



OMNILINK LOW COST PORTABLE TV VIDEO LINK

- **Point-to-Multipoint Link for High Quality Video and Stereo Audio**
- **Distances of up to 20 Km**
- **Transports from one to four NTSC/ PAL analog channels with associated stereo audio**
- **FM Modulation for high quality signals**

PRODUCT APPLICATION:

The OMNILINK Portable TV Video Link is a low-cost, high-quality video plus audio link ideally suited for applications such as mobile TV news-gathering systems.

The FM system operates in the unlicensed 5740–5860 MHz ISM band and can be used at line-of-sight distances of up to 20 Kilometers, depending on options.

The system transmits NTSC or PAL video channels with stereo or mono audio. Each transmitter can be tuned to any one of 10 channels within the band.

Simultaneous transmissions of multiple channels from one of from several mobile TV stations to the same central base station are possible.

The link has an omni-directional receive antenna so that signals can be transmitted from anywhere (within line of sight of the receiver) without the need to point the receive antenna towards the transmitter.

OMNILINK: Point-to-Point Monochannel Video Link in the License Free Band 5.8 GHz	
Distance	Description
20 Km	TV Link, Model OMNILINK 5.8-122, 2 Watts Transmitter, one antenna of 6 fts diameter, an one omnidirectional reception antenna.
15 Km	TV Link, Model OMNILINK 5.8-002, 2 Watts Transmitter, one antenna of 3 fts diameter, an one omnidirectional reception antenna.

Product Specification¹

CABLE AML

Model OMNILINK 5.8-XX

Transmitter Specifications	
Frequency Range:	5740 to 5860 MHz
Distance:	Up to 20 Kms, depending on Options
Frequency Stability:	0.0025%
Video Input Impedance:	75 Ohms
Video Standard:	NTSC/PAL with 460/525 lines horizontal resolution
Audio Input Level:	1 V pp line level (each of two channels)
Audio Input Impedance:	600 Ohms
DC Power:	120 VAC ²
Mounting:	Outdoor, parabolic dish antenna
Environmental:	-30 to +55 degree Centigrade, 100% humidity
Receiver Specifications	
Receiver Sensitivity:	-90 dBm
Channel Rejection:	> 20 dB between even channels, 20 dB between odd channels and > 90 dB with 4 channel spacing
Image Rejection:	> 60 dB
Signal To Noise:	Video: > 45 dB with -75 dBm RF input > 40 dB with -80 dBm RF input Audio: > 12 dB SINAD with -85dBm RF input
Audio Output:	1.5 V pp line level typical at 600 Ohms
DC Power:	120 VAC ²
Mounting:	Outdoor, Fixed omnidirectional antenna mount
Environmental:	-30 to +55 degree Centigrade, 100% humidity

¹ Specifications subject to change without prior notice.

² Other voltages available