

# SEMARS DIGITAL

## SEMARS

Smart Equipment Monitoring  
and Resolution System

## SENSORS DATA SHEET

### SEMARS DIGITAL

**India :** MSR North Tower, 16th Floor, MS Ramaiah North City, Manyata, Bengaluru - 560045

**UAE :** FDRK5907, Compass Building, Al Hamra Ind Zone-FZ, UAE

**Oman :** OFC 2/16, Focus Business Center, Way56, Muscat, Oman

**Netherlands :** 23-Aramstraat, 1336 HR, Almere, Netherlands

**Contacts :** [info@semarsdigital.com](mailto:info@semarsdigital.com) | <https://semarsdigital.com>

# Table Of Contents

## Sensors

01. IP Camera Sensor
02. Description
03. Key Features
04. Applications
05. Specifications
06. Notes
07. Cautionary Notes
08. Certifications

## WATERN TECH

Ground Floor, Beech E-1  
Manyata Embassy Business Park  
Outer Ring Road, Nagawara,  
Bangalore, Karnataka, India

Mob : India + 91 9880278427 Dubai +971 7877850  
Mail : [sales@watern.tech](mailto:sales@watern.tech)  
Website : [www.watern.tech](http://www.watern.tech)



## WATERN

Web & AI Technology for Enhanced  
Representation through Knowledge

01

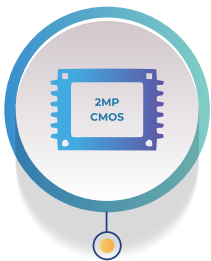
## IP Camera Sensor

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.



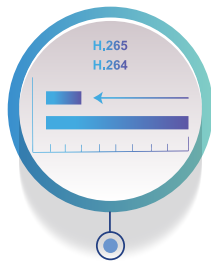
Its features and applications are as follows:

### 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.

## Certifications :

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

## 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.



# WATERN

Web & AI Technology for Enhanced  
Representation through Knowledge

## WATERN TECH

Ground Floor, Beech E-1  
Manyata Embassy Business Park  
Outer Ring Road, Nagawara,  
Bangalore, Karnataka, India

Mob : India + 91 9880278427  
Dubai +971 7877850  
Mail : [sales@watern.tech](mailto:sales@watern.tech)  
Website : [www.watern.tech](http://www.watern.tech)