

Mini High Speed CCD Fixed Position Scanner NFT-7175 Series

Features

- ◆ *700 scans per second*
- ◆ *32-Bit microprocessor operation*
- ◆ *High performance in an ultra-small package*
- ◆ *Integrates easily into new equipment*
- ◆ *100% solid state design provides performance & reliability*
- ◆ *Fully programmable*
- ◆ *Custom hardware & software options*
- ◆ *RS232 interface*



The miniature NFT-7175 Series fixed position CCD Scanners are among the smallest, highest speed bar code scanners available.

These state-of-the-art scanners operate at 700 scans per second and use 32-bit microprocessor technology. The small size allows the scanner to fit into tight spaces. Front and side view units are available.

Operating on 5 VDC power, these scanners automatically recognize and decode all of the most popular bar code symbologies and transmit the data using RS232C communications to the host device. 32-bit microprocessor operation allows the user to easily program parameters in order to match the scanner to the specific application.

A rugged steel enclosure protects the optics and electronics from dirt and

other environmental hazards, as well as enhancing ESD and EMC protection.

These 100% solid state scanners use proven CCD technology, assuring continuing performance and high reliability. A linear CCD array allows the scanner to read poor quality or dimly lit bar codes.

The standard configuration comes with a 6-foot cable, terminated in a 25 pin female D-shell connector. Custom cable lengths, connector types and pinouts are available.

Plug-in RF adapters that are powered from the RS232 signal convert the scanner and host into a versatile long distance (up to 500 feet), non-wired unit. See our web site for details.



TECHNICAL DATA

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

NFT-7175 REV. 1/99

Optical

Light Source	Red LED, $\lambda=660$ nm	
Image Sensor	Linear CCD	
Scan Speed	700 scans/sec.	
Decode Speed	700 decodes/sec.	
Label Speed	Ladder, 1080 ft/min / Fence 198 ft/min (10.4 mil, UPC-A, PCS=0.9)	
Resolution	0.13 mm at PCS 0.9	
Min PCS Value	0.45	
Focal Point	<u>Front View</u>	<u>Side View</u>
	35.4 mm (1.4 in)	30.5 mm (1.2 in)

Electrical

Operating Voltage	5 VDC \pm 5%
Current	
Operating	220 mA max /158 mA typical
Stand by	150 mA
Surge	3 A max.
Interface	RS232C

Environmental

Temperature	
Operating	0 to +40° C (+32 to +104° F)
Storage	-10 to +60° C (+14 to +140° F)
Humidity (non-condensing)	
Operating	20 to 80%
Storage	20 to 90%
Regulatory	CE Certified, ISO 9002 certified mfg. facility

Physical

Case Material	Steel
Dimensions (L x W x H)	
Front View	47 x 55 x 20 mm (1.9 x 2.2 x 0.8 in)
Side View	52 x 55 x 20 mm (1.9 x 2.2 x 0.8 in)
Weight	100 g (3.5 oz)

Ordering Information

Part Number	Scans/Sec	View	I/F
LHA7126RR1S-032	700	Side	RS232
LHA7127RR1S-032	700	Front	RS232
LLHM7127RR1S-032	700	No Case	RS232

Alternate connectors and pinouts are available to match your application. Ask for details.

Accessories

Part Number	Description
25-NFT71-01	Users Manual for NFT-7175
32-00532-02	120VAC to 5 VDC Power Supply
41-PAT07-01	Patch Cable DB25M to DB25F with 5V Connector
41-PAT06-01	Patch Cable DB25M to DB9F with 5V Connector
36-RF-01	RF Adapter

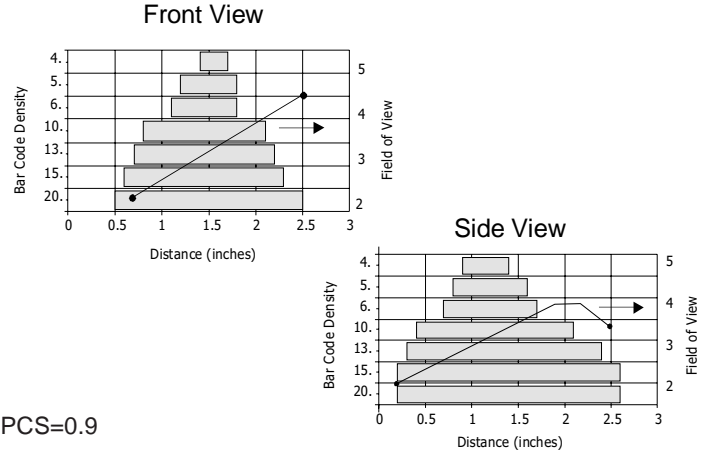
Warranty

Opticon fixed position CCD scanners are warranted for a period of five (5) years, including parts & workmanship. Visit our web site for details.

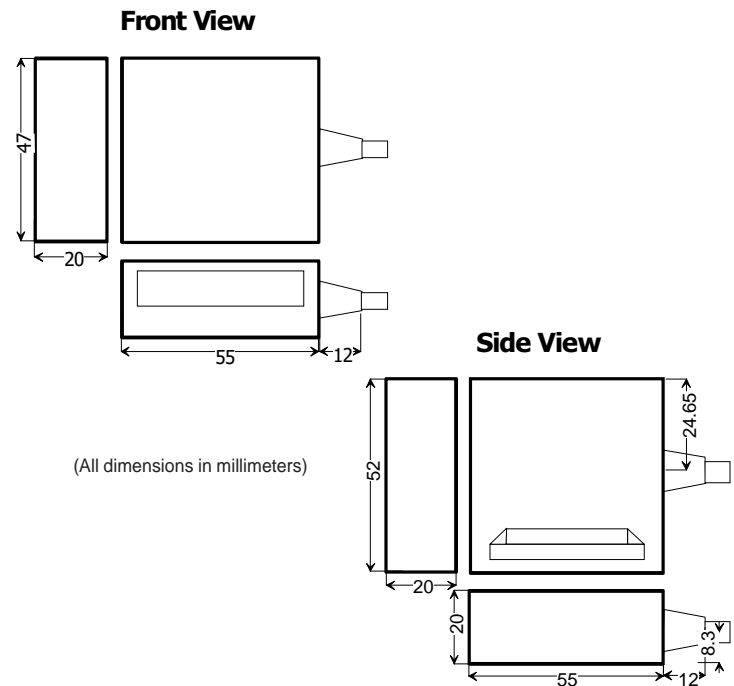
Technical Support / Sales

Opticon's experienced, well trained technical staff are available to answer questions and assist you in every way possible in support of our products. Call today to find out how the scanner can be adapted to your design: (800) 636-0090, or visit our web site at www.opticonUSA.com

Depth of Field / Field-of-View



General Mechanical Specifications



Symbologies

Code 39
Code 93
Code 128
EAN-8 inc. +2, +5
EAN-13 inc. +2, +5
IATA
Industrial 2 of 5
Interleaved 2 of 5
MSI
NW-7
UPC-A inc. +2, +5
UPC-E inc. +2, +5
JAN

Pinouts (RS232C)

Pin	Function
DB25 Female Connector	
1	Frame Ground
2	RXD
3	TXD
4	CTS
5	RTS
7	Signal Ground
16	Trigger
25	+5V



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