

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.



# 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: -40° to +74°C (-40° to 165°F)  
Camera: -10° C to +60° C (14° F to 140° F)
- NEMA TS2: 2003
- Wind  
Up to 190 km/hr (120 mph)
- IP 67 compliant

### Warranty

- Five-year warranty

## CONTACTS

### World Headquarters

500 Spruce Tree Centre  
1600 University Avenue West  
St. Paul, MN 55104 USA  
Phone: +1.651.603.7700  
Fax: +1.651.305.6402  
info@imagesensing.com  
imagesensing.com

### Image Sensing Systems Canada

150 Bridgeland Avenue  
Suite 204  
Toronto, ON M6A 1Z5  
Canada  
Phone +1.416.785.9248  
Fax +1.416.785.9332  
sales@imagesensing.com

### Image Sensing Systems Germany

Unnauer Weg 7a  
D-50767 Köln  
Germany  
Phone +49.221.30229.141  
Fax +49.221.30229.142  
koeln@imagesensing.com

### Image Sensing Systems Romania

Dobrogeanu Gherea Constantin Street  
10-12, et1, ap1  
Sector 1, 013764, Bucharest  
Romania  
Phone +4.021.794.55.60  
Fax +4.021.794.55.66  
issro@imagesensing.com

### Image Sensing Systems Spain

Calle Manila 39, 3/3  
Barcelona E-08034  
Spain  
sales@imagesensing.com

