

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 \pm 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: \pm 6°

Reading skew angle: -30 to -10°, 10 to +30°

Reading tilt angle: \pm 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 - 1.65 in
(Ca. -5 to +5 mm from focal plane)

L-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