ED-LENS-M12-230430-08

Datasheet

by EDA Technology Co., Ltd

built: 2025-08-01

ED-LENS-M12-230430-08

1/2.3" 8 Megapixel wide range M12 lens

Overview

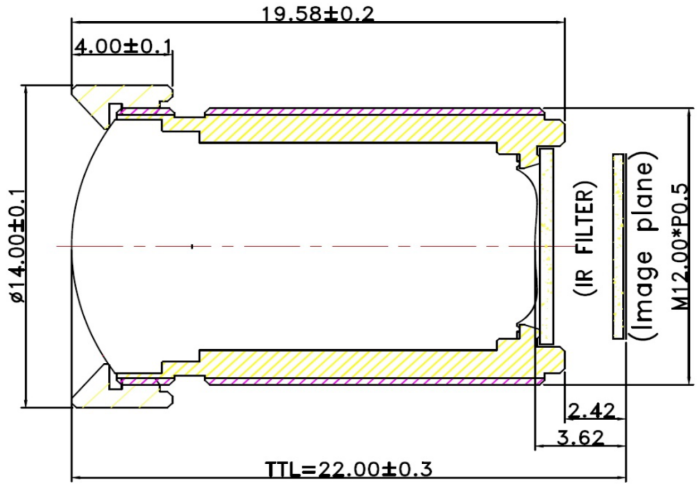
ED-LENS-M12-230430-08 lens can be used on various cameras with M12 interfaces. This 4.3mm M12 lens provides a 71.9° Horizontal Field of View on 1/2.3" sensors.

Specifications

Resolution		8 Megapixel			
Optical format		1/2.3"			
Image Circle		Φ8.1			
TTL (Total Track Length)		22.00mm			
EFL (Effective Focal Length)		4.3mm			
Aperture		F3.0			
Mount		M12×P0.5			
FOV (Field of View) DxHxV		1/2.3"(IMX577)	1/2.5"(IMX317)	1/2.8"(IMX415)	1/3"(AR0330)
	D	85.7°	79°	73°	67.5°
	H	71.9°	71°	65°	60.3°
	V	56.7°	43°	40°	36.4°
TV Distortion		< 0.6%	< 0.56%	< 0.55%	< 0.56%
CRA (Chief Ray Angle)		< 16.4°	< 15.9°	< 15.3°	< 14.6°
Relative Illuminance		>78%	>83%	>84%	>84.8%
MOD (Minimum Object Distance)		0.3m			

BFL (Back Focal Length)	3.62mm	
MBF (Mechanical Back Focal)	2.42mm	
Structure	4G2P	
Operation	Focus	Manual
	Iris aperture	Fixed
Dimension (mm)	Φ14×19.58	
Weigh (g)	7.6	
Working Temperature	-20ºC to +70ºC	

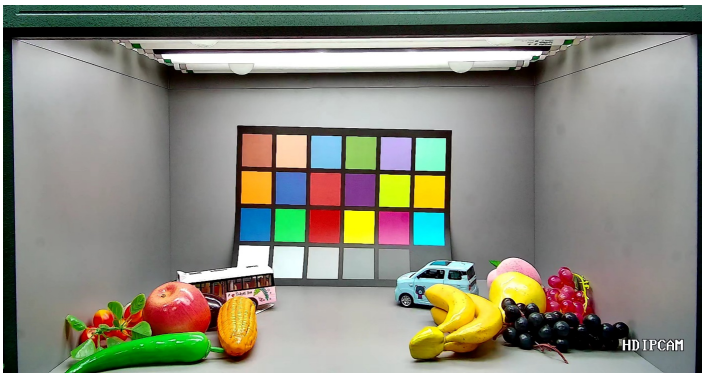
Mechanical Drawing



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

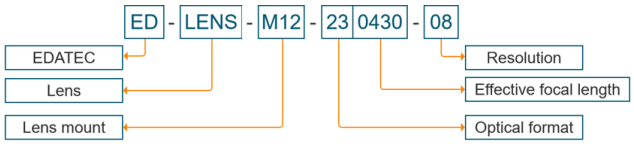
Actual Photo

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.



> TIP
>
> The MBF (Mechanical Back Focal) value of this lens is relatively small, making it unsuitable for Raspberry Pi M12 HQ camera module.

Ordering Code



Example

P/N : ED-LENS-M12-230430-08

Configration : EDATEC selected a wide angle of 8 Megapixel M12-mount lens for Camera module, this 4.3mm M12 lens provides a 71.9° Horizontal Field of View on 1/2.3" sensors.

Selection Guide

More details about Ordering Code, please check Selection Guide.