



Applications:

- ▶ Wireless Video Surveillance Links
- ▶ Covert Installations

Key Features

- ▶ Transmit Up To 4 Channels Over 1 Link
- ▶ DC Powered
- ▶ Small Size
- ▶ Rugged Watertight Housing
- ▶ PAL/NTSC Compatible
- ▶ Source Genlocking Not Required

The Gemini video link expander can transmit 4 video channels over one link and is optimized for wireless video surveillance links. Its small size and rugged DC powered design are ideal for covert installations.

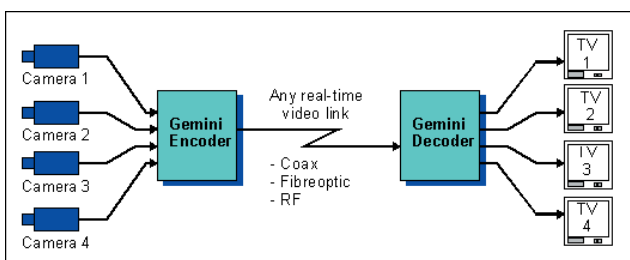
Gemini, is an advanced video multiplexer system that allows up to 4 independent video channels to be transported over a single link. By effectively quadrupling the number of cameras over a standard video connection, Gemini can dramatically save hardware and installation costs.

Gemini is compatible with any real-time PAL or NTSC video link, whether coax, fibre-optic or wireless. The Gemini encoder automatically configures itself to the number of active cameras connected, switching on each video field, ensuring the best possible picture update rate at all times. The decoder provides 4 independent video outputs, together with picture-in-picture options allowing several cameras to be monitored on one or a combination of two screens.

Gemini is ideally suited for expanding the capacity of RF & microwave wireless links as it performs well in difficult reception conditions and also makes best use of the limited number of RF frequencies available. The encoder and decoder units are simple to install, DC powered and housed in rugged watertight housings - ideal for any video surveillance installation.

With Gemini 4 there is now a highly cost effective way of adding capacity to any video surveillance link.

Gemini's picture-in-picture (PIP) modes allows up to four cameras to be monitored using one or two screens. This feature is especially useful in surveillance applications where there is a limited number of TV monitors available. There are 16 modes including various quad displays together with side-by-side and picture-in-picture displays



Video	
Multiplexing Method	Field Sequential
Number of Input/Output Channels	4 In, 4 Out (Configurable 1 to 4)
Video Standards	Pal or NTSC 525 & 625 Lines
Video Input/Output	BNC 1 Vpp 75R
Digital Sampling	288 Lines by 720 Pixels, 16 bits YUV
Signal to Noise	> 50 dB Weighted (> 55 dB Typical)
Lock-in Time	< 1 Second (Typical)
Picture Update Rate	1 Camera; 50 Fields per sec. (f/s) 2 Cameras; 25/25 f/s 3 Cameras; 25/12.5/12.5 f/s 4 Cameras; 4 x 12.5 f/s

Outline Specifications	
Mechanical Size	6.3" x 3.54" x .98" (16 x 9 x 2.5 cm)
Operating Temperature Range	-10° to +55 °C
Weight	15.87 oz (450 g)
DC Power Input	7 to 32 VDC
Encoder Power Consumption	< 3.6W (< 300 mA @ 12V)
Decoder Power Consumption	< 5.0W (< 417 mA @ 12V)
EMC Compliance	EN5502 Class A & EN50082-1 FCC Part 15B Class A
Standard Accessories	<ul style="list-style-type: none"> • User Guide • Power Leads • Carrying Case

