HS-360X
Specifications and Options

**DIMENSIONS**

**Corded:** Height: 7.3 in. (18.5 cm); Width: 3.0 in. (7.7 cm); Depth: 5.2 in. (13.2 cm); Weight: 10.72 oz./304 g

**Cordless:** Height: 7.3 in. (18.5 cm); Width: 3.0 in. (7.7 cm); Depth: 5.6 in. (14.3 cm); Weight: 14.18 oz. (402 g)

**USER ENVIRONMENT**

**Operating Temperature:** Corded: -22° F to 122° F (-30° C to 50° C); Cordless: -4° F to 122° F (-20° C to 50° C)

**Storage Temperature:** Corded: -40° F to 158° F (-40° C to 70° C); Cordless: -40° F to 158° F (-40° C to 70° C)

**Humidity:** 5% to 95% non-condensing

**Drop Specification:** Withstands multiple 8.0 ft./2.4 m drops to concrete

**Tumble Specification:** 5,000 tumbles @ 3.3 ft. (1 m)

**Environmental Sealing:** Scanner: IP65 and IP67; Cradle: IP65

**ESD:** Per EN61000-4-2, ±20 KV air discharge, ±10 KV direct discharge, ±10 KV indirect discharge

**Ambient Light Immunity:** 0 to 10,037 foot-candles/0 to 108,000 Lux (direct sunlight)

**Industrial Fluids Tested and Tolerable:** Motor/Engine Oil, Automatic Transmission Fluid (ATF), Continuously Variable Transmission Fluid (CVT), Industrial De-Greaser (Engine Brite Heavy Duty), Brake Fluid (DOT4)

**COMMUNICATION**

USB (HID Keyboard, USB Virtual COM), RS-232

**WIRELESS CONNECTIVITY**

**Bluetooth Radio:** Bluetooth Class 1, Version 4.0 (LE), serial port (SPP) and HID profiles

**Data Rate:** 3 Mbit/s (2.1 Mbit/s) for Classic Bluetooth; 1 Mbit/s (0.27 Mbit/s) for Low-Energy

**Radio Range:** Direct line of sight in open air: Class 1: Minimum 300 ft. (100.0 m); Class 2: Minimum 30 ft. (10.0 m)

**ILLUMINATION**

Direct: 2 warm white light LED;
Diffuse: Ring of red 634 nm LEDs
Targeting: 655 nm laser

**INDICATORS**

Direct Decode Indicator; LEDs; Beeper; Vibration

**PERFORMANCE**

Scans Per Full Charge: 100,000+
Imager Field of View: Horizontal: 31°; Vertical: 23°
Image Sensor: 1,280 x 960 pixels
Minimum Print Contrast: 15% minimum reflective difference
Skew/Pitch/Roll:
Skew: ±60°;
Pitch: ±60°;
Roll: ±360°

**UTILITIES**

WebLink™ allows you to configure the reader, upgrade firmware, and display decoded symbol data.

**SYMBOLS**

2D: Data Matrix, Composite Codes, TLC-39, Aztec, MaxiCode, QR Code, Micro QR, Chinese Sensible (Han Xin), Postal Symbologies, DotCode

Stacked: PDF417, MicroPDF417


**REGULATORY**

Environmental: RoHS EN 50581: 2012

Electrical Safety: CE, UL

Laser/LED Safety: Exempt Risk Group LED per IEC/EN 62471 (Ed. 1); Class 2 Laser per IEC/EN 60825-1 (Ed. 3); Complies with 21 CFR 1040.10

Emissions: EN 55032:2015 (Class B);
ICES-003 Issue 5, Class B

**CABLES AND ACCESSORIES**

**IMPORTANT:** Cables and accessories must be purchased separately.

**HS-360X Handheld DPM Scanner, Wired:**
- 12-9000946-01: Cable, USB, Shielded, 2 M or
- 12-9000947-01: Cable, USB, Shielded, 4.6 M

**HS-360X Handheld DPM Scanner, Wireless:**
- Standard Configuration:
  - 12-9000937-01: Cradle/Charger and
  - 12-9000946-01: Cable, USB, Shielded, 2 M or
  - 12-9000947-01: Cable, USB, Shielded, 4.6 M

- Alternate Configuration:
  - 12-9000937-01: Cradle/Charger and
  - 12-9000942-01: Cable, USB, Shielded, 2 M, Ext. 12V, Power Supply Required and
  - 12-9000959-01: AC Power Cord, 2.5 M, U.S. plug, C13 Conn. or
  - 12-9000943-01: Cable, USB, Shielded, 4.6 M, Ext. 12V, Power Supply Required and
  - 12-9000959-01: AC Power Cord, 2.5 M, U.S. plug, C13 Conn.

**QMS CERTIFICATION**

www.microscan.com/quality

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Specifications are subject to change.
For complete technical information, please see the user manual.
Warranty – For current warranty information about this product, please visit www.microscan.com/warranty.

www.microscan.com
# HS-360X Read Ranges

<table>
<thead>
<tr>
<th>Symbology</th>
<th>Resolution</th>
<th>Inside Edge</th>
<th>Outside Edge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code 39</td>
<td>3.0 mil</td>
<td>0.2 in. (0.5 cm)</td>
<td>2.8 in. (7.1 cm)</td>
</tr>
<tr>
<td>PDF417</td>
<td>5.0 mil</td>
<td>0.2 in. (0.5 cm)</td>
<td>2.8 in. (7.1 cm)</td>
</tr>
<tr>
<td></td>
<td>6.6 mil</td>
<td>0.2 in. (0.5 cm)³</td>
<td>3.2 in. (8.1 cm)</td>
</tr>
<tr>
<td>Data Matrix</td>
<td>5.0 mil</td>
<td>0.4 in. (1.0 cm)</td>
<td>2.5 in. (6.3 cm)</td>
</tr>
<tr>
<td></td>
<td>10.0 mil</td>
<td>0.0 in. (0.0 cm)</td>
<td>3.4 in. (8.6 cm)</td>
</tr>
<tr>
<td>QR Code</td>
<td>5.0 mil</td>
<td>0.4 in. (1.0 cm)</td>
<td>2.5 in. (6.3 cm)</td>
</tr>
<tr>
<td></td>
<td>10.0 mil</td>
<td>0.0 in. (0.0 cm)</td>
<td>3.4 in. (8.6 cm)</td>
</tr>
<tr>
<td>UPC</td>
<td>13.0 mil</td>
<td>1.0 in. (2.5 cm)³</td>
<td>5.8 in. (14.7 cm)</td>
</tr>
</tbody>
</table>

³Field of view and barcode width limited. Read ranges measured with Decoder Effort Level 1. Barcodes printed on photographic paper. 30 foot-candles ambient light conditions during testing.

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**Field of View Calculation Formula:**

\[
x = 2 \times y \times \tan(\theta/2)
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