

HS-21: At a Glance

- · Reads most 1D and 2D symbols
- · Dual field optics for wide and high density fields
- · USB 2.0 or RS-232 communication options
- · Low power draw
- · Optional stand and Motion Detect mode for hand presentation



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



Visible Indicator: "Good read" green LED performance indicator.

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

2D Handheld Imager

The HS-21 2D handheld imager provides fast decode rates and long range reading in a lightweight, durable package. Its dual field optics decode most 1D and 2D symbols in any orientation at short and long distances.

The HS-21 combines a compact form factor with ruggedness and high performance. It can sustain multiple drops from 6 feet (1.8 meters) and is ideal for applications from the clean room to the factory floor.

High Performance

The HS-21 features computing power and advanced image processing to decode challenging 1D and 2D symbols.

Large Scan Width

With a 4 inch (102 mm) focal distance and generous scan width, the HS-21 is optimal for decoding symbols on laboratory sample tubes and reagent tubes.

Easy to Clean

The reader's sensitive components are protected by an IP54-rated enclosure, easily cleaned by common hospital disinfectants.

User-Friendly Design

The housing is ergonomically designed for user comfort in repetitive and heavy duty applications. In addition to a beeper, visual and vibrating indicators provide silent confirmation of successful reads for noisy or sensitive environments.

Simple Configuration

The HS-21 can be easily set up and configured using Microscan's ESP software.

Application Examples

- · Life sciences
- Manufacturing
- · Health care

HS-21: Available Symbologies

Linear



Postal Codes

Hadadalllaaddl

Stacked



GS1 Databar

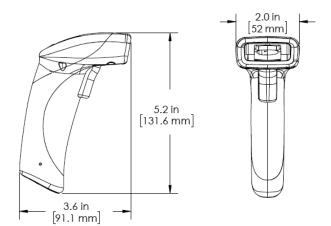


Micro QR Aztec





HS-21 2D Handheld Imager Specifications and Options



READ RANGE TABLE

DARD DENSITY
3.7 to 5.0" (94 to 127 mm)
2.2 to 6.5" (56 to 165 mm)
1.5 to 8.0" (38 to 203 mm)
2.3 to 15.5" (58 to 394 mm)
3.7 to 4.6" (94 to 117 mm)
1.5 to 6.0" (38 to 152 mm)
1.6 to 7.7" (41 to 196 mm)
1.6 to 9.4" (41 to 239 mm)

Note: Specifications are subject to change. Working ranges are a combination of both the wide and high density fields.



Note: Inches [milimeters]. Nominal dimensions shown. Typical tolerances apply.

MECHANICAL

Height: 5.2" (131.6 mm) Width: 2.0" (52 mm) Depth: 3.6" (91.1 mm) Weight: 3.9 oz. (110 g)

ENVIRONMENTAL

Operating Temperature: -20° to 55° C (-4° to 131° F) Storage Temperature: -30° to 65° C (-22° to 150° F)

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

Shock: Withstands multiple drops of 6' (1.8 meters)

CE STANDARDS

Immunity: EN 55024 ESD: EN 61000-4-2 Radiated RF: EN61000-4-3 Keyed Carrier: ENV50204 EFT: EN61000-4-4

Conducted RF: EN61000-4-6

Emissions: EN55022, Class B Radiated,

Class B Conducted

CB Test Certificate: IEC 60950-1:2001, First Edition

LIGHT COLLECTION OPTIONS

Sensor: CMOS 1.2 megapixel grayscale

Sensor Array: 1280 by 960 **Field Selection:** High density or wide

Field of View: High density field: 30° horizontal by 20° vertical; wide field: 50° horizontal by 33.5° vertical

Focal Point: Approximately 100 mm

Optical Resolution: High density field: 960 x 640;

wide field: 960 x 640

SYMBOLOGIES

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

Aztec Code

Stacked Symbologies: PDF417, MicroPDF417, Composite **Linear Symbologies:** UPC, Code 39, Code 128, Interleaved

2 of 5, Codabar, GS1 DataBar, Code 93

Postal Symbologies: USPS OneCode (4CB), POSTNET, PLANET, Japanese Post, Australian Post, Royal Mail, KIX Code

COMMUNICATION PROTOCOLS

Standard Interface: RS-232, USB 2.0 (generic HID, HID keyboard, virtual COM port)

READ PARAMETERS

Pitch: ±60° (front to back)

Skew: ±60° (from plane parallel to symbol (side-to-

Rotational Tolerance: ±180°

Print Contrast Resolution: 25% (1D symbologies); 35% (2D symbologies) absolute dark/light reflectance

differential, measured at 650 nm

Ambient Light Immunity: Sunlight: Up to 9,000 ft.-

candles/96,890 lux

Target Beam: Dual, blue targeting bar

INDICATORS

Status Indicators: Beep, vibrate, LED flash

IMAGE OUTPUT OPTIONS

Format: BMP or JPEG

MEMORY CAPACITY

128MB Flash ROM, 32MB RAM

DATA EDITING

JavaScript (Additional License Required)

EL ECTRICAL

Power Requirements: Reader @ 5VDC (mA): Typical: Less than 450 mA; Idle: Less than 80 mA;

Sleep: Less than 31 mA

SAFETY CERTIFICATIONS DESIGNED FOR

FCC, CE

ROHS/WEEE COMPLIANT

ISO CERTIFICATION

Certified ISO 9001:2008 Quality Management System

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Read Range and other 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 Read Range 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-For current warranty
information on this product, please visit www.microscan.com/warranty.

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