

TCCXQ011-W

Telecentric assembly with coaxial illumination for 2/3" detectors, magnification 0.11x, white

SPECIFICATIONS

Optical specifications

| | | |
|------------------|------|-------|
| Magnification | (x) | 0.110 |
| Image circle Ø | (mm) | 11 |
| Phase adjustment | | |
| Object distance | (mm) | 90.1 |

Object field of view

| | | |
|--|-----------|---------------|
| with 1/3" detector (4.8 x 3.6 mm) | (mm x mm) | 43.6 x 32.7 |
| with 1/2" detector (6.4 x 4.8 mm) | (mm x mm) | 58.2 x 43.6 |
| with 1/1.8" detector (7.13 x 5.37 mm) | (mm x mm) | 64.82 x 48.45 |
| with 2/3" - 5 MP detector (8.45 x 7.07 mm) | (mm x mm) | 77.27 x 64.45 |

Electrical specifications

| | | |
|------------------------------|--|-------|
| Light color, peak wavelength | | white |
|------------------------------|--|-------|

Device power ratings

| | | |
|-----------------------|------|-------|
| DC voltage (min) | (V) | 12 |
| DC voltage (max) | (V) | 24 |
| Power consumption | (W) | < 2.5 |
| Max LED fwd current 1 | (mA) | 350 |

LED power ratings

| | | |
|-----------------------------|------|------|
| Forward voltage (typical) 2 | (V) | 2.78 |
| Forward voltage (max) 2 | (V) | - |
| Max pulse current 3 | (mA) | 2000 |

Dimensions

| | | |
|--------|------|-------|
| Mount | | C |
| Length | (mm) | 415.6 |
| Height | (mm) | 144 |
| Width | (mm) | 433.1 |
| Mass | (g) | 2389 |

Eye safety

| | | |
|---|--|--------------|
| Risk group according to CEI EN 62471:2010 | | Risk group 1 |
|---|--|--------------|

NOTES

- Used in continuous (not pulsed) mode.
- At max forward current. Tolerance is ±0.06V on forward voltage measurements.
- At pulse width ≤ 10 ms, duty cycle ≤ 10% condition. Built-in electronics board must be bypassed (see tech info).

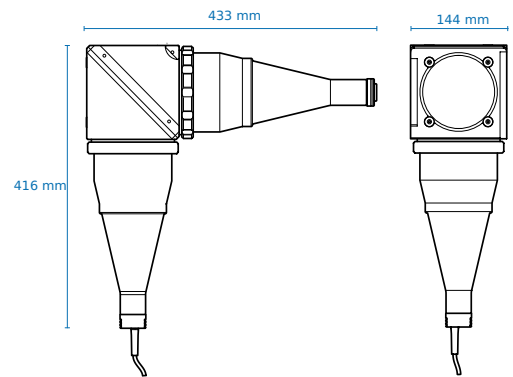
COMPATIBLE PRODUCTS

Despite the efforts made to generate an error-free compatibility list, we always recommend to consult the Opto Engineering® technical support department before purchasing a compatible product. Opto Engineering® shall not be liable for any damage or malfunctioning caused by the incorrect selection of a compatible product.

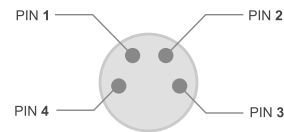


LTDV series

Strobe controllers



CONNECTION



Device side - male pins
Front view

Pinout reference

| Pin | Function |
|-----|-------------------------|
| 1 | Earth |
| 2 | GND |
| 3 | LED Anode |
| 4 | Power supply (+12÷24 V) |





CMHO series

Clamping mechanics

CMHO080 Clamping mechanics for TCxx072, TCxx080, LTCLHP080-X illuminators and PCxx030XS



LTSCHP series

High-performance replacement LED modules

LTSCHP1W-W Replacement LED module, white



PS series

Power supplies

RT-SDR-120-24 24VDC DIN rail power supply



LTIC series

Light intensity controllers

LTICOBUL1000CH1-24VUSTB 24VDC analog lighting controller 1 channel, UK power cord, Illumination cable, side A SM 3 way male connector, side B terminal blocks connector, 24V - 3m

LTICOBUL1000CH1-24VEUTB 24VDC analog lighting controller 1 channel, UK power cord, Illumination cable, side A SM 3 way male connector, side B terminal blocks connector, 24V - 3m

LTICOBUL1000CH1-24VUKTB 24VDC analog lighting controller 1 channel, UK power cord, Illumination cable, side A SM 3 way male connector, side B terminal blocks connector, 24V - 3m



COE-G series

GeniCam@ PoE cameras

COE-032-M-POE-040-IR-C Area Scan camera IMX265, CMOS, Global shutter, 2048 x 1536, 3.1 MP, 3.45 pix, 1/1.8", Gray, 37.5 fps, GigE, POE, C - mount, Glass filter

COE-032-C-POE-040-IR-C Area Scan camera IMX265, CMOS, Global shutter, 2048 x 1536, 3.1 MP, 3.45 pix, 1/1.8", Color, 37.5 fps, GigE, POE, C - mount, Infrared cut filter

COE-063-M-POE-040-IR-C-B Area Scan camera IMX178, CMOS, Rolling shutter, 3072 x 2048, 6.3 MP, 2.4 pix, 1/1.8", Gray, 17 fps, GigE, POE, C - mount, Glass filter

COE-063-C-POE-040-IR-C Area Scan camera IMX178, CMOS, Rolling shutter, 3072 x 2048, 6.3 MP, 2.4 pix, 1/1.8", Color, 17 fps, GigE, POE, C - mount, Infrared cut filter

COE-122-M-POE-041-IR-C Area Scan camera IMX226, CMOS, Rolling shutter, 4024 x 3036, 12.2 MP, 1.85 pix, 1/1.7", Gray, 9.6 fps, GigE, POE, C - mount, Glass filter

COE-122-C-POE-041-IR-C Area Scan camera IMX226, CMOS, Rolling shutter, 4024 x 3036, 12.2 MP, 1.85 pix, 1/1.7", Color, 9.6 fps, GigE, POE, C - mount, Infrared cut filter

COE-023-M-POE-050-IR-C Area Scan camera PYTHON 2000, CMOS, Global shutter, 1920 x 1200, 2.3 MP, 4.8 pix, 2/3", Gray, 51 fps, GigE, POE, C - mount, Glass filter

COE-023-C-POE-050-IR-C Area Scan camera PYTHON 2000, CMOS, Global shutter, 1920 x 1200, 2.3 MP, 4.8 pix, 2/3", Color, 51 fps, GigE, POE, C - mount, Infrared cut filter

COE-050-M-POE-050-IR-C Area Scan camera IMX264, CMOS, Global shutter, 2448 x 2048, 5 MP, 3.45 pix, 2/3", Gray, 23.5 fps, GigE, POE, C - mount, Glass filter

COE-050-C-POE-050-IR-C Area Scan camera IMX264, CMOS, Global shutter, 2448 x 2048, 5 MP, 3.45 pix, 2/3", Color, 23.5 fps, GigE, POE, C - mount, Infrared cut filter



COE-U series

USB 3.0 GeniCam@ cameras

COE-063-M-USB-040-IR-C Area Scan camera IMX178, CMOS, Rolling shutter, 3072 x 2048, 6.3 MP, 2.4 pix, 1/1.8", Gray, 42 fps, USB 3.0, C - mount, Glass filter

COE-063-C-USB-040-IR-C Area Scan camera IMX178, CMOS, Rolling shutter, 3072 x 2048, 6.3 MP, 2.4 pix, 1/1.8", Color, 42 fps, USB 3.0, C - mount, Infrared cut filter

COE-050-M-USB-050-IR-C Area Scan camera IMX264, CMOS, Global shutter, 2448 x 2048, 5 MP, 3.45 pix, 2/3", Gray, 35 fps, USB 3.0, C - mount, Glass filter



mvBlueFOX3-2 series

USB3 vision camera with Sony Pregius CMOS sensors

RT-mvBF3-2032a USB3 Vision camera with Sony Pregius CMOS sensor IMX265

| | |
|--------------------------------|---|
| RT-mvBF3-2032 | USB3 Vision camera with Sony Pregius CMOS sensor IMX252 |
| RT-mvBF3-2064 | Usb3 vision camera with sony pregius cmos sensor imx178 |
| RT-mvBF3-2051a | USB3 Vision camera with Sony Pregius CMOS sensor IMX264 |
| RT-mvBF3-2051 | USB3 Vision camera with Sony Pregius CMOS sensor IMX250 |



mvBlueCOUGAR series

GigE & Dual GigE Vision cameras

| | |
|--------------------------------|--|
| RT-mvBC-X104i | Camera with interface GigE (1GB/s), sensor size 1/1.8", mpixel 3.19, resolution 2064 x 1544, sensor name IMX265, sensor type CMOS |
| RT-mvBC-XD104h | Camera with interface Dual GigE (2GB/s), sensor size 1/1.8", mpixel 3.19, resolution 2064 x 1544, sensor name IMX252, sensor type CMOS |
| RT-mvBC-X105b | Camera with interface GigE (1GB/s), sensor size 2/3", mpixel 5.07, resolution 2464 x 2056, sensor name IMX264, sensor type CMOS |
| RT-mvBC-XD105a | Camera with interface Dual GigE (2GB/s), sensor size 2/3", mpixel 5.01, resolution 2448 x 2048, sensor name IMX250, sensor type CMOS |



Accessories

Accessories and add-ons to make the most of Opto Engineering lenses.

| | |
|--------------------------------|--|
| RT-mvBC-X104iC | CMOS camera GIGE, 2064 x 1544 color, 1/1.8", 37 Hz, IR cut, C-mount, I/O |
| RT-mvBC-X105bC | CMOS camera GIGE, 2464 x 2056 Colour sensor, 2/3", 23.5 Hz, IR cut, C-mount, I/O |