

QUADRUS® EZ FLEX



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.

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® 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.

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.

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.

Ethernet Connectivity

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

2D Symbol Quality Reports

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

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.

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

All Standard



2D Symbols

Data Matrix



QR



Stacked

MicroPDF



PDF417



GS1 Databar



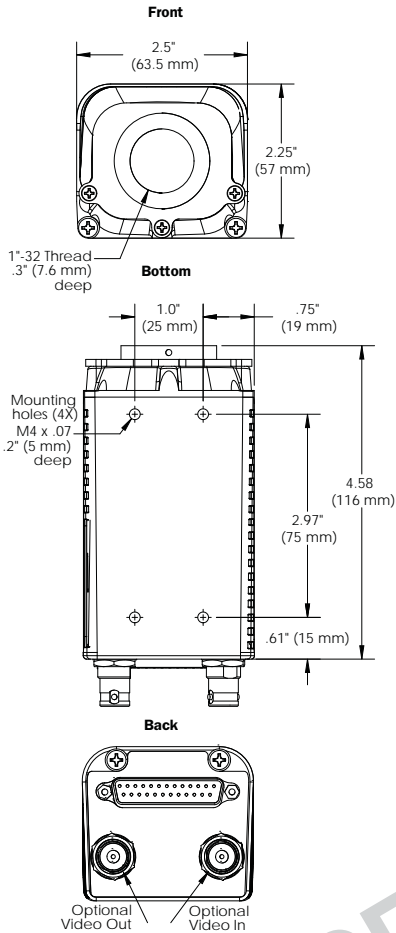
MICROSCAN®

QUADRUS® EZ FLEX IMAGER

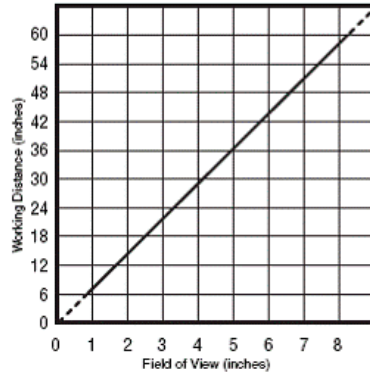
SPECIFICATIONS AND OPTIONS

MECHANICAL

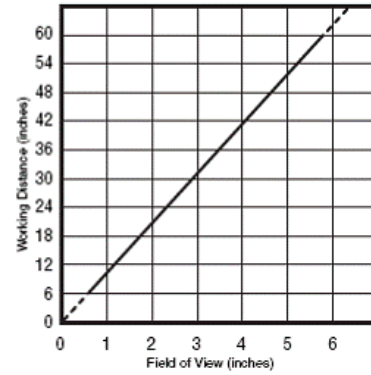
Height: 2.25" (57 mm)
Width: 2.5" (64 mm)
Depth: 4.2" (107 mm)
Weight: 12 oz. (340 g)



35 MM LENS



50 MM LENS



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	TxD		Out
5	CTS	RxD		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.

^cThe default is activated by connecting pin 11 to ground pin 7.

^dPower 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.

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



ISO 9001:2000
Certified QMS

ROHS/WEEE COMPLIANT

ISO CERTIFICATION

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

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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 vary depending on symbol quality.

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

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

SYMBOLGY TYPES

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

Stacked Symbolgies: PDF417, Micro PDF417, RSS (Composite & Stacked)

Linear Bar Codes: Code 39, Code 128, IBM BC412, I2 of 5, Pharmacoode, UPC/EAN

READ PARAMETERS

Pitch: ±30° **Skew:** ±30° (lens and illumination dependent)

Decode Rate: Up to 60 decodes per second

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

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




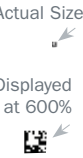
Easy Attachment of Any C-Mount Lens

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 manufactured C-mount lens or external lighting units, Microscan offers convenient pre-packaged kits of high quality components for ease of integration.

Lens and Lighting Kits

Components	Minimum Element Size	Recommended Uses
<ul style="list-style-type: none"> • 35 mm Lens • 10 mm Spacer • Ring Light • Lighting Bracket 	<p>5 mil, 15 mil</p> <p>Example Symbol Sizes: 26 X 26</p> <p>Capacity: Numeric: 88 Alphanumeric: 64</p> 	<p>Working Range: 8 to 20" (203.2 to 508 mm)</p> <p>Working Range with Spacer: 3.75 to 5.75" (95.25 to 146.05 mm)</p> <ul style="list-style-type: none"> • Large focal range to accommodate application requirements • Multiple codes in FOV • High speed applications
<ul style="list-style-type: none"> • 50 mm Lens • 40 mm Spacer • Coaxial Light • Lighting Bracket 	<p>1.8 mil</p> <p>Example Symbol Size: 10 X 10</p> <p>Capacity: Numeric: 6 Alphanumeric: 3</p> 	<p>Working Range: 3.75" (95.25 mm)</p> <ul style="list-style-type: none"> • Tiny codes • Low contrast

General Purpose Kit



Micro Density Kit



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

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