



ED-LENS-M12-180583-08

Datasheet

by EDA Technology Co., Ltd

built: 2025-08-22

ED-LENS-M12-180583-08

1/1.8" 8 Megapixel wide range M12 lens

Overview

ED-LENS-M12-180583-08 lens can be used on various cameras with M12 interfaces. This 5.83mm M12 lens provides a 70° Horizontal Field of View on 1/1.8" sensors.

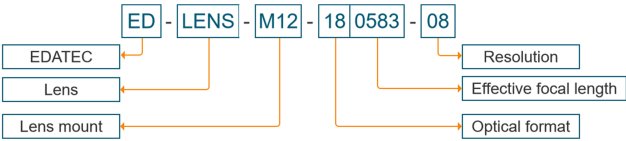


Specifications

Resolution		8 Megapixel			
Optical format		1/1.8"			
Image Circle		Φ9.4			
TTL (Total Track Length)		31.01mm			
EFL (Effective Focal Length)		5.83mm			
Aperture		F1.6			
Mount		M12×P0.5			
FOV (Field of View) DxHxV		1/1.8"(IMX347)	1/1.79"(OS04A10)	1/2"(IMX586)	1/1.7"(AR0821)
	D	77.9°	77.2°	70.7°	79.2°
	H	70°	69.2°	58.5°	71.3°
	V	42°	41.6°	45.1°	42.9°
TV Distortion		< -2.5%	< -2.4%	< -1.9%	< -2.6%
CRA (Chief Ray Angle)		< 21.2°	< 20.9°	< 18.7°	< 21.7°
Relative Illuminance		> 54.3%	> 58.4%	> 74.6%	> 52.2%
MOD (Minimum Object Distance)		0.3m			
BFL (Back Focal Length)		4.89mm			

MBF (Mechanical Back Focal)	3.09mm	
Structure	4G4P	
Operation	Focus	Manual
	Iris aperture	Fixed
Dimension (mm)	Φ20×27.92	
Weigh (g)	10.3	
Working Temperature	-30°C to +75°C	

Mechanical Drawing



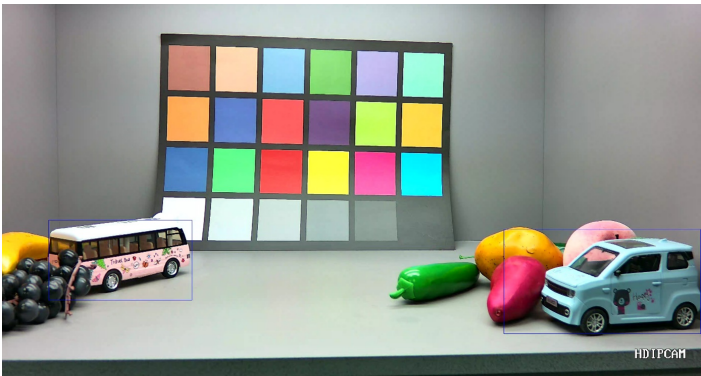
Example

P/N : ED-LENS-M12-180583-08
Configuration : EDATEC selected a wide angle of 8 Megapixel M12-mount lens for Camera module, this 5.83mm M12 lens provides a 70° Horizontal Field of View on 1/1.8" sensors.

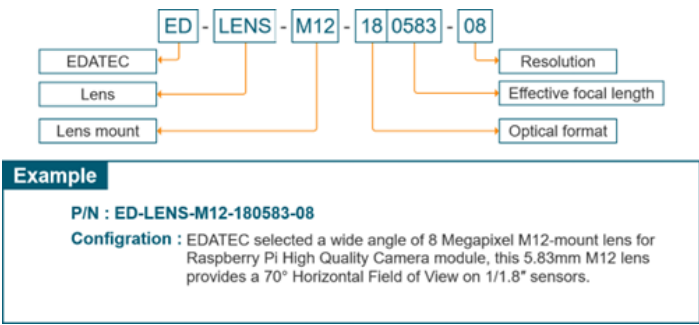
Unit	mm
Size Tolerance	0-10±0.1, 10-30±0.2, 30-120±0.3
Angle Tolerance	±2°

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.



Ordering Code



Selection Guide

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