

Gemini Video Link Expander

COBHAM

The most important thing we build is trust.

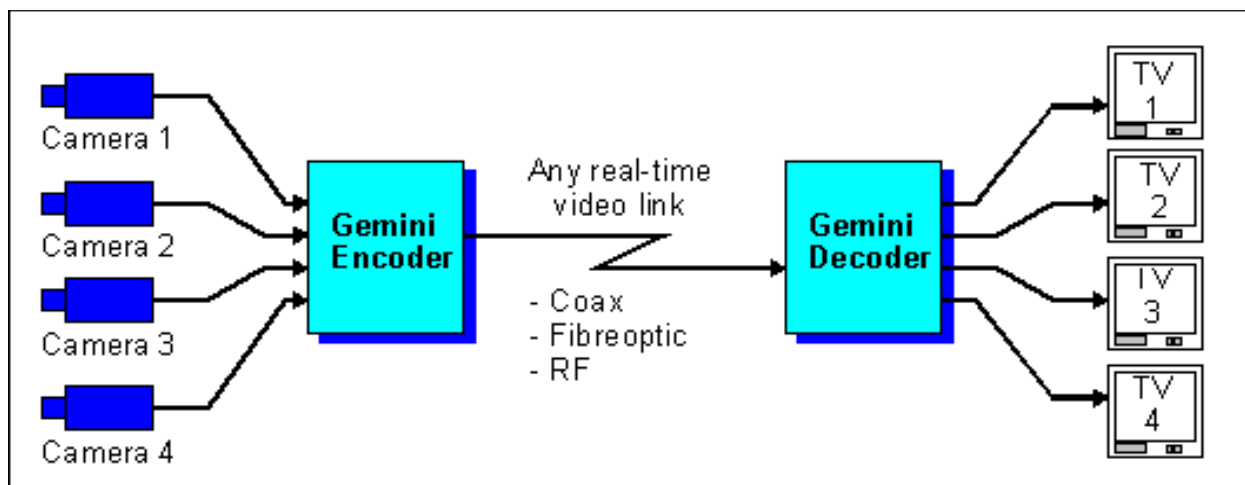
- Transmits up to 4 video channels over one link.
- Fast update rate pre channel by video field multiplexing.
- Camera friendly: NTSC and PAL compatible without gunlock.
- Optimized for use with wireless video surveillance links.
- Small and rugged DC powered units ideal for covert installations.
- Advanced picture-in-picture display options.



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., fiber-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

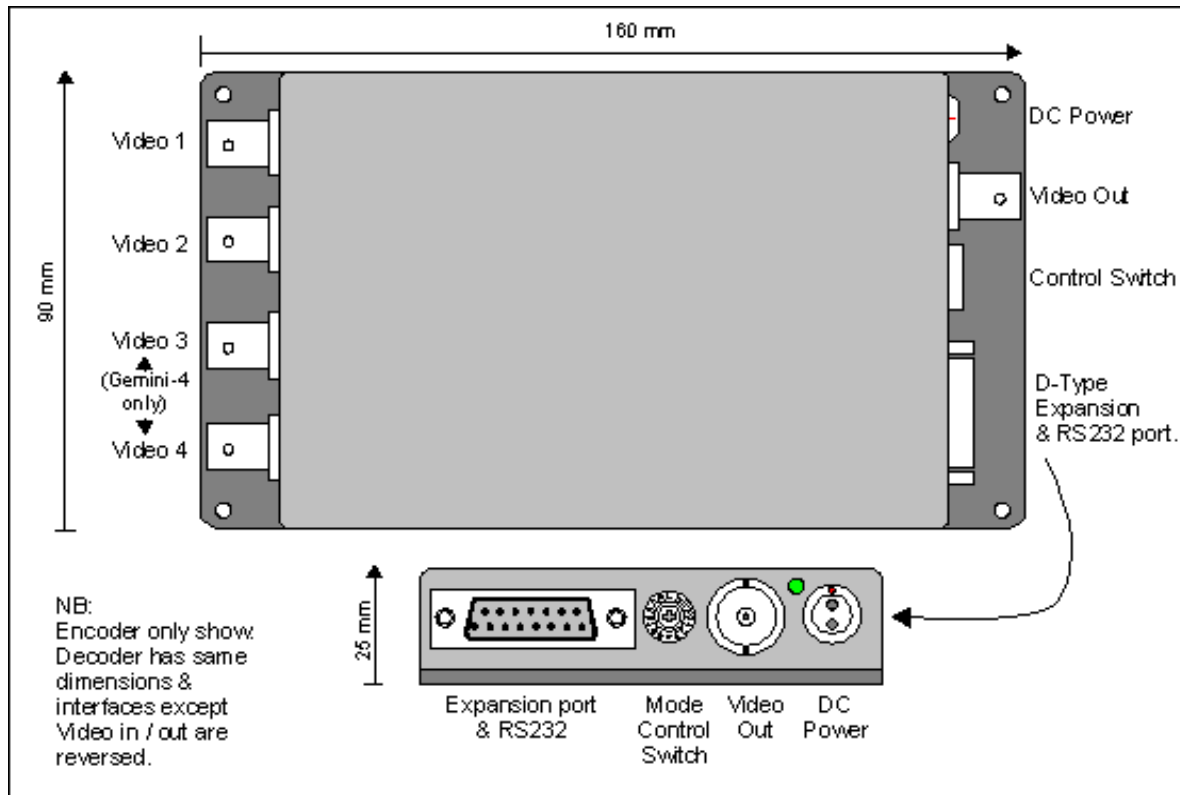
4 independent video outputs, together with picture-in-picture options allowing several cameras to be monitored on one or a combination of two screens. Gemini is ideally suited for expanding the capacity of RF & microwave wireless links as it performs well in difficult reception conditions and also makes the 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.

System Diagram



Specifications subject to change without prior notice
Typical values shown unless min or max is specified
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Picture-In-Picture

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.

Some examples of Gemini's picture-in-picture modes are shown below:



Camera 1



Camera 2

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Camera 3



Camera 4



Cam 1 over 2 with scale



Cam 3 beside 4 with scale



PIP Cam 1 with insert of Cam 2



Quad

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Outline Specifications

Mechanical Size:	160 x 90 x 25 mm
Operating Temperature Range:	-10 to + 55 deg C
Weight:	450g (approx)
DC Power Input:	7 to 32 V DC
Encoder Power Consumption:	<3.6 Watts (<300 mA @ 12V)
Decoder Power Consumption:	<5.0 Watts (<417 mA @ 12 V)
EMC Compliance:	EN5502 Class A & en50082-1 FCC part 15B class A
Standard Accessories:	User guide, power leads, carrying case
Picture Update Rate:	1 camera; 50 fields per sec. (fps) 2 cameras; 25 / 25 fps 3 cameras; 25 / 12.5/ 12.5 fps 4 cameras; 4 x 12.5 fps