WTI The Intelligent Solution

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Intelligent Traffic Systems Wireless Video Monitoring

Video Imaging for Transportation Control Systems

ireless Technology, Inc. makes the transmission of video imagery and pixilated data easy with Intelligent Traffic Systems (ITS) Video Imaging.

The *Wireless Technology* ITS can be installed as a stand-alone wireless video imaging system or used in conjunction with existing fiber-optic or two-wire cabling. ITS Video Imaging can provide long or short range video and serial data transmissions. And the ITS works easily in conjunction with transportation systems that measure traffic waves and control traffic signals and signage.

Easy Video Transmission for Both Sides of the Highway

ireless Technology's innovative Wireless Video System can be installed along the side of the highway without fiber trunk lines and transmit video or data signals to receivers along the cabled side of the highway. Wireless video transmission eliminates the need for costly trenching and cabling across highways. And with *Wireless* ITS, video and data transmission to Traffic Control Systems is simple as well.

Wireless Technology's custom-designed system incorporates a small NEMA enclosure and a flat patch antenna. The linear patch antenna has a 36 degree beamwidth and no critical line-of-sight alignment. Video transmission signals will not be adversely effected by winds or road vibrations.

Video signals received via wireless transmission can be re-transmitted to receivers located across the highways, sent via fiber trunk lines to traffic control systems, or re-transmitted to Traffic Control Centers located within a 10 mile radius.

ITS video cameras and transmitters installed on luminaries along the cabled side of highways and arterials interface directly with traffic control systems via fiber optic or two-wire cables.

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Product Information — CFS2400 P ITS Wireless Video Monitoring System

The CFS-2400 P Intelligent Traffic System includes: (1) Video Transmitter, (1) Custom Designed Transmitter Antenna, (1) Video Receiver, (1) Custom Designed Receiver Antenna, (1) Installation/Operations Manual and Cables, Connectors, and Mounting Brackets.

Wireless Technology
Video Transmitter CFS-2400P (1), (2), (3)

Power Input Voltage	11-16 VDC or 115 VAC, 60 Hz @ 0.5 amp
Power Draw	250 ma. — low power 500 ma. — high power
Transmitter Frequency Range	2400-2483 MHz
Frequency Accuracy	50 ppm -15° to +75° C
Transmitter Power Output	50,000 Micro-volts/meter, low power Contact WTI for other available power levels.
Spurious & Harmonics	Less than -60 dBc
Modulation (FCC Index)	FM NTSC Video (5M0A3F)
Pre-Emphasis Complies to:	ITR and CCIR, 405-1
Output Impedance	50 ohms
Transmitters Output Stability	Unconditionally stable into a 10:1 VSWR load, any phase angle. No damage with open or short across output.
Antenna	Linear Patch or Truncated Fan Antenna
Range	Up to 50 miles dependent on system selected
Image Sensor	Broadcast Standard Color & B&W, EIA-250-C

Inputs

Video: BNC Connector that accepts a standard NTSC composite video signal (1.0 V P-P), 75 Ohms input impedance.

Power: Terminal strip connector with wire clamps for each terminal.

Output

RF Output: Type "TNC" coaxial connector. Mates with antenna cable connector provided with antenna.

Dimensions:

Weight: 8 pounds

Size: 9.3" wide X 11.3" high X 5.3" deep

Weatherproof NEMA 4X non-metallic enclosure provided with a mast mount bracket (2" diameter mast, minimum size)

FCC Certified • Made in USA • Patent Pending

Conforms to EIA-TIA-250-C

Wireless Technology
Video Receiver CFS-2400P (1), (2), (3)

Power Input Voltage	11-16 VDC or 115 VAC, 60 Hz @ 0.5 amp
Power Draw	500 ma.
Receiver Frequency Range	2400-2483 MHz
Receiver Input Sensitivity	-108 dBm
Receiver Accuracy	50 ppm, -15 to +75° C
Spurious & Harmonics	Less than -80 dBc
Noise Figure (Total System)	<4 dB
Video Bandwidth	up to 16 MHz
Image Sensor/Video Output	NTSC Color and RS-170 ,1.0 V P-P
Frequency Response	10Hz to 100 KHz +/- 1.5 dB
Total Harmonic Distortion 10Hz to 100 KHz	less than 0.5dB
Antenna	Linear Patch or Truncated Fan Antenna

Inputs

RF Input Antenna: "TNC" Connector, mates with connector on antenna provided.

Power

Terminal strip connector with wire clamps for each terminal.

Output

Video Monitor: BNC Connector, NTSC Standard Output, EIA-250-C, 1.0 V P-P; 75 Ohms.

Dimensions:

Weight: 8 pounds

Size: 9.3" wide X 11.3" high X 5.3" deep

Weatherproof NEMA 4X non-metallic enclosure provided with a mast mount bracket (2" diameter mast, minimum size)

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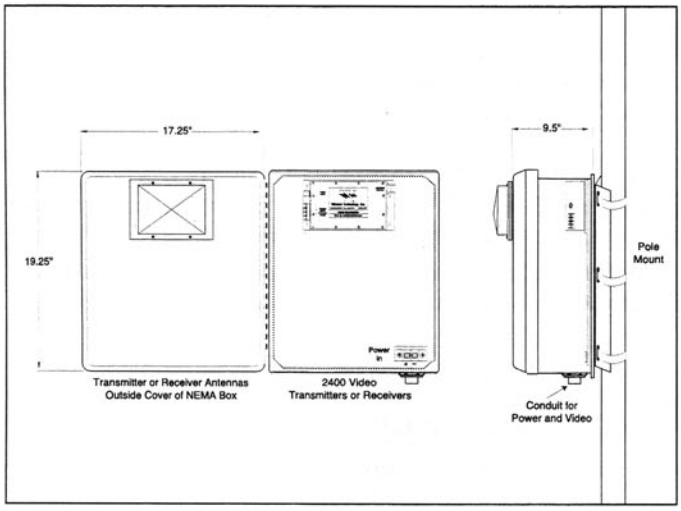
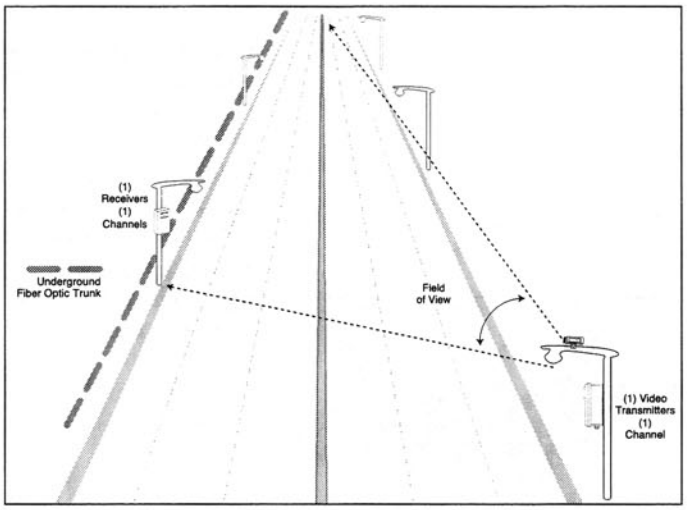


Wireless Technology, Inc. Transmitter and Receiver Enclosures



Wireless Technology, Inc. ITS System Signal Transmission and Reception on Surface Streets

Due to *Wireless Technology's* continuing efforts to engineer the best product that is most responsive to our customers needs, the above specifications are subject to change.