F-70

CCD scanner

The F-70 is a close-range CCD stationary scanner that is available with either a front-view (I) or side-view (L) case. It reads and decodes 1D barcodes at a blazing 700 scans/second.

Highlights

- Best cost-to-performance ratio in fixed mount CCD scanners

- Extremely fast at 700 scans per second

- Packaged in a compact, durable metal housing

- Complete unit with integrated decoder

- Easily adapts into a wide variety of OEM and fixed mount scanning applications

- Two models available:
  I - the scan window is in the front
  L - the scan window on the side

- Compact size and weight:
  I - 55 x 47 x 20 mm (WxHxD)
  L - 52 x 55 x 20 mm (WxHxD)
  110 grams

- Communication interface: RS232

- Two year warranty

F-70
Product Specifications

Operating indicators
Visual: 1 LED (red/green/orange)
Non-visual: Buzzer

Communication
RS232: DB25 F connector with external power supply

Power
Voltage requirement: 5V ±5%
Current consumption: 220 mA (typical use)

Barcode scanner optics
Light source: 660 nm red LED
Scan method: CCD linear sensor
Scan rate: 700 scans / second
Trigger mode: multiple read, serial software trigger
Reading pitch angle: ± 6°
Reading skew angle: -30 to -10°, 10 to +30°
Reading tilt angle: ± 20°
Curvature: R>30 mm (EAN8), R>20 mm (EAN13)
Focal plane: I-type: 35.4 mm / 1.39 in,
L-type: 31.4 mm / 1.95 in
Min. resolution at pcs 0.9: 0.2 mm / 0.15 mm at 60 mm
reading length
Min. pcs value: 0.45
Depth of field at code 39:
I-type: Ca. 30 - 42 mm / 1.18 - 165 in
(Ca. -5 to +5 mm from focal plane)
I-type: Ca. 30 - 41 mm / 1.18 - 1.61 in
(Ca. -5 to +6 mm from focal plane)

Supported symbologies
Barcode (1D):JAN/UPC/EAN incl. add-on, Codabar/
NW-7, Code 39, Code 93, Code 128, GS1-128 (EAN-
128), IATA, Industrial 2of5, Interleaved 2of5, MSI/
Plessey

Durability
Temperature in operation: 0 to 40 °C / 32 to 104 °F
Temperature in storage: -10 to 60 °C / 14 to 140 °F
Humidity in operation: 20 - 85% (non-condensing)
Humidity in storage: 20 - 90% (non-condensing)
Ambient light immunity: Incandescent 5,000 lx max,
Fluorescent 5,000 lx max
Antistatic electricity: 15 kV (non-destructive)
Drop test: 0.6 m / 2 ft drop onto concrete surface
Vibration test: 10 - 100 Hz with 2G for 3 hours

Physical
Dimensions (WxHxD):
I-type: 55 x 47 x 20 mm / 2.17 x 1.85 x 0.79 in
L-type: 52 x 55 x 20 mm / 2.05 x 1.85 x 0.79 in
Weight: I-type: Ca. 100 g / 3.5 oz (excl. cable),
L-type: Ca. 110 g / 3.9 oz (excl. cable)
Case: Sheet metal, Black

Regulatory & Safety
CE, FCC, RoHS, EN60950-1, IEC60950-01, IEC60825-1,
EN55022, EN55024

Items
Sold separately: Power supply 230V, 50Hz, 5V/500
mA (for RS232)

Models
Scan versions: I-type, L-type

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