HS-360X

Specifications and Options

Rugged Enclosure
IP65 and IP67

Integrated LEDs

Depth (Cabled): 5.2 in. (13.2 cm)
Depth (Wireless): 5.6 in. (14.3 cm)

Height:
7.3 in.
(18.5 cm)

Width:
3.0 in.
(7.7 cm)

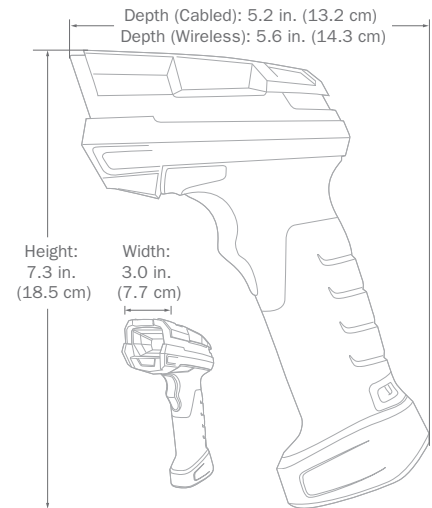### DIMENSIONS
Corded: Height: 7.3 in. (18.5 cm); Width: 3.0 in. (7.7 cm); Depth: 5.2 in. (13.2 cm); Weight: 10.72 oz./304 g
Cordless: Height: 7.3 in. (18.5 cm); Width: 3.0 in. (7.7 cm); Depth: 5.6 in. (14.3 cm); Weight: 14.18 oz. (402 g)

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)
Enclosure: Reader: 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)

ELECTRICAL
Input Voltage Range: Host-Powered: 4.5VDC min., 5.5 VDC max.; External Power Supply: 11.4 VDC min., 12.6 VDC max.
Operating Current: HDS-3608 (Corded): 360 mA (RMS typical)
Standby Current: HDS-3608 (Corded): 100 mA (RMS typical)
Battery: PowerPrecision+ 3100 mAh Li-Ion, Rechargeable (Included with wireless model)

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_{PC} allows you to configure the reader, upgrade firmware, and display decoded symbol data.

SYMBOLOGIES
2D: Data Matrix, Composite Codes, TLC-39, Aztec, MaxiCode, QR Code, Micro QR, Chinese Sensible (Han Xin), Postal Symbologies, DotCode
Stacked: PDF417, MicroPDF417
Linear: Code 39, Code 128, Code 93, Codabar/NW7, Code 11, MSI Plessey, UPC/EAN, I 2 of 5, Korean 3 of 5, GS1 DataBar, Base 32 (Italian Pharma)

REGULATORY
Environmental: RoHS EN 50581: 2012
Electrical Safety: EU Safety: EN 60950-1: 2006+A11:2009+A1:2010+A12:2011+AC:2011+A2:2013; International Safety: IEC 60950-1:2005+A1:2009+A2:2013; US/Canada Safety: UL 60950-1 (Ed. 2), CAN/CSA-C22.2 No. 60950-1-07
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
EMI/RFI: IT Emissions: EN 55022:2010/AC:2011 (Class B); IT Immunity: EN 55024: 2010; Heavy Industrial: EN 61000-6-2: 2005/AC:2005; Harmonic Current Emissions: EN 61000-3-2:2006+A1:2009+A2:2009 (Class B); Voltage Fluctuation and Flicker: EN 61000-3-3:2013; Medical Electrical Equipment: EN 60601-1-2:2007/AC:2010, IEC 60601-1-2:2007 (Modified); Radio Frequency Devices: 47 CFR Part 15, Subpart B, Class B Digital Apparatus: ICES-003 Issue 5, Class B

QMS CERTIFICATION
www.microscan.com/quality

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HS-360X Read Ranges

Read Ranges

Symbology	Resolution	Inside Edge	Outside Edge
Code 39	3.0 mil	0.2 in. (0.5 cm)	2.8 in. (7.1 cm)
Code 39	5.0 mil	0.2 in. (0.5 cm)	2.8 in. (7.1 cm)
PDF417	6.6 mil	0.2 in. (0.5 cm)[1]	3.2 in. (8.1 cm)[1]
Data Matrix	5.0 mil	0.4 in. (1.0 cm)	2.5 in. (6.3 cm)
Data Matrix	10.0 mil	0.0 in. (0.0 cm)	3.4 in. (8.6 cm)
QR Code	5.0 mil	0.4 in. (1.0 cm)	2.5 in. (6.3 cm)
QR Code	10.0 mil	0.0 in. (0.0 cm)	3.4 in. (8.1 cm)
UPC	13.0 mil	1.0 in. (2.5 cm)[1]	5.8 in. (14.7 cm)[1]

[1] Field 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.