



ED-LENS-M12-175000-12

Datasheet

by EDA Technology Co., Ltd

built: 2025-08-22

ED-LENS-M12-175000-12

1/1.7" 12 Megapixel wide range M12 lens

Overview

ED-LENS-M12-175000-12 lens can be used on various cameras with M12 interfaces. This 50mm M12 lens provides an 8.6° Horizontal Field of View on 1/1.7" sensors.

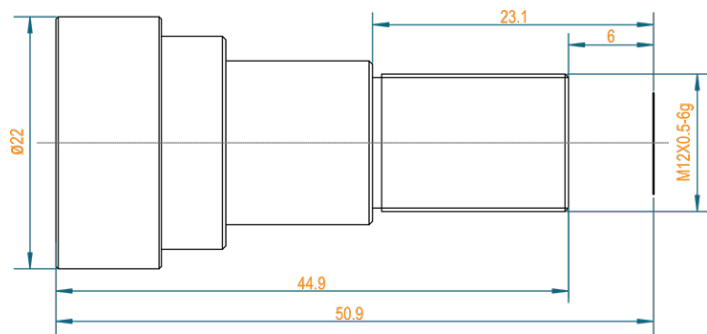


Specifications

Resolution		12 Megapixel	
Optical format		1/1.7"	
TTL (Total Track Length)		50.90mm	
EFL (Effective Focal Length)		50mm	
Aperture		F2.8	
Mount		M12	
FOV (Field of View) DxHxV		1/1.7"	1/1.8"
	D	10.6°	10.15°
	H	8.6°	8.88°
	V	6.4°	4.9°
Optical Distortion		0.2%	
CRA (Chief Ray Angle)		8°	
MOD (Minimum Object Distance)		0.3m	
BFL (Back Focal Length)		24.2mm	
MBF (Mechanical Back Focal)		>6mm	

Structure	8G	
Operation	Focus	Manual
	Iris aperture	Fixed
Dimension (mm)	Φ22×44.9	
Weigh (g)	18	
Working Temperature	-30°C to +70°C	

Mechanical Drawing



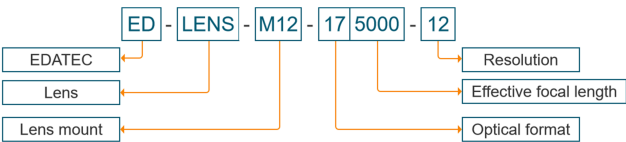
Unit	mm
Size Tolerance	0-10±0.1, 10-30±0.3, 30-120±0.5
Angle Tolerance	±2°

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-M12-175000-12

Configuration : EDATEC selected a wide angle of 12 Megapixel M12-mount lens for Camera module, this 50mm M12 lens provides an 8.6° Horizontal Field of View on 1/1.7" sensors.

Selection Guide

More details about Ordering Code, please check [Selection Guide](#).