



HAWKEYE[™]
RADAR EVOLVED

HAWKEYE DETECTION EQUIPMENT DATASHEET

Radar Sensor and Monitoring Camera

Radar Sensor

The UMRR radar used to power HAWKEYE is a third generation radar vehicle detector and is known as 3D-UHD (Ultra-High Definition). It is a front-firing traffic sensor that features the most advanced multi-lane, multi-object tracking radar technology.



FEATURES

- 3D Object Tracking with UHD Resolution, differentiating objects in speed, range, and angle
- Stop Bar + Advance detection in a single sensor
- Up to 8 lanes of detection (depending on the mounting location)
- Selectable Maximum Detection Range of 558 ft. (170m) or 1115 ft. (340m)
- Selectable Minimum Detection Range of 1.5m or 3.0m
- < 54ms refresh rate of up to 126 tracked objects
- -50 degree to +50 degree Azimuth Angle field of view
- Range Accuracy: < +/- 9.8 in. (0.25 m)
- Speed Accuracy: < +/- 0.63 mph (0.28 m/sec)
- Frequency: 24 to 24.25GHz K Band

SPECIFICATIONS

Dimensions

- Dimensions: 8.35" x 6.08" x 1.5"
(212.6 x 154.6 x 38.15mm)

Weight

- 2.8 lb. (45.5 oz.), 1290g

Environment

- Temperature: -40°C to +74°C (operating)
- IP67 enclosure

Power

- 13-32 VDC, 12W typical

Communication

- Ethernet, Cat6 or better

Monitoring Camera

The outdoor AXIS M2026_LE MK II network camera features a 130° field of view and superb characteristics for accurate day and night vision, at up to 15 meters. This bullet style camera boasts an IP66- and NEMA 4X-rated robustness to weather and environmental conditions. Designed for up to two individually cropped out view areas in full frame rate, the camera sustains the quality of image in both H.264 and H.265 video compression standards.



The context camera complements the radar's detection accuracy with video signal streaming for comprehensive picture of the observed traffic specifics. It provides great monitoring capabilities at a low cost.



FEATURES

- Quick to install
- Flexible mount
- One camera per intersection
- Multiple, individually configurable video streams
- Accurate vehicle path tracking
- Tampering alarm
- Two-year hardware warranty
- Lightweight but durable construction

SPECIFICATIONS

Dimensions

- Height, straight: 6.9" (174 mm)
- Height, angled: 4.6" (118 mm)
- ø 4.0 in (101 mm)

Weight

- Weight: 1.1 lbs / 0.5 kg

Environmental

- Temperature: -40°C to +74°C (operating)
- Light:
 - Color: 0.3 lux
 - B/W: 0.06 lux
 - 0 lux with IR illumination on

Lens

- Horizontal: 130°
- Vertical: 73°

Power

- Power over Ethernet
- 5.1 W - 7.9 W

Network Protocols

- IPv4, IPv6, TCP/IP, UDP/IP, HTTP, HTTPS, HTTPSa, SSL/TLSa, UDP, IGMP, RTCP, ICMP, DHCP, SSH, LLDP



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The technical information and recommendations contained herein are believed to be accurate as of the date hereof. All Product, Product specifications and data in this document are subject to change without notice to improve reliability, function, design, or otherwise.

The information provided herein relates only to the specific Product designated and may not be applicable when such Product is used in combination with other materials or in any process not defined herein. All operating parameters, including typical parameters, must be validated for each customer application by the customer/user's technical experts.

Statements regarding the suitability of Products for certain types of applications are based on Rhythm's knowledge of typical requirements that are often placed on Rhythm's Products in generic/general applications. Therefore, it is important that customer/user has thoroughly tested the Products and has understood their performance and limitations before installing them for the final applications.

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