

# Insight DVT

## Digital Wireless Video & Telemetry Transmission

Wireless video  
transmission

RS485/RS422  
telemetry

2-way audio

2 x Alarm  
inputs/outputs

Encryption

Weatherproof  
 housings

Rapid installation

Easy connection  
& set up



Insight DVT from Wood & Douglas provides wireless transmission of high-resolution, full-frame-rate video for CCTV applications, along with telemetry control, audio and alarm signals. Operation is in the 5GHz band and is compliant with many international regulations. A basic point-to-point system for operation of a single camera requires a pair of transceiver units, and a pair of interface modules each comprising a video encoder or decoder and PSU in a high-quality weatherproof enclosure.

Each Insight DVT transceiver is mounted in a high-quality IP65 enclosure with integrated high-gain directional antenna. The mounting bracket fitted to the rear of this enclosure enables

mounting to a flat surface or 50mm diameter pole, and also enables tilt & swivel adjustment for accurate alignment of the antenna.



Alignment is aided by signal strength LED indication at the base of the unit. The transceiver unit connects to the interface module via a single CAT5 cable for data and power.

Interface modules are also IP65 rated, and are available in three versions: single encoder/decoder

with one video input or output, dual encoder/decoder with two video inputs or outputs, and junction. The junction version has no video inputs or outputs, and is suitable for linking transceivers at repeater locations for extending range or working around obstructions. Auxiliary Ethernet connections are provided on all versions for linking interface modules, enabling multiple cameras to be transmitted over a single wireless link.

Multiple Insight DVT wireless links may be used in a variety of configurations including multipoint and repeater, providing flexible solutions for larger systems and other demanding application requirements.

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making  
waves

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## Insight DVT Transceiver Specifications

Frequency	5.475 – 5.825GHz
Maximum EIRP	30dBm
Rx sensitivity	6Mbps: -94dBm
	9Mbps: -93dBm
	12Mbps: -91dBm
	18Mbps: -90dBm
	24Mbps: -86dBm
	36Mbps: -83dBm
	48Mbps: -77dBm
	54Mbps: -74dBm
Network interface	1 x 10/100 Base-T (CAT.5) Ethernet
Wireless module approvals	CE, FCC part 15.247
Power supply	12V DC PoE (Power over Ethernet) from Interface Unit
Max. Power consumption	4W
Antenna gain	19dB
3dB beamwidth (e-plane)	15°
3dB beamwidth (h-plane)	15°
Outdoor range	Up to 10km
Front-to-back ratio	27dB
Temperature range	-10C to +55C
Operating humidity	5 – 95%
Water ingress rating	IP65
Dimensions	235mm x 210mm x 55mm
Weight	1.1kg
Mounting requirements	Wall or 50mm dia. pole. Tilt & swivel adjustment.

## Insight DVT Interface Unit Specifications

Video interface	BNC 750 composite video (1V p-p) PAL or NTSC
Compression	H.264 encode, decode, & duplex
Bit rate	32kbps – 4Mbps
Frame rate	Up to 25/30 at full D1 (720x480, 720x576)
Audio	G.711 mono (two-way)
Telemetry interface	RS422/RS485 (2,400 – 115,200 baud)
I/O	2 x digital inputs, 2 x digital outputs
Network interface	1 x 10/100 Base-T (CAT.5) Ethernet
Power supply	110 or 240V AC
Max. Power consumption	18W (including PoE supply output to transceiver)
Temperature range	-10C to +55C
Operating humidity	5 – 95%
Water ingress rating	IP65
Dimensions	280mm x 190mm x 130mm (single encoder/decoder version)
	280mm x 190mm x 180mm (dual encoder/decoder version)
Weight	Up to approx 3kg, depending on version
Mounting requirements	Flat surface

Wood & Douglas maintain a policy of continuous improvement and enhancement. As a consequence, the above specification may change without notice.



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