



ED-LENS-M12-230220-08

Datasheet

by EDA Technology Co., Ltd

built: 2025-08-01

ED-LENS-M12-230220-08

1/2.3" 8 Megapixel wide range M12 lens

Overview

ED-LENS-M12-230220-08 lens can be used on various cameras with M12 interfaces. This 2.2mm M12 lens provides a 112° Horizontal Field of View on 1/2.3" sensors.

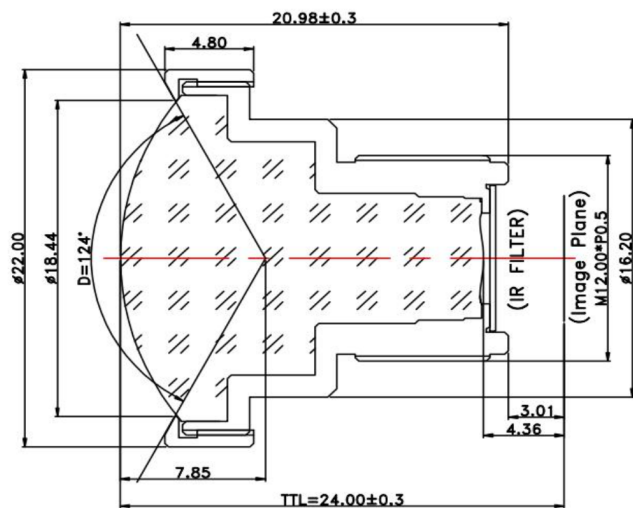


Specifications

Resolution	8 Megapixel				
Optical format	1/2.3"				
Image Circle	Φ7.5				
TTL (Total Track Length)	24.00mm				
EFL (Effective Focal Length)	2.2mm				
Aperture	F1.8				
Mount	M12×P0.5				
FOV (Field of View) DxHxV		1/2.3"(IMX577)	1/2.5"(IMX317)	1/2.7"(SC8238)	1/2.8"(IMX415)
	D	124°	122°	118°	116°
	H	112°	114°	109°	107°
	V	82°	78°	74°	71°
TV Distortion	<-4.96%	<-4%	<-3.92%	<-3.6%	
CRA (Chief Ray Angle)	< 25°	< 22.68°	< 21°	< 20.28	
Relative Illuminance	>40%	>53.7%	>66%	>68.6%	
MOD (Minimum Object Distance)	0.3m				

BFL (Back Focal Length)	4.36mm	
MBF (Mechanical Back Focal)	3.01mm	
Structure	7E	
Operation	Focus	Manual
	Iris aperture	Fixed
Dimension (mm)	Φ22×20.98	
Weigh (g)	9.3	
Working Temperature	-30°C to +75°C	

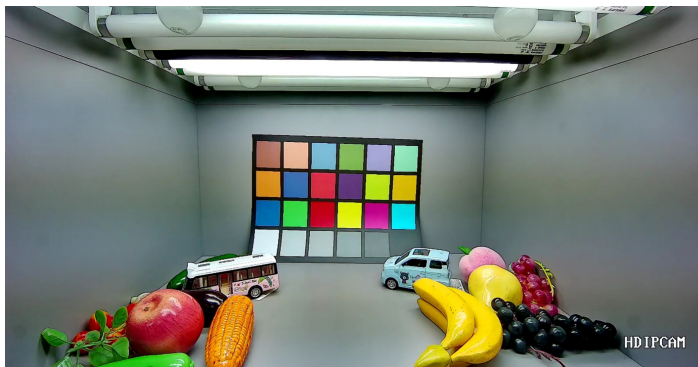
Mechanical Drawing



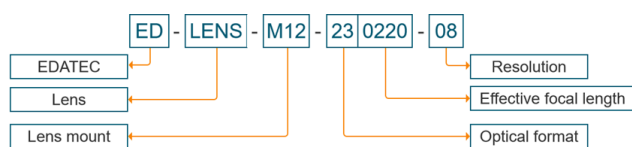
Unit	mm
Size Tolerance	0-10±0.05, 10-30±0.1, 30-120±0.2
Angle Tolerance	±2°

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.



Ordering Code



Example

P/N : ED-LENS-M12-230220-08

Configuration : EDATEC selected a wide angle of 8 Megapixel M12-mount lens for Camera module, this 2.2mm M12 lens provides a 112° Horizontal Field of View on 1/2.3" sensors.

Selection Guide

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