X7301 CCTV
VIDEO LINK
DATASHEET 136

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

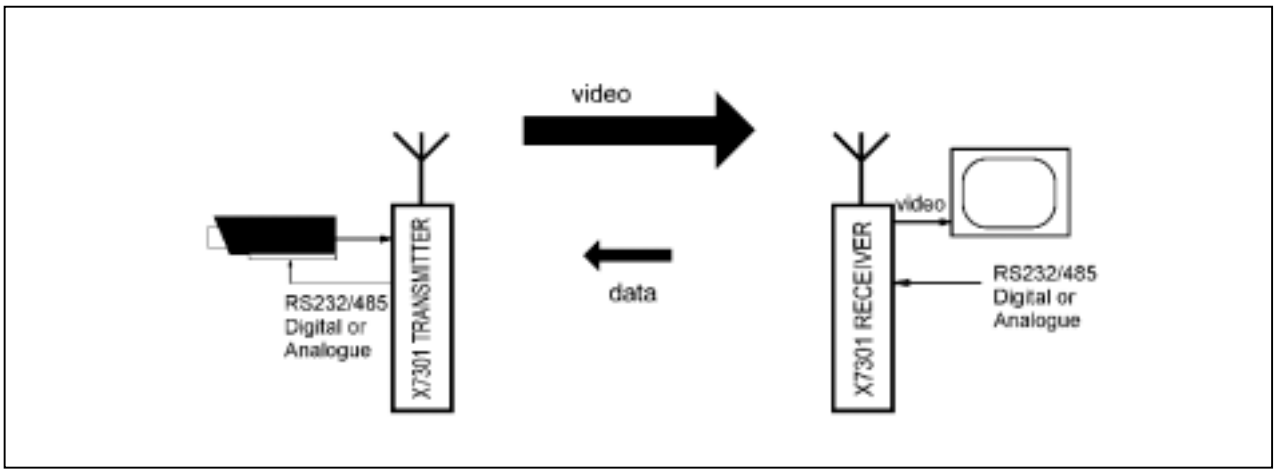
DESCRIPTION

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



UK / Europe Office
Tel: +44 (0)845 9000 601
Fax: +44 (0)845 9000 602
info@omniinstruments.co.uk
www.omniinstruments.co.uk

Australia / Asia Pacific Office
Tel +61 (0)282 442 363
Fax +61 (0)294 751 278
info@omniinstruments.com.au
www.omniinstruments.com.au

USA / Canada Office
Tel +1-866-849-3441
Fax +1-866-628-8055
info@omniinstruments.net
www.omniinstruments.net

X7301 CCTV
VIDEO LINK
DATASHEET 136

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 then 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

UK / Europe Office
Tel: +44 (0)845 9000 601
Fax: +44 (0)845 9000 602
info@omniinstruments.co.uk
www.omniinstruments.co.uk

Australia / Asia Pacific Office
Tel +61 (0)282 442 363
Fax +61 (0)294 751 278
info@omniinstruments.com.au
www.omniinstruments.com.au

USA / Canada Office
Tel +1-866-849-3441
Fax +1-866-628-8055
info@omniinstruments.net
www.omniinstruments.net