CD-3600/3601 (U/R)
2D Image Scanner
Quick Setup Guide

POSIFLEX

Package Contents

CD-3600U/3601U
- ✓ 2D image scanner
- ✓ USB cable
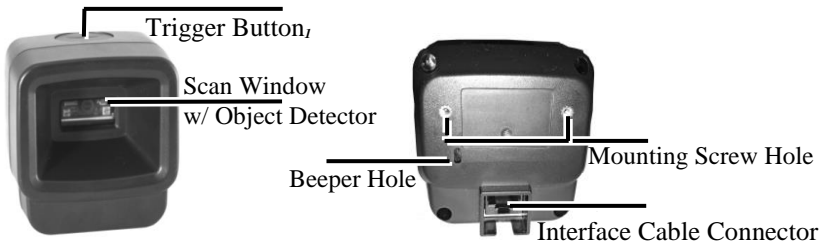- ✓ Quick setup guide

CD-3600R/3601R
- ✓ 2D image scanner
- ✓ RS-232 cable
- ✓ Quick setup guide

CD-3600-SK/CD-3601-SK
- ✓ 2D image scanner
- ✓ USB cable for SK-300
- ✓ Quick setup guide

Parts of the 2D Image Scanner

Trigger Button$_1$

Scan Window
w/ Object Detector

Beeper Hole

Mounting Screw Hole

Interface Cable Connector

Note:
1. *The CD-3600/3601(U/R) 2D image scanner can work in Auto Trigger mode or Manual Trigger mode. The trigger button is provided for the scanner working in the Manual Trigger mode. The default scan mode of the scanner is Auto Trigger mode.*

Firmware Version

Scanner Maintenance

The scanner is designed for long-term trouble-free operation and rarely requires any maintenance. Only an occasional cleaning of the scanner window is necessary in order to remove dirt and fingerprints.

Wipe the scan window with a soft lint-free cloth and a non-abrasive cleaner to avoid the scan window from being scratched and damaged. The scan window can be cleaned while the scanner is running.

The standard interface cable is attached to the scanner with a 10-pin modular connector. When the connector is properly seated, it is secured in the scanner by a flexible retention tab. The cable is designed to be field replaceable. Replacement cables can be obtained from your authorized distributor. To replace the cable, take the following steps.

1. Make sure the power of both the host terminal and the scanner is powered off.
2. Disconnect the old scanner cable from the host terminal.
3. Press down the retention tab, and gently pull out the cable.
4. Insert the new interface cable into the bottom of the scanner until it clicks. Plug the new cable into the host.

Trouble Shooting

This section contains information about how to solve problems that you may encounter when operating the scanner. If a trouble occurs, please refer to the following diagnostic tips as a mean to solve the trouble. However, before referring to the tips, make sure that the scanner is installed well. If the problem remains, contact your dealer.

Problem	Diagnostic Tips
The scanner is on but cannot read any barcode.	The scanner window is dirty. Clean the scanner window as described in the **Scanner Maintenance** section.
	The presented barcode type is not enabled. Use this guide to tell the scanner to accept that type of barcode.
	The host terminal has disabled the scanner. Check the setup of host terminal.
	The barcode type presented is not supported by the scanner.
The scanner does not accept more than two or three barcode labels.	Determine whether the required barcode types are enabled or not.
	A stray barcode is sitting somewhere in the scanner field of view. Remove all barcode labels from the scanner's scan volume and try again.
	The scanner cannot send the data to the POS system. Make sure that the scanner is installed well and your host POS system is ready to receive data.

Problem	Diagnostic Tips
A barcode is read by the scanner but not accepted by the POS system.	The communication settings of the system port and the scanner do not match. Adjust the settings to make them match to each other.
	The scanner is not installed well. Contact your dealer for the proper installation. The software running on the POS system does not support the data format of the barcode label.
When a barcode stays close to the scanner, the barcode cannot be read automatically by the scanner.	Check whether or not you have enabled the Manual Trigger mode. If you have enabled this mode accidentally, please disable the Manual Trigger mode by scanning the "Disable trigger" barcode in the advanced user manual.

Programming Codes

All barcode names in **bold black** represent as default settings.

Please cover the unwanted codes for scanning the specific barcode required for the programming to prevent confusion in code scanning.

Use the user manual downloaded from our global website or taken from the Information DVD for advanced programming.

User Interface Switch Barcodes with Defaults Setting

※ *Before scanning a user interface switch barcode, do **NOT** do other settings, otherwise all the settings you have done will go invalid. After a user interface switch barcode is scanned, if the failure of switch occurs, please re-plug the I/O cable or re-start your host terminal, and scan the barcode again.*

RS232

USB-HID

USB-VCP

Defaults Barcode Setting

※ *The setting barcodes are not used for user interface switch but only for customer defaults setting.*

RS232

USB-HID

USB-VCP

Buzzer Settings

Disable buzzer

Enable buzzer

Buzzer loudness: Loud

Buzzer loudness: Normal

Trigger Mode

➢ Auto Trigger

The Auto Trigger option is a function that automatically detects a scanned target and starts reading. There are three methods for detecting a target code.

1. Green aiming detection

When a target code falls within the aiming range while the green aiming light is emitted, the target is detected. It is recommended to use this mode indoors because the detectability is reduced in an environment of higher illuminance levels than indoors.

5

2. Red (CD-3600) / warm white (CD-3601) illumination detection
   When a target code falls within the range of the field of view while the illumination light is emitted, the target is detected. This mode can be used in a lighted environment.
3. No illumination detection
   A target code is detected without illumination light. The power consumption can be reduced, but the response of detection will also be reduced. Ambient light is used for detection in this mode, so this cannot be used in a dark place while it can be used in a lighted environment.

Green Aiming Detection

Red (CD-3600) / Warm White (CD-3601) Illumination Detection

No Illumination Detection

➢ Manual Trigger (Disable Auto Trigger)

The Manual Trigger (Disable Auto Trigger) option is a function that detects a scanned target and starts reading by manually pressing the trigger button of the scanner.

The Disable Auto Trigger (Manual Trigger) option is available *ONLY* for a scanner that has a trigger button, for example, CD-3200/3201 series and CD-3600/3601 series.

Manual Trigger (Disable Auto Trigger)

Enabling of Readable Codes

Enable UPC

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Enable EAN

</div>

Enable Code 39

<div align="right">

Enable Codabar

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Enable Interleaved 2of5

<div align="right">

Enable Chinese Post Matrix 2of5

</div>

Enable POSTNET

<div align="right">

Enable MSI/Plessey

</div>

Enable UK/Plessey

<div align="right">

Enable Code 128

</div>

Enable GS1-Databar

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Enable GS1-Databar Limited

Enable GS1-Databar Expanded

Enable QR Code

Enable PDF417

<u>Setting Code Specific Options</u>

UPC-A, No leading zero, transmit CD

UPC-A, No leading zero, not transmit CD

UPC-A, Leading zero, transmit CD

UPC-A, Leading zero, not transmit CD

Options for UPC-E

UPC-E, No leading digit, transmit CD

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UPC-E, No leading digit, not transmit CD

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UPC-E, Leading digit, transmit CD

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UPC-E, Leading digit, not transmit CD

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Options for EAN-13 and EAN-8

EAN-13 not transmit CD

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EAN-13 transmit CD

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EAN-8 not transmit CD

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EAN-8 transmit CD

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Disable ISBN translation

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<div align="right">

Enable ISBN translation

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Case Conversion

No case conversion

Convert to upper case

Convert to lower case

Floodlight and Aiming Options

Disable floodlight

Enable floodlight

Alternating floodlight

Baud Rate Settings

9600 baud

19200 baud

38400 baud

57600 baud

Data, Parity and Stop Bits

7 data bits

8 data bits

No parity

Even parity

Odd parity

1 stop bit

2 stop bits

Handshaking Barcode Setting

No handshake

Busy/ready

XON/XOFF

ACK/NAK

Flow Control time out 200ms

Intercharacter Delay for RS232

No delay

20 ms delay

50 ms delay

100 ms delay

Keyboard Wedge/USB Options

With keyboard

[barcode]

Without keyboard

[barcode]

Keyboard Language

US

[barcode]

German

[barcode]

French

[barcode]

Dutch

[barcode]

Japanese

[barcode]

Special Options

Do not use numpad

[barcode]

Use numpad

[barcode]

Auto numlock mode

No CAPSLOCK mode

CAPSLOCK mode

Auto CAPSLOCK mode

Intercharacter Delay for Wedges/USB

No delay

Delay = 1

Delay = 3

Delay = 5

Delay = 7

Delay = 9

Basic Optical Specifications

CD-3600(U/R) Series

Power source	5VDC
Scan method	CMOS area sensor
Number of effective pixel	752 (H) × 480 (V) dot
Image capture speed	60 fps (frame rate) (Fastest seed of image capture)
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)	➢ Code 39 50~90mm (Resolution(0.127)) 40~170mm (Resolution(0.25)) 60~190mm (Resolution(0.33)) ➢ Code 128 35~135mm (Resolution(0.25)) ➢ UPC 35~150mm (Resolution(0.33)) ➢ PDF417 45~140mm (Resolution(0.25)) ➢ QR Code 50~130mm (Resolution(0.381)) ➢ DataMatrix 40~120mm (Resolution(0.31)) (Measured from the front end of the scanner)

CD-3601(U/R) Series

Power source	5VDC
Scan method	CMOS area sensor (black and white)
Number of effective pixel	752 (H) × 480 (V) dot (wide VGA)
Image capture speed	100 fps (frame rate) (Fastest seed of image capture)
View angle	Horizontal: 38.0° (approx.) Vertical: 28.9°(approx.) Diagonal: 46.4°(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 30~110mm (Resolution(0.127)) 40~200mm (Resolution(0.25)) 65~220mm (Resolution(0.33)) ➢ Code 128 50~200mm (Resolution(0.25)) ➢ UPC 40~250mm (Resolution(0.33)) ➢ PDF417 30~180mm (Resolution(0.25)) ➢ QR Code 30~200mm (Resolution(0.381)) ➢ DataMatrix 30~150mm (Resolution(0.31)) (Measured from the front end of the scanner)

※ *The product information and specifications are subject to change without prior notice. To get the detailed information on CD-3600/3601(U/R), please check this model from Posiflex Global Website (http://www.posiflex.com/en-global/Download/download).*