



ED-LENS-M12-230280-08

Datasheet

by EDA Technology Co., Ltd

built: 2025-08-22

ED-LENS-M12-230280-08

1/2.3" 8 Megapixel wide range M12 lens

Overview

ED-LENS-M12-230280-08 lens can be used on various cameras with M12 interfaces. This 2.8mm M12 lens provides a 102° Horizontal Field of View on 1/2.3" sensors.

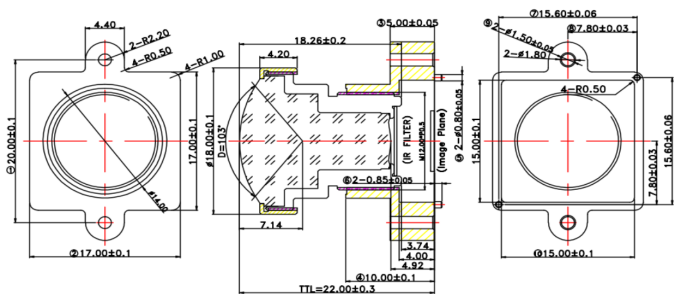


Specifications

Resolution		8 Megapixel			
Optical format		1/2.3"			
Image Circle		Φ7.5			
TTL (Total Track Length)		22.00mm			
EFL (Effective Focal Length)		2.8mm			
Aperture		F2.4			
Mount		M12×P0.5			
FOV (Field of View) DxHxV		1/2.3"(OV12895)	1/2.5"(IMX317)	1/2.7"(OV2710)	1/2.9"(IMX323)
	D	115°	109.5°	106°	100.9°
	H	102°	101.4°	95°	92.6°
	V	85°	68°	66°	60.4°
Optical Distortion		<-1.36%	<-1.16%	<-0.9%	<-0.7%
CRA (Chief Ray Angle)		< 20.95°	< 18.68°	< 17.2°	< 16°
Relative Illuminance		>54.76%	>61.6%	>66%	>70%
MOD (Minimum Object Distance)		0.3m			

BFL (Back Focal Length)	4.92mm	
MBF (Mechanical Back Focal)	3.74mm	
Structure	4G2P	
Operation	Focus	Manual
	Iris aperture	Fixed
Dimension (mm)	Φ18×18.26	
Weigh (g)	6.7	
Working Temperature	-20°C to +70°C	

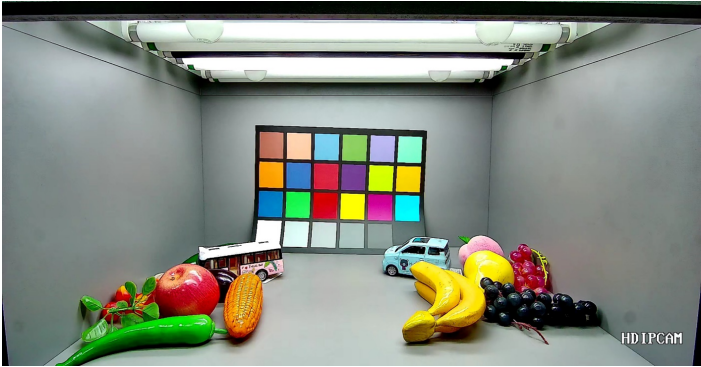
Mechanical Drawing



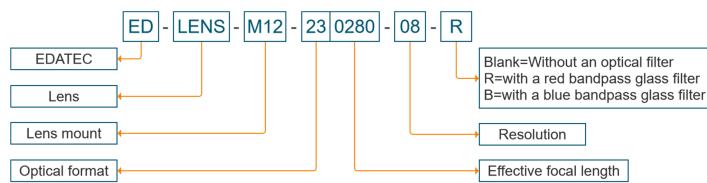
Unit	mm
Size Tolerance	0-10±0.05, 10-30±0.1, 30-120±0.2
Angle Tolerance	±2°

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-M12-230280-08

Configuration : EDATEC selected a wide angle of 8 Megapixel M12-mount lens for Camera module, this 2.8mm M12 lens provides a 102° Horizontal Field of View on 1/2.3" sensors.

Selection Guide

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