

SEMARS DIGITAL

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Smart Equipment Monitoring
and Resolution System

SENSORS DATA SHEET

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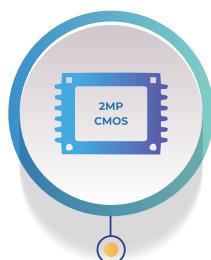
IP Camera Sensor

The IP Camera Sensor is a high-resolution surveillance device equipped with a 2MP CMOS sensor and infrared capabilities for day and night monitoring. It supports SD card storage, triple-stream encoding, and multiple network protocols, making it ideal for remote monitoring and security applications.



Its features and applications are as follows:

1.1 Key Features:



2MP Progressive CMOS Image Sensor

Industry Standard Sensor



H.265 & H.264 Triple-Stream Encoding

Milli Amps Current Intake



Infrared LED with 30m Effective Range

Range of Voltages Supported



Fixed Lens (2.8mm / 3.6mm Options)

Alarms and Buzzer Indication



Wide Field of View (Pan: 102°, Tilt: 55°, Diagonal: 121°)

Blocks False Alarms

1.2 Applications:

- **Industrial and commercial surveillance**
- **Telecom shelter monitoring**
- **Remote site security**
- **Smart infrastructure and building automation**
- **Server room and data centre monitoring**

This type of sensor is particularly suitable for industrial or commercial environments requiring precise monitoring and integration with existing systems.

1.3 Specifications

SL No.	Specification	Value
1	Operating System	Embedded RTOS
2	Encoding	H.265 & H.264 Triple-Stream
3	Image Sensor	2MP Progressive CMOS
4	Minimum Illumination	0.1 Lux @ F1.2
5	IR LED	1 Unit
6	IR Range	30 Meters
7	Lens	2.8mm / 3.6mm Fixed
8	Iris Type	Fixed Aperture
9	Field of View	Pan: 102°, Tilt: 55°, Diagonal: 121°
10	Video Frame Rate	Main: up to 2688×1520 @ 20fps, Sub: 704×576
11	Memory	Micro SD card
12	Network Protocols	RTSP, FTP, PPPOE, DHCP, NTP, UPnP, ONVIF
13	Interface	RJ45 Ethernet, 10/100M
14	Power Supply	DC 12V
15	Ingress Protection	IP67
16	Shell Material	Metal
17	Dimensions	166.2mm × Ø70mm
18	Weight	570g
19	Mounting	Separate Brackets Required

1.4 Note:

Operating and storage conditions :

- Supports real-time transmission and central remote monitoring.
- Web-based configuration for easy setup.
- Ideal for both indoor and outdoor use due to IP67 rating.

Attention :

- Ensure proper bracket selection for mounting.
- Avoid exposure to high-voltage environments.
- Do not submerge in water despite IP67 rating.
- Use only recommended power supply (DC 12V).
- Handle with care during installation to avoid lens damage.

Certifications :

- CE Certified
- RoHS Compliant
- ONVIF Protocol Support
- ISO 9001 Manufacturing Standards



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