QUADRUS[®] EZ FLEX



SHOR COMPLY

Quadrus EZ FLEX: At a Glance

- Decodes/second: up to 60
- Read Range: Varies by lens
- Patented Quadrus Technology
- · Optional packaged lens and lighting kits

ESP

ESP[®] Easy Setup Program: Single-point software solution 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.

Flexible C-Mount Imager For ID

The Quadrus EZ FLEX is the ultimate flexible imager for decoding linear and 2D codes in traceability applications. The imager's core is Microscan's patented Quadrus technology, including robust decode algorithms for any symbol. The Quadrus EZ FLEX provides unlimited potential through compatibility with any C-mount lens or external lighting solutions.

Lenses & Lighting

The Quadrus EZ FLEX is compatible with any C-mount lens and external lighting solution from any manufacturer. Microscan also offers packaged kits for ease of integration.

Ethernet Connectivity

Ethernet is an option available for high speed data and image transfer.

Video Input/Output

Video input and output ports allow standard analog RS-170 cameras to be used, and a live video feed to view images.

Flexibility

The Quadrus EZ FLEX features interchangeable lenses and external lighting, allowing you to create a powerful custom imager specific to the unique demands of your application.

2D Symbol Quality Reports Printed reports on a variety of 2D symbol quality parameters provide a useful gauge of symbol readability.

Application Examples

- Factory automation
- · Data traceability
- Work-in-progress
- Unlimited potential through a variety of lenses and lighting

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

Quadrus EZ FLEX: Available Codes

Linear



MicroPDF



QR

Stacked

PDF417



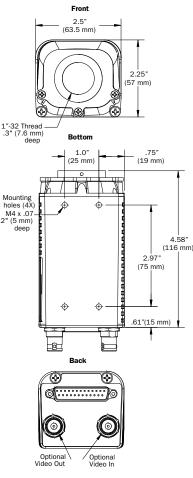
MICROSCAN

QUADRUS[®] EZ FLEX IMAGER

SPECIFICATIONS AND OPTIONS

MECHANICAL

Height: 2.25" (57 mm) Width: 2.5" (64 mm) Depth: 4.2" (107 mm) Weight: 12 oz. (340 g)



ENVIRONMENTAL

Operating Temperature: 0° to 43°C (32° to 109°F), if mounted on a Microscan stand. If mounted on non-metal surface, maximum operating temperature is 40°C (104°F)

Storage Temperature with Lens:

-20° to 60° C (-40 to 140°F) Humidity: up to 90% (non-condensing)

EMISSIONS/IMMUNITY

FCC: EN61000-6-3:2001 +AW:2004 Heavy Industrial Immunity: EN61000-6-2:2001

LIGHT COLLECTION OPTIONS

Progressive scan, square pixel. Software adjustable shutter speed. electronic mechanism CCD Array: 659 x 494 pixels

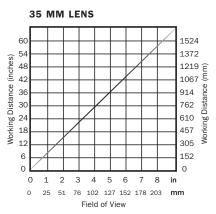
SYMBOLOGY TYPES

2D Symbologies: Data Matrix (ECC 0-200), QR Code Stacked Symbologies: PDF417, Micro PDF417, RSS (Composite & Stacked) Linear Bar Codes: Code 39, Code 128,

IBM BC412, I2 of 5, Pharmacode, UPC/EAN

READ PARAMETERS

Pitch: ±30° **Skew**: ±30° **Tilt**: 360 (lens and illumination dependent) Decode Rate: Up to 60 decodes per second



NOTE: Data based on standard available lens and lighting kits. Data is subject to change.

STANDARD OFFERING **CONNECTORS/PIN ASSIGNMENTS**

Host Connector: 25-pin D-subminiature plug

| Pin No. | Host RS232 | Host & Aux RS232 | Host RS422/485 | In/ Out | |
|------------|------------------------------------|---------------------|-------------------|------------|--|
| 1 | Chassis ground ^a | | | | |
| 2 | TxD | | | Out | |
| 3 | RxD | | | In | |
| 4 | RTS | T | D | Out | |
| 5 | CTS | R | κD | In | |
| 6 | Output 1 (+) | | | Out | |
| 7 | Signal Ground ^b | | | | |
| 8 | Output 2 (+) | | | Out | |
| 9 | Trigger (–) | | | In | |
| 10 | Trigger (+) | | | In | |
| 11 | Default configuration ^c | | | In | |
| 12 | Input 1 (+) | | | In | |
| 13 | | | RxD (+) | In | |
| 14 | TxD (–) | | | Out | |
| 15 | Output 3 (+) | | | Out | |
| 16 | RxD (–) | | In | | |
| 17 | Power Ground ^d | | | | |
| 18 | Power +10 to 28 VDC | | | In | |
| 19 | | | TXD + | Out | |
| 20 | Output 1 (-) | | | Out | |
| 21 | Output 2 (–) | | | Out | |
| 22 | Output 3 (–) | | | Out | |
| 23 | Input 1 (–) | | | In | |
| 24 | New master (–) | | | In | |
| 25 | New master (+) | | | In | |

^aChassis ground: Used to connect chassis body to earth ground only. Not to be used as power or signal return. ^bSignal ground: Used for communication and signal line grounds only. Not to be used as power or chassis return. ^c The default is activated by connecting pin 11 to ground pin 7.

^d Power ground: Used for power return only. Caution: If using your own power supply, verify correct connection of power and ground lines. Incorrect connections or use of "Chassis ground," "Power ground," and "Signal ground" lines could cause equipment or software failure.

ETHERNET OPTION

Host Connector: Pins Utilized

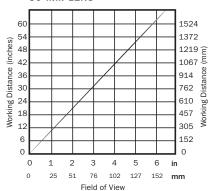
| Pin No. | Function | In/Out |
|---------|------------------|--------|
| 13 | Ethernet RxD (+) | In |
| 14 | Ethernet RxD(–) | In |
| 16 | Ethernet TxD (–) | Out |
| 19 | Ethernet TxD (+) | Out |

INDICATORS

LEDS: Read Performance, Power, Read Status, and Network Status

Beeper: Good read, match/mismatch, noread, serial command confirmation, on/off

50 MM LENS



VIDEO INPUT (Option)

Signal System: Progressive scan Number of Scanning Lines: 525 lines/non-interlaced Input: Analog 1 Vp-p

VIDEO OUTPUT (Option)

Signal System: EIA (RS-170) Number of Scanning Lines: 525 lines/ 2:1 interlaced Output: Analog 1 Vp-p/75 ohm

COMMUNICATION PROTOCOLS

Standard Interface: RS-232, RS-422, RS-485, RS-232, Daisy Chain Optional Interface: Ethernet

ELECTRICAL

Power Requirements: Input, 10 to 28 VDC, 200 mV p-p max ripple, 333 mA at 24 VDC (typ.-CCD). Trigger, New Master, Input 1: (Optoisolated) 5 to 28 VDC rated, (12mA at 24 VDC). Outputs 1/2/3: (Optoisolated) 1 to 28 VDC rated, (I_{CE} < 100mA at 24 VDC, current limited by user).

SAFETY CERTIFICATIONS

Designed for: FCC, CE, cUL, UL



ROHS/WEEE COMPLIANT

ISO CERTIFICATION

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

©2008 Microscan Systems, Inc. Rev. A 5/08 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 Applica-tions Engineering is available to assist with evaluations. Results may vary depending on symbol quality.

Warranty—One year limited warranty on parts and labor. Extended warranty available.

MICROSCAN

Microscan Systems, Inc. Tel 425 226 5700 / 800 251 7711

Fax 425 226 8250

Microscan Europe

Tel 31 172 423360 / Fax 31 172 423366 Microscan Asia Pacific R.O.

Tel 65 6846 1214 / Fax 65 6846 4641 Part of a full range of sales tools available from our website:

www.microscan.com

E-mail: info@microscan.com Tech Support: helpdesk@microscan.com

QUADRUS[®] EZ FLEX IMAGER C-MOUNT LENS AND LIGHTING OPTIONS



Interchangeable Lens & Lighting Options

The Quadrus EZ FLEX imager interchangeable lenses and external lighting allow you to create a powerful custom traceability solution specific to the unique demands of your application.

In addition to compatibility with any C-mount lens or external lighting units, Microscan offers convenient pre-packaged kits for ease of integration.

| | Lens and Lighting Kits | | | | |
|---------------------|--|--|--|--|--|
| | Components | Minimum Element Size | Recommended Uses | | |
| General Purpose Kit | 35 mm Lens 10 mm Spacer Ring Light Lighting Bracket | 5 mil, 15 mil Example Symbol Sizes: 26 X 26 Capacity: Numeric: 88 Alphanumeric: 64 | Working Range: 8 to 20" (203.2 to 508 mm) Working Range with Spacer: 3.75 to 5.75" (95.25 to 146.05 mm) Large focal range to accomodate application requirements Multiple codes in FOV High speed applications | | |
| Micro Density Kit | 50 mm Lens 40 mm Spacer Coaxial Light | 1.8 mil | Working Range: 3.75" (95.25 mm) • Tiny codes | | |
| | • Lighting Bracket | Actual Size Example Symbol Size: 10 X 10 Capacity: Numeric: 6 Alphanumeric: 3 | Low contrast | | |

Each Data Matrix shown is a square matrix. Symbols are for size reference only, and may not be accurately reproduced on screen or by some print methods. Scale is 1:1.

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Microscan Systems, Inc. Tel 425 226 5700 / 800 251 7711 Fax 425 226 8250 **Microscan Europe** Tel 31 172 423360 / Fax 31 172 423366 Microscan Asia Pacific R.O. Tel 65 6846 1214 / Fax 65 6846 4641

www.microscan.com

E-mail: info@microscan.com Tech Support: helpdesk@microscan.com **MICROSCAN**