

IT4600

Commercial/Retail Area Imager



Now Powered by New Adaptus™ Imaging Technology 5.0

The **IT4600** 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 5.0**, the IT4600 is full featured, fast, and cost effective.

Today's demanding retail and commercial applications 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 IT4600 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 even storing data electronically, **image capture is a mainstream requirement** and an important part of current and future solutions. Equipped with Adaptus Imaging Technology 5.0, the **IT4600 provides best-in-class image quality and image transfer speed, all at very economical prices**.

The IT4600 is now easier to use under the most challenging conditions with Adaptus Imaging Technology 5.0; and **with no moving parts, the IT4600 is as durable as it is versatile**.

For additional information, please contact your Hand Held Products representative or visit www.handheld.com.

Features

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.

NEW! Increased Resolution – Improved image quality for vision-based applications.

Built to Last – Durable, with no moving parts. Backed by an industry leading warranty.

NEW! Increased Motion Tolerance – Ease of use in all types of scanning applications; better hand/motion tolerance for linear codes.

Connectivity – The most popular interfaces in one model. Uses the standard Hand Held Products cable set.

NEW! Faster Time to Read (TTR) – Advanced Linear Decoding (ALD) is faster and reads more like a linear unit.

IQ Editing Pro™ – Provides easy integration into existing applications, without expensive host software changes.

NEW! Increased Field of View (FOV) – Ability to read wider bar codes quickly and easily, including hard to read bar codes.

IT4600 Specifications

Performance

Illumination LEDs: 626nm ±30nm

Aiming:

Green LED Aimer: 526nm ±30nm

Image: VGA, 752x480. Binary, TIFF, or JPEG output.

Working Range:

IT4600 SR	8.3 mil Linear (.021cm)	13 mil UPC (.033cm)	6.6 mil PDF417 (.017cm)	10 mil PDF417 (.025cm)	15 mil Data Matrix (.038cm)	35 mil MaxiCode (.089cm)
Near	3.5 in. (8.9cm)	2.1 in. (5.3cm)	4.4 in. (11.2cm)	3.0 in. (7.6cm)	2.3 in. (5.8cm)	2.0 in. (5.1cm)
Far	7.5 in. (19.1cm)	13.1 in. (33.3cm)	6.1 in. (15.5cm)	8.9 in. (22.6cm)	10.1 in. (25.7cm)	12.9 in. (32.8cm)

IT4600 SF	7.5 mil Linear (.019cm)	13 mil UPC (.033cm)	6.6 mil PDF417 (.017cm)	10 mil PDF417 (.025cm)	15 mil Data Matrix (.038cm)	15 mil QR Code (.038cm)
Near	2.5 in. (6.4cm)	2.0 in. (5.1cm)	2.8 in. (7.1cm)	2.2 in. (5.6cm)	1.8 in. (4.6cm)	2.2 in. (5.6 cm)
Far	6.4 in. (16.3cm)	8.8 in. (22.4cm)	5.9 in. (15.0cm)	7.5 in. (19.1cm)	7.4 in. (18.8cm)	7.1 in. (18.0cm)

Skew Angle: ±40°

Pitch Angle: ±40°

Motion Tolerance: 4 in. (10 cm) per second

Mechanical/Electrical

Dimensions

Length: 5.3 in. (13.5 cm)

Height: 6.2 in. (15.7 cm)

Width: 3.2 in. (8.1 cm)

Weight: 6.5 oz. (184.3 g)

Housing: UL 94V0 grade

Power Requirements: 4.0 - 14VDC at imager

Current Draw (Typical)

Input	Scanning	Idle
5 V	382mA	53mA

Power Supply

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

Environmental

Sealing: IP41 (Water and Dust Resistant)

Temperature

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

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

Humidity: 0 to 95%, non-condensing

Mechanical Shock: Operational after 50 drops from 6 ft. (1.8 m) to concrete

Ambient Light: 0 to 100,000 lux (full sunlight)

ESD Protection: Functional after 100 15kV discharges

Vibration: Withstands 5G peak from 22 to 300 Hz

Agency: FCC Class B, CE EMC Class B, CE Low Voltage Directive, IEC60825-1 LED Safety: Class 1, UL, cUL listed, TÜV, 2005 Sunrise Compliant

Laser Classification

Laser Aimer Model only: Class 2 under 21 CFR 1040.10 and 1040.11
1mW max output, 650 nm, EN60825-1: 1994+A11+A2
per MIL-HDBK-217F Ground Benign exceeds 70,000 hours

MTBF:



Symbologies

2 Dimensional: PDF417, MicroPDF417, MaxiCode, Data Matrix, QR Code, Aztec, Aztec Mesas, Code 49, and EAN-UCC Composite

Linear: Codabar, Code 39, Interleaved 2 of 5, Code 93, Code 128, UPC, EAN, RSS, Codablock F, and BC412*

*available to licensed users

Postal (SR/SF Only): Postnet, Planet Code, British Post, Canadian Post, Japanese Post, KIX (Netherlands) Post

OCR Fonts (SR/SF Only): OCR-A, OCR-B

Interfaces: All popular PCs and terminals via keyboard wedge, keyboard replacement/direct connect, USB, TTL level RS-232, wand emulation (primary interface only) mode, TTL level Serial Wedge, and IBM 46XX retail terminals.
HHLC non decoded laser output in 4600SR000 model.
True RS-232 in 4600SR030 model.

Warranty: 5 year warranty

Worldwide Offices

Offices Serving North America
Skaneateles Falls, NY
Tel: +1 315 685 8945
or, in North America: +1 800 582 4263
napresales@handheld.com
Charlotte, NC
Tel: +1 704 998 3998
or, in North America: +1 800 582 4263
napresales@handheld.com

Offices Serving Europe, Middle East, and Africa
Europe
Tel: +31 (0) 40 29 01 600
eupresales@handheld.com
United Kingdom
Tel: +44 (0) 1 925 240055
eupresales@handheld.com
Italy
Tel: +39 (0) 2 67 100752
eupresales@handheld.com

France
Tel: +33 (0) 1 41 158220
eupresales@handheld.com
Germany
Tel: +49 (0) 7 477 151377
eupresales@handheld.com
Spain
Tel: +34 93 228 78 68
eupresales@handheld.com

Offices Serving Asia and the Pacific Rim
Hong Kong
Tel: +852 2511 3050
appresales@handheld.com
Japan
Tel: +813 5770 6312
appresales@handheld.com
Offices Serving Latin America
Naples, Florida
Tel: +1 239 263 7600
lapresales@handheld.com

São Paulo
Tel: +55 11 2178 0500
lapresales@handheld.com
Rio De Janeiro
Tel: +55 21 2178 0500
lapresales@handheld.com
Mexico
Tel: +52 55 5203 2100
lapresales@handheld.com

Web Site Address www.handheld.com

Hand Held Products, Inc., ("Hand Held Products") © 1999-2005. All rights reserved. Printed in the U.S.A.

Due to Hand Held Products' continuing product improvement programs, specifications and features herein are subject to change without notice.