



# NetStream 5x05

Wireless transmission for high quality video surveillance projects

## Product Highlights

- High capacity transmission suitable for megapixel cameras
- Asymmetric bandwidth 5 Mbps uplink; 2 Mbps downlink
- Multi-band radio supporting multiple frequencies transmission resiliency
- OFDM technology for operation in NLOS scenarios
- Extremely fast and simple deploy

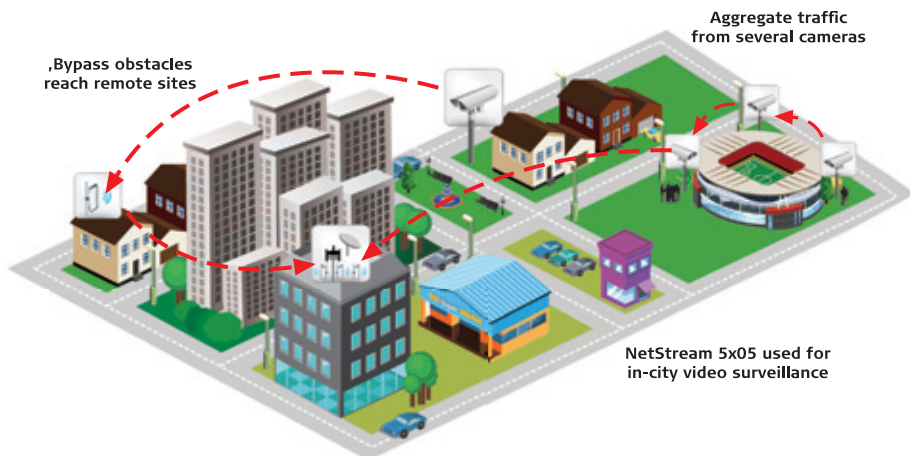


## Key Benefits

- Industry proven solution; thousands of systems installed at leading carrier sites globally
- Extremely simple to install and maintain (minimal OPEX)
- Available in license exempt frequencies, eliminating regulatory overhead and reducing network ramp-up time
- Lower cost of ownership significantly reduces both CAPEX and OPEX

NetStream 5x05 transmits video with high-quality in real time. Durable and robust, the NetStream 5x05 wireless broadband solution incorporates advanced technologies including OFDM for superior performance in NLOS scenarios, multi-band features for maximum transmission resiliency and asymmetric bandwidth control.

The ideal solution for mission-critical security and surveillance projects requiring video transmission from megapixel video cameras, NetStream 5x05 gives organizations the flexibility to deploy cameras where and when needed especially in areas that are too remote or too costly to reach via cabling or fiber. The solution can be deployed in both a point-to-point and multiple point-to-point architecture which enables one hub site to provide dedicated bandwidth to several remote camera sites








For organizations that need to establish maximum surveillance coverage quickly and affordably, NetStream 5x05 is the optimal solution.

## High quality, wireless video surveillance for any location

Netronics wireless, field proven, point-to-point broadband solution leverages sub-6 GHz bands to provide instantly deployable, high quality video surveillance in any environment. By providing a robust, dedicated link per camera or per cluster of cameras, the solution offers high reliability, is simpler to install and easily scalable.

Ideal for both high scale in-city surveillance and wide areas security projects including: traffic surveillance, airports, border control, railways, seaports, gas and oil pipelines, Netronics unique solution successfully meets high quality security project requirements, simply and quickly, and the optimal results.

 <b>5/2</b> Mbps Uplink downlink	 <b>20/4</b> Km LOS/NLOS	 <b>4.94-5.95</b> GHz 20 - 10 - 5 MHz Channels	 <b>IP</b> Thermet	 <b>SISO</b> Single Polarity
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## Specifications

Configuration	
Architecture	Fully outdoor radio with integrated antenna or external antenna PoE device for power and Ethernet connectivity
Ethernet cable	Outdoor CAT-5 cable; Maximum length: 100 m total

Radio	
Frequency Bands	2.412 – 2.482 GHz ; 4.940 – 5.950 GHz
Data Rate	2/5 Mbps Ethernet Net Throughput
Range	Up to 20 Km/12.5 Miles
Channel Bandwidth	Configurable: 5, 10, 20 MHz
Duplex Technique	TDD
Modulation	OFDM – BPSK/QPSK/16QAM/64QAM
Max Tx Power	18 dBm
Received Dynamic Range	>60 dB
Error Correction	FEC k=1/2, 2/3, 3/4
Hub Site Synchronization	Supported, between radios in Multiple Point-to-Point architecture

LAN Interface	
Type	10/100BaseT Interface with Auto-negotiation (IEEE 802.3)
Number of Ethernet Ports	1
Framing/Coding	IEEE 802.3/U
Line Impedance	100 Ω
VLAN Support	Transparent
Connector	RJ-45
Maximum Frame Size	1800 Bytes
Latency	<3 msec (typical)
VLAN ID for Management	Supported

Management	
Protocol	SNMP based
Network Management	SNMPc based
Upgrade Capabilities	Local and remote 'over the air' software upgrades
Link Manager	Netronics Manager

Mechanics	
Radio with 1ft integrated antenna	30.5 cm (H) x 30.5 cm (W) x 5.8 cm (D) Weight: 1.5 kg / 3.3 lbs
Radio for external antenna	24.5 cm (H) x 13.5 cm (W) x 4.0 cm (D) Weight: 1.0 kg / 2.2 lbs

Power and Mounting	
Power Feeding	100-240 VAC at 50/60 Hz (via PoE)
Power Consumption	<10 W
Mounting	Pole and Wall

Environmental	
Outdoor Unit Enclosure	All weather cases
Operating Temperatures	-35° C - 60° C
Humidity (Outdoor Unit)	100% condensing

Antennas	2.x GHz	4.9 GHz	5.x GHz
1ft Integrated Antenna			
Gain	16 dBi	17.5 dBi	22 dBi
Beam Width	20°	10°	10°
Polarization	Linear	Linear	Linear

Radio Regulation	
FCC	47 CFR Part 15, Subpart C
India	WPC GSR-38
ETSI	EN 300 328, EN 301 893, EN 302 502

Safety	
UL	60950-1:2007; 60950-22:2007
ETSI	EN 60950-1:2006; EN 60950-22:2006; IEC 60950-1:2005; IEC 60950-22:2005
CAN/CSA	C22.2 No. 60950-1-07; C22.2.60950-22:2007

EMC	
FCC	47 CFR Part 15:2007, Subpart B, Class B
CAN/CSA	ICES-003:2004 Issue 4, Class B (CAN/CSA-CEI/IEC CISPR 22:02)
ETSI	EN 300 386 V1.3.3:2005; EN 301 489-4 V1.3.1:2002
AS/NZS	CISPR 22:2006, Class B

Environmental	
Environmental (ETSI)	IEC 60721-3-4 Class 4M5; IP67



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