The Quadrus™ MINI is the world’s smallest high resolution imager and the first to offer true autofocus for ultimate flexibility in factory automation and electronics product identification.

It is the ideal imager for automation engineers who need flexibility to read any code, at any distance, at any speed. Quadrus MINI reads both linear bar codes and 2D codes in any orientation, while in motion. EZ button setup, symbol locator, and visible performance indicators provide ease of use while large area reading and small form factor allow for positioning flexibility.

**QUADRUS™ MINI**

**Ultra-Compact, Autofocus Mega Pixel Imager**

**Autofocus**
Position your symbol at the center of the field of view and push the EZ button for a true auto focus experience. Quadrus MINI automatically adjusts for distance to focus on the symbol and sets internal parameters to optimize reading of symbol.

**Mega Pixel Processing**
Mega Pixel processing allows for reading multiple small, high density codes or long 1D codes. Quadrus MINI can read down to 3.3 mil high density codes and can decode up to 100 symbols within the field of view in a single read capture. Three optical versions are available.

**Compact Shape and Size**
Quadrus Mini is the world’s smallest high performance imager, measuring 1” (25.2 mm) height x 1.8” (45.7 mm) width x 2.10” (53.3) length and weighs less than 2 ounces (57 g). The short height is especially useful for fitting in small spaces under conveyors and the light weight for mounting on robotic machinery.

**Wide Field of View**
High resolution zero-distortion optics, diffractive full field illumination, and a wide scan window allow linear and 2D codes as large as 2” (50.8 mm) square to be read as close as one inch (25.4 mm) with optional right angle mirror.

**Dynamic, Omni-Directional Reading**
The Quadrus MINI decodes linear bar codes or 2D codes omni-directionally in moving applications at speeds up to 100 feet per minute (0.5 meters/second).

**High Data Level Output**
2D codes can have a high level of data capacity. Quadrus MINI maintains high decode rates to process and output large amounts of data in milliseconds allowing for quick ‘back to back’ reading of products.

**Push-Button Setup**
The EZ button is a powerful setup feature. Three programmable positions can be used to perform tasks including:
- Read Rate
- Autofocus/Calibration
- Save for Power-on
- Load New Master
- Sleep Mode

**Visible Performance Indicators**
- Symbol Locator
- Good Read Indicator
- Read Performance

**Symbologies:**

<table>
<thead>
<tr>
<th>2D Symbologies</th>
<th>Linear Bar Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data Matrix (ECC 0-200)</td>
<td>Code 39</td>
</tr>
<tr>
<td>QR Code</td>
<td>Code 128</td>
</tr>
<tr>
<td>Code 93</td>
<td></td>
</tr>
<tr>
<td>I-2 of 5</td>
<td></td>
</tr>
<tr>
<td>RSS (Stacked,Composite)</td>
<td>UPC/EAN</td>
</tr>
<tr>
<td>PharmaCode</td>
<td></td>
</tr>
<tr>
<td>Codabar</td>
<td></td>
</tr>
<tr>
<td>BC 412</td>
<td></td>
</tr>
</tbody>
</table>

Codes depicted above are for display purposes only. For a sample packet, contact Microscan, info@microscan.com.

**ESP™ Easy Setup Program**
ESP™ is Microscan’s software to operate Microscan readers. ESP™ is compatible with Windows 98, NT, 2000, and XP.
**Electrical**

- **Power:** 5 VDC +/– 5%, 200 mV p-p max. ripple, 440 mA @ 5 VDC (typ.).
- **Optional Int.:** 10-28 V Aacc.

**Environmental**

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

**CE Mark**

- General Immunity for Light Industry: EN 61000–6–4: 2001
- Equipment: EN 61000–6–2: 2001

**Technical specifications and options**

**Optional Int.:**

- 440 mA @ 5 VDC (typ.)

**Power:**

- 5 VDC +/– 5%, 200 mV p-p max. ripple, 440 mA @ 5 VDC (typ.)

**INDICATORS**

-蜂鸣器:
  - Blue V: 高性能
  - Green Flash: 低性能

**LEDs:**

- 15-pin D-Sub socket connector
- Type: 高输出LEDs

**SYMBOLOGIES TYPES**

- **2D Symbologies:**
  - Data Matrix (ECC 0-200), QR Code
  - RSS (Composite & Stacked)

- **Stacked Symbologies:**
  - Code 39, Code 128, BC 412

- **Linear Bar Codes:**
  - Code 0, Code 1, Code 2, Code 3

**SYMBOLOGY OPTIONS**

- **Linear Bar Codes:**
  - High Density 15 Pin D-sub Socket Connector

**READ PARAMETERS**

- **Pitch:** ±30°
- **Skew:** ±30°
- **Tilt:** 360°

**CONNECTOR**

- Type: 3 ft. cable terminated with High Density 15-pin D-sub socket connector

**COMMUNICATION PROTOCOLS**

- **Standard Interface:** RS-232, RS-422

**MECHANICAL**

- **Height:** 1” (25.4 mm)
- **Width:** 1.8” (45.7 mm)
- **Depth:** 2.10” (53.3 mm)
- **Weight:** 2-oz (57 g)

**Standard Interface:**

- **COMMUNICATION PROTOCOLS**
  - command confirmation, on/off

**Beeper:**

- Symbol locator
- Good read
- match/mismatch
- noread
- serial

**Decode Rate:**

- Up to 10 decodes per second
- ±30°
- ±30°
- ±30°
- ±30°
- ±30°

**Read Performance, Power, Read Status**

- **New Master:** 5 to 29.9V rated (160 mA)
- **Chassis ground:** Used to connect chassis body to earth
- **Baseline:** “on” ground only. Not to be used as power or signal return.

**Read Ranges (Graphs and Tables)**

- **Narrow-bar-width**
- **Field of View (maximam)**
- **Read Range (using autofocus)**

**HOST CONNECTOR/PIN ASSIGNMENTS**

- **High Density 15 Pin D-sub Socket Connector**

**DISCRETE I/O**

- **Trigger Input:** 5 to 29.9V rated (160 mA)
- **New Master:** 5 to 29.9V rated (160 mA)

**Output 1, 2, 3:**

- 5V TTL compatible, can sink 10 mA and source 10 mA

**Optional Int.:**

- Optoisolated (with IC-332 accessory) 10-28 V

**SAFETY CERTIFICATIONS DESIGNED FOR**

- **FCC, UL/cUL, CE, CB**

**ISO CERTIFICATION**

- Issued by RTW/U, USA Inc.
- ISO 9001:2000 – Cert No. 03–1212

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Product specifications are given for typical performance at 25°C (77°F) using grade A labels. Some performance characteristics may vary at high temperatures or other environmental extremes. Warranty—One year limited warranty on parts and labor. Extended warranty available.

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