### Main Specifications of CA-410 Probes

<table>
<thead>
<tr>
<th>Probe Type</th>
<th>Measurement Area</th>
<th>Measurement Angle</th>
<th>Accuracy (±)</th>
<th>Repeatability (±)</th>
<th>Measurement Time (min)</th>
<th>Communication</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA-4010</td>
<td>10 x 30 mm</td>
<td>±0.60 %</td>
<td>±0.10 %</td>
<td>±0.002</td>
<td>1 time/sec (&gt; 0.1 cd/m²)</td>
<td>USB2.0, RS-232C</td>
</tr>
<tr>
<td>CA-4020</td>
<td>30 x 10 mm</td>
<td>±0.60 %</td>
<td>±0.10 %</td>
<td>±0.002</td>
<td>20 times/sec</td>
<td>USB2.0, RS-232C</td>
</tr>
<tr>
<td>CA-4101H</td>
<td>30 x 10 mm</td>
<td>±0.60 %</td>
<td>±0.10 %</td>
<td>±0.002</td>
<td>20 times/sec</td>
<td>USB2.0, RS-232C</td>
</tr>
<tr>
<td>CA-4027</td>
<td>15 x 30 mm</td>
<td>±0.60 %</td>
<td>±0.10 %</td>
<td>±0.002</td>
<td>20 times/sec</td>
<td>USB2.0, RS-232C</td>
</tr>
<tr>
<td>CA-4011H</td>
<td>15 x 30 mm</td>
<td>±0.60 %</td>
<td>±0.10 %</td>
<td>±0.002</td>
<td>20 times/sec</td>
<td>USB2.0, RS-232C</td>
</tr>
<tr>
<td>CA-4010T</td>
<td>30 x 10 mm</td>
<td>±0.60 %</td>
<td>±0.10 %</td>
<td>±0.002</td>
<td>20 times/sec</td>
<td>USB2.0, RS-232C</td>
</tr>
<tr>
<td>CA-4020T</td>
<td>10 x 30 mm</td>
<td>±0.60 %</td>
<td>±0.10 %</td>
<td>±0.002</td>
<td>20 times/sec</td>
<td>USB2.0, RS-232C</td>
</tr>
<tr>
<td>CA-4101H1</td>
<td>15 x 30 mm</td>
<td>±0.60 %</td>
<td>±0.10 %</td>
<td>±0.002</td>
<td>20 times/sec</td>
<td>USB2.0, RS-232C</td>
</tr>
<tr>
<td>CA-4027T</td>
<td>10 x 30 mm</td>
<td>±0.60 %</td>
<td>±0.10 %</td>
<td>±0.002</td>
<td>20 times/sec</td>
<td>USB2.0, RS-232C</td>
</tr>
<tr>
<td>CA-4410C</td>
<td>42 x 42 x 77 mm</td>
<td>±0.60 %</td>
<td>±0.10 %</td>
<td>±0.002</td>
<td>20 times/sec</td>
<td>USB2.0, RS-232C</td>
</tr>
<tr>
<td>CA-4420C</td>
<td>42 x 42 x 77 mm</td>
<td>±0.60 %</td>
<td>±0.10 %</td>
<td>±0.002</td>
<td>20 times/sec</td>
<td>USB2.0, RS-232C</td>
</tr>
</tbody>
</table>

**CA-MP410H**

- Measurement area: 15 x 30 mm
- Measurement angle: ±0.60 %
- Accuracy (±): ±0.10 %
- Repeatability (±): ±0.002
- Measurement time: 1 time/sec (> 0.1 cd/m²)
- Communication: USB2.0, RS-232C

**CA-410 Probe**

- Measurement area: 15 x 30 mm
- Measurement angle: ±0.60 %
- Accuracy (±): ±0.10 %
- Repeatability (±): ±0.002
- Measurement time: 1 time/sec (> 0.1 cd/m²)
- Communication: USB2.0, RS-232C

**CA-410H**

- Measurement area: 15 x 30 mm
- Measurement angle: ±0.60 %
- Accuracy (±): ±0.10 %
- Repeatability (±): ±0.002
- Measurement time: 1 time/sec (> 0.1 cd/m²)
- Communication: USB2.0, RS-232C

**CA-410T**

- Measurement area: 15 x 30 mm
- Measurement angle: ±0.60 %
- Accuracy (±): ±0.10 %
- Repeatability (±): ±0.002
- Measurement time: 1 time/sec (> 0.1 cd/m²)
- Communication: USB2.0, RS-232C

**CA-4410C**

- Measurement area: 42 x 42 x 77 mm
- Measurement angle: ±0.60 %
- Accuracy (±): ±0.10 %
- Repeatability (±): ±0.002
- Measurement time: 1 time/sec (> 0.1 cd/m²)
- Communication: USB2.0, RS-232C

**CA-4420C**

- Measurement area: 42 x 42 x 77 mm
- Measurement angle: ±0.60 %
- Accuracy (±): ±0.10 %
- Repeatability (±): ±0.002
- Measurement time: 1 time/sec (> 0.1 cd/m²)
- Communication: USB2.0, RS-232C
### Main Specifications of CA-410 Probes

<table>
<thead>
<tr>
<th></th>
<th>Small Spot Probe</th>
<th>LWD Probe</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CA-VP02</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>CA-VP10</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>CA-VP10T</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Measurement Area
- **Small Spot Probe**: ø 0.1 mm
- **LWD Probe**: ø 3.0 mm

#### Accuracy
- **Accuracy ±**: ±0.002
- **Accuracy percentage ±**: ±9%

#### Measurement Distance
- **LWD Probe**: ±9%
- **Small Spot Probe**: ±9%

#### Measurement Range
- **LWD Probe**: 0.0001 to 6,000 cd/m²
- **Small Spot Probe**: ±0.004 to 10 cd/m²

#### Chromaticity
- **LWD Probe**: ±0.003
- **Small Spot Probe**: ±0.004

#### Probe Dimensions (unit: mm)

#### Measurement Speed mode
- **SLOW**, **FAST**

#### Storage Temperature/Humidity Range
- **LWD Probe**: -20°C to 60°C
- **Small Spot Probe**: -10°C to 40°C

#### Measurement Temperature/humidity/View Range
- **LWD Probe**: 35% to 65%
- **Small Spot Probe**: 20% to 80%

#### Interface
- **LWD Probe**: USB, RS-232C
- **Small Spot Probe**: USB, RS-232C

#### Weight
- **LWD Probe**: 500 g (excluding mount)
- **Small Spot Probe**: 450 g (excluding mount)

#### Probe Module (sum of light source power and probe shell in operation)**
- **LWD Probe**: 72.5 W
- **Small Spot Probe**: 64.5 W

#### Note:
1. Measured under Konica Minolta's standard light source (700 lx).
2. Luminance for monochrome is measured using a white reference panel with a luminance of 100 cd/m².
3. Measurement range is ±9% for luminance ±0.004 cd/m² and ±9% for chromaticity.
4. Measurement accuracy is ±9% for luminance ±0.004 cd/m² and ±9% for chromaticity.
5. **Flicker**: 20 times/sec (total light frequency) for luminance and (total light frequency) for chromaticity.
6. Measurement range is ±9% for luminance ±0.004 cd/m² and ±9% for chromaticity.
7. Measurement accuracy is ±9% for luminance ±0.004 cd/m² and ±9% for chromaticity.
8. Measurement range is ±9% for luminance ±0.004 cd/m² and ±9% for chromaticity.
9. **Flicker**: 20 times/sec (total light frequency) for luminance and (total light frequency) for chromaticity.
10. Measurement range is ±9% for luminance ±0.004 cd/m² and ±9% for chromaticity.
11. Measured under Konica Minolta's standard light source (constant light). If the luminance measurement greatly exceeds the upper limit, such as with a PHD light source (small data cycle), the value below the upper limit may be shown as 100%.
12. Unless otherwise specified, specifications are given for conditions established by Konica Minolta.