



LTDC0088/0176-120

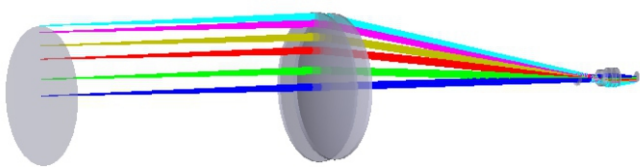
Dual-Port Dual-Magnification Telecentric Lens

Designed for high-precision inspection of large parts

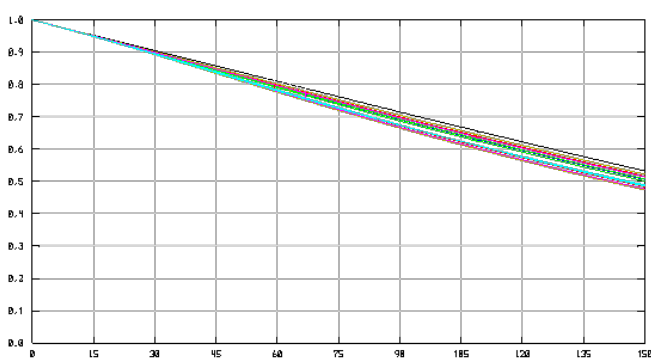
KEY FEATURES

- Dual-port bi-telecentric design for two cameras at different magnifications
- Large FOV and high resolution for one-shot inspection of large parts
- Low distortion, large FOV, and deep depth of field

OPTICAL PATH DIAGRAM



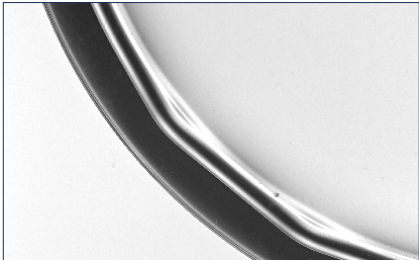
MTF CURVE



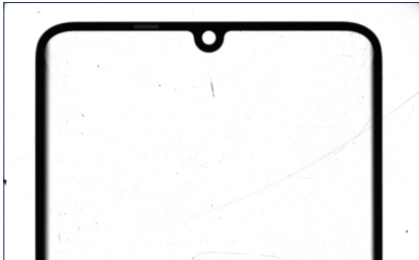
SAMPLE IMAGES



Watch Glass Inspection - 0.16X



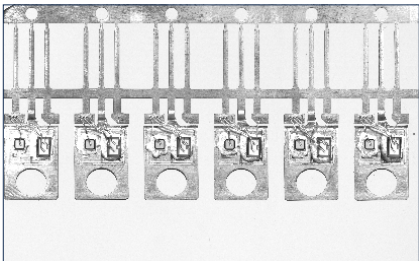
Watch Glass Inspection - 0.7X



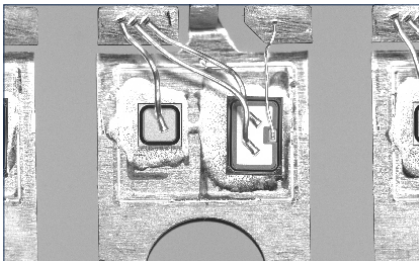
Phone Screen Size Inspection - 0.16X



Phone Screen Size Inspection - 0.7X



Chip Inspection - 0.16X



Chip Inspection - 0.7X

ACCESSORIES



Ring Light



Single-Channel Dimmer



100 mm Telecentric Light



Light Controller

LTDC0088/0176-120

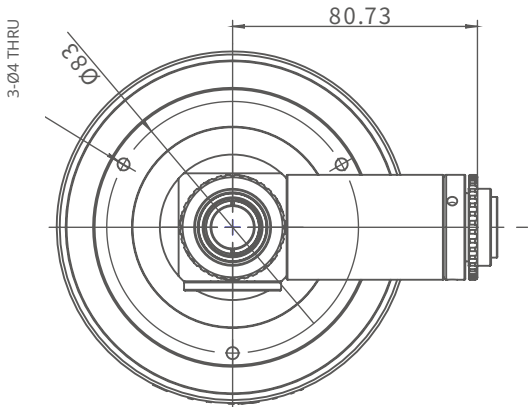
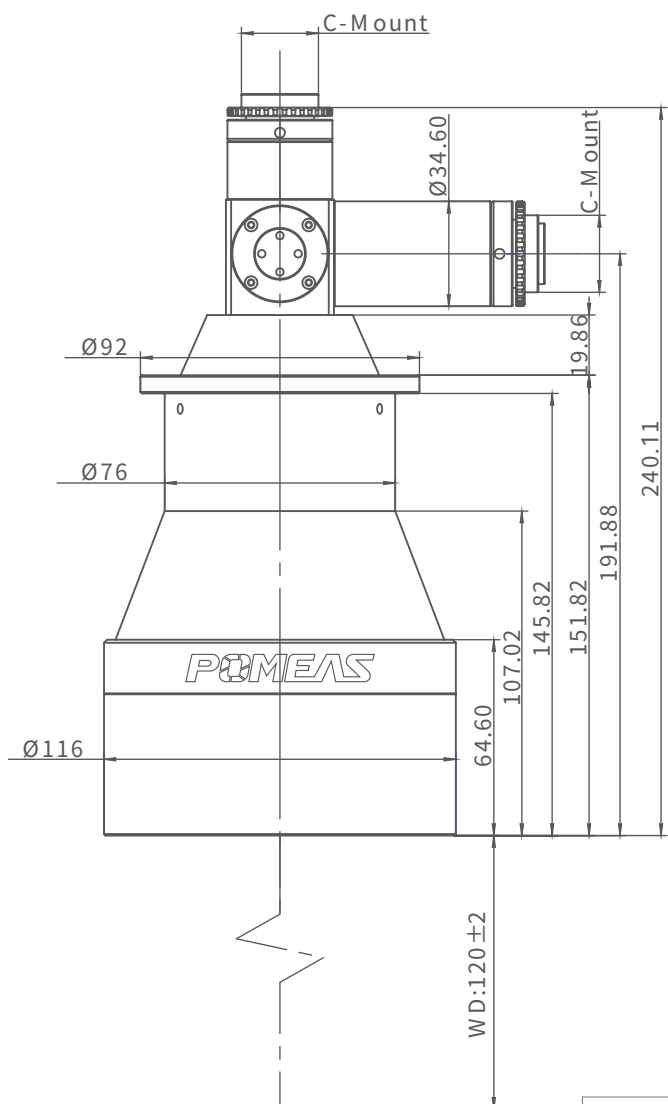
SPECIFICATIONS

Magnification		0.088X	0.176X
Working Distance		120mm	120mm
Resolution		30.5μm	30.5μm
Depth of Field*1		16mm	7.2mm
N.A.		0.011	0.011
F.NO.		4.46	8
TV Distortion		<0.05%	<0.05%
Object Size	1/4"	36.4mm×27.3mm	18.2mm×13.6mm
	1/3"	54.5mm×40.9mm	27.3mm×20.5mm
	1/2.5"	65.3mm×40.0mm	32.6mm×24.5mm
	1/2.3"	70.0mm×52.5mm	35.0mm×26.3mm
	1/2"	72.7mm×54.5mm	36.4mm×27.3mm
	1/1.8"	81.2mm×60.9mm	40.6mm×30.5mm
	2/3"	\	50.0mm×37.5mm
Sensor Size		Max. 2/3" Sensor	
Mount Type		C-Mount	C-Mount
Operating Temp.		-10°C~+50°C	-10°C~+50°C

*1 Theoretical value (CoC Ø0.04 mm). For best results, use half of the stated range.

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PRODUCT DIMENSIONS



Unit: mm	Model	LTDC0088/0176-120
FOV:	Name	Dual-Mag. Telecentric Lens
	Date	2019/11/2

