

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.

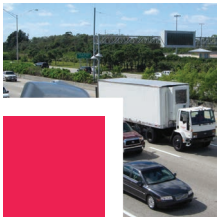
The HD camera supports a variety of picture resolutions and frame rates allowing the user to:

- 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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# RTMS Sx-300 HDCAM

## 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

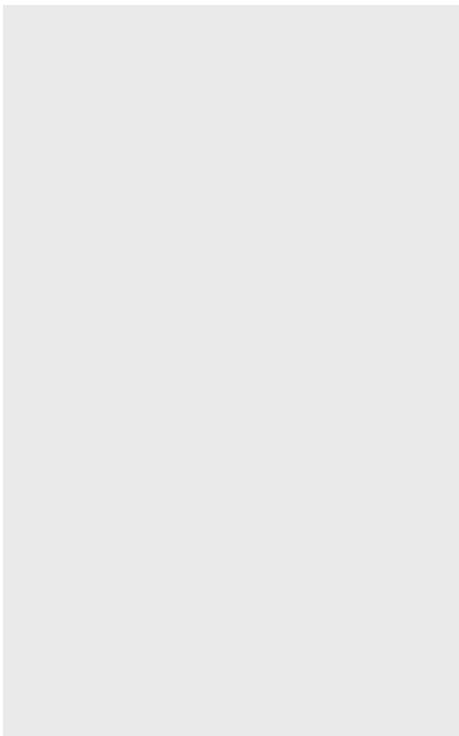
- Ultra reliable: MTBF (mean time between failures) designed for 90,000 hours (10 years)
- Self-test diagnostic software
- Quick replacement
- Firmware field upgradable

### 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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Due to ISS' continuous efforts to develop the products that are most responsive to our customers needs, the above specifications are subject to change. To verify the current information, please visit the Image Sensing Systems website.

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