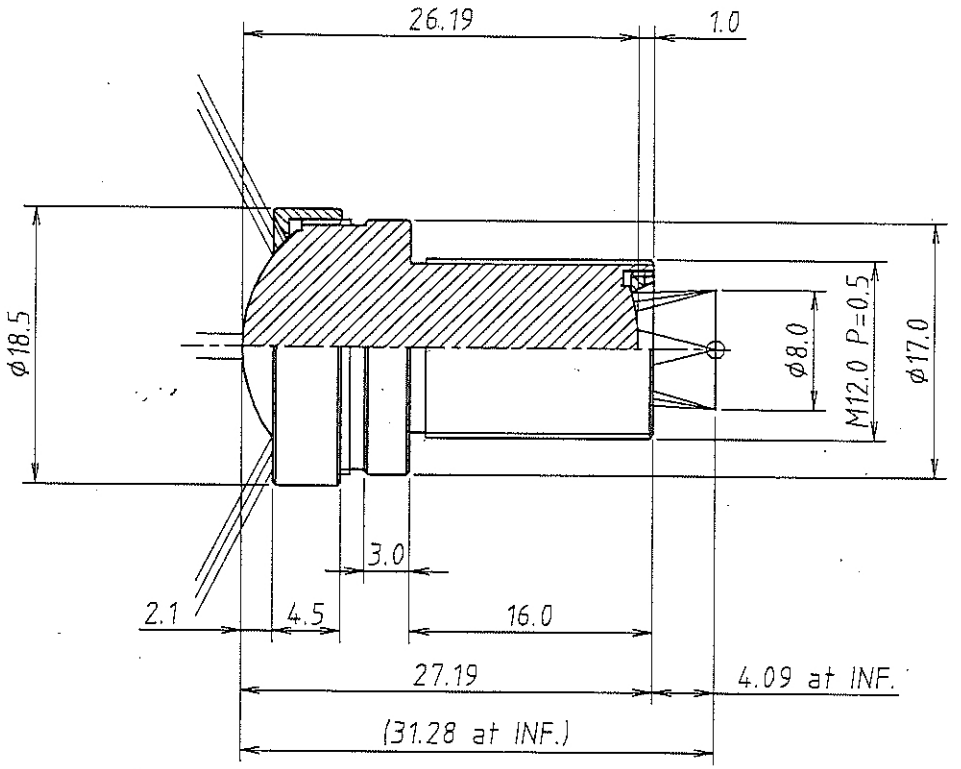
Lens Specification		
Focal length	3.31mm±5%	
Back focal length	5.09mm±5%	
Mechanical back	4.09mm±0.3mm	
Aperture ratio	F/2.0	
Image size	1/2"CCD (4.8× 6.4)	
Magnification	-	
Distortion	-37.5%	
Angle of view at INF.		
Vertical	80.5°	
Horizontal	104.3°	
Diagonal	125.3°	
Resolution		
Center	200LP/mm	
Corner	80LP/mm	
Pupil positions from the lens surface.		
Entrance pupil	6.07mm	(Front lens)
Exit pupil	-23.05mm	(Image plane)
Principal points from the lens surface.		
Object space	8.92mm	(Front lens)
Image space	-3.31mm	(Image plane)
Coating		(λ =546nm)
All surfaces are antireflection coated. MgF2 single coated.		



△3 1/3"CCD(3.6x4.8)
Angle of view at INF.

Vertical	61.3°
Horizontal	80.5°
Diagonal	98.6°
Distortion	-22.0%

△4 1/4"CCD(2.7x3.6)
Angle of view at INF.

Vertical	46.3°
Horizontal	61.3°
Diagonal	75.8°
Distortion	-12.5%

△1 1/5"CCD(2.1x2.8)
Angle of view at INF.

Vertical	36.2°
Horizontal	48.0°
Diagonal	59.6°
Distortion	-7.7%

△5 3.24x5.76(D=6.609)
Angle of view at INF.

Vertical	55.3°
Horizontal	95.1°
Diagonal	107.2°
Distortion	-26.4%

LM030D-NCM

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