

## Ogier Electronics Multichannel ML500-60 Links

The Multichannel ML500-60 can transmit up to 10 video channels together with data or audio. The designator 60 indicates the antenna size in cm

Number of video channels	Up to 10 in one direction	
Number of data or audio channels	1 in both directions as standard. Others can be added as options	
Frequency band	4.4 to 5.0 GHz	
Frequency stability	Phase locked to 30 ppm	
Range - all weathers	15 km	
Availability	99.95% (UK conditions)	
Antenna type (both ends)	High performance Parabola	
Antenna size (both ends)	60 cm diameter	
Antenna gain (both ends)	26 dBi	
Transmit power	24 dBm shared between the channels	
Transmit EIRP	50 dBm typical	
Polarisation	Vertical	
Receiver Noise Figure	4 dB	
Carrier to Noise	18 dB	
Signal to Noise	50 dB	
Carrier to Interference	30 dB	
Modulation	Wideband FM, 10.5 MHz deviation	
Pre-emphasis	Compliant with CCIR Rec 405-1	
Tuner bandwidth	27 MHz	
Video inputs/outputs	PAL or NTSC 5.6 MHz 1Volt 75 ohm	
Video Quality	6% Differential Gain	
	6 Deg Differential Phase	
	6% Bar Amplitude Error	
	6% C/L Gain Inequality	
	6% C/L Intermodulation	
	75 nS C/L Delay	
	6% Bar Tilt	
	2% 2T K	
	6% 2T P/B	
Video Encryption option	Line cut and rotate	
Data inputs/outputs	Either, RS 485, 422 or 232 at 19.2 kbps Simplex, half duplex or full duplex. Other options available	
Audio option (instead of data)	0 dBm in 600 Ohms balanced or unbalanced	
Audio frequency response	50 to 10,000 Hz +/-3dB	
Audio Signal to Noise	50 dB	
Audio harmonic distortion	5% at 1 kHz and 0 dBm	
Input voltage	100 - 250 Volts AC, 50 - 60 Hz	
Input power	30 Watts each end	
Temperature Range	-20 to +60 C	
Wind	Up to 200 kph	
Equipment	Antenna, Transmit Transceiver and Modulator at video transmit end. Antenna, Receive Transceiver and Demodulator at video receive end	
Dimensions	Antenna	60cm x 60cm x 60 cm
	Transceiver	26 x 26 x 23 cm
	Modulator/Demodulator	50 x 40 x 22 cm
Connections	Power and Data/Audio	Terminal connectors in Modulator and Demodulator Units
	Video	BNC connectors in Modulator and Demodulator Units
		2 CT100 cables from each Modulator or Demodulator to its corresponding Transceiver
		N Type from each Transceiver to the Antenna
Life	15 Years	
Routine maintenance	None required	
Weight	Antenna	16 kg
	Transceiver	8 kg
	Modulator / Demodulator	Up to 25 kg
Mounting	Antenna and Transceiver	75 to 110 mm dia vertical pole
	Modulator / Demodulator	Wall
RF Hazard	None (< 0.4 mW/sqcm average at antenna)	