QUADRUS® MINI 3 MEGAPIXEL



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

Linear



2D Symbols





Stacked Symbols





High Resolution Mini Imager For ID

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

11...|...|..|11.....|..|111....|1...|

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.

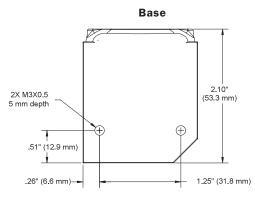
Application Examples

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

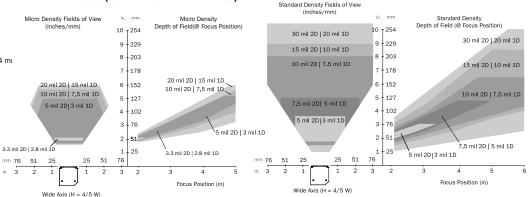


QUADRUS MINI 3 SPECIFICATIONS AND OPTIONS

Front .9" (22.9 mm) r Optical Center .51' (12.9 mm M2x0.4 1" (25.4 mm) .10" (2.54 mi depth .20" (5.1 mm) .15" (3.9 mm)-1.5" (38 mm) 1.8" (45.7 mm)



READ RANGES (GRAPHS AND TABLES)



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)

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

WARMING
LEO LIGHT
D NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENT
CLASS 1 LED PRODUCT
IN Output: 564 mW. Weierlength: 470, 525, 617 n
IEC 60825-1:1993+A1:1997+A2:2001

SYMBOLOGY TYPES

Stacked Symbologies: PDF417, Micro PDF417, GS1 Databar (Composite & Stacked) Linear Bar Codes: Code 39, Code 128, BC 412,

2D Symbologies: Data Matrix (ECC 0-200), QR Code

I2 of 5, Pharmacode, UPC/EAN, Codabar, Code 93 Q-Mode Option: Micro QR Code, Aztec Code, Postal Codes

READ PARAMETERS

Pitch: ±30° Skew: ±30° Tilt: 360°

Decode Rate: Up to 4 decodes per second @ OXGA Focal Range: 2 to 6" (50.8 to 152.4 mm) (autofocus)

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

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	Pow			
5	NC			
6	RTS	Aux TxD	TxD(+)	Out
7	Output 1 TTL ^a			Out
8	Defa	In		
9	Trigger			In
10	CTS	Aux RxD	RxD (+)	In
11	Output 3 TTL ^a			Out
12	Ne	In		
13	С			
14	Output 2 TTL ^a			Out
15				

- a. Can sink 10 mA and source 10 mA.
- 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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