2DScan FX100[™] Barcode Scanner

Quick Start Manual





FCC WARNING STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

FCC COMPLIANCE STATEMENT

This device complies with Part 15 of the FCC Rules. Operation of this device is subject to the following conditions: this device may not cause harmful interference and this device must accept any interference received, including interference that may cause undesired operation.

CANADIAN DOC STATEMENT

This digital apparatus does not exceed the Class B limits for radio noise for digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de las classe B prescrites dans le Réglement sur le brouillage radioélectrique édicté par les ministère des Communications du Canada.

CE STANDARDS

Testing for compliance to CE requirements was performed by an independent laboratory. The unit under test was found compliant to class B limits of part 15 of the FCC rules.

LIMITED WARRANTY

ID TECH warrants to the original purchaser for a period of 36 months from the date of invoice that this product is in good working order and free from defects in material and workmanship under normal use and service. ID TECH's obligation under this warranty is limited to, at its option, replacing, repairing, or giving credit for any product which has, within the warranty period, been returned to the factory of origin, transportation charges and insurance prepaid, and which is, after examination, disclosed to ID TECH's satisfaction to be thus defective. The expense of removal and reinstallation of any item or items of equipment is not included in this warranty. No person, firm, or corporation is authorized to assume for ID TECH any other liabilities in connection with the sales of any product. In no event shall ID TECH be liable

for any special, incidental or consequential damages to purchaser or any third party caused by any defective item of equipment, whether that defect is warranted against or not. Purchaser's sole and exclusive remedy for defective equipment, which does not conform to the requirements of sales, is to have such equipment replaced or repaired by ID TECH. For limited warranty service during the warranty period, please contact ID TECH to obtain a Return Material Authorization (RMA) number & instructions for returning the product.

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Section 1 INTRODUCTION

2DScan FX100 is a 1D & 2D barcode reader. It can be used as a hand-held reader or as hand-free reader in a stand. Ergonomic design provides comfortable and easy use.

Main Unit & Accessories

2DScan FX100



USB Cable

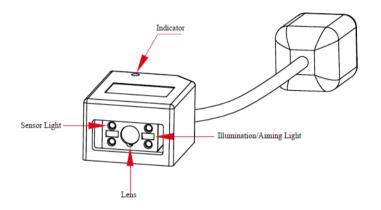


RS232 Cable + Power Adapter



Outline

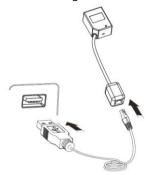
LED 、Scan Window and Certifications



Section 2 INSTALLATION AND OPERATION

Connect 2DScan FX100 to the Host

Connecting with USB Cable



- 1. Insert USB Cable (RJ45 male head) into 2DScan cable slot
- 2. Insert USB Cable (USB male head) into Host's (female) USB connector

(reference picture)

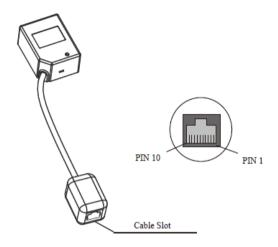
Connecting with RS232 Cable



- Insert RS232 cable (RJ 45 male head) into 2DScan cable slot.
- Insert RS232 cable (RS232 male head) into Host's (female) RS232 connector
- 3. Connect RS232 cable and the power adapter

(reference picture)

• Data Interface



Pin	Function	Type	Name
1	NC		Null
2	NC		Null
3	VCC	P	Power DC5V
4	TXD	0	Serial Port Output, RS232
5	RXD	I	Serial Port Input, RS232
6	NC		Null
7	NC		Null
8	GND	P	Ground
9	D-	IO	USB Data Signal
10	D+	IO	

Section 3 TROUBLESHOOTING

Troubleshooting assistance for common problems:

Scanner does not turn on

- With RS232 interface, maybe the power adapter is not being connected, please connect the power adapter to the cable; the other end goes to the wall outlet.
- With RS232 interface, maybe the communication is not established due to the cable is not being connected right.
 Please connect the cable to the right COM port on the host
- With USB communication, maybe the communication is not established due to the cable is not being connected right.
 Please connect the cable to the right USB port

The Scanner does not output data.

- Scanner may not be connected to the host correctly; please check cable connection on host computer side.
- Scanner may not be configured to the correct interface, please reconfigure the interface type for the scanner to match the cable used

Receive garbled with RS232

 Maybe due to the scanner and the host communication parameters (such as baud rate, data bit, parity, etc.) doesn't match. Please check both side settings to ensure they match with each other

Scanner does not read barcodes

- Maybe the specific barcode is not enabled, please enable it.
- May be the barcode is not valid. Please check the barcode with another scanner to verify it can be read.
- Maybe the scanner firmware doesn't support that specific barcode; please contact the dealer or us.

Section 4 SPECIFICATION

Performance	9		
Image Sensor		CMOS	
Resolution		752 X 480 pixels	
Interface		RS232 / USB 1.1	
Symbologie	2D	PDF417, QR Code(Model 1/2), DataMatrix (ECC200, ECC000, 050, 080,100,140), Aztec Code, Maxicode ,etc	
	1D	Code128, EAN-13, EAN-8, Code39, UPC-A, UPC-E, Codabar, Interleaved 2 of 5, ISBN, Code 93, GS1 Databar, etc	
Precision		≥ 5mil	
Light Source		LED(630 nm ± 10 nm)	
Light Intensity		320 LUX (130 mm)	
Depth of Scan Field		35 mm ~ 210 mm	
Print Contrast Signal		≥30%	
Roll		360° (Omnidirectional)	
Pitch		60°	
Yaw		60°	
Illumination		0 ~ 100,000 LUX	
Mechanical/	Electrical		
Power Consumption		1.75W	
Voltage		DC 5 V	
	Max	420 mA	
Current	Oper.	260 mA	
	Idle	1 mA	
Weight		70g	
Environmen	t		
Operate Temperature		-5°C - +45°C	
Storage Temperature		-40°C - +60°C	
Humidity		5% - 95% (non-condensing)	
Certificates			
FCC Part15	Class B, C	E EMC Class B	

Section 5 READING MODE SETTINGS

- Hand-held Mode: Press and hold the trigger to read. Complete one read or release the trigger to terminate reading status.
- Auto Mode: When the ambient luminance changes in front of the engine, it
 automatically initiate reading. After completion of reading, the engine goes
 to idle. Both luminance change and the Trigger can initiate reading when
 idle.
- Continuous Mode: Press the trigger to start reading. The engine will keep reading. To stop, Press trigger again.



Continuous Mode

Code Programming On

Code Programming O

Note: Programming sequences:

- 1. Read "Code Programming On"
- 2. Read programming code, such as "Auto Mode"
- 3. Read "Code Programming Off".

Factory default setting:

- Read the "Code Programming On" barcode to enter the setting mode.
- Scan the "Default" barcode. 2.
- 3. Exit the setting mode by scanning the "Code Programming Off"





Default



Check firmware version:

- 1. Read the "Code Programming On" barcode to enter the setting mode.
- Scan the "Check Version" barcode. 2.
- Exit the setting mode by scanning the "Code Programming Off" 3.



Section 6 TESTING CODES

Code128



059183979215

UPC-E



Interleaved 2 of 5



059183979215

PDF417



DataMatrix



UCC/EAN-128



059183979215

UPC-A



Code39



OR Code



Full User's Manual is available for download on www.idtechproducts.com

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