

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







HAWKEYE® 40T & 45T



HawkEye 40T & 45T: At a Glance

- · Decodes/second: up to 10
- Read Range: 2 to 16" (51 to 406 mm)
- · Bluetooth, USB, RS-232 Interface Options
- Rugged Handle Options:
- Cabled
- 3900 mAH



ESP® Easy Setup Program: Single-point software provides quick and easy setup and configuration of all Microscan readers.

For more information on this product, visit www.microscan.com.

HawkEye 40T & 45T: Available Codes

Linear

All Standard Postal Codes

Hadadalllaaaldll

Stacked









Maxicode

High Performance Handheld Imagers

The HawkEye 40T and HawkEye 45T are the most aggressive industrial handheld imagers available for decoding low contrast direct part marks of linear barcodes and 2D symbols. These high performance readers are used for part identification and unit level traceability applications where the positioning flexibility of a handheld reader is required.

Powerful Performance

Advanced image processing algorithms allow high performance reading of direct part marks and low contrast codes. With powerful decode abilities for low contrast and damaged codes, the HawkEye 40T and 45T are especially suitable for direct part marks which were created by laser markers, dot peen systems or inkjet.

Integrated Display

The HawkEye 45T includes an integrated display that shows read data, allows reader configuration, and provides display of messages from the application. With the HawkEye 45T's integrated keypad it is also possible to enter data into the application (e.g. counting operations).

System Integration

All HawkEye handheld imagers are available in three configuration options including batch, cabled and wireless Bluetooth.

Application Examples

Automotive

 Identification of power train components

Aerospace

· Dot peen marks on gas turbine blades

U.S. Dept. of Defense

- · UID marks on government equipment
- UID mark validation Medical Devices
- · Laser marks on medical device components & enclosures

Electronics

· Laser marks on ESDsensitive components

Semiconductors

· Laser marks on packed semiconductor devices, heat sinks or heat spreaders

MICROSCAN.

IMAGER MECHANICAL

Height: 1.3" (33 mm) Width: 1.8" (46 mm) Depth: 4.3" (109 mm)

Weight: 4 oz. (113g) not including cable

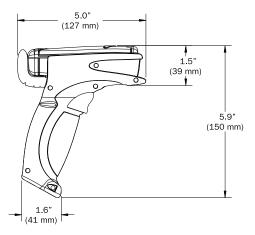
Cable Length: 6' (1.8 m)

HANDLE & BATTERY CHARACTERISTICS

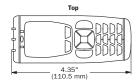
Cabled weight: 4.0 oz. (113)

Cabled weight with imager: 7.2 oz. (204 g) With 3900 mAH battery: 6.4 oz. (181 g) With 3900 mAH battery/imager: 9.6 oz. (272 g)

BATTERY BLANK HANDLE VIEW



HAWKEYE 45T KEYPAD MECHANICAL



ENVIRONMENTAL

Operating Temperature: 0° to 40°C (32° to 104°F) Storage Temperature: -20° to 60°C (-4° to 140°F)

Humidity: 5% to 95% (non-condensing)

Shock: Withstands 100+ drops of 6.5' (2 meters)

to concrete

COMMUNICATION PROTOCOLS

Standard Interface: USB Optional Interface: RS-232, Bluetooth Class 1 Radio at 328' (100 m)

LIGHT COLLECTION OPTIONS

Sensor: CMOS 1.33 MP (1024 x 1280) 256 gray scale **Focal Point:**

Near: 1.9" (50 mm) Far: 14.8" (375 mm)

Field of View:

Near: 0.98" x 0.6" (25 mm x 15 mm) at 1.9" (50 mm)

distance

Far: 5.9" x 3.5" (150 mm x 90 mm) at 14.8" (375 mm) distance



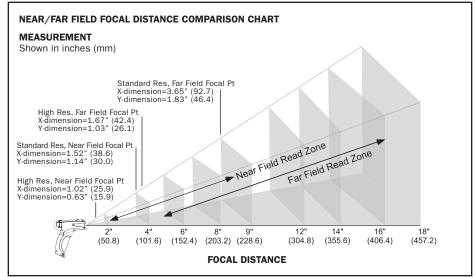
ELECTRICAL

Power Requirements: 5 VDC (mA) Typical: 140 Peak: 310 Idle: NA/

Bluetooth Radio at 295' (90 m) away (mA): Typical: 280 Peak: 350 Idle: 96 Sleep: 3 Bluetooth Radio at 33' (10 m) away (mA): Typical: 260 Peak: 350 Idle: 96 Sleep: 3

Life of 3900 mAH Battery with Radio: Will support 8000 read/transmits per charge including 16 hours of standby interval.

Batch Memory: Minimum of 1MB



READ RANGES, STANDARD RESOLUTION

| Narrow Bar-Width | Read Range Distance |
|-------------------|-----------------------------|
| .0075" (0.191 mm) | 3.2 to 3.9" (81 to 99 mm) |
| .015" (0.381 mm) | 3.0 to 9.0" (76 to 229 mm) |
| .020" (0.508 mm) | 3.0 to 16.0" (76 to 406 mm) |

READ RANGES, HIGH RESOLUTION

| Narrow Bar-Width | Read Range Distance |
|-------------------|----------------------------------|
| .005" (0.127 mm) | 1.75 to 2.5" (44.4 to 63.5 mm) |
| .0075" (0.191 mm) | 1.75 to 4" (44.4 to 101.6 mm) |
| .010" (0.254 mm) | 1.75 to 4.75" (44.4 to 102.6 mm) |
| .015" (0.381 mm) | 1.75 to 6" (44.4 to 152.3 mm) |
| .020" (0.508 mm) | 1.75 to 6.5" (44.4 to 165.1 mm) |

Ranges based on Grade A symbols. Data subject to change.

DISPLAY (HawkEye 45T)

128 x 128 monochrome

LIGHT SOURCE

Type: Visible laser light, Class 2 with 630 nm

SYMBOLOGY TYPES

Linear Barcodes: Code 39, Code 128, I2 of 5, UPC/EAN, Codabar, Codablock F, Code 93, PLANET, PostNet, KIX Code, Postal Codes

Stacked Symbologies: PDF417, Micro PDF417,

GS1 Databar

2D Symbologies: Data Matrix, MaxiCode, Aztec Code, QR Code, Micro QR Code

IMAGE OUTPUT OPTIONS

Format: JPEG, Raw (uncompressed)

READ PARAMETERS

Pitch: ±60° (front to back) Skew: ±60° Tilt: 360° Focal Range: 1 to 16" (25 to 406 mm)

Rotational Tolerance: ±180°

Print Contrast Resolution: 25 percent (bar codes); 35 percent (PDF417); absolute dark/light reflectance differential, measure at 650 nm.

Target Beam: Visible Laser Diode at 630 nm. Class 2 Ambient Light Immunity: Sunlight: Up to 9,000 ftcandles 96,890 lux

SAFETY CERTIFICATIONS

FCC. CE

ROHS/WEEE COMPLIANCE

ISO CERTIFICATION

Certified ISO 9001:2008 Quality Management System

FIELD OF VIEW. STANDARD RESOLUTION

| Near Field of Viev | v |
|--------------------|-------------------------------|
| Distance | Field of View Size |
| (inches/mm) | (1024 x 640 pixel, Default) |
| 4" (101.6) | 1.52 x 1.14" (38.6 x 30 mm) |
| Far Field of View | |
| 9" (228.6) | 3.65 x 1.83" (92.7 x 46.4 mm) |

FIFI D OF VIEW HIGH RESOLUTION

| FIELD OF VIEW, HIGH RESOLUTION | | |
|--------------------------------|-------------------------------|--|
| Near Field of View | | |
| Distance | Field of View Size | |
| inches/mm | (1024 x 640 pixel, Default) | |
| 2" (50.8) | .74 x .46" (18.8 x 11.6 mm) | |
| 2.5" (63.5) | .93 x .57" (23.5 x 14.5 mm) | |
| 2.75" (69.9) | 1.02 x .63" (25.9 x 15.9 mm) | |
| 3" (76.2) | 1.11 x .68" (28.3 x 17.4 mm) | |
| 3.5" (88.9) | 1.3 x .80" (33 x 20.3 mm) | |
| 4" (101.6) | 1.48 x .91" (37.7 x 23.2 mm) | |
| Far Field of View | | |
| 2" (50.8) | .74 x .46" (18.8 x 11.6 mm) | |
| 2.5" (63.5) | .93 x .57" (23.5 x 14.5 mm) | |
| 3" (76.2) | 1.11 x .68" (28.2 x 17.4 mm) | |
| 3.5" (88.9) | 1.3 x .80" (32.9 x 20.3 mm) | |
| 4" (101.6) | 1.48 x .91" (37.6 x 23.2 mm) | |
| 4.5" (114.3) | 1.67 x 1.03" (42.4 x 26.1 mm) | |
| 5" (127) | 1.85 x 1.14" (47.1 x 28.9 mm) | |
| 5.5" (139.7) | 2.04 x 1.25" (51.8 x 31.8 mm) | |
| 6" (152.7) | 2.22 x 1.37" (56.5 x 34.7 mm) | |
| 6.5" (165.1) | 2.41 x 1.48" (61.2 x 37.6 mm) | |

@2011 Microscan Systems, Inc. SP031D 01/11

Performance data is determined using high quality Grade A symbols per ISO/IEC 15415 and ISO/IEC 15416 in a 25°C environment. For application-specific results, testing should be performed with symbols used in the actual application. Microscan Applications Engineering is available to assist with evaluations. Results may vary depending on symbol quality. Warranty-One year limited warranty on parts and labor. Free extended 3 year warranty upon online product registration

CROSCA

Microscan Systems, Inc.

Tel 425 226 5700 / 800 251 7711 Fax 425 226 8250

Microscan Europe

Tel 31 172 423360 / Fax 31 172 423366

Microscan Asia Pacific

Tel 65 6846 1214 / Fax 65 6846 4641

www.microscan.com

Product Information: info@microscan.com Auto ID Support: helpdesk@microscan.com Vision Support: visionsupport@microscan.com NERLITE Support: nerlitesupport@microscan.com