



Industrial Wireless Video and audio transceiver

The Wireless Transceiver system 2.1 is designed to be used for security surveillance in industrial environment where it is either not possible or practical to lay cables to transmit video and audio signals. These modules are housed in industrial grade IP 65 enclosure with high quality bullet cable glands installed at the various cable inlet and outlet to ensure that these units are waterproof and air-tight. Proper enclosure will prevent water, dust and chemical vapor from entering the housing and corrode the components. These units come with an industrial grade 35W, 12VDC single output switch-mode power supply with voltage stabilizer housed within the IP 65 enclosure.

Field application

These systems are used in the transmission of video and audio signals from video surveillance cameras in outdoor installations in petrol-chemical complexes, military training complexes, mining installations and industrial installations where laying of cables are not practical or feasible. It can also be used by schools, warehouses or plants which needs to set up temporary surveillance facilities to monitor certain activities or processes.

Equipment specifications



2.4 GHz receiver system

The above 4 channels 2.4 GHz Stereo Audio receiver (AVR-V2.1) is equipped with 1 unit Omni Directional Antenna. Dipswitches are used to control manual or automatic sequential switching. Line level stereo audio & composite video outputs are fully self-contained. The system comes with a regulated built-in power supply.

Receiver Specifications:

ISM Band:	low interference potential devices (LIPD Band): 2.4 ~ 2.483 GHz Audio
Channels	4 channels
Video Switching	Single channel selection or Automatic Sequential Switching with ~ 4 second dwell.
TV System:	Suits ALL TV Systems in ALL Countries, operation is independent of TV System.
Frequency control	Built-in Phase Locked Loops (P.L.L) circuit

Antenna:	Dipole Whip non-removable (omni directional when used vertically).
Demodulation Method:	FM.
Video Output:	Standard 1 v p-p, 75 ohm Composite Video via RCA female socket.
Audio Output:	Line Level Audio ~ 10 000 ohms impedance, via RCA female socket.
Power Supply Requirements:	~ 14 VDC, ~ 300 mA, 2.1 x 5.5 mm socket.
Power Consumption:	~ 3.6 Watts.
AC input	230VAC 50Hz
Noise Figure:	3.0 db Max.
Noise Figure:	-92 dbm.
Dimension of housing(Exclude gland and antenna protrusion:	245mm X 195mm X 95mm



2.4 GHZ transmitter system

The above 4 Channels 2.4 GHz Stereo Audio Video transmitter (AVT-V2.1) is equipped with 1 unit Omni Directional Antenna, manual selection the transmitter is able to transmit a powerful Audio and Video signal up to 100 metres in ideal clear line-of-sight conditions. The transmitter system even has a 12VDC regulated built-in power supply.

Transmitter specifications:

ISM Band:	"Low Interference Potential Devices" (LIPD) Band: 2.4 ~ 2.483 GHz Audio/Video
Channels	4 channels.
TV System:	Suits ALL TV Systems in ALL Countries, operation is independent of TV System
Antenna:	Dipole Whip non-removable (omni directional when used vertically).
Modulation Method:	FM.
Oscillator:	P.L.L. (Phase Locked Loop).
Video Input & Output:	Standard 1 v p-p, 75 ohm Composite Video via RCA female sockets.

Audio Input & Output:	Line-Level 1 v p-p, via RCA female sockets.
RF Output Power:	10 mW EIRP (E quivalent I sotropically R adiated P ower)
Video Input:	Composite Video 75 ohms impedance.
Audio Input:	Line Level Audio ~ 10 000 ohms impedance.
DC input:	12 ~ 14 VDC, ~ 200 mA powered from a 12VDC 3000mA regulated power supply
DC Output:	12 ~ 14 VDC unregulated @ 100 mA for external equipment.
Power Consumption:	~ 1.5 Watts plus output load.
AC input :	230VAC 50Hz
Dimension of housing(Exclude gland and antenna protrusion:	245mm X 195mm X 95mm

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