QUADRUS[®] MINI



Quadrus MINI: At a Glance

- · Decodes/second: up to 10
- 1.3 Megapixel Sensor
- Patented Quadrus Technology
- Autofocus



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



EZ Button: This performs reader setup and configuration with no computer required.



Visible Indicators: Performance indicators include "good read" green flash, LEDs and symbol positioning tool.

Options: ESD Safe, USB, EZ Trax Software

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

Quadrus MINI: Available Codes



Versatile Mini Imager for Auto ID

The Quadrus MINI solves a wide range of data tracking and traceability needs across all industries. The 1.3 megapixel imager reads all standard 2D or linear barcodes, plus multiple codes per capture. Dynamic real time autofocus automatically reads different codes, at varying distances, while in motion.

With easy setup, flexible programming, and powerful image processing, the Quadrus MINI is an ideal solution for virtually all barcode applications.

Autofocus

For real time dynamic autofocus, position the symbol at the center of the field of view, and push the EZ button. The Quadrus MINI automatically adjusts focal distance and sets internal parameters to optimize the symbol.

Megapixel Processing

Each imager features megapixel processing for reading multiple small, high density codes, long 1D codes, and decoding up to 100 symbols in a single read capture.

Wide Field of View

OR

Read symbols as large as 2" (50.8 mm) square as close as 1" (25.4 mm) with diffractive field illumination and optional right angle mirror.

Ease of Use

The imager series includes such user-friendly features as visible performance indicators, ESP[®] software, and one touch setup and configuration.

Compact Shape/Size The Quadrus MINI's small form factor allows for flexible positioning in tight spaces or mounting into robotic applications.

EZ Trax™ Option

Image capture and storage software provides tracking of symbol images.

Application Examples

- Printed circuit boards
- · Electronics assembly
- Assembly line manufacturing
- Component tracking
- Robotics

MICROSCAN.

QUADRUS[®] MINI Specifications and Options

5 mil 2D 3 mil 1D

51

7.5 mil 2D 5 mil 1D

51

Wide Axis (H = 4/5 W)

Front

9" (22.9 mm) Optical Center .51 (12.9 mm M2x0.4 1" (25 4 mm) .10" (2.54 mm) depth .20" (5.1 mm) .15" (3.9 mm)-1.5" (38 mm) 1.8" (45.7 mm) Base 2.10 2X M3X0.5 (53.3 mm) 5 mm depth Ĥ Đ .51" (12.9 mm) 1.25" (31.8 mm) .26" (6.6 mm)--



High Density Fields of View

in. mm



MECHANICAL

Height: 1" (25.4 mm) Width: 1.80" (45.7 mm) Depth: 2.10" (53.3 mm) Weight: 2-oz (57 g)

ENVIRONMENTAL

Enclosure: IP54 (category 2) Humidity: up to 90% (non-condensing) Operating Temperature: 0° to 40°C (32° to 104°F) Storage Temperature: -50° to 75° C (-58 to 167°F)

CE MARK

General Immunity for Light Industry: EN 55024: 1998 ITE Immunity Standard Radiated and Conducted Emissions of ITE Equipment: EN 55022:98 ITE Disturbances

LIGHT SOURCE

Type: High output LEDs

LIGHT COLLECTION OPTIONS

Progressive scan, square pixel. Software adjustable shutter speed, electronic shutter SXGA: 1280 by 1024 pixels



SYMBOLOGY TYPES

2D Symbologies: Data Matrix (ECC 0-200), QR Code Stacked Symbologies: PDF417, Micro PDF417, GS1 Databar (Composite & Stacked) Linear Barcodes: Code 39, Code 128, BC 412, I2 of 5, UPC/EAN, Codabar, Code 93

READ PARAMETERS

Pitch: ±30° Skew: ±30° Tilt: 360° Decode Rate: Up to 10 decodes per second Focal Range: 2 to 6" (50.8 to 152.4 mm) (autofocus)

CONNECTOR

Type: 3 ft. cable terminated with High Density 15-pin D-Sub socket connector or USB Type A connector

INDICATORS

LEDS: Read Performance, Power, Read Status Green Flash: Good read Blue V: Symbol locator Beeper: Good read, match/mismatch, noread, serial command confirmation, on/off

ELECTRICAL

Power: 5 VDC +/- 5 %, 200 mV p-p max. ripple, 554 mA @ 5 VDC (typ.) Optional Int.: 10-28 V Accy

COMMUNICATION PROTOCOLS

Standard Interface: RS-232, RS-422, RS-485, or USB



Field of View

Subject to change. Contact Microscan for updated graphs.

HOST CONNECTOR/PIN ASSIGNMENTS High Density 15 Pin D-sub Socket Connector

Pin No.	Host RS232	Host/Aux RS232	Host RS422/485	In/ Out
1	Power +5 VDC			In
2	TxD	TxD	TxD(-)	Out
3	RxD	RxD	RxD(-)	In
4	Power/Signal Ground			
5	NC			
6	RTS	Aux TxD	TxD(+)	Out
7	Output 1 TTL ^a			Out
8	Default configuration ^b			In
9	Trigger			In
10	CTS	Aux RxD	RxD (+)	In
11	Output 3 TTL ^a			Out
12	New Master (NPN)			In
13	Chassis ground ^c			
14	Output 2 TTL ^a			Out
15	NC			

Can sink 10 mA and source 10 mA.

The default is activated by connecting pin 8 to ground pin 4. Chassis ground: Used to connect chassis body to earth ground only. Not to be used as power or signal return.

DISCRETE I/O

Trigger Input: 5 to 28 vdc rated (.16 mA) New Master: 5 to 28 vdc rated (.16 mA)

Outputs (1, 2, 3): 5V TTL compatible, can sink 10 mA and source 10mA

Optional I/O: Optoisolated (with IC-332 accessory)

SAFETY CERTIFICATIONS DESIGNED FOR FCC, UL/cUL, CE, CB

Read Range

ROHS/WEEE COMPLIANT

ISO CERTIFICATION

Certified ISO 9001:2008 Quality Management System

©2011 Microscan Systems, Inc. SP004L 01/11 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-One year limited warranty on parts and labor. Free extended 3 year warranty upon online product registration

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READ RANGES (GRAPHS AND TABLES)

76

25

7.5 mil 2D | 5 mil 1D

Focus Position (in)

2. -51

Narrow-bar-width