



ED-LENS-M12-180450-08

Datasheet

by EDA Technology Co., Ltd

built: 2025-08-01

ED-LENS-M12-180450-08

1/1.8" 8 Megapixel wide range M12 lens

Overview

ED-LENS-M12-180450-08 lens can be used on various cameras with M12 interfaces. This 4.5mm M12 lens provides a 90.2° Horizontal Field of View on 1/1.8" sensors.

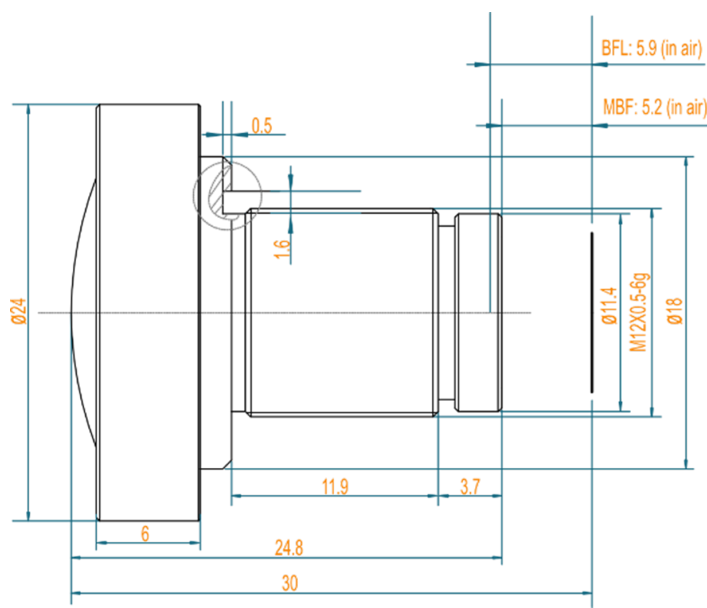


Specifications

Resolution		8 Megapixel	
Optical format		1/1.8"	
TTL (Total Track Length)		30mm	
EFL (Effective Focal Length)		4.5mm	
Aperture		F2.0	
Mount		M12	
FOV (Field of View) DxHxV		1/1.8"	
	D	98.5°	
	H	90.2°	
	V	54.8°	
Optical Distortion		-14.2%	
CRA (Chief Ray Angle)		≤10.4°	
MOD (Minimum Object Distance)		0.5m	
BFL (Back Focal Length)		5.9mm	
MBF (Mechanical Back Focal)		5.2mm	

Structure	12G	
Operation	Focus	Manual
	Iris aperture	Fixed
Dimension (mm)	Φ24×24.8	
Weigh (g)	13.5	
Working Temperature	-20°C to +60°C	

Mechanical Drawing



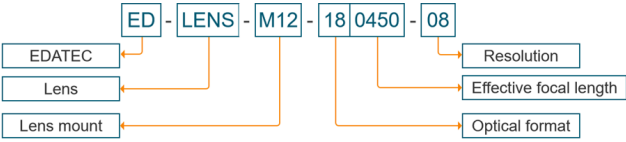
Unit	mm
Size Tolerance	0-10±0.1, 10-30±0.3, 30-120±0.5
Angle Tolerance	±2°

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-M12-180450-08

Configuration : EDATEC selected a wide angle of 8 Megapixel M12-mount lens for Camera module, this 4.5mm M12 lens provides a 90.2° Horizontal Field of View on 1/1.8" sensors.

Selection Guide

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