

## 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](http://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

<b>Illumination LEDs:</b>	626nm ±30nm					
<b>Aiming:</b>						
<b>Green LED Aimer:</b>	526nm ±30nm					
<b>Image:</b>	VGA, 752x480. Binary, TIFF, or JPEG output.					
<b>Working Range:</b>						
<b>IT4600 SR</b>	<b>8.3 mil Linear (.021cm)</b>	<b>13 mil UPC (.033cm)</b>	<b>6.6 mil PDF417 (.017cm)</b>	<b>10 mil PDF417 (.025cm)</b>	<b>15 mil Data Matrix (.038cm)</b>	<b>35 mil MaxiCode (.089cm)</b>
<b>Near</b>	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)
<b>Far</b>	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)
<b>IT4600 SF</b>	<b>7.5 mil Linear (.019cm)</b>	<b>13 mil UPC (.033cm)</b>	<b>6.6 mil PDF417 (.017cm)</b>	<b>10 mil PDF417 (.025cm)</b>	<b>15 mil Data Matrix (.038cm)</b>	<b>15 mil QR Code (.038cm)</b>
<b>Near</b>	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)
<b>Far</b>	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)
<b>Skew Angle:</b>	±40°					
<b>Pitch Angle:</b>	±40°					
<b>Motion Tolerance:</b>	4 in. (10 cm) per second					

## Mechanical/Electrical

### Dimensions

<b>Length:</b>	5.3 in. (13.5 cm)
<b>Height:</b>	6.2 in. (15.7 cm)
<b>Width:</b>	3.2 in. (8.1 cm)
<b>Weight:</b>	6.5 oz. (184.3 g)

### Housing:

UL 94V0 grade

### Power Requirements:

4.0 - 14VDC at imager

**Current Draw (Typical)**

<b>Input</b>	<b>Scanning</b>	<b>Idle</b>
5 V	382mA	53mA

**Green LED Aimer:**

## 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)

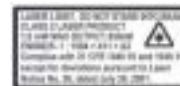
**ESD Protection:** Functional after 100 15kV discharges

**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. HHLIC non decoded laser output in 4600SR000 model. True RS-232 in 4600SR030 model.

**Warranty:** 5 year warranty

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