

SA-705/715
2D Image Scanner
Installation Guide



Package Contents

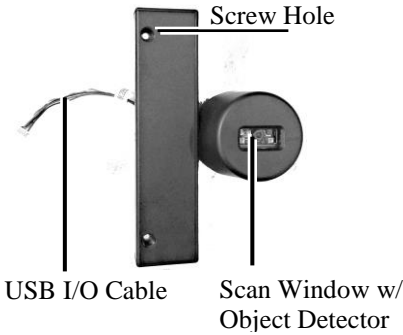
- ✓ 2D image scanner.....(x1)
- ✓ Installation guide.....(x1)
- ✓ 2D image scanner quick setup guide...(x1)

Features

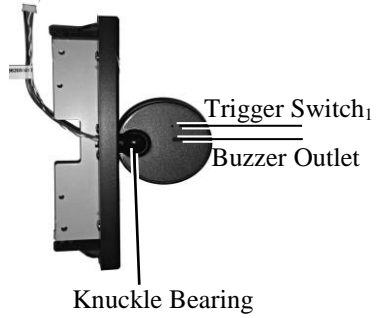
- Compact 2D image scanner
- Scan method: CMOS array sensor
- Scan rate: Up to 60 fps (SA-705) / 100 fps (SA-715)
- Interface: USB
- Cylinder type design

Views of the 2D Image Scanner

Front View



Rear View



Note 1: If you scan the Manual Trigger setting barcode by mistake, please make the SA-705/715 aim at the Auto Trigger setting barcode and then insert the tip of a paper clip into the trigger setting to scan the Auto Trigger setting barcode; the SA-705/715 will beep when the SA-705/715 is successfully set back to the Auto Trigger mode.

Hardware Installation

During Installation of the SA-705/715, do NOT power ON your terminal.

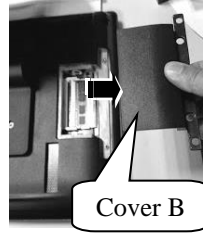
Installation of SA-705/715 onto the 15"/17" XT Series Terminals

Start to install SA-705/715 onto the terminal according to the following steps.

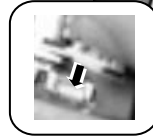
1. Loosen and remove the two fixing screws from the side mount cover on the back of the right side of the terminal.
2. Remove the side mount cover A from the back of the right side of the terminal.



3. Remove the side mount cover B from the terminal.



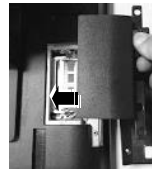
4. Insert the USB I/O cable of the SA-705/715 into the cable connector of the main board.



5. Determine that the USB I/O cable is securely connected to the cable connector of the main board.



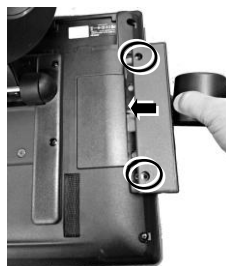
6. Put the large side mount cover back in place.



7. Move the USB I/O cable to the middle, as shown in the right figure.



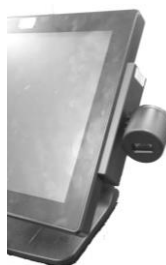
8. Align the two screw holes of the SA-705/715 cover with the two screw holes on the terminal.



9. Fix the SA-705/715 onto the terminal with the two fixing screws.



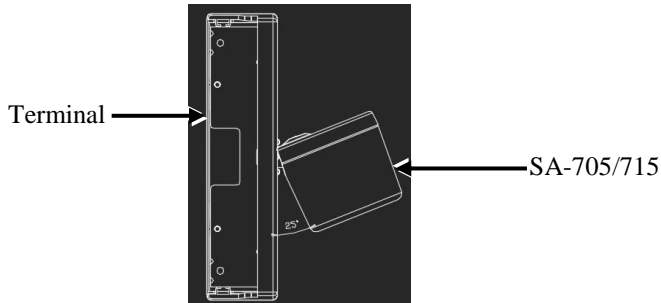
10. The installation of SA-705/715 onto the terminal is completed, as shown in the right figure.



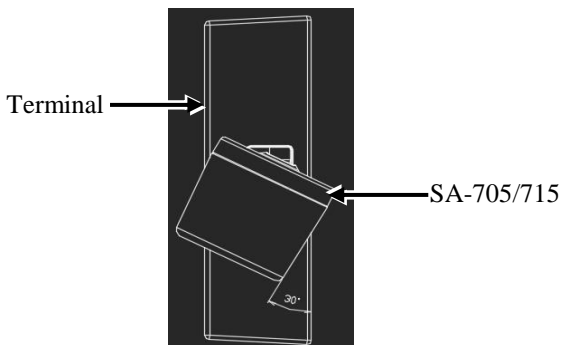
Adjustment of the SA-705/715 for a Better Operation Angle

To facilitate you to operate the 2D image scanner, you can adjust the scanning direction of the SA-705/715 at three sets of adjusting angle, as described below.

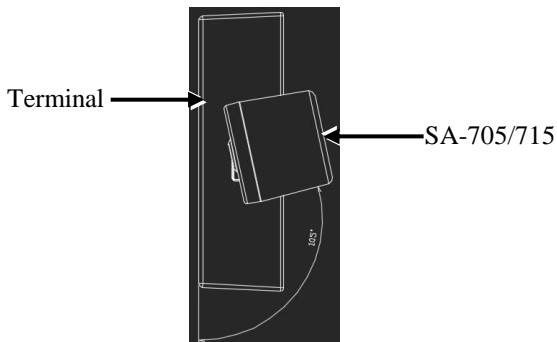
➤ Outward angle of 25 degrees from your XT-Series terminal



➤ Frontward angle of 30 degrees from your XT-Series terminal



➤ Backward angle of 105 degrees from your XT-Series terminal



Operating the 2D Image Scanner

SA-705/715 is provided with a 2D image scanner. This scanner works to scan 1D barcodes and 2D images. The scanner can work in USB HID or USB Virtual COM mode. By default, the scanner works in USB HID mode.

To do detailed settings by operating the scanner, please refer to the **HC/HS/SA-Series**

2D Image Scanner Quick Setup Guide or

download the **HC/HS/SA-Series 2D Image**

Scanner Advanced User Manual from Posiflex Global Website:

<http://www.posiflex.com/en-global/Download/download>.



Basic Optical Specifications

SA-705

Scan method	CMOS area sensor
Number of effective pixel	752 (H) × 480 (V) dot
Image capture speed	60 fps (frame rate) (Fastest speed of image capture)
Adjusting angle	Outward: 25° (approx.) Frontward: 30° (approx.) Backward: 105° (approx.)
View angle	Horizontal: 40.6° (approx.) Vertical: 26.4°(approx.)
Auxiliary light source (LED × 2)	Red LED Peak wave length: 617 nm Directivity angle 2θ1/2: 60° Maximum radiation output: 15000 mcd
Light source for aiming (LED × 1)	Green LED Peak wave length: 528 nm Maximum radiation output: 18700 mcd
Depth of field (mm)	<ul style="list-style-type: none"> ➤ Code 39 75 ~ 140mm (Resolution(0.127)) 60 ~ 210mm (Resolution(0.25)) 100 ~ 240mm (Resolution(0.33)) ➤ Code 128 75 ~ 220mm (Resolution(0.25)) ➤ UPC 50 ~ 230mm (Resolution(0.33)) ➤ PDF417 50 ~ 190mm (Resolution(0.25)) ➤ QR Code 40 ~ 200mm (Resolution(0.381)) ➤ DataMatrix 60 ~ 160 (Resolution(0.31)) (Measured from the front end of the scanner)

Decoding capability	<p>1D barcode support: JAN/UPC/EAN incl. add on, Codabar/NW-7, Code 11, Code 39, Code 93, Code128, GS1-128 (EAN-128), GS1 DataBar (RSS), IATA, Industrial 2of5, Interleaved 2of5, ISBN/ISSN-ISMN, Matrix 2of5, MSI/Plessey, S-Code, Telepen, Tri-Optic, UK/Plessey</p> <p>2D barcode support: Aztec Code, Aztec Runes, Chinese Sensible code, Codablock F, Composite codes, Data Matrix (ECC200/EC0-140), Maxi Code (mode 2~5), MicroPDF41, QR & Micro-QR Code, PDF417</p> <p>Postal code support: Chinese Post, Intelligent Mail Barcode, Korean Postal Authority code</p>
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SA-715

Scan method	CMOS area sensor
Number of effective pixel	640 (H) × 480 (V) dot
Image capture speed	100 fps (frame rate) (Fastest seed of image capture)
Adjusting angle	Outward: 25° (approx.) Frontward: 30° (approx.) Backward: 105° (approx.)
View angle	Diagonal: 46.4° (approx.) Horizontal: 38.0° (approx.) Vertical: 26.4°(approx.)
Auxiliary light source (LED × 1)	Warm White LED
Light source for aiming (LED × 1)	Green LED Peak wave length: 525 nm
Depth of field (mm)	➤ Code 39 45 ~ 120mm (Resolution(0.127)) 60 ~ 240mm (Resolution(0.25)) 80 ~ 260mm (Resolution(0.33)) ➤ Code 128 65 ~ 210mm (Resolution(0.25)) ➤ UPC 45 ~ 300mm (Resolution(0.33)) ➤ PDF417 30 ~ 210mm (Resolution(0.25)) ➤ QR Code 30 ~ 240mm (Resolution(0.381)) ➤ DataMatrix 35 ~ 160 (Resolution(0.31)) (Measured from the front end of the scanner)

Decoding capability	<p>1D barcode support: JAN/UPC/EAN incl. add on, Codabar/NW-7, Code 11, Code 39, Code 93, Code128, GS1-128 (EAN-128), GS1 DataBar (RSS), IATA, Industrial 2of5, Interleaved 2of5, ISBN/ISSN-ISMN, Matrix 2of5, MSI/Plessey, S-Code, Telepen, Tri-Optic, UK/Plessey</p> <p>2D barcode support: Aztec Code, Aztec Runes, Chinese Sensible code, Codablock F, Composite codes, Data Matrix (ECC200/EC0-140), Maxi Code (mode 2~5), MicroPDF41, QR & Micro-QR Code, PDF417</p> <p>Postal code support: Chinese Post, Intelligent Mail Barcode, Korean Postal Authority code</p>
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※ The product information and specifications are subject to change without prior notice. To get the detailed information on SA-705/715, please check this model from Posiflex Global Website (<http://www.posiflex.com/en-global/Download/download>).

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