



L: 135 mm; W: 81 mm; H: 163 mm

## Features & Benefits:

- Superior Read Range  
Out to 208 cm
- Durable With No Moving  
Parts and 3-Year  
Warranty
- Ergonomic and Easy to  
Use, Even with Gloved  
Hands
- Rugged Packaging,  
Impact-Absorbing,  
Shock-Resistant  
Housing and Sealed for  
Most Demanding  
Environments
- Fast and Aggressive  
Decoding, Even on  
Poorly Printed or  
Damaged Barcodes

## Rugged, Linear Imager

The 3800I is an industrial image reader with the technology to read barcodes at ranges up to 208 cm (82 inches). In real world applications, this extended read range means less climbing and reaching and more operator productivity.

The 3800I picks up barcode images and processes its content 270 times per second. In a fraction of a second, the digital image processor quickly and easily determines the data content and sends it to the host computer. This proprietary technology quickly and securely identifies poor quality symbols, while delivering snappy performance.

The 3800I has a 3 year warranty against defects. Shock absorbing rubber overmold on the case and a sealed optics module ensure this device will survive dozens of 2 meter (6.5 foot) drops to concrete.

Industrial applications often take you into environments with extreme temperature variations, dirt, dust, and rain. The 3800I is environmentally sealed to an IP54 rating, preventing dust and water from entering the unit and degrading performance. It can be used outdoors during freezing temperature conditions, withstanding ongoing applications up to -30° C.

For reading in applications that exhibit high ambient light, the 3800I can be ordered with an aiming beam, which offers true point and shoot performance without moving laser optics.

## Applications:

- Industrial



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Scan Performance	
Scan Pattern	Linear Image (CCD: 3648 pixels)
Scan Rate	270 scans per second
Motion Tolerance	5 cm/s (2 in/s) with 13 mil UPC at optimal focus
Scan Angle	Horizontal: 47°
Print Contrast	20% minimum reflectance difference
Pitch/Skew	65°, 65°
Decode Capabilities	Reads standard 1D and GS1 Databar symbologies
Warranty	3 year factory warranty
Mechanical/Electrical	
Dimensions (LxWxH)	135 mm x 81 mm x 163 mm (5.3" x 3.2" x 6.4")
Weight	213 grams (7.5 oz.)
Input Voltage	4.5V – 14VDC
Operating Power	1.2 W (235 mA @ 5V); 1.7 W (142 mA @ 12V)
Standby Power	340 mW (68 mA @ 5V); 590 mW (49 mA @ 12V)
Host System Interface	USB, TTL Level RS232, True RS232, Keyboard Wedge, IBM 46xx (RS485), Light Pen (Wand) Emulation
Environmental	
Operating Temperature	-30° to 50°C (-22° F to 122° F)
Storage Temperature	-40°C to 60°C (-40°F to 140°F)
Humidity	0 to 95% relative humidity, noncondensing
Drop	Designed to withstand 2 m (6.5') drops
Environmental Sealing	IP54
Light Levels	70,000 lux (direct sunlight)
Typical Performance (Resolution: 7.5 mil. May be impacted by barcode quality and environmental conditions)	
Narrow Width	Depth of Field
7.5 mil	165 mm – 381 mm (6.5" – 15")
100% UPC	64 mm – 711 mm (2.5" – 28")
15 mil	64 mm – 787 mm (2.5" – 31")
20 mil	38 mm – 1067 mm (1.5" – 42")
55 mil	102 mm – 2083 mm (4" – 82")

#### ABOUT JADAK:

JADAK, a business unit of Novanta, is a market leader in machine vision, RFID, barcode, printing, and color and light measurement products and services for original equipment manufacturers. The company designs and manufactures embedded detection and analysis solutions that help customers solve unique inspection, tracking, scanning and documenting. The company is ISO 9001 and ISO 13485 registered. Novanta is a trusted technology partner to OEMs in the medical and advanced industrial technology markets, with deep proprietary expertise in photonics, vision and precision motion technologies.

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