

## FEATURES

- Real time video radio transmitter and receiver
- R F Power 500mW
- One Channel
- PAL colour or monochrome CCTV
- 1V pk – pk, 75 ohms video signal
- Pan & Tilt or RS232/485 Control System (option)
- MPT1349 Licence exempt
- Range 1 - 4 Km
- Compact size
- 12V DC supply
- R F frequency 1.389 – 1.399 GHz
- AM/FM Modulation



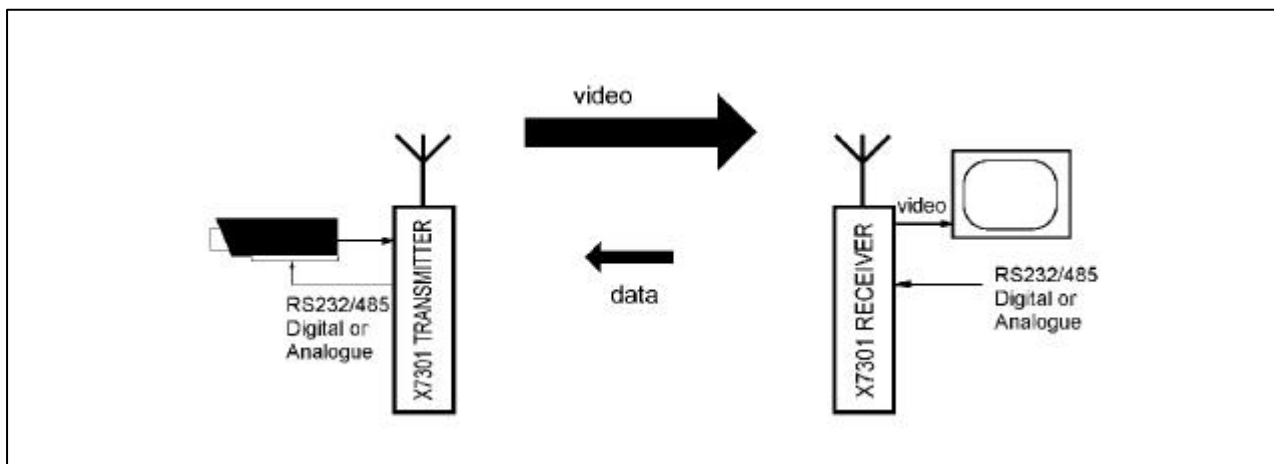
## DESCRIPTION

No licence is required to operate the X7301 Microvision Video Link. It consists of a compact 500mW radio transmitter and a highly sensitive radio receiver. Real time colour and monochrome composite video signals are presented to a BNC connector on the transmitter. These are then passed over a 1.394GHz radio link to a video output on the receiver. A range of 1Km to 4Km is possible in free space.

Serial, analogue or digital camera controls signals can be transmitted back to the video transmitter via a licence exempt 458MHz radio link if required.

Both the receiver and transmitter are powered from a regulated 12 volt source at 500mA.

## TYPICAL OPERATION



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## SPECIFICATION

### ABSOLUTE MAXIMUM RATINGS

Storage Temperature..... -30 to +85 Celsius  
Operating Temperature..... -25 to +55 Celsius

### DIMENSIONS

Transmitter:            Length = 150mm            Width = 100mm            Height = 35mm  
Receiver:                Length = 157mm            Width = 110mm            Height = 50mm

ELECTRICAL CHARACTERISTICS	MIN	TYPICAL	MAX	DIMENSION	NOTE
Frequency	1.389	1.394	1.399	GHz	MPT 1349
Channels		1			
Modulation		AM/FM			
Range		1000.0	4000.0	Metres	4Km with Yagi Antenna
RF Power		500		mW	ERP
Video Input / Output		1V			PAL/Mono
Supply Voltage	11	12	14	Volts	
Supply Current	450	500	550	mAmps	

## INSTALLATION

### Transmitter

Mount the camera in the correct position. Connect the video cable to VIN and GND video input using 75 ohm coaxial cable. Connect a regulated 12V power supply rated at greater than 0.5 amps to the power terminals ensuring the correct polarity.

### Receiver

Connect the VID and GND video output to a monitor using 75 ohm coaxial cable. Connect a regulated 12V power supply rated at greater than 0.5 amps to the power terminals ensuring the correct polarity.

### Propagation

With any radio system there are a number of factors that affect the system performance. These are:

- Transmitter output power
- Height of transmitter and receiver antenna
- Length and type of coaxial antenna feeder
- Topography between transmitter and receiver
- The weather

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