

FIXED-POSITION IMAGER

ScanImage™ 1471

Benefits:

- Decodes and autodiscriminates popular 2D symbologies and linear bar codes.
- Omni-directional orientation makes imaging bar codes easy.
- Laser aiming and framing maximizes scanning performance – both fixed position and hand-held.
- Easily scans down to 6.6 mil matrix codes to meet small space requirements.
- Connects to Intermec stationary terminals and PCs in RS-232 port.
- Rugged industrial housing to meet the most demanding environments.



The ScanImage 1471 is a fixed-position imager ideally suited for applications requiring two-dimensional symbologies and/or linear codes where symbol orientation would be cumbersome with a linear CCD or laser scanner. Suggested applications include scanning personal ID cards, document tracking, parcel identification, electronic component tracking and other non-conveyor scanning situations where items can easily be located near the imager. In addition to popular linear bar codes, the ScanImage 1471 decodes both stacked and 2D matrix symbols including PDF417, microPDF417, Data Matrix, Maxicode, QR code, Aztec Code, and several postal code versions.

The ScanImage 1471 is easy to use, thanks to its laser aiming and framing pattern, users can easily gauge the right depth of field and symbol location for a given symbol feature size and density. In a fixed position set up, the ScanImage 1471 is easily autotriggered to read

symbologies in or out of its optional scan stand. In a hand-held mode, the 1471 uses a single position trigger to illuminate the image being scanned and the laser activates until a successful scan is achieved or the operator releases the trigger.

For applications requiring mixed symbologies on a single label, the 1471 can be configured to read multiple symbols within its field of view – vs. the time required to scan one symbol after another using laser or linear CCD scanners.

Imager configuration and set up is made easy via Quickview software – included with each device. With Quickview, users can upload software updates as well as generate configuration bar codes to clone multiple units. “Image capture” is also available via Quickview should the application require a photo depicting a physical object, person, or signature.

ScanImage™ 1471

General

The ScanImage 1471 is a fixed-position imager which offers omni-directional decoding of 2 dimensional symbologies and linear bar codes.

Physical Characteristics

Length: 12.3 cm (4.85")

Height: 4.7 cm (1.85")

Width: 6.35 cm (2.5")

Weight: .2 kg (7 oz.)

Connector: 10 pin modular to 9 pin female (RS232) with power pigtail

Current draw:

Low power mode: 330 mA average @ 5 VDC

Medium power mode: 430 mA average @ 5 VDC

High power mode: 620 mA average @ 5 VDC

Standby Current: <500uA @ 5V

Performance

Illumination: 24 660nm LEDs with reflector, 670nm laser light (laser aiming subsystem)

Receive: Progressive Charge Coupled Device (CCD) array

Rotational Sensitivity: 360 around optical axis

Working Range

Standard Optics (1471A00):

7.5 mil linear: 7.6 cm (3") to 12.7 cm (5")
10 mil linear: 5.1 cm (2") to 17.7 cm (7")
15 mil linear: 5.1 cm (2") to 19.1 cm (7.5")
15 mil Data Matrix: 6.4 cm (2.5") to 10.2 cm (4")
15 mil Aztec or QR code: 8.9 cm (3.5") to 12.7 cm (5")
35 mil Maxicode: 5.1 cm (2") to 22.9 cm (9")

High Density Optics (1471A05):

4 mil linear: 4.4 cm (1.75") to 7.0 cm (2.75")
10 mil linear: 2.5 cm (1") to 7.6 cm (3")
6.6 mil Data Matrix: 4.3 cm (1.7") to 6.1 cm (2.4")
10 mil Data Matrix: 3.7 cm (1.45") to 6.2 cm (2.45")
6.6 mil QR code: 4.3 cm (1.7") to 6.2 cm (2.45")

Field of View

Standard Optics (1471A00):

5.1 cm (2") range: 3.8 cm (1.5") x 3 cm (1.2")
12 cm (4.75") range: 7.9 cm (3.1") x 5.8 cm (2.3")
19 cm (7.5") range: 11.9 cm (4.7") x 8.9 cm (3.5")
24.1 cm (9.5") range: 15 cm (5.9") x 11.9 cm (4.7")

High Density Optics (1471A05):

2.5 cm (1") range: 1.5 cm (.6") x 2 cm (.8")
5.1 cm (2") range: 2.5 cm (1") x 3.4 cm (1.3")
7.6 cm (3") range: 3.5 cm (1.4") x 4.8 cm (1.9")

Focal Point

Standard Density Unit (1471A00):

12.7 cm (5") from the nose

High Density Unit (1471A05): 5.08 cm (2") from the nose

Resolution

Standard Density Unit (1471A00):

From 7.5 mil linear and stacked codes and from 15 mil matrix codes

High Density Unit (1471A05): From 4 mil linear and stacked codes and from 10 mil matrix codes

Environment

Operating Temperature: 0° to 50° C (32° to 122° F)

Storage Temperature: -40° to 70° C (-40° to 158° F)



Relative Humidity: Non-condensing 0 to 95%

Mechanical Shock: Functional after multiple 1.5M (5") drops to concrete

ESD Protection: Functional after 15KV discharge

Ambient Illumination: Total darkness to 100,000 lux

Interface: RS-232 TTL

Symbologies

Linear: Code 39, Interleaved 2 of 5, Code 128, ISBT-128, Code 93, Codabar, UPC/EAN

Stacked: PDF417, microPDF417, Code 49

Matrix: Data Matrix, MaxiCode, QR Code, Aztec Code

Postal Codes: PostNet (USPS) BPO 4 State (British Post Office), Canadian 4 State, Kix (Dutch Postal), Japanese Postal Service

Product Configurations

Model 1471A00: Standard Optics, RS-232 TTL interface

Model 1471A05: High Density Optics, RS-232 TTL interface

Part No. 4220582101: RS-232 interface cable with power pigtail

Part No. 065236: Universal Power Supply, US Cord

Part No. 069443: 1471 Scanner Stand

Part No. 067054: 1470/1471 Users Manual

Regulatory Approvals

Complies with all FCC Part 15, Class A, CISPR 22 Class B, ICES-003 Class B, UL, cUL & TUV-GS agency approved, CE & C-Tick, EN 60825-1 Class 2



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North America

Headquarters • 6001 36th Avenue West, Everett, WA 98203-9280, tel: 800-347-2636 (toll free in N. Am.), fax: 661-775-4440
Norand Mobile Systems Division • 550 2nd Street S.E., Cedar Rapids IA 52401, tel: 800-452-2757 (toll free in N. Am.), fax: 319-369-3453
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Hong Kong • 26-12 Shell Tower, Times Square, 1 Matheson Street, Causeway Bay, tel 852-2574-9777, fax 852-2574-9725
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