

FEATURES

- Real time video signal transmitted by radio
- R F Power 10mW
- Four channels
- PAL colour or monochrome CCTV
- 1V pk – pk, 75 ohms video signal
- Pan & Tilt or RS232/485 Control System (option)
- ETSI 300-400-1 Licence exempt
- Range 0.5 Km - 2 Km Line of Sight
- Compact size
- 12V DC supply
- R F frequency 2.4 GHz – 2.8 GHz
- FM modulation
- Audio Channel (option)
- Alarm Channel (option)



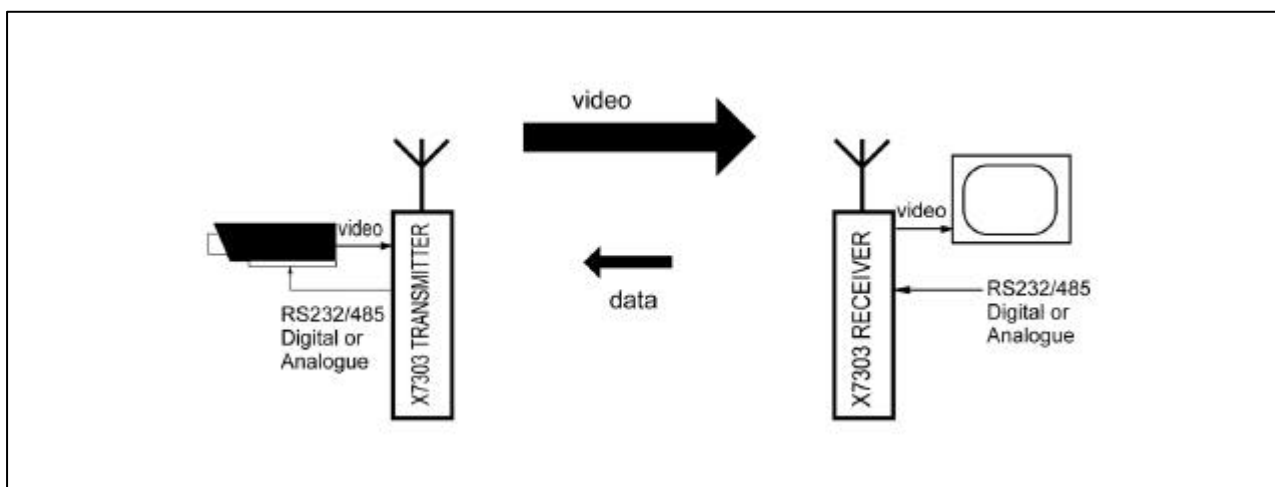
DESCRIPTION

No licence is required to operate the X7303 Video Link. It consists of a compact 10mW 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 radio link to a phono connector output on the receiver. A range of 0.5Km to 2Km 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



WARWICK WIRELESS LIMITED

THE MANOR, ASTON FLAMVILLE, LEICESTERSHIRE, LE10 3AQ ENGLAND
TEL: +44 (0) 1455 233616 FAX: +44 (0) 1455 233179 WEB: www.radiotelemetry.co.uk

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	2.4		2.8	GHz	ETSI 300-400
Channels		4			
Modulation		FM			
Range		500.0	2000.0	Metres	
RF Power		10		mW	ERP
Video Input / Output		1V			PAL/Mono
Supply Voltage	11	12	14	Volts	
Supply Current	450	500	550	mAmps	

AUDIO CHANNEL

An audio signal can be superimposed on the video signal at the transmitter and presented at the receiver.

ALARM CHANNEL

A digital input can be superimposed on the video signal at the transmitter and presented as a voltage free contact at the receiver.

INSTALLATION

Transmitter

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

Receiver

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

RF Frequency

Four RF frequencies can be selected by setting one of the four DIL switches located inside the transmitter and receiver. A video bridge will only operate successfully if the transmitter is set to the same RF frequency as the receiver.

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

WARWICK WIRELESS LIMITED

THE MANOR, ASTON FLAMVILLE, LEICESTERSHIRE, LE10 3AQ ENGLAND
TEL: +44 (0) 1455 233616 FAX: +44 (0) 1455 233179 WEB: www.radiotelemetry.co.uk