



ED-LENS-M12-180780-08

Datasheet

by EDA Technology Co., Ltd

built: 2025-08-01

ED-LENS-M12-180780-08

1/1.8" 8 Megapixel wide range M12 lens

Overview

ED-LENS-M12-180780-08 lens can be used on various cameras with M12 interfaces. This 7.8mm M12 lens provides a 50.3° Horizontal Field of View on 1/1.8" sensors.

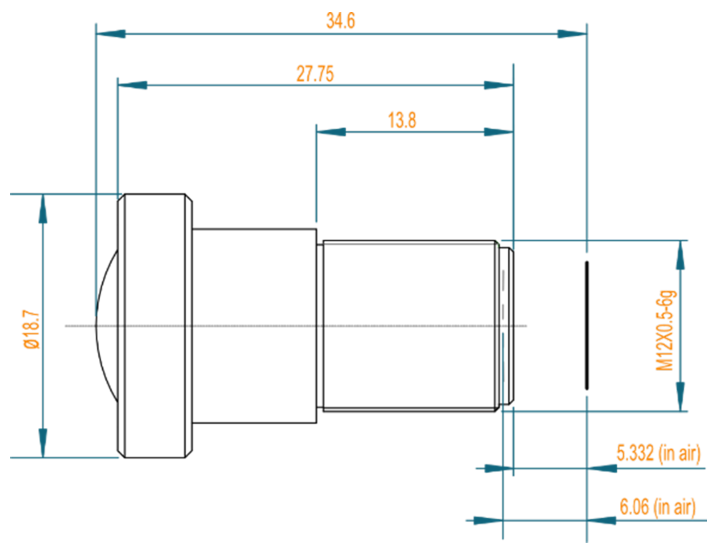


Specifications

Resolution		8 Megapixel	
Optical format		1/1.8"	
TTL (Total Track Length)		34.6mm	
EFL (Effective Focal Length)		7.8mm	
Aperture		F2.0	
Mount		M12	
FOV (Field of View) DxHxV		1/1.8"	1/2"
	D	60.8°	55.1°
	H	50.3°	45.2°
	V	38.6°	34.5°
Optical Distortion		-3%	
CRA (Chief Ray Angle)		≤13.83°	
MOD (Minimum Object Distance)		0.15m	
BFL (Back Focal Length)		6.06mm	
MBF (Mechanical Back Focal)		5.332mm	

Structure	8G	
Operation	Focus	Manual
	Iris aperture	Fixed
Dimension (mm)	Φ18.7×29.27	
Weigh (g)	10.5	
Working Temperature	-15°C to +75°C	

Mechanical Drawing



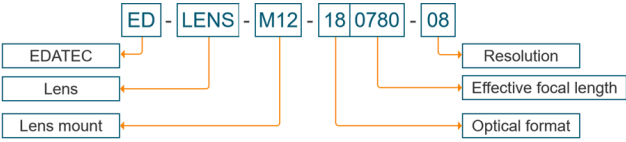
Unit	mm
Size Tolerance	0-10±0.1, 10-30±0.3, 30-120±0.5
Angle Tolerance	±2°

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-M12-180780-08
Configuration : EDATEC selected a wide angle of 8 Megapixel M12-mount lens for Camera module, this 7.8mm M12 lens provides a 50.3° Horizontal Field of View on 1/1.8" sensors.

Selection Guide

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