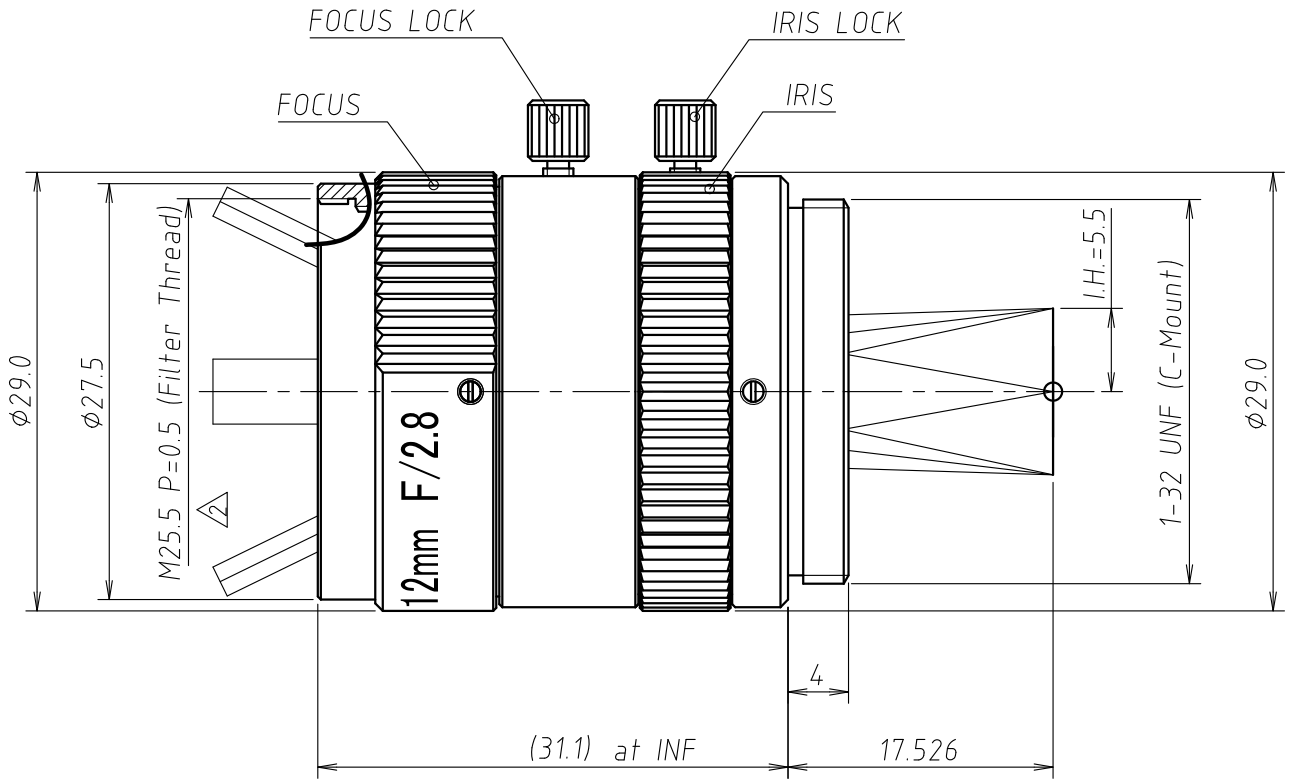
Lens Specification	
Focal length	12.08 mm (at λ=250nm)
Back focal length	15.44 mm
Mechanical back	13.526 mm
Aperture ratio	F/2.8～F/16
Image size	2/3" (6.6mm× 8.8mm)
Magnification	
Distortion	-6.8 %
Angle of view at INF.	
Vertical	31.3 °
Horizontal	41.7 °
Diagonal	52.1 °
Resolution	
Center	
Corner	
Pupil positions from the lens surface.	
Entrance pupil	9.70 mm (Front lens)
Exit pupil	-30.02 mm (Image plane)
Principal points from the lens surface.	
Object space	19.92 mm (Front lens)
Image space	-12.08 mm (Image plane)
Coating	(λ=250nm)
All surfaces are antireflection coated. MgF2 single coated.	

Specifications above are design specifications.

Angle of view at INF.			
Image size	1/1.8" (5.2X6.9)	1/2" (4.8X6.4)	1
Vertical	24.6°	22.7°	
Horizontal	32.7°	30.3°	
Diagonal	40.9°	37.9°	

Note:

1. Mini. Working Dist.
   29.6mm (at λ=250nm)
   49.2mm (at λ=300nm)
   68.2mm (at λ=350nm)
   82.5mm (at λ=390nm)
3 2. Operating temperature
   -10°C ～ +50°C
3 3. Storage temperature
   -20°C ～ +60°C



4		
3	05/12/2026	Added note
2	04/20/2022	Error correction
1	03/20/2019	added image size.
	07/28/2014	

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TITLE: 12mm F/2.8 UV LENS

P/NO.: UV1228CM

Mfg.NO. VH420A-Y01-3 | SHEET 1 OF 1 | REV D