### CableEye® TECHNICAL SPECIFICATIONS

#### Low Voltage Specifications

<table>
<thead>
<tr>
<th>Control Module Test Points</th>
<th>M2U-B</th>
<th>M2U</th>
<th>M3U</th>
<th>M32</th>
<th>M4</th>
<th>HVX</th>
<th>HVX-21</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Test Points</td>
<td>128</td>
<td>128</td>
<td>128</td>
<td>128</td>
<td>128</td>
<td>128</td>
<td>128</td>
</tr>
<tr>
<td>Test Time (128 Test Points)</td>
<td>0.20 s</td>
<td>0.25 s</td>
<td>0.15 s</td>
<td>0.15 s</td>
<td>0.20 s</td>
<td>0.25 s</td>
<td>0.40 s</td>
</tr>
<tr>
<td>Resistance Thresholds</td>
<td>±5%</td>
<td>±1%</td>
<td>±1%</td>
<td>±1%</td>
<td>±1%</td>
<td>±1%</td>
<td>±1%</td>
</tr>
<tr>
<td>4-Wire Kelvin</td>
<td>20 mΩ ± 20 mΩ</td>
<td>From 20 mΩ to 150 mA</td>
<td>Test Current 100 mA to 1 A</td>
<td>Optional Feature (Item 832)</td>
<td></td>
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<tr>
<td>Intermittent Connection</td>
<td>33 Scans/s</td>
<td>18 Scans/s - 128 TPs</td>
<td>47 Scans/s - 64 TPs</td>
<td>47 Scans/s - 64 TPs</td>
<td></td>
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</tr>
<tr>
<td>Diode Measurement</td>
<td>Orientation Only</td>
<td>Orientation, Forward Voltage and Reverse Breakdown &lt;10 V</td>
<td>Orientation, Forward Voltage and Reverse Breakdown &gt;10 V</td>
<td></td>
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<tr>
<td>Test Voltage</td>
<td>5 V</td>
<td>10 V</td>
<td>Adjustable: 1.7 V, 2.5 V, 3.3 V, 5 V, 10 V</td>
<td>10 - 1500 Vdc or 10 - 1000 VAC RMS in Increments of 1 V</td>
<td>10 - 2100 Vdc or 10 - 1200 VAC RMS in Increments of 1 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Test Voltage Accuracy</td>
<td>±5 %</td>
<td>±5 %</td>
<td>±5 %</td>
<td>±5 %</td>
<td>±5 %</td>
<td>±5 %</td>
<td>±5 %</td>
</tr>
<tr>
<td>Insulation Resistance</td>
<td>±50 Ω - ±100 μΩ</td>
<td>±50 Ω - ±100 μΩ</td>
<td>±50 Ω - ±100 μΩ</td>
<td>±50 Ω - ±100 μΩ</td>
<td>±50 Ω - ±100 μΩ</td>
<td>±50 Ω - ±100 μΩ</td>
<td>±50 Ω - ±100 μΩ</td>
</tr>
<tr>
<td>Capacitance Meas. Rate</td>
<td>±5 %</td>
<td>±5 %</td>
<td>±5 %</td>
<td>±5 %</td>
<td>±5 %</td>
<td>±5 %</td>
<td>±5 %</td>
</tr>
<tr>
<td>Twisted Pair Measurement</td>
<td>Yes, 6&quot; Minimum Length</td>
<td>Yes, 6&quot; Minimum Length</td>
<td>Yes, 6&quot; Minimum Length</td>
<td>Yes, 6&quot; Minimum Length</td>
<td>Yes, 6&quot; Minimum Length</td>
<td>Yes, 6&quot; Minimum Length</td>
<td></td>
</tr>
<tr>
<td>Meas. Cable Length</td>
<td>Minimum Length 6 ft, ±3 ft</td>
<td>Minimum Length 6 ft, ±3 ft</td>
<td>Minimum Length 6 ft, ±3 ft</td>
<td>Minimum Length 6 ft, ±3 ft</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Meas. Distance to Break</td>
<td>Minimum Distance to Break 6 ft, ±3 ft</td>
<td>Minimum Distance to Break 6 ft, ±3 ft</td>
<td>Minimum Distance to Break 6 ft, ±3 ft</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dwell Time Range</td>
<td>1 μs to 100 ms</td>
<td>LV: 1 μs to 100 ms</td>
<td>HV: 30 ns - 300 s</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Insulation Resistance</td>
<td>±5 %</td>
<td>±5 %</td>
<td>±5 %</td>
<td>±5 %</td>
<td>±5 %</td>
<td>±5 %</td>
<td>±5 %</td>
</tr>
<tr>
<td>Insulation Quality</td>
<td>Yes, 6&quot; Minimum Length</td>
<td>Yes, 6&quot; Minimum Length</td>
<td>Yes, 6&quot; Minimum Length</td>
<td>Yes, 6&quot; Minimum Length</td>
<td></td>
<td></td>
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<tr>
<td>Calibration</td>
<td>Not Required</td>
<td>Recommended Yearly</td>
<td>Recommended Yearly</td>
<td>Recommended Yearly</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Test Point Connectors</td>
<td>64-pin dual-row headers, 0.1&quot; (2.54 mm) centers, Two per 128-point module</td>
<td>64-pin dual-row headers, 0.1&quot; (2.54 mm) centers, Two per 128-point module</td>
<td>64-pin dual-row headers, 0.1&quot; (2.54 mm) centers, Two per 128-point module</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remote Control Socket</td>
<td>No</td>
<td>Yes, MiniDNA Connector for use with e.g. Footswitch, External Control Panel</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Probe Socket</td>
<td>No</td>
<td>Yes, Probe included with tester. Accessory port also usable with minihook cable</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Power Requirement</td>
<td>9 Vdc at 300 mA (max)</td>
<td>18 Vdc at 500 mA (max)</td>
<td>18 Vdc at 500 mA (max), 9 W</td>
<td>100 - 250 Vdc, 50-60 Hz</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Weight</td>
<td>2 lbs 6 oz (1.1 kg)</td>
<td>2 lbs 6 oz (1.1 kg)</td>
<td>2 lbs 6 oz (1.1 kg)</td>
<td>21 lbs (9.5 kg)</td>
<td></td>
<td></td>
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<tr>
<td>Computer Requirements</td>
<td>Any Windows-capable machine running Windows 7 or later. Compatible with touchscreen and laptop units</td>
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<tr>
<td>USB Interface</td>
<td>USB 1.1, Fast</td>
<td>USB 1.1, Fast, Two Ports</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Warranty</td>
<td>One year, parts and labor, with free tech support and free software upgrades. Renewable yearly: camiresearch.com/warranty</td>
<td></td>
<td></td>
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</tbody>
</table>

### Test and Measurement Matrix

<table>
<thead>
<tr>
<th>Test and Measurement</th>
<th>Low Voltage</th>
<th>High Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LV</td>
<td>HV</td>
</tr>
<tr>
<td>Continuity</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Interrupted</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Complex Networks</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Insulation Quality</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Capacitance</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Power Requirement</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Weight</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Computer Requirements</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>USB Interface</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Environmental Specs</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Warranty</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

#### Test Voltage

- DC: ±2%, ±1.5 V: AC: ±4%, ±2 Vrms
- DC: ±2%, ±1.5 V: AC: ±4%, ±2 Vrms
- DC: ±2%, ±1.5 V: AC: ±4%, ±2 Vrms
- DC: ±2%, ±1.5 V: AC: ±4%, ±2 Vrms

#### Test Voltage Accuracy

- ±5%
- ±5%
- ±5%
- ±5%

- ±5%
- ±5%
- ±5%
- ±5%

#### Insulation Resistance

- ±50 Ω - ±100 μΩ
- ±50 Ω - ±100 μΩ
- ±50 Ω - ±100 μΩ
- ±50 Ω - ±100 μΩ

#### Capacitance Meas. Rate

- ±5%
- ±5%
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- ±5%

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#### Twisted Pair Measurement

- Yes, 6" Minimum Length
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#### Meas. Cable Length

- Minimum Length 6 ft, ±3 ft
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#### Dwell Time Range

- 1 μs to 100 ms
- LV: 1 μs to 100 ms
- HV: 30 ns - 300 s

#### Insulation Resistance Measurement

- 10 MΩ at 10 V
- 5 MΩ at 10 V
- 6 MΩ at 10 V
- 20 MΩ ± 20 MΩ at 1500 Vdc or 20 MΩ ± 20 MΩ at 1000 VAC RMS in Increments of 1 V
- 20 MΩ ± 20 MΩ at 1500 Vdc or 20 MΩ ± 20 MΩ at 1000 VAC RMS in Increments of 1 V
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#### Calibration

- Not Required
- Recommended Yearly
- Recommended Yearly
- Recommended Yearly

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- USB 1.1, Fast, Two Ports

#### Environmental Specs


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* M3U has been superseded by the M3Z.