

PCCD012

Wide lateral viewing angle catadioptric lens, for 1/2" detectors

SPECIFICATIONS

Detector type		1/2"
Image circle Ø	(mm)	4.8
Field of view (diameter x height)		
Minimum	(mm x mm)	7.5 x 5
Typical	(mm x mm)	15 x 10
Maximum	(mm x mm)	25 x 17
Extended with PCCDLFAT	(mm x mm)	35 x 26
Optical specifications		
Wavelength range	(nm)	450 .. 650
Working distance	(mm)	28 .. 53
Working distance with PCCDLFAT	(mm)	5 .. 11
CTF @ 50 lp/mm	(%)	> 30
F/#		8-32
Mechanical specifications		
Diameter	(mm)	143
Length	(mm)	110.5
Mass	(g)	980
Mount		C

Last update: 2017-12-15

NOTES

- PCCDLFAT is an accessory designed to extend the FOV of PCCD optics and inspect objects with even larger diameters (beyond 25 mm)

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

LTRN165R45	Ring LED illuminator, inner diameter 136 mm, oblique type, red 630 nm
LTRN165G45	Ring LED illuminator, inner diameter 136 mm, oblique type, green 525 nm
LTRN165B45	Ring LED illuminator, inner diameter 136 mm, oblique type, blue 470 nm
LTRN165W45	Ring LED illuminator, inner diameter 136 mm, oblique type, white
LTRN245R35	Ring LED illuminator, inner diameter 148 mm, oblique type, red 630 nm
LTRN245G35	Ring LED illuminator, inner diameter 148 mm, oblique type, green 525 nm
LTRN245B35	Ring LED illuminator, inner diameter 148 mm, oblique type, blue 470 nm
LTRN245W35	Ring LED illuminator, inner diameter 148 mm, oblique type, white



LTRNOBHP series

High power LED ring illuminators, oblique type

LTRNHP165R45	High power LED ring illuminators, oblique type, inner diam. 132,5mm, red, 625 nm
LTRNHP165G45	High power LED ring illuminators, oblique type, inner diam. 132,5mm, green, 525 nm
LTRNHP165B45	High power LED ring illuminators, oblique type, inner diam. 132,5mm, blue, 475 nm



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.

LTRNHP165W45 High power LED ring illuminators, oblique type, inner diam. 132,5mm, white, 6200 k



CMHO series

Clamping mechanics

CMHOPCCD Clamping mechanics for PCCD 0xx lenses



OI series

Replacement ocular lenses

OICD012 Replacement ocular lens for PCCD012 optics



Accessories

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

PCCDLFAT Interchangeable attachment for extra-wide PCCD field of view

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



COE-G series

GenlCam@ PoE cameras

COE-013-M-POE-030-IR-C Area Scan camera PYTHON 1300, CMOS, Global shutter, 1280 x 1024, 1.3 MP, 4.8 pix, 1/2", Gray, 90 fps, GigE, POE, C - mount, Glass filter

COE-013-C-POE-030-IR-C Area Scan camera PYTHON 1300, CMOS, Global shutter, 1280 x 1024, 1.3 MP, 4.8 pix, 1/2", Color, 90 fps, GigE, POE, C - mount, Infrared cut filter

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-U series

USB 3.0 GenlCam@ cameras

COE-013-M-USB-030-IR-C Area Scan camera PYTHON 1300, CMOS, Global shutter, 1280 x 1024, 1.3 MP, 4.8 pix, 1/2", Gray, 170 fps, USB 3.0, C - mount, Glass filter

COE-013-C-USB-030-IR-C Area Scan camera PYTHON 1300, CMOS, Global shutter, 1280 x 1024, 1.3 MP, 4.8 pix, 1/2", Color, 90 fps, USB 3.0, C - mount, Infrared cut filter

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



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



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
