



ED-LENS-M12-230131-08

Datasheet

by EDA Technology Co., Ltd

built: 2025-08-22

ED-LENS-M12-230131-08

1/2.3" 8 Megapixel wide range M12 lens

Overview

ED-LENS-M12-230131-08 lens can be used on various cameras with M12 interfaces. This 1.31mm M12 lens provides a 230° Horizontal Field of View on 1/2.3" sensors.

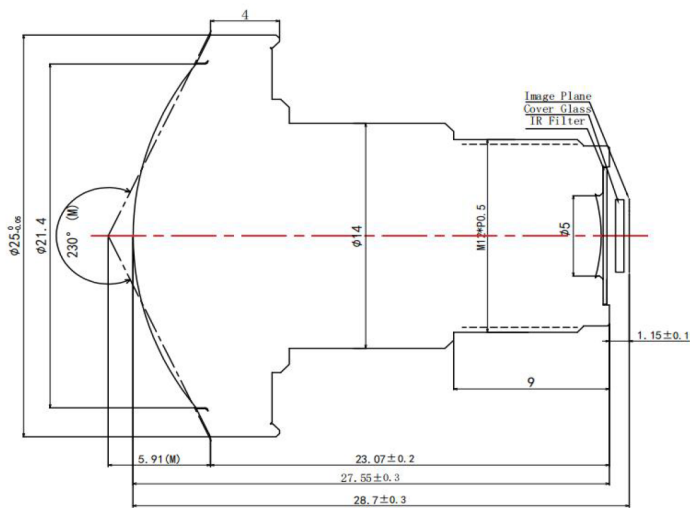


Specifications

Resolution		8 Megapixel	
Optical Format		1/2.3" (IMX577)	
TTL (Total Track Length)		28.70mm	
EFL (Effective Focal Length)		1.31mm	
Aperture		F2.0	
Mount		M12×P0.5	
FOV (Field of View) DxHxV		1/2.3" (IMX577)	
	D	230°	
	H	230°	
	V	230°	
TV Distortion		-14.50%	
CRA (Chief Ray Angle)		≤ 21°	
Relative Illuminance		> 82%	
MOD (Minimum Object Distance)		0.3m	
BFL (Back Focal Length)		1.65mm	
MBF (Mechanical Back Focal)		1.15mm	
Structure		11G	
Operation		Focus	Manual

	Iris aperture	Fixed
Dimension (mm)	Φ25×27.55	
Weigh (g)	15.5	
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

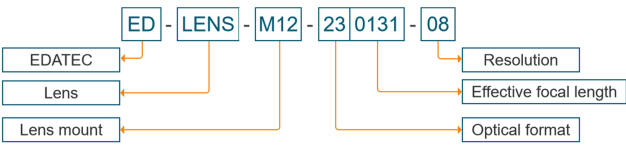
Below picture was taken by camera module with this lens in the lab, it just gives a reference about the Field of View and resolution of the lens, it may be different with the pictures taken in different light environment and other different conditions.



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-M12-230131-08
Configuration : EDATEC selected a wide angle of 8 Megapixel M12-mount lens for Camera module, this 1.31mm M12 lens provides a 230° Horizontal Field of View on 1/2.3" sensors.

Selection Guide

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