

In-net GoalView



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In-net GoalView GoalCam 60GHz Wireless HD-SDI Goal Verification System

FEATURE HIGHLIGHTS:

- 60 GHz wireless in-net goal camera system
- Zero frame delay
- No channel coding
- 7GHz bandwidth
- 100% uncompressed HD SDI
- Causes no interference
- Not susceptible to interference
- No congestion
- No high usage
- Ruggedized and water resistant enclosure
- Integrated 720p/50/59.94/60 camera
- Maximum 150 ft wireless transmission distance
- Flexible safety and quick release bracket
- Shock resistant and shatterproof domes
- Hydrophobic coating to prevent condensation
- No external RF antennas
- Internal Lithium-ion batteries option
- Local monitoring and testing
- Water resistant connections

60GHz vs 2.4/5GHz:

- 60GHz is far more reliable than 2.4GHz & 5GHz
- 2.4GHz/5GHz - 20MHz bandwidth and requires compression and/or heavy encoding
- 2.4GHz/5GHz - High congestions & high usage
- 2.4GHz/5GHz - Requires frequency coordination at venues
- 60GHz Does not require frequency coordination
- 2.4GHz/5GHz - Suseptable to and Causes Interference
- 60GHz Not suseptable to or does not cause interference
- 60GHz RF Radios 10x smaller than 2.4/5GHz



In-net GoalView GoalCam Camera Transmitter

PRODUCT DESCRIPTION:

The In-net GoalView GoalCam 60GHz wireless technology is a customizable solution that fits the most demanding sports needs. This one-of-a-kind wireless technology delivers fully uncompressed video with no bit or resolution manipulation. Utilizing a 60 GHz wireless platform, the GoalCam offers uncompressed and un-coded broadcast quality video at a competitive price. While the RF transmitter and camera is integrated in a custom ruggedized housing with an extruded aluminum tube with polycarbonate shock resistant domes on each end. Not to mention an integrated safety and quick release positive registration bracket that adjusts to all mounting application. The system includes camera/transmitter and receiver.

For mobility the GoalView GoalCam incorporates internal Lithium-ion batteries to support up to 5 hours of operation per charge. While the receiver unit mounts overhead to receive the 1.5 G HD-SDI signal using two BNC re-clocked HD-SDI outputs. The purpose of the camera system is to capture and record live video of the goal line to support officials in reviewing disputed calls during every game.



In-net GoalView Receiver



In-net GoalView in Top of Net



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Specifications:

In-net GoalView GoalCam

General:

Carrier Frequency	59-64 GHz FCC Unlicensed Band
Data Rate	1.485 Gbps HD-SDI per channel
Video/Audio format	SMPTE 292M/372M (dual channel)
Transport latency	
Video Inputs/ Outputs	75Ω BNC
Transmit Power	0dBm (1mW)
Modulation	Direct detection using NRZ (non return to zero)

Antenna:

Gain	+20dBi
Beamwidth	20 degrees Tx; 4 degrees Rx
Bit Error Rate	Error free with matrix test pattern (Pathological Pattern)
Range	150 feet, (46 meters)

Power:

Input voltage	10.5 - 17 VDC
Consumption	15W via XLR4

Environmental and Mechanical:

Operating Temperature	-30 to +60degrees C (-22 to 140 degrees F)
Storage Temperature	-30 to +85degrees C (-22 to 185 degrees F)
Relative Humidity	Up to 95%, non-condensing



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