Technical Specification Sheet - M12 Wide Angle Lens for reCamera 2002

1. Product Identification and Overview

Product Name:

M12 Wide Angle Lens for reCamera 2002 - 3MP, 140°

SKU：100076570

General Description：

This is a 3-megapixel (3MP) wide-angle lens featuring a 2.5mm focal length. The lens is designed for 1/2.7" image formats and supports IR-sensitive imaging. It is suitable for reCamera 2002 applications requiring a broad field of view with compact M12 mounting.

Component Visual：

The unit is a compact, black-finished lens assembly with a standard M12 × 0.5 thread and IR-capable optical construction.



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2. Optical Specifications

The following table details the core optical performance parameters for the 100076570.

Optical Performance Parameters

Parameter	Specification
Focal Length	2.5mm
Aperture (D/f')	F1:2.2
Resolution	3MP
Image Circle	1/2.7"
Lens Structure	4G + IR
IR Correction	IR-sensitive / IR lens
Back Focal Length (BFL)	5.8mm

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3. Field of View (FOV) Matrix

Field angles are dependent on the sensor format utilized. The reCamera 2002 value is based on the GC2053 active area and the product naming target.

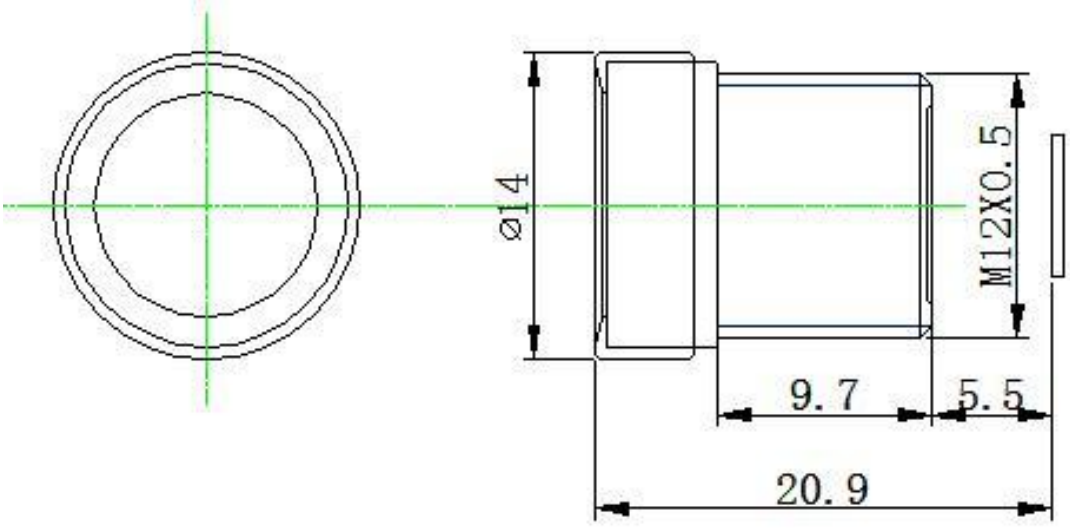
Sensor Format	Diagonal (D)	Horizontal (H)	Vertical (V)
1/2.7" Sensor	160°	131°	70°

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4. Mechanical and Physical Specifications

Mechanical Properties

- Mount: M12 × 0.5
- Minimum Object Distance (M.O.D.): 0.2m
- Dimensions: Φ14mm × 15.5mm



Manufacturing Tolerances

- Size Tolerances: Φ±0.1mm, L±0.15mm

Filter Recommendations

- IR-cut holder recommendation: 24mm base frame height

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5. Operation and Environmental Limits

Operation Modes

- Zoom: Fixed
- Focus: Fixed
- Iris: Fixed

Temperature Ranges

- Operating Temperature: -20℃ to +70℃

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6. Regulatory Compliance

Fully compliant with RoHS (HSF) standards for hazardous substance restriction.