

# PCPW013

Polyview lens for 1/3" detectors

## SPECIFICATIONS

|   |      |             |
|---|------|-------------|
| Detector type                                 |      | 1/3"        |
| Image circle Ø                                | (mm) | 3.6         |
| Max. object diameter for SIDE inspection      |      |             |
| with object height 20 mm                      | (mm) | 30          |
| with object height 5 mm                       | (mm) | 50          |
| Max object diameter for SIDE + TOP inspection |      |             |
| with object height 10 mm                      | (mm) | 30          |
| Optical specifications                        |      |             |
| Wavelength range                              | (nm) | 450 ... 650 |
| Working distance                              | (mm) | 20 ... 40   |
| CTF @ 50 lp/(mm)                              | (%)  | > 60        |
| F/#   |      | 4-12        |
| Mechanical specifications                     |      |             |
| Diameter                                      | (mm) | 140         |
| Length  | (mm) | 224         |
| Mass  | (g)  | 990         |
| Mount   |      | C           |

Last update: 2017-12-15

## 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.



LTRNOB series

LED ring illuminators - oblique type

|            |   |
|------------|---|
| LTRN050R45 | Ring LED illuminator, inner diam. 15.2 mm, oblique type, red 630 nm     |
| LTRN050G45 | Ring LED illuminator, inner diam. 15.2 mm, oblique type, green 525 nm   |
| LTRN050B45 | Ring LED illuminator, inner diam. 15.2 mm, oblique type, blue 470 nm    |
| LTRN050W45 | Ring LED illuminator, inner diameter 15.2 mm, oblique type, white       |
| LTRN245R45 | Ring LED illuminator, inner diameter 117 mm, oblique type, red 630 nm   |
| LTRN245G45 | Ring LED illuminator, inner diameter 117 mm, oblique type, green 525 nm |
| LTRN245B45 | Ring LED illuminator, inner diameter 117 mm, oblique type, blue 470 nm  |
| LTRN245W45 | Ring LED illuminator, inner diameter 117 mm, oblique type, white        |



OI series

Replacement ocular lenses

|         |  |
|---------|--|
| OIPW013 | Replacement ocular lens for PCPW013 optics |
|---------|--|



COE-G series

GeniCam® PoE cameras

|                        |  |
|------------------------|--|
| COE-003-M-POE-020-IR-C | Area Scan camera RJ33B4AD0DT, CCD, Global shutter, 640 x 480, 0.3 MP, 7.4 pix, 1/3", Gray, 200 fps, GigE, POE, C - mount, Glass filter |
|------------------------|--|



All product specifications and data are subject to change without notice to improve reliability, functionality, design or other. Photos and pictures are for illustration purposes only.

|                          |   |
|--------------------------|---|
| COE-003-C-POE-020-IR-C   | Area Scan camera RJ33B4AD0DT, CCD, Global shutter, 640 x 480, 0.3 MP, 7.4 pix, 1/3", Color, 200 fps, GigE, POE, C - mount, Infrared cut filter  |
| COE-012-M-POE-020-IR-C   | Area Scan camera RJ33J4CA3DE, CCD, Global shutter, 1280 x 960, 1.2 MP, 3.75 pix, 1/3", Gray, 30 fps, GigE, POE, C - mount, Glass filter         |
| COE-012-C-POE-020-IR-C   | Area Scan camera RJ33J4CA3DE, CCD, Global shutter, 1280 x 960, 1.2 MP, 3.75 pix, 1/3", Color, 30 fps, GigE, POE, C - mount, Infrared cut filter |
| COE-050-M-POE-023-IR-C   | Area Scan camera MT9P031, CMOS, Rolling shutter, 2592 x 1944, 5 MP, 2.2 pix, 1/2.5", Gray, 14 fps, GigE, POE, C - mount, Glass filter           |
| COE-106-M-POE-031-IR-C-2 | Area Scan camera MT9J003, CMOS, Rolling shutter, 3840 x 2748, 10.6 MP, 1.67 pix, 1/2.3", Gray, 11 fps, GigE, POE, C - mount, Glass filter       |
| COE-106-C-POE-031-IR-C   | Area Scan camera MT9J003, CMOS, Global shutter, 3840 x 2748, 10.6 MP, 1.67 pix, 1/2.3", Color, 7 fps, GigE, POE, C - mount, Infrared cut filter |



#### COE-U series

USB 3.0 GenICam® cameras

|                        |   |
|------------------------|---|
| COE-016-M-USB-021-IR-C | Area Scan camera IMX273, CMOS, Global shutter, 1440 x 1080, 1.6 MP, 3.45 pix, 1/2.9", Gray, 165 fps, USB 3.0, C - mount, Glass filter         |
| COE-016-C-USB-021-IR-C | Area Scan camera IMX273, CMOS, Global shutter, 1440 x 1080, 1.6 MP, 3.45 pix, 1/2.9", Color, 165 fps, USB 3.0, C - mount, Infrared cut filter |
| COE-050-C-USB-023-IR-C | Area Scan camera AR0521, CMOS, Rolling shutter, 2592 x 1944, 5 MP, 2.2 pix, 1/2.5", Color, 31 fps, USB 3.0, C - mount, Infrared cut filter    |



#### mvBlueFOX3-2 series

USB3 vision camera with Sony Pregius CMOS sensors

|               |   |
|---------------|---|
| RT-mvBF3-2004 | USB3 vision camera with Sony Pregius CMOS sensor IMX287 |
| RT-mvBF3-2016 | USB3 vision camera with Sony Pregius CMOS sensor IMX273 |



#### mvBlueCOUGAR series

GigE & Dual GigE Vision cameras

|                |  |
|----------------|--|
| RT-mvBC-X100f  | Camera with interface GigE (1GB/s), sensor size 1/2.9", mpixel 0.4, resolution 728 x 544, sensor name IMX287, sensor type CMOS         |
| RT-mvBC-X102f  | Camera with interface GigE (1GB/s), sensor size 1/2.9", mpixel 1.58, resolution 1456 x 1088, sensor name IMX273, sensor type CMOS      |
| RT-mvBC-XD102f | Camera with interface Dual GigE (2GB/s), sensor size 1/2.9", mpixel 1.58, resolution 1456 x 1088, sensor name IMX273, sensor type CMOS |
| RT-mvBC-X105   | Camera with interface GigE (1GB/s), sensor size 1/2.5", mpixel 5.04, resolution 2592 x 1944, sensor name MT9P031, sensor type CMOS     |
| RT-mvBC-X1010  | Camera with interface GigE (1GB/s), sensor size 1/2.3", mpixel 10.66, resolution 3856 x 2764, sensor name MT9J003, 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 |