

**PD-360UE/360R Series
Rear-Mount Customer Display
User Manual**



PD-360UE



PD-360R

Package Contents

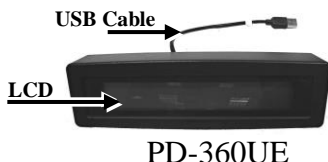
- ✓ Rear-Mount Customer Display (x 1)
- ✓ Screw (x 2)
- ✓ User Manual (x 1)

Product Features

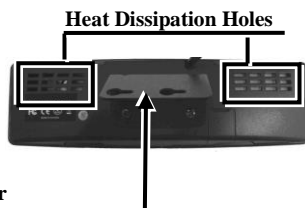
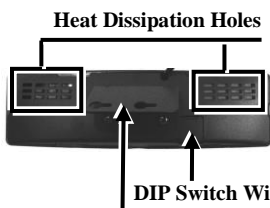
- OPOS application support
- LCD Customer Line Display
- Blue character and yellow background
- Two-line display with 20 characters per line
- Large character size for easy viewing: 6.0 mm x 9.6 mm
- Command emulations support: PST & ESC/POS
- Rear-mount for PS-3000 series terminal

Views of the PD-360UE/360R Series

Front View



Rear View



Adjusting the DIP Switch of PD-360UE

There is a small piece of plastic cover for the DIP switch window on the rear side of the PD-360UE. Slide the cover downward and you can find a DIP switch in this window. Depending upon your request, adjust the DIP switch for an interface class in which the DP-360UE works by referring to the table below.

Switch Position				Interface
1	2	3	4	
ON	ON	OFF	OFF	USB Vendor Class
ON	OFF	OFF	OFF	USB HID Class
OFF	ON	OFF	OFF	Reserved
OFF	OFF	OFF	OFF	Virtual COM Port

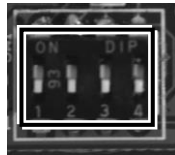
Setting up the PD-360UE for Virtual COM Port Mode

To make the customer display work in virtual COM mode, configure the DIP switch of PD-360UE before installing the virtual COM driver. Refer to the following instruction for the DIP switch configuration.

1. Slide the cover of the DIP switch window on the rear side of the PD-360UE.



2. Switch down the DIP switch positions 1~4 to OFF.



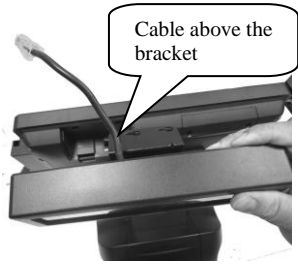
Mounting the Customer Display onto a POS Terminal

During Installation of the PD-360UE or PD-360R customer display, do NOT power ON your POS terminal. To mount the customer display onto your PS-3000 series POS terminal, please apply 2 screws that are packed together with the PD unit. Before mounting the customer display, carefully read the following step-by-step instruction on the display installation.

1. Remove the rear I/O cover of your PS-3000 series POS terminal.



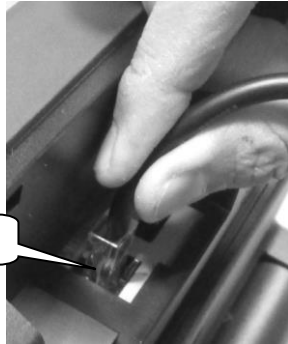
2. Take the customer display out of the PD-360UE/360R package box. Here, PD-360R is taken for example of installation. Hold the display and determine that the cable is placed above the bracket mounted onto the rear side of the display.



3. If you are a PD-360R user, align the RS-232 cable of the display with the COM port of your terminal; if you are a PD-360UE user, align the USB cable of the display with the USB port of your terminal.



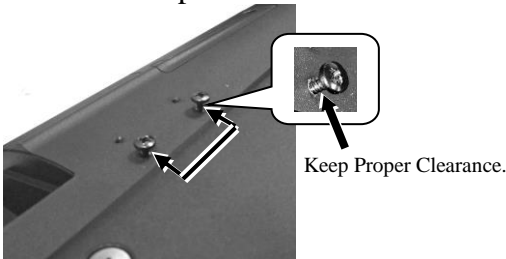
4. Connect the cable of the display to the I/O port of your terminal.



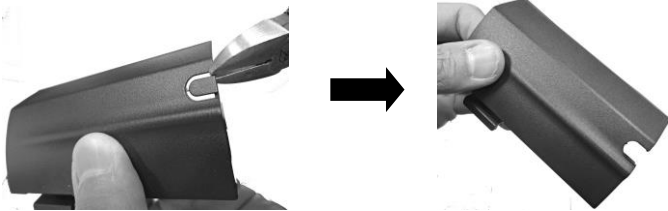
5. Take two screws out of the package box. Align the two screws respectively with lower row of the two screw holes on the rear side of the terminal and then turn each of the screws a bit.



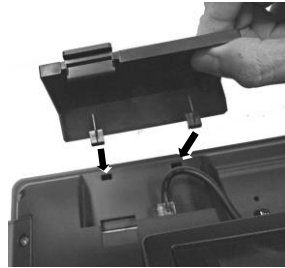
- Determine that adequate clearance is kept between the head of screw and the rear plate of the terminal.



- By using a diagonal cutting nipper, cut the cable-exit shield off the rear I/O cover you removed from the POS terminal at step 1.



- Align the two wedge tabs of the rear I/O cover with the two wedged portion of the rear plate of the terminal, and then make the two wedge tabs wedge respectively into the two wedged portion of the rear plate of the terminal.



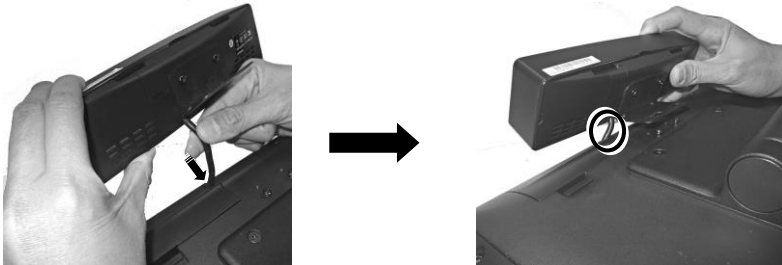
- To arrange the I/O cable of the display, make the cable go through the cable exit of the rear I/O cover.



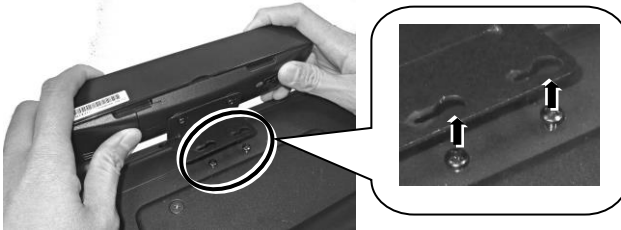
10. Lever down the hook of the cover to cover the rear I/O interface.



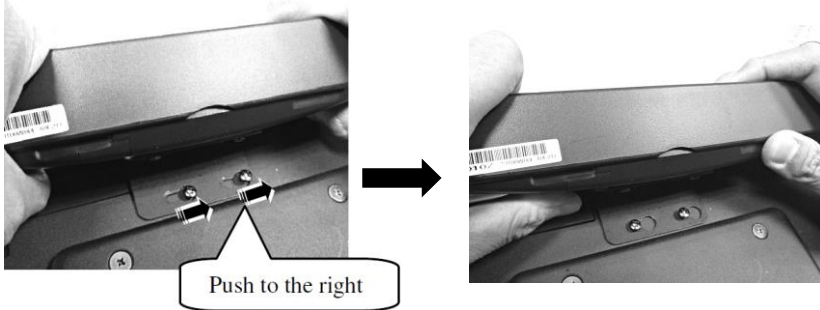
11. Tuck the I/O cable into the compartment of rear I/O section of the terminal as possible as you can.



12. Align the two big target bores formed on the bracket of the display with the two screws turning into the screw holes on the rear side of the terminal.



13. Push the customer display to the right.



14. Turn the two screws to the right to tighten them.



15. Determine that the customer display is well mounted onto the POS terminal.



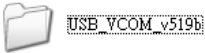
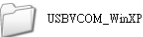




Enabling the PD-360R through BIOS

After you well connect the RS-232 cable of the customer display to a COM port of the PS-3000 series POS terminal, the POS terminal supplies +5VDC power through the connected COM port to the customer display. However, if your terminal does not supply +5VDC power to the customer display by default, please enable the 5VDC power supply through BIOS. To avoid users from damaging the main board of the system, it is highly recommended that BIOS setting is implemented by professional technicians.

Installing the Virtual COM Driver for PD-360UE

Before installing the virtual COM driver on your POS terminal, determine that the DIP switch positions 1~4 is switched to OFF. Then, refer to the following step-by-step instruction for the driver installation.

1. Connect the USB cable of PD-360UE to your POS terminal.
2. Locate the “SA_PD_LM” folder from the “Drivers” folder in the Local Disk (C:) of your POS terminal 
3. You will find the “USB_VCOM” folder and double click it. 
4. Then double click the “USB_VCOM_v519bx” folder. 
5. In the folder, you will see some files. Double click the PDF named **USB VCOM Drivers Installing Guide** to open. 


6. Then, refer to this installation guide to complete the driver installation.

Applicable Commands

EPSON Command Mode (Default)

Name	HEX Codes	Function
BS	<08>	Moving Cursor Left
HT	<09>	Moving Cursor Right
LF	<0A>	Moving Cursor Down
HOM	<0B>	Moving Cursor To Home Position
CLR	<0C>	Clearing Display Screen
CR	<0D>	Moving Cursor To Left Most Position
CAN	<18>	Clearing Cursor Line
ESC =	<1B><3D><n>	Selecting Peripheral Device / Command Mode n=1 pass through (should not be used) n=2, 3 (not required) n=4 switching to PST command mode ✳ <i>This command is applicable to the stand-alone RS-232 model only.</i>
ESC @	<1B><40>	Initializing Display
ESC t	<1B><74><n>	Disabling / Enabling Euro Dollar Sign n = 0, 13h Disabling/Enabling Rupee Dollar Sign n= 0, 60h
US MD1	<1F><01>	Specifying Overwrite Mode
US MD2	<1F><02>	Specifying Vertical Scroll Mode
US MD3	<1F><03>	Specifying Horizontal Scroll Mode
US LF	<1F><0A>	Moving Cursor Up
US CR	<1F><0D>	Moving Cursor To Right Most Position
US \$	<1F><24><n><m>	Moving Cursor To Specified Position n = 1 ~ 20 m = 1, 2
US @	<1F><40>	Showing Version
US B	<1F><42>	Moving Cursor To Bottom Position
US C	<1F><43><n>	Cursor On / Off, n = 1, 0
US E	<1F><45><n>	Blinking Display Screen n = 0 ~ 255

PST Command Mode

HEX Codes	Function
<06> <N ₁ > <N ₂ >	Changing Leading Code
<14> <01>	Wraparound Mode (Default)
<14> <02>	Vertical Scroll Mode
<14> <03>	Insert Mode
<14> <04>	Overwrite Mode (Default)
<14> <08>	Back Space
<14> <09>	Moving Cursor Right
<14> <0A>	Moving Cursor Down
<14> <0B>	Moving Cursor Left
<14> <0C>	Deleting Character
<14> <0D>	Moving Cursor To Left Most Position
<14> <0E>	Clearing Display
<14> <10>	Clearing Line 1
<14> <11>	Clearing Line 2
<14> <12>	Cursor Block Mode
<14> <13>	Cursor Under Line Mode
<14> <15> <02>	Clearing Pass Through Flag
<14> <16>	Switching To Epson Mode
<14> <17>	Cursor On
<14> <18>	Cursor Off
<14> <19>	Reset
<14> <1A> <P>	Moving Cursor To Position P (P=0~13,14~27h)
<14> <1B>	Moving Cursor To Rightmost Position Of Line 1
<14> <1C>	Moving Cursor To Rightmost Position Of Line 2

After code page table 19 is selected, the Euro Dollar Sign is designated at code <D5>h.

After code page table 96 is selected, the Rupee Dollar Sign is designated at code <60>h.

Specifications

PD-360UE/360R	
Display	LCD, STN positive transfective display with backlight
Number of digits	20 characters/row, 2 rows
Dot matrix	5 x 7 dots
Sign support	Euro and Rupee dollar sign
Character color	Dark blue
Backlight color	Yellow green
Wave length	570 nm
Max. brightness	150 cd/m ²
Active display area	142.8 mm (W) x 20.64 mm (H)
Character size	9.66 mm (H) x 6.0 mm (W)
Character pitch	7.2 mm (H) x 10.98 mm (V)
Dot size	1.12 mm (H) x 1.12 mm (V)
Dot pitch	1.22 mm (H) x 1.22 mm (V)
Display head size	58 mm (H) x 197 mm (W) x 39.5 mm (D)
Case color	Black or Ivory
Input voltage	+5VDC
USB interface mode	USB-HID class, USB-Vendor class, and Virtual COM Port mode, which are selected through DIP switch
Current consumption	300 mA max.
Environmental	Operation temperature: 0°C ~ +50°C Operating humidity: 20% to 85%, non-condensing Storage temperature: -10°C ~ +70°C Storage humidity: 5% to 90%, non-condensing

<MEMO>