ED-LENS-M12-170500-12

Datasheet

by EDA Technology Co., Ltd

built: 2025-08-01

ED-LENS-M12-170500-12

1/1.7" 12 Megapixel wide range M12 lens

Overview

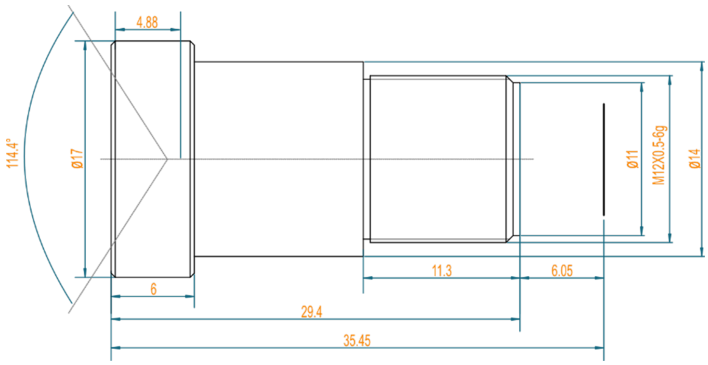
ED-LENS-M12-170500-12 lens can be used on various cameras with M12 interfaces. This 5mm M12 lens provides a 90° Horizontal Field of View on 1/1.7" sensors.

Specifications

Resolution		12 Megapixel		
Optical format		1/1.7"		
TTL (Total Track Length)		35.45mm		
EFL (Effective Focal Length)		5.0mm		
Aperture		F2.0		
Mount		M12		
FOV (Field of View) DxHxV		1/1.7"	1/2.5"	1/3.0"
	D	121.4°	87°	70.9°
	H	90°	68.6°	55.5°
	V	65°	49.7°	41.2°
Optical Distortion		-43.70%		
CRA (Chief Ray Angle)		≤12.72°		
MOD (Minimum Object Distance)		0.3m		
BFL (Back Focal Length)		6.39mm		
MBF (Mechanical Back Focal)		6.05mm		

Structure	8G	
Operation	Focus	Manual
	Iris aperture	Fixed
Dimension (mm)	Φ17×29.4	
Weigh (g)	11.6	
Working Temperature	-20ºC to +70ºC	

Mechanical Drawing

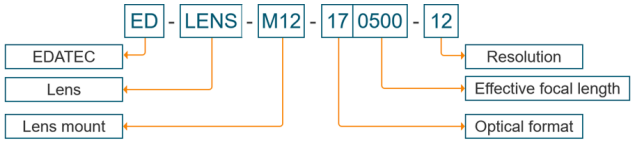


Unit	mm
Size Tolerance	0-10±0.1, 10-30±0.3, 30-120±0.5
Angle Tolerance	±2°

Actual Photo

Below picture was taken by camera module with this lens in the lab, it just gives a reference about the Field of View and resolution of the lens, it may be different with the pictures taken in different light environment and other different conditions.

Ordering Code



Example

P/N : ED-LENS-M12-170500-12

Configration : EDATEC selected a wide angle of 12 Megapixel M12-mount lens for Camera module, this 5mm M12 lens provides a 90° Horizontal Field of View on 1/1.7" sensors.

Selection Guide

More details about Ordering Code, please check Selection Guide.