



# **ED-LENS-M12-230191-12**

## Datasheet

by EDA Technology Co., Ltd

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# ED-LENS-M12-230191-12

1/2.3" 12 Megapixel wide range M12 lens

## Overview

ED-LENS-M12-230191-12 lens can be used on various cameras with M12 interfaces. This 1.91mm M12 lens provides a 185° Horizontal Field of View on 1/2.3" sensors.

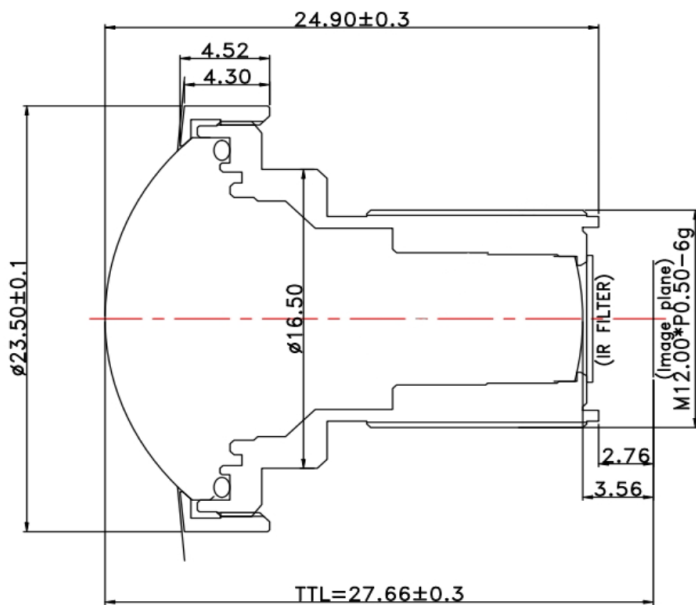


## Specifications

Resolution	12 Megapixel			
Optical format	1/2.3"			
Image Circle	Φ6.4			
TTL (Total Track Length)	27.66mm			
EFL (Effective Focal Length)	1.91mm			
Aperture	F1.8			
Mount	M12×P0.5			
FOV (Field of View) DxHxV		1/2.3"(IMX577)	1/2"(IMX385)	1/2"(IMX586)
	D	185°	185°	185°
	H	185°	185°	185°
	V	140.5°	121°	185°
F-Theta Distortion	< 1.20%	< 1.20%	< 1.20%	< 1.20%
CRA (Chief Ray Angle)	< 12.89°	< 12.89°	< 12.89°	< 12.89°
Relative Illuminance	>53.97%	>53.97%	>53.97%	>53.97%
MOD (Minimum Object Distance)	0.3m			

BFL (Back Focal Length)	3.56mm	
MBF (Mechanical Back Focal)	2.76mm	
Structure	9G	
Operation	Focus	Manual
	Iris aperture	Fixed
Dimension (mm)	Φ23.5×24.90	
Weigh (g)	13.3	
Working Temperature	-30°C to +75°C	

## Mechanical Drawing



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

## Actual Photo

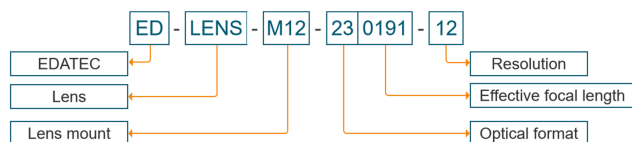
Below picture was taken by camera module with this lens in the lab, it just gives a reference about the Field of View and resolution of the lens, it may be different with the pictures taken in different light environment and other different conditions.



## 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-M12-230191-12

**Configuration :** EDATEC selected a wide angle of 12 Megapixel M12-mount lens for Camera module, this 1.91mm M12 lens provides a 185° Horizontal Field of View on 1/2.3" sensors.

## Selection Guide

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