

MS-Q BASIC



Handled Imager

The MS-Q Basic imager provides a rugged handled solution for decoding both linear bar codes and 2D symbols. It reads a wide range of symbols from a variety of printing and marking methods.

The MS-Q Basic imager is a fit for any application using bar code or 2D symbols and requiring portable reading device.

Read Area

With advanced “dual-decode zone” technology, the MS-Q Basic easily captures linear and 2D symbols at distances from 2 to 20” (51 to 508 mm). The wide read area allows fast and reliable decoding.

User-Friendly Design

All MS-Q imagers feature point-and-click targeting with a red laser spot to quickly center the symbol in the field of view. Beeper, vibrator and multipurpose performance indicators provide real-time feedback.

High Processing Speed

Fast processing speed adds to the MS-Q Basic’s ability to acquire and decode multiple symbologies within seconds of each other, without any adjustment to the imager.

System Integration

All MS-Q imagers are available in 3 configuration options including batch, cabled or wireless Bluetooth.

Batch Mode

Batch mode is a wireless way to collect thousands of decoded symbols for later download. MS-Q imagers are capable of performing more than 8000 reads from a single battery charge (3900 mAH) and buffer a minimum of 1 MB of data in nonvolatile memory.

Application Examples

- Automotive
- Aerospace
- Electronics
- Inventory
- Department of Defense suppliers

MS-Q Basic: At a Glance

- Decodes/second: up to 10
- Read Range: 2 to 20” (51 to 508 mm)
- Bluetooth, USB, RS-232, PS2 Interface Options
- Rugged Handle Options:
 - Cabled
 - 1950 mAH
 - 3900 mAH



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

For more information on this product, visit www.quadrus-ez.com.

MS-Q Basic: Available Codes

Linear	All Standard 	2D Symbols	Data Matrix 	QR
Stacked	MicroPDF 	PDF417 	RSS 	



MS-Q BASIC IMAGER SPECIFICATIONS AND OPTIONS

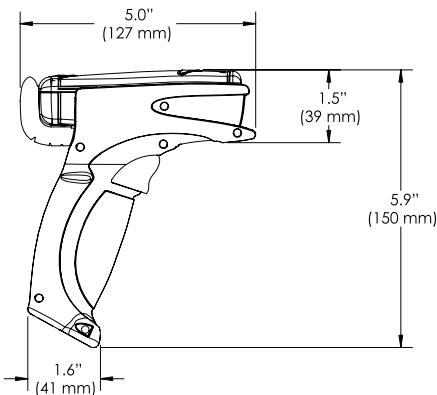
IMAGER MECHANICAL

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 1950 mAH battery: 4.8 oz. (136 g)
With 1950 mAH battery/imager: 8 oz. (227 g)
With 3900 mAH battery: 6.4 oz. (181 g)
With 3900 mAH battery/imager: 9.6 oz. (272 g)

BATTERY BLANK HANDLE VIEW



ENVIRONMENTAL

Operating Temperature: 0° to 50° C (32° to 122° F)
Storage Temperature: -20° to 60° C (-4 to 140° F)
Humidity: 5 to 90% (non-condensing)

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

SYMBOLGY TYPES

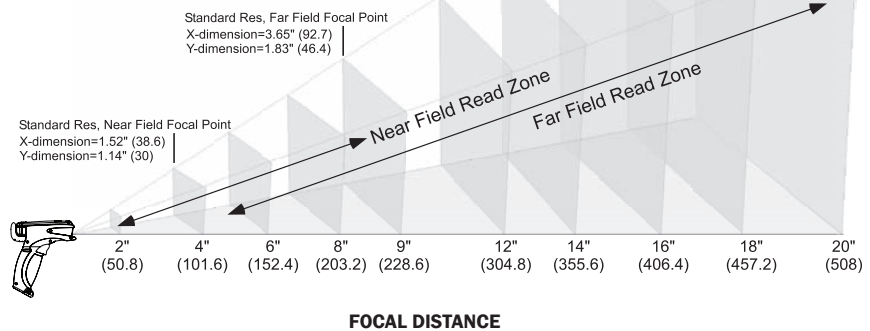
Linear Bar Codes	
Code 39	Code 128
I2 of 5	Codabar
UPC/EAN	Codablock F
Code 93	RSS
PostNet	PLANET
Postal Codes (Japan, Australia)	KIX Code

2D Symbolgies	
Data Matrix (ECC 200)	MaxiCode
Aztec Code	QR Code
	Micro QR Code

Stacked Symbolgies	
PDF417	
Micro PDF417	

NEAR/FAR FIELD RANGE COMPARISON CHART

MEASUREMENT
 Shown in inches (mm)



READ RANGES, STANDARD RESOLUTION

Narrow Bar-Width	Read Range Distance
.0075" (.191 mm)	3.2 to 3.9" (81 to 99 mm)
.015" (.381 mm)	3.0 to 9.0" (76 to 229 mm)
.020" (.508 mm)	3.0 to 11.5" (76 to 292 mm)

Ranges based on Grade A, Data Matrix symbols.

FIELD OF VIEW, STANDARD RESOLUTION

Distance	Decode Zone
Inches/mm	(1024 x 640 pixel, Default)
Near Field of View	
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)

LIGHT COLLECTION OPTIONS

Sensor: CMOS, progressive scan, 1.33 MP (1024 by 1280) 256 gray scale
Field of View:
Near: 21.5° horizontal by 16.2° vertical
Far: 22.9° horizontal by 11.6° vertical
Standard Resolution Focal Point:
Near: 4" (101.6 mm)
Far: 9" (228.6 mm)
Sensor Array:
Near Field: 1024 by 640 **Far Field:** 1024 by 640



COMMUNICATION PROTOCOLS

Standard Interface: USB
Optional Interface: RS-232, Bluetooth Class 1 Radio at 328' (100 m), PS2.

READ PARAMETERS

Pitch: ±60° (front to back)
Skew: ±60°
Tilt: 360°
Focal Range: 1 to 20" (25 to 508 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 ft-candles 96,890 lux
Shock: Withstands 100+ drops of 6.5' (2 meters) to concrete

INDICATORS

Status Indicators: Memory status, Battery power, Successful decode, and Connection status
Programmable Indicators:
 Beeper or Vibrate option; communicates scanner operation and communication functions to user

IMAGE OUTPUT OPTIONS

Format: Jpeg, Raw (uncompressed)

ELECTRICAL

Power Requirements: 5 VDC (mA)
Typical: 310 **Peak:** 310 **Sleep:** 3
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 1950 mAH Battery with Radio: will support 4000 read/transmits per charge including 8 hours of standby interval.
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

SAFETY CERTIFICATIONS DESIGNED FOR

FCC, CE



ISO 9001:2000
Certified QMS

ROHS/WEEE COMPLIANT

ISO CERTIFICATION

Issued by RWTÜV, USA Inc.
 ISO 9001:2000 - Cert No. 03-1212

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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 e year limited warranty on parts and labor. Extended warranty available.

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