

RTMS®

Sx-300 HDCAM



The RTMS Sx-300 with HD camera provides the user with visual setup confirmation, data capture and verification over a TCP/IP connection.

The HD camera supports a variety of picture resolutions and frame rates allowing the user to:

- Provide visibility from the detector to verify the accuracy of zone setup across all lanes.
- Simplified visual ground truth ability for deployment verification.
- Facilitate real-time visual traffic surveillance anywhere, anytime.
- Still image publication to ATMS and ATIS

TECHNICAL DATA

- Video Resolution: 1280 x 720, 704 x 576, 640 x 352, 320 x 192
- Video Compression: H.264
- Compression Rate: Variable Bit Rate (VBR) and Constant Bit Rate (CBR) from 512Kb/s to 5Mb/s
- Video Frame Rate: 1 to 30 frames per second
- Video Snapshot: JPEG
- Streaming Format: Real Time Streaming Protocol (RTSP) with two (2) independent streams
- Adjustment of Video: Brightness, contrast, saturation, sharpness and image quality via web browser
- System Interface: 10/100 Base-T Ethernet port
- Security: Password protected user interface
- Onboard flash video and image storage and retrieval*

*Feature available in future firmware



RTMS Sx-300 with IP camera provides visual verification during setup and data capture.



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SPECIFICATION

Average Coverage (Radar)

The Sx-300 detection field of view covers the area defined by:

- Elevation angle
50 degrees
- Azimuth
12 degrees
- Range
0 to 76 m (0 to 250 ft)

Measurement Resolution

- Detection zones
up to 12 zones
- Detection range (increment)
0.4 m (1.3 ft)
- Zone width
2 to 7 m (7 - 20 ft)
- Time events
1.3 msec

Frequency Bands

- K band, model Sx-300 operates at high resolution in the 24 GHz band

Regulatory

- FCC
- CE EN 60215, EN 301 489-1, EN 301 489-3, EN 300 440-1, EN 300 440-2, EN61000-4-4
- Canadian CSA C108.8 - M1983

Interface

- Single MS type connector provides communications and output signals
- Data: volume, occupancy, speed, gap or headway, six vehicle classes, 85th percentile
- 8MB built-in memory for data storage
- Isolated configurable RS232/RS-485 port provides vehicle presence, per vehicle and statistical data
- Bluetooth communication for setup, calibration and data access

Mechanical

- Unit is encased in a rugged, water-tight NEMA 4X & IP-67 polycarbonate enclosure
- Universal mounting bracket mountable on any structure. Tilts on three axes and is lockable.
- Size
21 x 21 x 16 cm (8 x 8 x 6 in)
- Weight
1.5 kg (3.5 lbs)

Power

- Operates on 12 - 24 VAC or VDC
3.6W max standard
10W max with IP camera option
- EN 61000-4-5

Maintainability

- Ultra reliable: MTBF (mean time between failures) designed for 90,000 hours (10 years)
- Self-test diagnostic software
- Quick replacement
- Firmware field upgradable

Environmental Conditions

- Temperature range
Radar: -34° to +74°C (-29° to 165°F)
Camera: -10° C to +60° C (14° F to 140° F)
For optimum image performance
- NEMA TS2: 2003
- Wind
Up to 190 km/hr (120 mph)
- IP 67 compliant

Warranty

- Five-year warranty

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