

Viewlock II Video Encryption System

VIEWLOCK

VIDEO ENCRYPTION SYSTEM

- **Highly secure** -

line cut and rotate video encryption with user programmable encryption keys

- **Very low DC power consumption**

- less than < 55 mA at 12 Volts DC.

- **Optimised for use with video surveillance links** -

very fast "lock-in" time, tolerant to noise and interference.

- **Ideal for covert installations** -

rugged & weatherproof miniature housings.

- **Advanced features and options**

on-screen display of status, [optional digital audio scrambling](#).



Viewlock II is an advanced video encryption system designed to protect law enforcement video surveillance links from interception. The system offers an excellent level of video security by employing dynamic line cut and rotate video scrambling combined with multiple encryption keys. Highly secure digital audio scrambling is also an option via the system's Audiolock upgrade.

The Viewlock II video encryption system is compatible with any analogue video link and, with its fast lock-in time and robust performance, is ideal for use with RF links - even in marginal reception conditions. Furthermore, with its small dimensions, rugged construction and ultra-low DC power requirement Viewlock II is perfect for covert installations.

With these outstanding features, together with proven in-field reliability, Viewlock II is now established as the leading video encryption system for the protection of covert video surveillance transmissions by the world's law enforcement agencies.

Video Scrambling

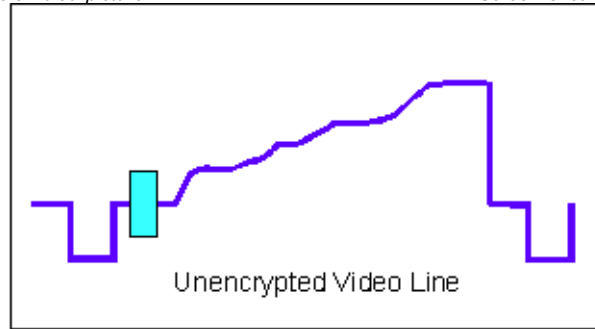
Viewlock II randomly cuts and rotates each active picture line, offering a very high level of picture concealment and security whilst maintaining link compatibility. Viewlock II even automatically configures itself for 525 line NTSC or 625 line PAL operation and is therefore compatible with almost any transmission system used throughout the world.



Screen shot of scrambled picture



Screen shot of decoded picture

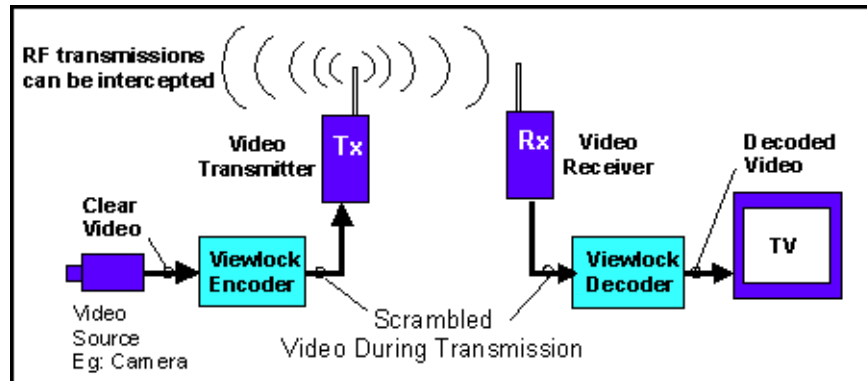


Unencrypted Video Line

Line cut and rotate video scrambling

Optimised for wireless surveillance links

Viewlock II has been optimised to operate with demanding transmission systems such as RF & microwave video links. It has a very fast "lock-in" time, excellent decoded picture quality and high tolerance to multipath and noise. Indeed, robust in-field performance is a major strength of the Viewlock II video encryption system and its operation is virtually transparent to any link, resulting in little or no effect on range or performance.



Typical Viewlock Application

Highly secure scrambling

Viewlock II randomly cuts and rotates each active picture line, offering a very high level of picture concealment and security whilst maintaining link compatibility. Viewlock II even automatically configures itself for 525 line NTSC or 625 line PAL operation and is therefore compatible with almost any analogue transmission system used throughout the world.

Covert surveillance installation

Viewlock II's rugged construction, small dimensions and low DC power requirement make the system ideal for covert installations. Furthermore, its wide operating temperature range and weatherproofing to IP65 specifications, means that permanent outdoor operation is not a problem.

On Screen Display (OSD)

The Viewlock II video encryption system includes an on-screen-display as standard showing information about the status of the link. The OSD shows "Secure" when the link has been successfully encoded and decoded, and "Insecure" when the video has not been scrambled. To aid fault finding and installation Viewlock II also displays additional messages such as "No Link", when there is no video at the input of the decoder, and "No Video" when the encoder's input is absent.

Video Encryption Specification

Outline Specifications

Mechanical Size	127 x 60 x 23 mm
Operating temperature range	-10 to + 70 deg C
Weight	220g (approx)
DC power input	6 to 32 V DC at <0.65 Watts eg <55 mA at 12 V)
EMC compliance	EN5502 Class A & EN50082-1 FCC part 15B class A

Video

Video encryption method	Active line cut and rotate
Number of cuts points	256
Video standards	PAL & NTSC 525 & 625 lines (auto switching)
Video input / output	BNC 1 Vpp 75R
Digital sampling	8 bits
Signal to noise	> 55 dB weighted (>60dB typ)
Differentail gain	< ± 4%
Luminance non-linearity	< ± 4%
Differential phase	< ± 5 deg
Lock-in time	< 0.25 sec (typical)

Due to continual product development Ovation Systems reserve the right to change specifications without notice. E&OE.