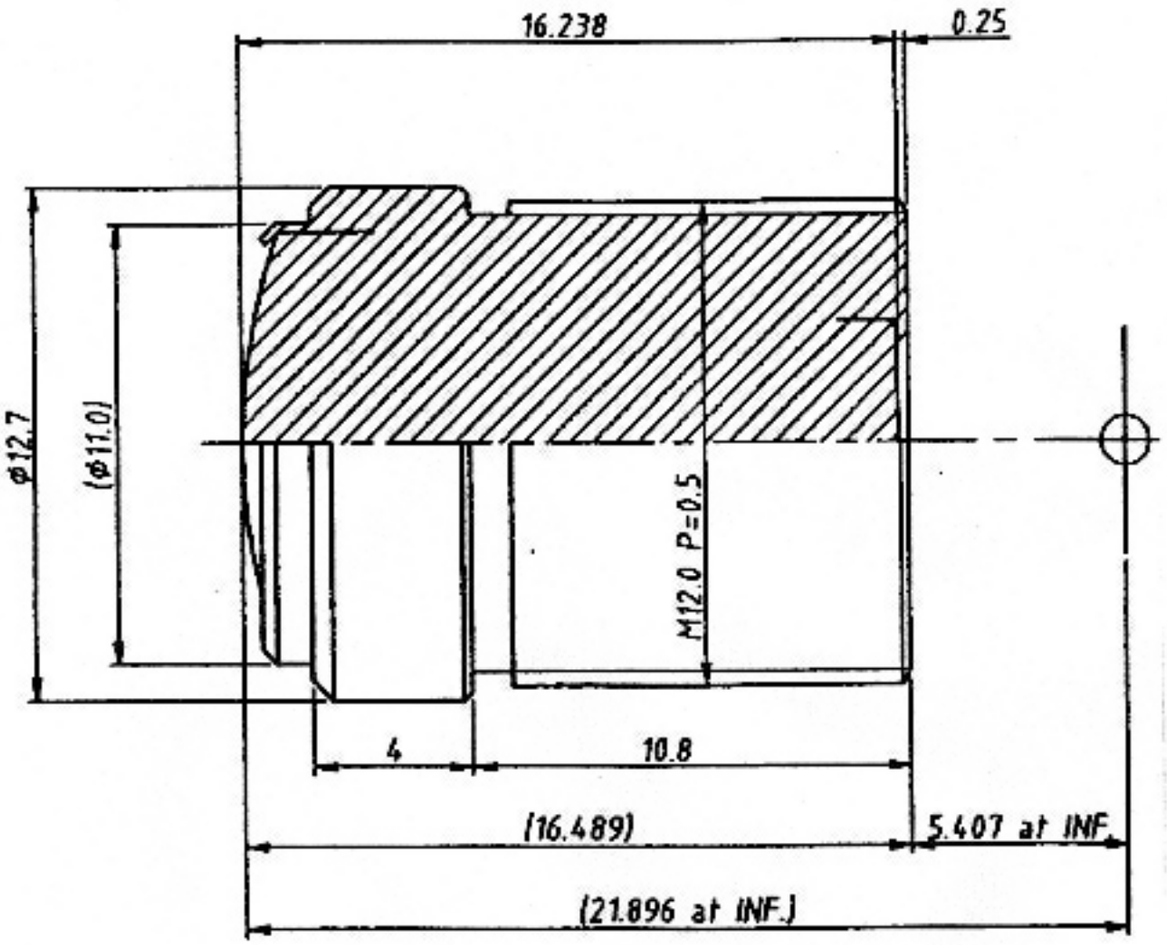
Lens Specification	
Focal length	3.090mm±5%
Back focal length	5.657mm±5%
Mechanical back	5.407mm±0.3mm
Aperture ratio	F/2.0±5%
Image size	1/3"(3.6mmX4.8mm)
Magnification	
Distortion	-49.4%
Angle of view at INF.	
Vertical	69.1°
Horizontal	95.2°
Diagonal	125.0°
Resolution	
Center	80LP/mm
Corner	25LP/mm
Pupil positions from the lens surface.	
Entrance pupil	3.349mm (Front lens)
Exit pupil	-21.600mm (Rear lens)
Principal points from the lens surface.	
Object space	8.088mm (Front lens)
Image space	2.567mm (Rear lens)
Coating	(λ=546nm)
All surfaces are antireflection coated. MgF2 single coated.	



Angle of view at INF.
Image size:1/4"(2.7mmX3.6mm)
Vertical :51.0°
Horizontal:69.1°
Diagonal :88.4°

4			
3			
2			
1			
	5/27/03		

UNIVERSE KOGAKU (AMERICA), INC.
116 Audrey Avenue, Oyster Bay, New York 11771
Phone: (516) 624-2444/Fax: (516) 624-3109

TITLE: 3.1mm F/2.0 CCD LENS

P/NO.: VL-3120M12

Mfg. NO.

SHEET 1 OF 1

REV A