ED-LENS-M12-230270-08

Datasheet

by EDA Technology Co., Ltd

built: 2025-08-22

ED-LENS-M12-230270-08-12

1/2.3" 8 Megapixel wide range M12 lens

Overview

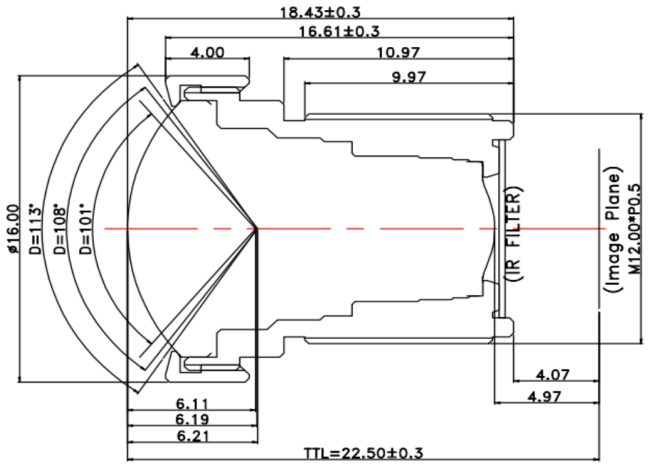
ED-LENS-M12-230270-08 lens can be used on various cameras with M12 interfaces. This 2.7mm M12 lens provides a 100° Horizontal Field of View on 1/2.3" sensors.

Specifications

Resolution		8 Megapixel		
Optical format		1/2.3"		
Image Circle		Φ8.3		
TTL (Total Track Length)		22.50mm		
EFL (Effective Focal Length)		2.7mm		
Aperture		F2.8		
Mount		M12×P0.5		
FOV (Field of View) DxHxV		1/2.3"(IMX477)	1/2.5"(IMX317)	1/2.8"(IMX415)
	D	113°	108°	101°
	H	100°	97°	92.8°
	V	82.7°	67°	60.3°
TV Distortion		<-1.5%	<-1.3%	<-1.0%
CRA (Chief Ray Angle)		< 20.76°	< 18.97°	< 16.7°
Relative Illuminance		>52.04%	>58.7%	>66.57%
MOD (Minimum Object Distance)		0.3m		

BFL (Back Focal Length)	4.97mm	
MBF (Mechanical Back Focal)	4.07mm	
Structure	5G2P	
Operation	Focus	Manual
	Iris aperture	Fixed
Dimension (mm)	Φ16×18.3	
Weigh (g)	6.4	
Working Temperature	-30ºC to +75ºC	

Mechanical Drawing

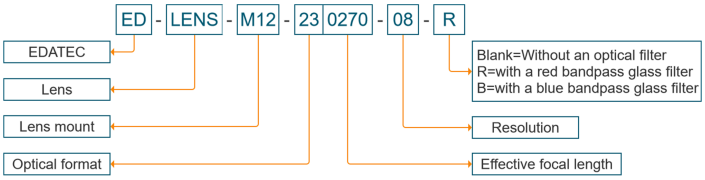


Unit	mm
Size Tolerance	0-10±0.05, 10-30±0.1, 30-120±0.2
Angle Tolerance	±2°

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-M12-230270-08

Configration : EDATEC selected a wide angle of 8 Megapixel M12-mount lens for Camera module, this 2.7mm M12 lens provides a 100° Horizontal Field of View on 1/2.3" sensors.

Selection Guide

More details about Ordering Code, please check Selection Guide.