2DScan FX200™
Barcode Scanner

Quick Start Manual

IDTECH®

Value through Innovation

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

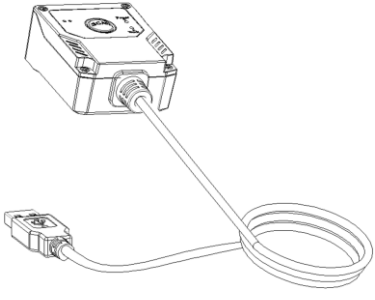
for any special, incidental or consequential damages to purchaser or any third party caused by any defective item of equipment, whether that defect is warranted against or not. Purchaser's sole and exclusive remedy for defective equipment, which does not conform to the requirements of sales, is to have 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.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. THERE ARE NO OTHER WARRANTIES OR GUARANTEES, EXPRESS OR IMPLIED, OTHER THAN THOSE HEREIN STATED. THIS PRODUCT IS SOLD AS IS. IN NO EVENT SHALL ID TECH BE LIABLE FOR CLAIMS BASED UPON BREACH OF EXPRESS OR IMPLIED WARRANTY OF NEGLIGENCE OF ANY OTHER DAMAGES WHETHER DIRECT, IMMEDIATE, FORESEEABLE, CONSEQUENTIAL OR SPECIAL OR FOR ANY EXPENSE INCURRED BY REASON OF THE USE OR MISUSE, SALE OR FABRICATIONS OF PRODUCTS WHICH DO NOT CONFORM TO THE TERMS AND CONDITIONS OF THE CONTRACT.

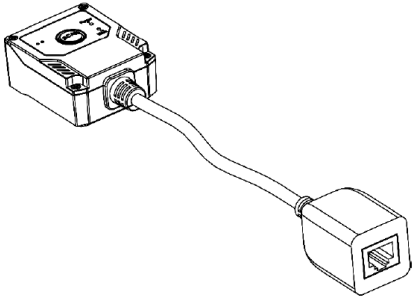
Section 1
INTRODUCTION

2DScan FX200 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.

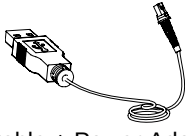
- **Main Unit**
  - **2DScan FX200 USB**



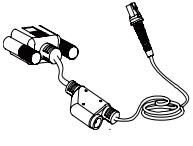
- **2DScan FX200 RS-232**

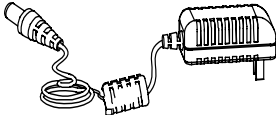


  - USB Cable



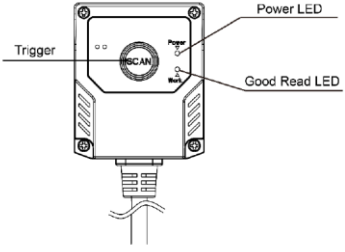
  - RS232 Cable + Power Adapter

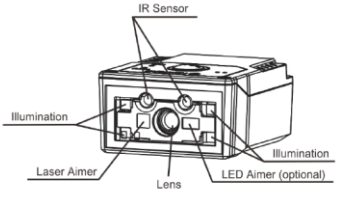




- **Outline**

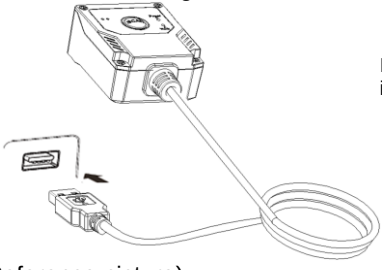
  LED 、Scan Window and Certifications





Section 2
INSTALLATION AND OPERATION

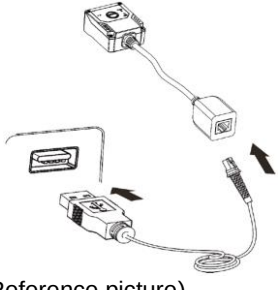
- **Connect 2DScan FX200 USB to the Host**
  - Connecting with USB Cable



Insert USB Cable (USB male head) into Host's (female) USB connector

(Reference picture)

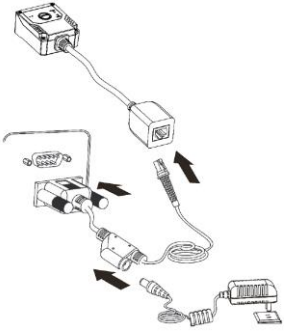
- **Connect 2DScan FX200 RS to the Host**
  - Connecting with USB Cable



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)

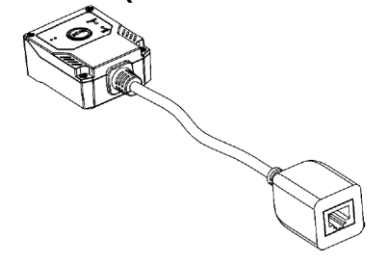
- Connecting with RS232 Cable

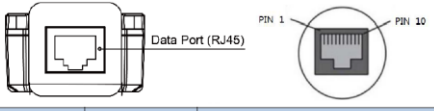


(Reference picture)

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

- **Data Interface (for RS-232 model only)**





PIN	Signal	Type	Function
1	AGND	P	Ground
2	nTrig	I	Trigger signal input: active low
3	VCC	P	Power+ (DC5V)
4	TXD	O	RS-232 output
5	RXD	I	RS-232 input
6	CTS	I/O	Clear to send (RS-232)
7	RTS	I/O	Request to send (RS-232)
8	GND	P	Ground
9	D-	I/O	USB signal
10	D+	I/O	

Section 3
TROUBLESHOOTING

Troubleshooting assistance for common problems:

- **Scanner does not turn on**
  - 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
- **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		
Image Sensor		CMOS
Resolution		1280 X 800 pixels
Interface		USB
Symbologies	2D	PDF417, QR Code, DataMatrix, Aztec Code, CSC, Maxicode, Micro QR, Micro PDF417, GM, Code One, etc.
	1D	EAN-13, EAN-8, UPC-A, UPC-E, Code 128, Code 39, Codabar, UCC/EAN 128, RSS, ITF, ITF-14, ITF6, Standard 25, Matrix 25, COOP 25, Industrial 25, Plessey, MSI Plessey, Code 11, Code 93, Code 49, Code 16K, etc.
Precision		≥ 3mil
Depth of Scan Field		40 mm ~ 360 mm
Print Contrast Signal		≥25%
Roll		360° (Omnidirectional)
Pitch		±55°
Skew		±55°
Illumination		White LED
Mechanical/ Electrical		
Power Consumption		1.622W (typical)
Voltage		DC 5V±5%
Current	Max	322.7mA
	Oper.	276.8mA
	Idle	83.3mA
Weight		75g
Sealing		IP54
Environment		
Operate Temperature		-20°C to +60°C
Storage Temperature		-40°C to +70°C
Humidity		5% to 95% (non-condensing)
Certificates		
FCC Part15 Class B, CE EMC Class B, RoHS, IEC60825, IEC62471, KC		

Section 5
SCAN MODE SETTINGS

- **Level Mode:** A trigger pull activates a decode session. The decode session continues until a barcode is decoded or you release the trigger.

- **Sense Mode:** The scanner activates a decode session every time it detects a barcode presented to it. The decode session continues until a barcode is decoded or the decode session timeout expires. **Timeout between Decodes (Same Barcode)** can avoid undesired rereading of same barcode in a given period of time. **Image Stabilization Timeout** gives the scanner time to adapt to ambient environment after it decodes a barcode and "looks" for another. **Image Change Trigger Sensitivity** can change the Sense Mode's sensibility to changes in images captured, while **IR Proximity Trigger Sensitivity** can adjust the Sense Mode's sensibility in detecting barcodes presented to the scanner.

- **Continuous Mode**: The scanner automatically starts one decode session after another. To suspend/resume barcode reading, simply press the trigger. **Timeout between Decodes (Same Barcode)** can avoid undesired rereading of same barcode in a given period of time.

- **Pulse Mode:** When the trigger is pulled and released, scanning is activated until a barcode is decoded or the decode session timeout expires (The decode session timeout begins when the trigger is released).

Enter Setup

Level Mode

**** Sense Mode**

Continuous Mode

Pulse Mode

**** Exit Setup**

Note: Programming sequences:

1. Read “Enter Setup”
2. Read programming code, such as “Sense Mode”
3. Read “Exit Setup”.

- **Factory default setting :**
  1. Read the “Enter Setup” barcode to enter the setting mode.
  2. Scan the “Default” barcode.
  3. Exit the setting mode by scanning the “Exit Setup”.

Enter Setup

Restore All Factory Defaults

**** Exit Setup**

- **Check firmware version :**
  1. Read the “Enter Setup” barcode to enter the setting mode.
  2. Scan the “Check Version” barcode.
  3. Exit the setting mode by scanning the “Exit Setup”.

Enter Setup

Query Firmware Version

**** Exit Setup**

Section 6
TESTING CODES

Code128

UCC/EAN-128

UPC-E

UPC-A

Interleaved 2 of 5

Code39

PDF417

QR Code

DataMatrix

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

ID TECH
10721 Walker Street
Cypress, CA 90630
(714) 761-6368
www.idtechproducts.com

80108507-001 rev.B