LTCLHP144-R
Telecentric HP illuminator, beam diameter 180 mm, red

SPECIFICATIONS

Optical specifications
Beam diameter (mm) 180
Working distance range (mm) 270 - 540
Light color, peak wavelength red, 630 nm

Mechanical specifications
Length (1) (mm) 467.2
Outer diameter (mm) 200
Mass (g) 5731

Electrical specifications
Device power ratings
DC voltage minimum (V) 12
DC voltage maximum (V) 24
Power consumption (W) < 2.5
Max LED forward current (2) (mA) 350
Cable CB244P1500 included

LED power ratings
Forward voltage (typical) (3) (V) 2.4
Forward voltage (max) (3) (V) 3.00
Max pulse current (4) (mA) 2000

Compatible telecentric lenses
Compatibility TC23130, TC24144, TC4MH144-x, TC16MH144-x, TC24X144

Eye safety
Risk group according to CEI EN 62471:2010 Exempt

NOTES
1. Opto Engineering® recommends green light for high precision measurement applications.
2. Nominal value, with no spacers in place.

COMPATIBLE PRODUCTS

TC23130 Bi-telescopic lens for 2/3'' detectors, magnification 0.068 x, C-mount
TC12144 Bi-telescopic lens for 1/2'' detectors, magnification 0.044 x, C-mount
TC23144 Bi-telescopic lens for 2/3'' detectors, magnification 0.061 x, C-mount

TC2MH144-C High resolution telecentric lens for 1'' detectors, magnification 0.089x, C-mount
TC2MH144-F High resolution telecentric lens for 1'' detectors, magnification 0.089x, F-mount
TC2MH144-E High resolution telecentric lens for 1'' detectors, magnification 0.089x, mount: M42x1 F0=16
TC4MH144-C High resolution telecentric lens for 1.2'' detectors, magnification 0.122x, C-mount
TC4MH144-F High resolution telecentric lens for 1.2'' detectors, magnification 0.122x, F-mount
TC4MH144-E High resolution telecentric lens for 1.2'' detectors, magnification 0.122x, mount: M42x1 F0=16
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TC16M144</td>
<td>Telecentric lens for 35 mm detectors, magnification 0.245 x, F-mount</td>
</tr>
<tr>
<td>TC16M144-Q</td>
<td>Telecentric lens for 35 mm detectors, magnification 0.245 x, mount M58x0.75 FD = 6.56</td>
</tr>
<tr>
<td>TC12K144</td>
<td>Telecentric lens for 12k and 16k linescan cameras, magnification 0.439 x, M72 x 0.75 mount</td>
</tr>
<tr>
<td>TCDP2X144</td>
<td>Double magnification bi-telecentric lens, for detectors up to 2/3&quot;</td>
</tr>
<tr>
<td>TCDP4X144</td>
<td>Double magnification bi-telecentric lens, for detectors up to 2/3&quot;</td>
</tr>
<tr>
<td>CMHO144</td>
<td>Clamping mechanics for TCxx130, TCxx144 lenses and LTCLHP144-X illuminators</td>
</tr>
<tr>
<td>LTSCHP1W-R</td>
<td>Replacement LED module, red</td>
</tr>
<tr>
<td>CB244P1500</td>
<td>Power cable, side 1 M8 connector straight, side 2 cable end - 2 m - type 1 labels</td>
</tr>
<tr>
<td>CB244P1500L</td>
<td>Power cable, side 1 M8 connector angled, side 2 cable end - 2 m - type 1 labels</td>
</tr>
<tr>
<td>CPDPH01</td>
<td>Diffuser cap for LTCLHP illuminators</td>
</tr>
<tr>
<td>LED1W-R</td>
<td>Replacement LED source, red</td>
</tr>
</tbody>
</table>