

# JS-20 MX Scan Head

## Product Specifications

### General

|                |                      |
|----------------|----------------------|
| Dimensions     | 21" x 5" x 5"        |
| Weight         | 12 lbs               |
| Laser Type     | Pulsed, Class IIIa   |
| Laser Color    | Visible red          |
| User Interface | PC                   |
| Data Interface | 10/100BaseT Ethernet |

### System Performance

|                       |                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------|
| Depth of View         | 20" to 84"                                                                          |
| Field of View         | 10" @ 20" standoff<br>41" @ 84" standoff                                            |
| Accuracy              | +/- 0.025" @ 20" standoff<br>+/- 0.040" @ 54" standoff<br>+/- 0.100" @ 84" standoff |
| Scan Rate             | Up to 275 profiles/sec                                                              |
| Data Density          | 20 points/inch at 20" standoff<br>6 points/inch at 84" standoff                     |
| Number of Data Points | Up to 243                                                                           |

### Environmental

|                |                                                                             |
|----------------|-----------------------------------------------------------------------------|
| Operating Temp | -20° to 50°C (0° to 120°F)                                                  |
| Lighting       | Fully operational between indoor lighting (no sunlight) & complete darkness |

### Power Supply

|                |               |
|----------------|---------------|
| Voltage Range  | 20 - 28VDC    |
| Max Current    | 0.35A @ 24VDC |
| Voltage Ripple | < 5Vpp        |

### Quadrature Encoder/Start Scan Inputs

|                            |                                                                           |
|----------------------------|---------------------------------------------------------------------------|
| Primary Signaling Standard | RS-422 differential                                                       |
| Alternate Signaling        | Open collector on '+' channel (+ channels have built-in 2k pull-up to 5V) |
| Input Voltage Range        | 0 - 5VDC                                                                  |
| Max Encoder Rate           | 100,000 pulses per second (differential)                                  |

### PC Requirements

The diagnostic and calibration software (JSdiag) will run on any operating system with Java® 1.5 installed, including Microsoft® Windows®, Mac OS® X, Linux®, Oracle® Solaris and others.

### Optional Accessories

JS-20 Control Cable (iCONN Systems waterproof 8-wire connector)

LTW Sealed Ethernet Cable

Mount Kit

### iCONN Systems Waterproof Connector

| Wire Color   | Pin | Function     |
|--------------|-----|--------------|
| White        | 1   | Encoder B -  |
| Green        | 2   | Encoder B +  |
| White/Black  | 3   | Start Scan - |
| White/Red    | 4   | Start Scan + |
| White/Yellow | 5   | Encoder A -  |
| White/Green  | 6   | Encoder A +  |
| Black        | 7   | Ground       |
| Red          | 8   | +24VDC       |

### Warranty/Support

5-year product warranty (free repair or replacement of defective products)

10-year product support policy



Illustrations, descriptions and technical specifications are not binding and are subject to change without notice.

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