2.1.0.234
XPAC Utility V1.0.5.0 2012/03/27	
File Help	
System Information Auto Exe	cution EWF Operation Multi-serial Port Module
Automatically run EWF Statu	us when I log on Windows
	Write-Protect has been disabled!
O Enable	You must restart this computer for the changes to take effect.
O Disable	
2 Setting 3	
(Warening!
	4

3. Double click Setup.exe in the driver's folder.



4. Click "Next" button to continue installation.



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5. Click "I Agree" button.



6. Click "Install" button to install driver to destination folder.

😚 PenMount Universal Driver 2.1.0.234 Setup	_ = 🛛
Choose Install Location Choose the folder in which to install PenMount Universal Driver 2.1.0.234.	
Setup will install PenMount Universal Driver 2.1.0.234 in the following folder. To inst different folder, click Browse and select another folder. Click Install to start the insta	
Destination Folder C:\Program Files\PenMount Universal Driver Browse.	
Space required: 0.0KB Space available: 827.6MB	
Nullsoft Install System v2,41	Cancel

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Tips & Warnings



If a screen appears that shows "Found New Hardware Wizard". Do not use this hardware wizard. Press Cancel.



If a screen appears that shows "Hardware Installation". Please press "Continue Anyway".



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7. Click "Finish" button.

😽 PenMount Universal Driver :	2.1.0.234 Setup
	Completing the PenMount Universal Driver 2.1.0.234 Setup Wizard PenMount Universal Driver 2.1.0.234 has been installed on your computer. Click Finish to close this wizard.
	< Back Finish Cancel

- **8.** Restart XP-8000.
- **9.** Connect USB or serial cable to XP-8000(USB and serial can not be used simultaneously).

If the USB or serial touch doesn't work, please follow the steps below.

 a. From the "Start" menu, click "Programs"→"PenMount Universal Driver"→"PenMount Control Panel".



 b. "Device" tab→click "Refresh" button to search USB or serial touch screen monitor→ if search is successful, "PenMount 6000 USB" or "PenMount 6000 RS232" will show.

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🙀 PenMount Control Panel		
Device Multiple Monitors Tools About		
Select a device to configure.	USB touch	
Configure Refresh 1	CoK Select a device to configure.	
	PenMount 6000 R 2	
Serial touch	Configure Refresh	<pre></pre>

c. If search is successful, USB or serial touch driver has been installed.10. Executing XPAC Utility to enable EWF on desktop.



11. Restart XP-8000.

2.3.1.2. Configuration for XP-8000

Calibration

 From the "Start" menu, click "Programs"→"PenMount Universal Driver"→ "PenMount Control Panel".



 Check if the pattern "PenMount 6000 USB" or "PenMount 6000 RS232" shows. If yes, select a device and click "Configure" button. If no, refer to Sec.2.3.1.1.

👫 PenMount Control Panel 📃 🗖 🗙		RenMount Control Panel	- - ×
Device Multiple Monitors Tools About		Device Multiple Monitors Tools About	
Select a device to configure.	Or	Select a device to configure.	
2 Configure Refresh		2 Configure Refresh	ок

USB touch driver

Serial touch driver

3. Click "Standard Calibration" to calibrate.

	Device 0 (PenMount 6000 USB) Calibrate Setting About	3
Click here to		
	Standard Calibration	
	Turn off EEPROM storage.	
	ОК	

4. Executing XPAC Utility to disable EWF to save setting on desktop.

🔨 XPAC Utility ¥1.0.5.0 2012/03/27	
File Help	
System Information Auto Ex	ecution EWF Operation 1 erial Port Module
Automatically run EWF Sta	tus when I log on Windows
EWF Control	Write-Protect has been disabled! You must restart this computer for the changes to take effect.
O Enable	
2 Disable 3	
	Warning!
4	

- 5. Restart XP-8000.
- 6. Executing XPAC Utility to enable EWF on desktop.

K XPAC UHIHY V1.0.5.0 2012/03/27	
File Help	
System Information Auto Execution EWF Operation Multi-se	erial Port Module
Automatically run EWF Status when I log on Windows	
Write-Protect enable Success! O Disable Setting You must restart this computer for the You must restart this computer for the change OK	

7. Restart to XP-8000 for the changes to take effect.

Change the COM Port

For serial touch driver

Method1: The touch driver will detect all com port to find what com port connects to serial touch screen monitor automatically when XP-8000 reboots every time.

Method2: Please refer to the Step 9 of Sec.2.3.1.1 to detect again.

Simulating Right Mouse Button

 From the "Start" menu, click "Programs"→"PenMount Universal Driver" →"PenMount Control Panel".

g 🕻	Programs			Accessories Microsoft SQL Server 2005	•		
ğ 尾	Documents			👼 PenMount Universal Driver		PenMount Control Panel	
Embedded Standard	Settings		ŀ	×	6	PenMount Monitor Uninstall	
edd 📎	Search		۲				
	Help and Sup	pport					
	7 Run						
8	Shut Down						
🯄 s	tart						

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2. Click "Right Button Icon"

R PenMount Control Panel	
Device Multiple Monitors Tools	About
Draw	Test by drarwing on the touch screen 🏾 🚧
Advanced Calibration	Turn ON/OFF Advanced Calibration Mode
Right Button Icon	how/Hide the icon for switching buttons
	Back to Default_OK

Show a screen below (Left picture) → Click the "mouse" → Turn into right picture.



 Click any object: Click "My computer" to test if the "Right Button Icon" function work. If the screen below shows, the "Right Button Icon" function works.



5. You can simulate the operation of right mouse button to repeat step3 and step4 for any object.

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2.3.1.3. Uninstall for XP-8000

The following procedure describes how to uninstall the PenMount universal touch driver.

1. Executing XPAC Utility to disable EWF to start to save setting.

	XPAC Utility V1.0.5.0 2012/03/	27	
	File Help		
	System Information	Auto Execution EWF Operation 1 erial Port Module	
	System mondation	Auto Execution (EWP Operation) enan on module	
	🔲 Automatically run E	EWF Status when I log on Windows	
	CEWF Control	Write-Protect has been disabled!	~
	O Enable	You must restart this computer for the changes to take effect.	
	 Disable 		
U	2 Setting	3	
		Warning!	
		You must restart this computer for the changes to take effect.	
			~

 From the "Start" menu, click "Programs"→"PenMount Universal Driver" →"Uninstall".



3. Click "Yes" button.

Uninstall	X	
2	Are you sure you want to completely remove PenMount Universal Driver 2.1.0.234 and all of its components?	
	Yes No	

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4. Click "Yes" button to reboot.



5. After reboot, executing XPAC Utility to enable EWF on desktop.



6. Restart XP-8000.

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2.3.1.4. Other Windows XP Embedded Devices

[name]	Driver path
TP-2070/TP-3080/ TPM-4100_TP-4100/	CD:\[name]\Driver\Win_XP_Embedded\Other XP Embedded device\
TP-5120/TP-6150	For example:
/TP-7170	CD:\TP-2070\Driver\Win_XP_Embedded\Other XP Embedded device\

The driver can be obtained from:

or go to the PenMount website to download the latest driver:

http://www.penmount.com/down_2_1.php

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2.4. Windows XP/7

The touch driver for 2k/XP/2003/2008/Vista/7 is a universal driver. USB and Serial both use the same driver.

2.4.1. Universal Driver

This section describes how to install, calibrate and uninstall the universal driver for 2k/XP/2003/2008/Vista/7.

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2.4.1.1. Installation

The following procedure describes how to install the PenMount universal touch driver.

1. Copy the driver from the CD-ROM to your device.

The touch driver can be obtained from:

[name]	Driver path
TP-2070/TP-3080	CD:\[name]\Driver\Win_XP_7\
TPM-4100_TP-4100/	For example:
TP-5120/TP-6150//TP-7170	CD:\TP-2070\Driver\Win_XP_7\

- 2. Connect USB or serial cable to your device (USB and serial can not be used simultaneously).
- **3.** Executing Setup.exe.
- 4. Click "Next" button to continue installation.



5. Click "I Agree" button.



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6. Click "Install" button to install driver.



7. Click "Finish" to finish installation.

PenMount Windows Universal Driver V2.2.0.283.(Win7 32/64			
	Completing the PenMount Windows Universal Driver V2.2.0.283.(Win7 32/64bit WHQL) Setup Wizard		
	PenMount Windows Universal Driver V2.2.0.283.(Win7 32/64bit WHQL) has been installed on your computer.		
	Click Finish to close this wizard.		
	< Back Finish Cancel		

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Tips & Warnings



When the system first detects a touch monitor, a screen appears that shows "Unknown Device". Do not use this hardware wizard. Press Cancel.



- **8.** If the USB or serial touch doesn't work, following the steps below:
 - a. From the "Start" menu, click "All Programs"→"PenMount Windows Universal Driver"→"Utility"→"PenMount Control Panel".



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 b. "Device" tab→click "Refresh" button to search USB or serial touch screen monitor→ if search is successful, "PenMount 6000 USB" or "PenMount 6000 RS232" will show.

👫 PenMount Control Panel		
Device Multiple Monitors Tools About		
Select a device to configure.	USB touch	
Configure Refresh		
	👫 PenMount Control Panel	- - ×
	PenMount Control Panel Device Multiple Monitors Tools About	_ _ ×
Serial touch	Device Multiple Monitors Tools About Select a device to configure.	
Serial touch	Device Multiple Monitors Tools About Select a device to configure.	

c. If search is successful, the USB or serial touch driver has been installed.

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2.4.1.2. Configuring

Calibration

 From the "Start" menu, click "All Programs"→"PenMount Windows Universal Driver"→"Utility"→"PenMount Control Panel".

	_	
🔏 Windows Messenger	💼 PenMount Windows Universal Driver 🔸	🖬 Utility 🦳 🦓 PenMount Control Panel
	🛅 Startup 🔹 🕨	🗊 Uninstall 🛛 🖳 PenMount Gesture
Tour Windows XP	🧭 Internet Explorer (32-bit)	PenMount Monitor
Files and Settings Tra	🥌 Internet Explorer (64-bit)	
Wizard	🐋 MSN	
🔡 Paint	🗐 Outlook Express	
M Lanc	💫 Remote Assistance	
	💿 Windows Media Player	
	🔏 Windows Messenger	
All Programs 🕨	🚳 Windows Movie Maker	
	🔊 Log Off 🛛 🚺 Turn Off Computer	
🛃 start 🛛 🥭 🙆	🦉 touch7 - Paint	

 Check if the pattern "PenMount 6000 USB" or "PenMount 6000 RS232" shows. If yes, select a device and click "Configure" button. If no, refer to Sec.2.4.1.1.

👫 PenMount Control Panel	_ 🗆 🔀	🖁 PenMount Control Panel 📃 🗆 🗙
Device Multiple Monitors Tools About		Device Multiple Monitors Tools About
Select a device to configure. PenMount 6000 USB	Or	Select a device to configure. PenMount 1 6000 R 2 Configure Refresh
		ОК
	<u>i</u>	
USB touch driver		Serial touch driver

3. Click "Standard Calibration" to calibrate.

🖉 Device 0 (PenMount 6000 USB)			
Calibrate Setting Edge Compensation About		1	
	Advanced Mode 9	•	
	Plot calibration data		
Standard Calibration	<u>A</u> dvanced Calibration		
Turn off EEPROM storage.			Click here to calibrate
		ОК	

Change the COM Port

For serial touch driver

Method1: The touch driver will detect all com port to find what com port connects to serial touch screen monitor automatically when PC reboots every time.

Method2: Please refer to the Step 8 of Sec.2.4.1.1 to detect again.

Simulating Right Mouse Button

For details of how to configure right mouse button simulation, please refer to the process describes in "Simulating the Right Mouse Button" in <u>Sec.2.3.1.2</u>.

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2.4.1.3. Uninstall

The following procedure describes how to uninstall the PenMount universal touch driver.

XP:Start→All Programs→PenMount Windows Universal Driver→Uninstall.
 Win7: Control Panel→Programs→Programs and Features



2. Click "Next" button.

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🗊 PenMount Windows Universal Driver V2.2.0.283. (Win7 32/64 🔳 🗖 🗙		
	Welcome to the PenMount Windows Universal Driver V2.2.0.283.(Win7 32/64bit WHQL) Uninstall Wizard	
	This wizard will guide you through the uninstallation of PenMount Windows Universal Driver V2:2.0.283.(Win7 32/64bit WHQL).	
	Before starting the uninstallation, make sure PenMount Windows Universal Driver V2.2.0.283.(Win7 32/64bit WHQL) is not running.	
R	Click Next to continue.	
	Next > Cancel	

3. Click "Uninstall" button.

	nt Windows Universal Driver V2.2.0.283. (Win7 32/64bit
Remove PenMount your computer.	Windows Universal Driver V2.2.0.283.(Win7 32/64bit WHQL) from
	: Universal Driver V2.2.0.283.(Win7 32/64bit WHQL) will be uninstalled older. Click Uninstall to start the uninstallation.
Uninstalling from:	C:\Program Files (x86)\PenMount Windows Universal Driver\

4. Click "Finish" button to reboot.



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Appendix A. Revision History

Revision	Date	Description
1.0.2	August 2012	First release
1.0.3	September 2013	 Modify specifications about TP-4100/TPM-4100
		2. Modify the name of serial driver for WinPAC-8000 and WinPAC-5000
		3. Add "Tips & Warnings" to Step6 in Sec.2.3.1.1
1.0.4	September 2013	Add related description of "TP-3070"
1.0.5	October 2013	Add related description of "TP-6150/TPM-6150"
1.0.6	December 2013	Modify the model name:
		TP-3070 to TP-2070
1.0.7	May 2014	 Delete related description of TPM-6150
		2. Add related description of TP-3080/TP-5120/TP-7170
		3. There are two kinds of OSD menu.
		TP-4100/TPM-4100/TP-2070 use the
		same OSD menu.
		TP-3080/TP-5120/TP-6150/TP-7170
		use the other one.
		 The OS version 1710 and upward of WP-8x4x supports resolution 640X480 for TP-2070.
		The OS version 1300 and upward of WP-5x4x supports resolution 640X480 for TP-2070.
		5. TP-6150 cancels the power switch.
		The function is moved to OSD menu.