

Data Sheet

Model: FFX-50D-IR

Name: FIXED 2D Barcode Scanner



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1. Preface

Fangtec FFX-50D-IR Fixed area imager engineered to decode most of 1D, PDF and 2D barcodes. It's excellent for reading smart phone QR codes and barcodes also perfect performance for reading poorly printed barcodes on paper.

2. Electrical characteristics

- Input Voltage: DC 5V±5%
- Current: 485 mA (max)
- Stand-by: 90 mA

3. Optical

Light source: IR LED x 8 Image: 640 pixels (H) x 480 pixels (V) , Global Shutter ScanRate: 120FPS Scanning angle: Roll: 360°, Pitch: ±60°, Skew: ±60° Field of View: Horizontal 36°, Vertical 28° Preview H/V : 640 pixels(H) x 480 pixels(V)

4. Indicator

Indicator LEDs

The indicator LEDs light or flash in blue, peach or red as described below.

Red

- When the scanner is turning on.

Blue

- The scanner has read a code successfully.

5. Buzzer

The volume can be adjusted to accommodate application needs.





6. Environment

- 6.1 Temperature
- Operating: -20 °C~ 55°C
- Storage: -40 °C~ 70°C
- 6.2 Humidity
- Operating: 10 95% RH (non-condensing/non-freezing)
- Storage: 10% 85% RH (non-condensing)
- 6.3 ESD (electro-static discharge)

 \pm 8KV(air) \pm 4KV (contact)

7. Physical

- 7.1 Housing
- Material: ABS plastic
- Color: Black
- 7.2 Weight
- 84 g (including USB cable weight)
- 7.3 Outline draw











Packing

Box: per unit FFX-50D-IR scanner

- Color: light brown
- Material: corrugated paper
- Dimension: 220 (W) x 84 (D) x 57 (H) mm

Bag: To protect FFX-50D-IR from scratch and also absorb shock during transportation.

- Color: White
- Material: plastic

Carton: 40pcs of FFX-50D-IR are packed into each one carton

- Color: light brown
- Material: corrugated paper
- Dimension: 550 (W) x 440 (D) x 280 (H)

8. Drop testing

150cm drop on concrete surface.



9. Interface

USB Cable

P/N: 317-U000GD0



Remark:

- 1. Wire: NON-UL 26AWG 4C(19/0.1) + S(61/0.1) PP core wire lay length 60mm & core wire copper wire lay length 13mm outer cover OD 4.5mm black
- 2. Connector: USB A TYPE MALE
- 3. Housing: MOLEX 1.25MM 8P
- 4. Terminal: MOLEX 1.25MM.
- 5. Outer material: PVC 50P black <#BK>
- 6. Outer material: PVC 80P black <#BK>
- 7. Tie: L=100mm PVC Black
- 8. PE bag: 60*150mm, two sides open

	PIN (JUT	
P1	Color	P2	Signal
1	Red	1	VCC
2	Blue	4	D-
3	Green	5	D+
4	Brown	8	GND
	Winding	7	

10. Cable banding Test:

313,000 times minimum (30 times /min @ 300g/45°)