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RTMS Sx-300 HDCAM

The RTMS Sx-300 with HD camera is an advanced radar sensor with a High-Definition camera that empowers smart decisions by detecting and measuring traffic while also providing the user with visual confirmation, data capture and verification over a TCP/IP connection. It is all-weather accurate and virtually maintenance-free. Best of all, Sx-300 is renowned for long-term worry-free reliability.

The RTMS Sx-300 is a small roadside pole-mounted radar with a High-Definition camera, that simultaneously provides per-lane presence as well as volume, occupancy, speed and classification information in up to 12 user-defined detection zones. Output information is provided to existing controllers via contact closure and to other computing systems by TCP/IP communication port.

The RTMS technology provides meaningful and reliable data that maximizes the full potential of existing infrastructure and optimizes the safety and efficiency of every city.

KEY BENEFITS

- Fast, safe installation, on existing road-side poles, with no traffic disruptions
- Provides visibility from the detector to verify the accuracy of zone setup across all lane
- Simplified visual ground truth ability for deployment verification
- Facilitate real-time visual traffic surveillance anywhere, anytime
- Low power requirement allows low cost solar power operation



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 ETSI EN 300 440-1, ETSI EN 300 440-2, ETSI EN 301 489-1, ETSI EN 301 489-3, ETSI EN 301 489-17
- 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
- Eight (8) optically isolated output pairs rated for 100mA and 24VDC for presence indication and dual-loop speed
- 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
12W max with HD camera option
- EN 61000-4-5

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

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

- Three-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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