

4200

General Purpose 2D Imager



Features

- Ergonomic Design - Linear imager performance, with the versatility of area imaging all in a small, sleek housing.
- Omni-directional reading of 1D, PDF417, MicroPDF417, Postal, Matrix, and EAN•UCC Composite codes, and OCR fonts for the easiest ever data collection.
- Image Capture - Class-leading image quality and image transfer speed provide crisp images in less than one second.
- Connectivity – The most popular interfaces in one model. Uses the standard Hand Held Products cable set.
- Intelligent Aiming Options - Distinctive green aimer provides superior illumination contrast and makes image capture applications fast and intuitive.

Overview

The 4200 area imager from Hand Held Products combines the versatility of area imaging with the speed and cost of linear scanning for retail and commercial applications. Powered by Adaptus™ Imaging Technology, the 4200 is full featured, fast, and cost effective.

Current and future manufacturing, retail, and commercial applications will involve much more than linear bar codes. EAN•UCC composite codes are beginning to appear in food stores, PDF codes are used for age verification in restricted item sales, and postal bar codes are used to sort mail. The omni-directional reading capability of the 4200 allows fast and easy reading of all these codes. Simply point and shoot. There's no need to align a scan line, or wait for a raster beam to open up.

Whether capturing a signature as proof of delivery, taking a picture for identification, or electronic data storage, image capture is an important part of current and future solutions. The Adaptus Imaging Technology powered 4200 is equipped with Hand Held Products fifth generation imaging for best-in-class image quality and image transfer speed, all at very economical prices. Image capture has become a mainstream application requirement. Trust Hand Held Products to provide the industry's best imaging.

With no moving parts, the 4200 is as durable as it is versatile. Hand Held Products has a reputation for products that are tough as nails. The 4200 is no exception, and will provide years of service at a low cost.

4200 Specifications

Performance

Aiming (Green LED): 526nm ±30nm
Image: 752x480. Binary, TIFF, or JPEG output.

Working Range (from window):

SR		8.3 mil Linear (.021cm)	13 mil UPC (.033cm)	6.6 mil PDF417 (.017cm)	10 mil PDF417 (.025cm)	15 mil Data Matrix (.038cm)	15 mil QR Code (.038cm)
SR	Near	3.5 in. (8.9cm)	2.1 in. (5.3cm)	4.5 in. (11.4cm)	3.1 in. (7.9cm)	2.3 in. (5.8cm)	3.1 in. (7.9cm)
	Far	7.6 in. (19.3cm)	13.2 in. (33.5cm)	6.2 in. (15.7cm)	9.0 in. (22.9cm)	10.2 in. (25.9cm)	8.8 in. (22.4cm)
SF		7.5 mil Linear (.019cm)	13 mil UPC (.033cm)	6.6 mil PDF417 (.017cm)	10 mil PDF417 (.025cm)	8.3 mil Data Matrix (.021cm)	8.3 mil QR Code (.021cm)
SF	Near	2.5 in. (6.4cm)	2.0 in. (5.1cm)	2.8 in. (7.1cm)	2.2 in. (5.6cm)	3.4 in. (8.6cm)	3.3 in. (8.4 cm)
	Far	6.5 in. (16.5cm)	8.9 in. (22.6cm)	6.0 in. (15.2cm)	7.6 in. (19.3cm)	5.7 in. (14.5cm)	5.4 in. (13.7cm)
HD		5 mil Linear (.013cm)	13 mil UPC (.033cm)	6.6 mil PDF417 (.017cm)	10 mil PDF417 (.025cm)	6.7 mil Data Matrix (.017cm)	6.7 mil QR Code (.017cm)
HD	Near	2.4 in. (6.1cm)	2.1 in. (5.3cm)	2.1 in. (5.3cm)	1.9 in. (4.8cm)	2.9 in. (7.4cm)	2.8 in. (7.1cm)
	Far	4.3 in. (10.9cm)	6.7 in. (17.0cm)	5.0 in. (12.7cm)	5.8 in. (14.7cm)	4.0 in. (10.2cm)	3.9 in. (9.9cm)

Skew Angle: ±40°
Pitch Angle: ±40°
Horizontal Velocity: 4 in. (10 cm) per second

Mechanical/Electrical

Length: 5.5 in. (14.0 cm)
Height: 5.3 in. (13.5 cm)
Width: 2.6 in. (6.6 cm)
Weight: 4.5 oz. (127.6 g)
Housing: UL 94V0 grade
Power Requirements: 5Vdc ±10% at scanner
Current Draw (Typical)

Input	Scanning	Idle
5 V	382 mA	53 mA

Power Supply

Noise Rejection: Maximum 100mV peak to peak, 10 to 100 kHz

Environmental

Operating Temperature: +32°F to +122°F (0°C to +50°C)
Storage Temperature: -40°F to 140°F (-40°C to +60°C)
Humidity: 0 to 95%, non-condensing
Mechanical Shock: Operational after 25 drops from 4.9 ft. (1.5 m) to concrete
Ambient Light: Up to 100,000 lux (full sunlight)
ESD Protection: Functional after 100 8kV discharges
Vibration: Withstands 1G peak from 8 to 80 Hz
Agency: FCC Class B, CE EMC Class B, CE Low Voltage Directive, IEC60825-1 LED Safety: Class 1, C-Tick N10410
MTBF: per MIL-HDBK-217F Ground Benign exceeds 70,000 hours

Symbologies

2 Dimensional: PDF417, MicroPDF417, MaxiCode, Data Matrix, QR Code, Aztec, Code 49, and EAN•UCC Composite
Linear: Codabar, Code 39, Interleaved 2 of 5, Code 93, Code 128, UPC, EAN, RSS, Codablock, and BC412*
**available to licensed users*
Postal: Postnet, Planet Code, British Post, Canadian Post, Japanese Post, KIX (Netherlands Post)
OCR Fonts: OCR-A, OCR-B
Interfaces: All popular PCs and terminals via keyboard wedge, keyboard replacement/direct connect, USB, TTL level RS-232, wand emulation mode, TTL level Serial Wedge.
Warranty: Two year factory warranty.

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