Securitex Industrial Wireless Audio and Video transceiver

Securitex Wireless video transceiver Ver.2.1 has been specially redesigned and tested for use in almost all industrial environment where laying of cables for surveillance and security application is virtually impossible. The transmitter and receiver module are setup and house in an IP 65 industrial grade enclosure manufacture by "Marlanvil" Italy. The cable inlet and outlet are install with very high quality bullet cable gland that is very waterproof to prevent water and dust from entering the housing. In very corrosive environment this system is also very suitable as the enclosure prevent corrosive chemical vapor from entering the enclosure and damage the delicate electronic component. The Dipole whip not-removable omni directional antennas that protrude from the enclosure are also secure by a watertight bullet cable gland. To ensure that stable voltage are input into the transceiver system we have provided in the enclosure a industrial grade (Mean well S-35-12) 35W 12VDC Single Output Switch-mode Power Supply c/w voltage stabilizer.

In explosion proof environment usage Nitrogen gas can be used to pressurize the enclosure such that hydrocarbon or inflammable gases cannot enter the housing and cause explosion (Please consult the plant engineer for used in ex-proof location.

System Application.

The systems are specially designed for used in Oil, Gas and Petrochemical complexes. This system can also be use in military camp, warehouses, schools, campus, semiconductor, electronic plants and area where cable laying is not practical etc.

High power 2.4 Giga hertz receiver system

The above 4 channels 2.4Ghz 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 output are fully self-contained. The system even have 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.
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.
Sensitivity:	-92 dbm.
Dimension of housing:	245mm X 195mm X 95mm (exclude gland and antenna protrusion)

High power 2.4 Giga hertz 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:	"**L**ow **I**nterference **P**otential **D**evices" (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:	245mm X 195mm X 95mm (Exclude gland and antenna protrusion)

The above system are approved by IDA for use in Singapore DA number 102199

Distributed by:
Securitex Electronic Systems Engineering
Block 9010 Tampines St 93 #04-145 Singapore 528844 Tel: 65-67852171 Fax: 65-67863351
http://www.securitex.com.sg