



ED-LENS-M12-170185-12

Datasheet

by EDA Technology Co., Ltd

built: 2025-08-22

ED-LENS-M12-170185-12

1/1.7" 12 Megapixel wide range M12 lens

Overview

ED-LENS-M12-170185-12 lens can be used on various cameras with M12 interfaces. This 1.85mm M12 lens provides a 185° Horizontal Field of View on 1/1.7" sensors.

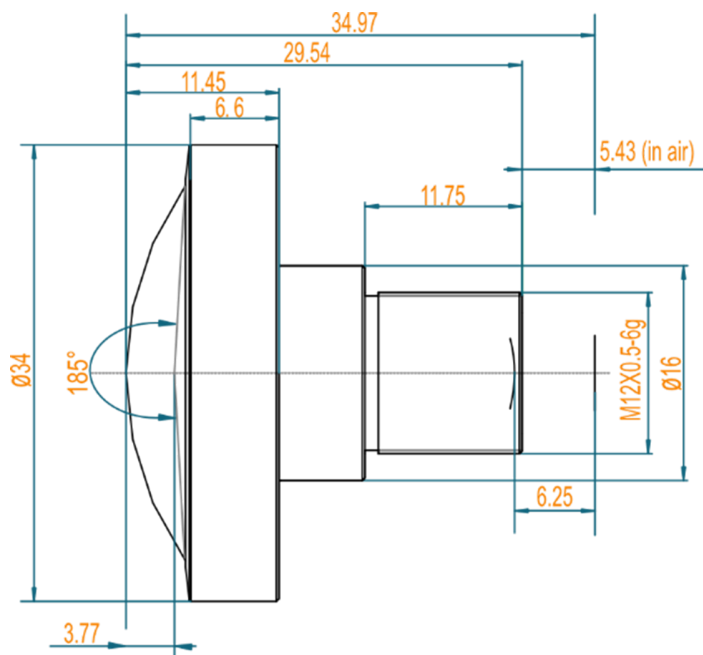


Specifications

Resolution	12 Megapixel			
Optical format	1/1.7"			
TTL (Total Track Length)	34.97mm			
EFL (Effective Focal Length)	1.85mm			
Aperture	F2.0			
Mount	M12			
FOV (Field of View) DxHxV		1/1.7"	1/2"	1/2.5"
	D	185°	185°	185°
	H	185°	185°	185°
	V	185°	154.9°	126.4°
Optical Distortion	-97.40%			
CRA (Chief Ray Angle)	≤14.88°			
MOD (Minimum Object Distance)	0.15m			
BFL (Back Focal Length)	6.25mm			
MBF (Mechanical Back Focal)	5.43mm			

Structure	9G	
Operation	Focus	Manual
	Iris aperture	Fixed
Dimension (mm)	Φ34×29.54	
Weigh (g)	30.4	
Working Temperature	-20°C to +60°C	

Mechanical Drawing



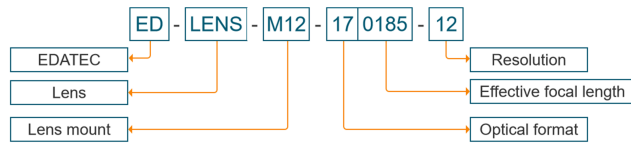
Unit	mm
Size Tolerance	0-10±0.1, 10-30±0.3, 30-120±0.5
Angle Tolerance	±2°

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-M12-170185-12

Configuration : EDATEC selected a wide angle of 12 Megapixel M12-mount lens for Camera module, this 1.85mm M12 lens provides a 185° Horizontal Field of View on 1/1.7" sensors.

Selection Guide

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