

ED-LENS- M12-180450-08-A

Datasheet

by EDA Technology Co., Ltd

built: 2025-08-22

ED-LENS-M12-180450-08-a

1/1.8" 8 Megapixel wide range M12 lens

Overview

ED-LENS-M12-180450-08-A lens can be used on various cameras with M12 interfaces. This 4.5mm M12 lens provides a 99.6° Horizontal Field of View on 1/1.8" sensors.

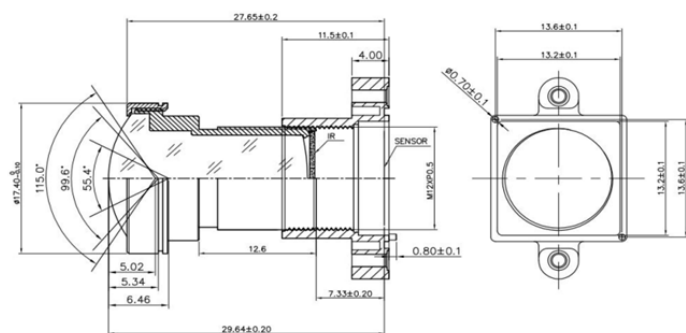


Specifications

Resolution		8 Megapixel	
Optical format		1/1.8"(IMX678)	
TTL (Total Track Length)		29.64mm	
EFL (Effective Focal Length)		4.5mm	
Aperture		F2.7	
Mount		M12×P0.5	
FOV (Field of View) DxHxV		1/1.8" (IMX678)	
	D	115°	
	H	99.6°	
	V	55.4°	
Optical Distortion		-37.60%	
CRA (Chief Ray Angle)		7.4°	
Relative Illuminance		90%	
MOD (Minimum Object Distance)		0.5m	
BFL (Back Focal Length)		8.26mm	
MBF (Mechanical Back Focal)		7.33mm	
Structure		7G	
Operation	Focus	Manual	
	Iris aperture	Fixed	

Dimension (mm)	Φ17×22.31
Weigh (g)	8.2
Working Temperature	-30°C to +75°C

Mechanical Drawing



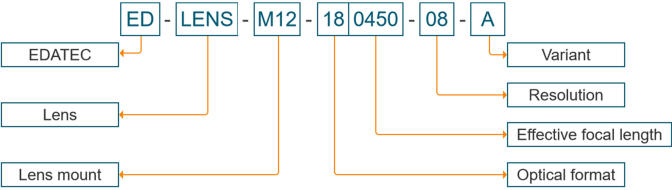
Unit	mm
Size Tolerance	0-10±0.1, 10-30±0.2, 30-120±0.3
Angle Tolerance	±2°

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-A
Configuration : EDATEC selected a wide angle of 8 Megapixel M12-mount lens for Camera module, this 4.5mm M12 lens provides a 99.6° Horizontal Field of View on 1/1.8" sensors.

Selection Guide

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