



Quadrus MINI 3: At a Glance

- · Decodes/second: up to 4
- High Resolution 3 Megapixel Imaging
- Patented Quadrus Technology
- Dynamic Autofocus



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



EZ Trax™: Image capture and storage software provides tracking of symbol images.



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



Visible Indicators: Performance indicators include "good read" green flash and LEDs, as well as the label positioning tool.

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

Quadrus MINI 3: Available Codes

PDF417





GS1 Databar



Stacked Symbols



The Quadrus MINI 3 megapixel imager provides the highest performance available in miniature "mini" imagers for data tracking. It is the only imager to decode tiny, high density codes of 3 mil or smaller.

With the flexibility to read tiny 2D codes, long linear bar codes, and up to 100 codes per capture, the Quadrus MINI 3 is the most powerful mini ID imager available for virtually all bar code applications.

Megapixel Imaging

The processing power of 3 megapixel imaging provides the highest resolution and widest field of view of any mini ID imager.

Capture Multiple Codes The wide field of view can decode up to 100 different codes in a single read capture, including both tiny 2D and long linear codes. All standard linear and 2D code formats are supported.

Real Time Autofocus

Automatically read different codes, at varying distances, while in motion with the Quadrus MINI 3. Dynamic real time autofocus ensures that no manual optics adjustments are needed.

Read Tiny Codes

3 megapixel image processing ensures high resolution to read tiny 2D codes barely visible to the human eye, down to 2.5 mil. Q-Mode Option Q-Mode algorithms provide the most consistent decoding available for a wide range of code types. Q-Mode also enhances the Field of View and adds the ability to decode Micro QR, Aztec, and Postal codes.



Postal Codes

Install Anywhere

The small size and compact shape of Quadrus MINI 3 allows for flexible positioning, even in tight spaces or mounting onto robotic applications.

Application Examples

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



QUADRUS[®] MINI 3 Specifications and Options





Narrow-bar-width		Field of View	Read Range			
1D	2D	(maximum)	(using autofocus)			
Micro Density						
.0028" (.07mm)	.0033" (.08 mm)	1.2" (30.4 mm)	1.9 to 2.0" (48.3 mm to 50.8 mm)			
.0033" (.08 mm)	.005" (.13 mm)	3.0" (76.2 mm)	1.9 to 5.0" (48.3 mm to 127 mm)			
.0075" (.19 mm)	.010" (.25 mm)	3.4" (86.4 mm)	1.7 to 5.6" (43.2 mm to 142.2 mm)			
.015" (.38 mm)	.020" (.51 mm)	3.6" (91.4 mm)	1.7 to 6" (43.2 mm to 152.4 mm)			
Standard Density						
.0033" (.08 mm)	.005" (.13 mm)	3.2" (81.3 mm)	1.9 to 3.5" (48 mm to 89 mm)			
.005" (.13 mm)	.0075" (.19 mm)	5.0" (127 mm)	1.8 to 5" (46 mm to 127 mm)			
.0075" (.19 mm)	.010" (.25 mm)	6.2" (157.5 mm)	1.6 to 8" (41 mm to 203 mm)			
.010" (.25 mm)	.015" (.38 mm)	8.5" (215.9 mm)	1.4 to 9" (36 mm to 228 mm)			
.020" (0.51 mm)	.030" (.76 mm)	9.5" (241 mm)	1.0 to 10.5" (25 mm to 266.7 mm)			

Note: Data based on Q-Mode models. Subject to change. Contact Microscan for updated graphs.

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 102°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 **QXGA:** 2048 by 1536 pixels



SYMBOLOGY TYPES

2D Symbologies: Data Matrix (ECC 0-200), QR Code Stacked Symbologies: PDF417, Micro PDF417, GS1 Databar (Composite & Stacked) Linear Bar Codes: Code 39, Code 128, BC 412, I2 of 5, Pharmacode, UPC/EAN, Codabar, Code 93 Q-Mode Option: Micro QR Code, Aztec Code, Postal Codes

READ PARAMETERS

Pitch: $\pm 30^{\circ}$ Skew: $\pm 30^{\circ}$ Tilt: 360° Decode Rate: Up to 4 decodes per second @ QXGA 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

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

READ RANGES (GRAPHS AND TABLES)

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	Powe					
5						
6	RTS	Aux TxD	TxD(+)	Out		
7	(Out				
8	Defa	In				
9		In				
10	CTS	Aux RxD	RxD (+)	In		
11	Output 3 TTL ^a			Out		
12	Ne	In				
13	CI					
14	Output 2 TTL ^a			Out		
15						

a. Can sink 10 mA and source 10 mA.

b. The default is activated by connecting pin 8 to ground pin 4.
c. Chassis ground: Used to connect chassis body to earth

ground only. Not to be used as power or signal return.

COMMUNICATION PROTOCOLS

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

ELECTRICAL

Power: 5 VDC +/- 5 %, 200 mV p-p max. ripple, 494 mA @ 5 VDC (typ.) **Optional Int.:** 10-28 V Accy

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



ROHS/WEEE COMPLIANT

ISO CERTIFICATION

Issued by TüV USA Inc, Member of TÜV NORD Group, Cert No. 06–1080

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