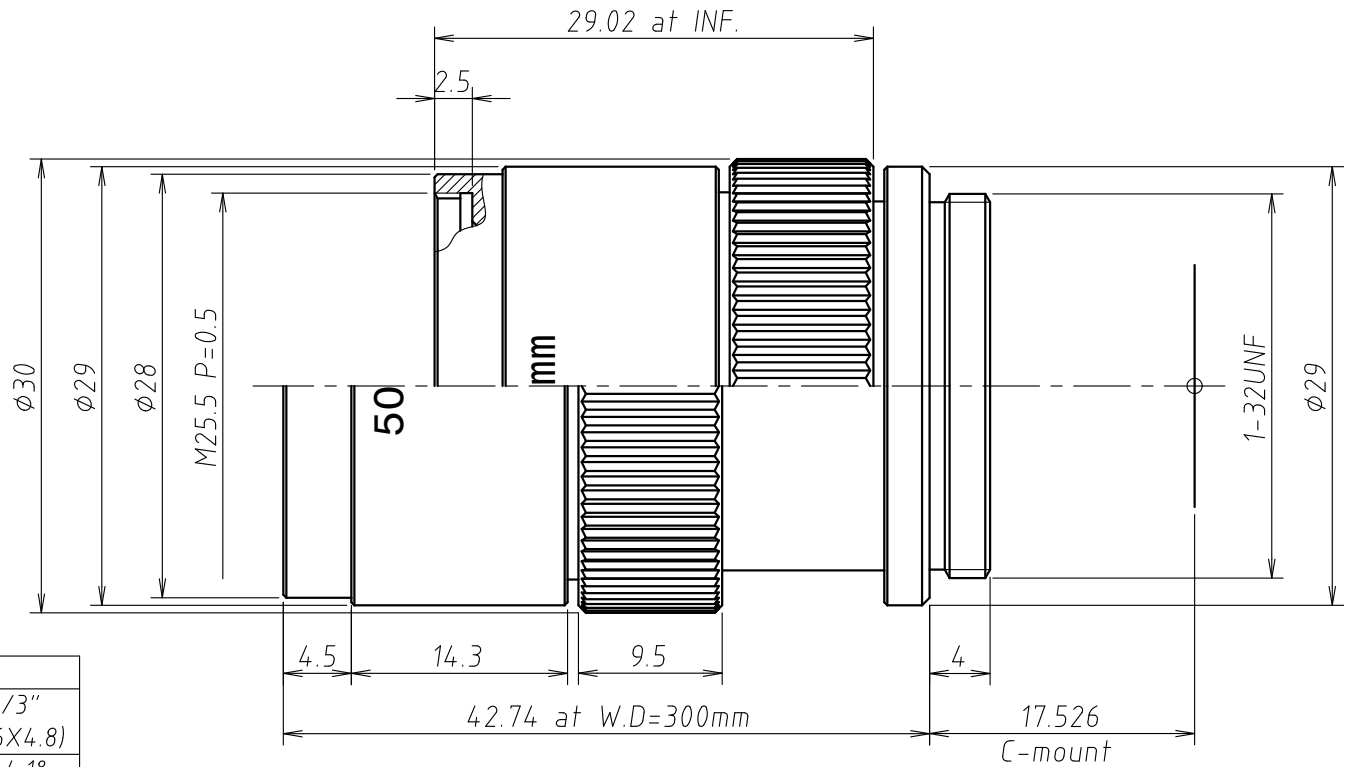


Lens Specification	
Focal length	50.22mm±5%
Back focal length	21.88mm±0.5mm at INF
Mechanical back	-
Aperture ratio	F/2.9 ±5%
Image size	1.1" (10.56mm X14.08mm)
Magnification	-
Distortion	0.9%
Angle of view at INF.	
Vertical	12.0°
Horizontal	15.9°
Diagonal	19.8°
Resolution	
Center	100LP/mm
Corner(70%)	63LP/mm
Pupil positions	
Entrance pupil	20.33mm (Front lens)
Exit pupil	-34.31mm (Image plane)
Principal points	
Object space	-2.89mm (Front lens)
Image space	-50.19mm (Image plane)
Coating (λ =546nm)	
All surfaces are antireflection coated. MgF2 single coated.	



Angle of view at INF.				
Image size	1" (9.6X12.8)	2/3" (6.6X8.8)	1/2" (4.8X6.4)	1/3" (3.6X4.8)
Vertical	10.9°	7.5°	5.5°	4.1°
Horizontal	14.5°	10.0°	7.3°	5.5°
Diagonal	18.0°	12.5°	9.1°	6.8°

Note:  
The resolution stated above indicates the resolution at W.D.1500mm by design

		<b>UNIVERSE KOGAKU (AMERICA), INC.</b> 116 Audrey Avenue, Oyster Bay, New York 11771 Phone: (516)624-2444/Fax: (516)624-3109	
TITLE	50mm F/2.9 1.1" HIGH RESOLUTION LENS W/C-MOUNT		DRAWN H.K.
P/NO.	VX990		CHECKED Y.M.
Mfg.NO.	VX990A-Y01-2	UOI VX990	SHEET 1 OF 1 REV C

	03/31/2026	Update
	04/26/2016	Modified title.
	01/30/2012	