



LEI-564

AFD Insert, Monitor, Delete



The LEI-564 inserts Active Format Description (AFD) data into an HD/SD video signal. This unit accepts either SD-SDI or HD-SDI input and transmits a re-clocked signal out through dual SDI outputs. AFD is a system of codes used to tell DTV receivers, up/down converters, and other professional video equipment, how the video signal is to be displayed, especially if the aspect ratio has changed. In video production, AFD is a versatile tool that eases work flow and preserves image quality. As video productions migrate to storing all their material in HD only and converting to SD as necessary for final transmission, the LEI-564 offers a simple and reliable solution for adding in AFD.

Automatic AFD Detection

The video signal format can be a 270 Mb/s SD or 1.5Gb/s HD video stream. There is automatic detection of most SD and HD video standards. The signal presence and format are indicated on the display. The AFD data is inserted as vertical ancillary data on video lines allowed per format, selected by the user. The unit is controlled by an 8 character display, with menu navigation by 2 buttons and a rotary encoder.

Four Modes of Operation

The four modes of operation include; 'Detect', 'Insert', 'Delete' and 'Auto'. 'Auto' is used for inserting AFD, only if there is no AFD detected. 'Detect' mode will display the AFD already in the stream. Settings are saved in flash for easy configuration. The unit can regenerate the payload identifier (352M) for all outputs.

Rack Mounted Unit

The LEI-564 is a one RU chassis that is housed in the same case as the well accepted 700 series. A black front panel distinguishes between the two series. Three 500 or 700 series can be mounted in the PRT700 rack tray.

Exceptional Technical Support

The LEI-564 AFD is backed by the Link Electronics standard 10-year warranty and 24/7 free customer support. It meets the innovative, high performance, flexibility, and reliability requirements of all Link Electronics products.

Features

- 3GB/s Level A & B
- AFD Insertion
- AFD Delete

- AFD Monitor
- Auto Insert (Only if not detected)

- HD/SD/SDI I/O
- User Programmable Settings



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Serial Digital Interface Input:

Connectors:One 75 Ω BNC
 Format:270 Mb/s (SMPTE ST 259) or 1.48 Gb/s (SMPTE ST 292)
 DC Offset:0.5 V maximum
 Signal Level:800 mv ±10%

Serial Digital Interface Output:

Connector:Two 75 Ω BNC's
 Format:Follows Input
 Signal Level:1 V(P-P) ±10%
 DC Offset:±100 mV
 Jitter Improvement:~ 5%
 SD @ 270 Mb/s:25 ps(P-P), Typical
 HD @ 1.48 Gb/s:15 ps(P-P), Typical

Front Controls and Indicators:

Enter:Momentary Switch with LED
 Escape:Momentary Switch with LED
 Menu Options:Eight Character LED Display
 Menu Select:Optical Rotary Encoder

Environmental:

Temperature:0° to 50°C (ambient)
 Humidity:10% to 90% non-condensing

Mechanical:

Height:1.5 Inches
 Width:5.5 Inches
 Length:9 Inches
 Weight:1.75 Lbs.

Power Supply (PWT-400):

Input Power:Auto Detection 100 to 240 VAC at 50/60 Hz
 Output:5 VDC up to 3.2 A
 Compliance:UL Approved

Listed below are the AFD codes for SD and HD:

SD Codes:

- | | |
|---------------------------|------------------------------|
| 0. Same or Bar Data | 8. Full Frame 4:3 |
| 1. Reserved | 9. Full Frame 4:3 (8) |
| 2. Letter box 16:9 Top | 10. Letter box 16:9 No Crop |
| 3. Letter box 14:9 Top | 11. Letter box 14:9 |
| 4. Letter box > 16:9 Bars | 12. Reserved |
| 5. Reserved | 13. Full Frame 4:3 Alt 14:9 |
| 6. Reserved | 14. Letter box 16:9 Alt 14:9 |
| 7. Reserved | 15. Letter box 16:9 Alt 4:3 |

HD Codes:

- | | |
|---------------------------|-------------------------------|
| 0. Same or Bar Data | 8. Full Frame 16:9 |
| 1. Reserved | 9. Pillar box 4:3 |
| 2. Full Frame 16:9 (8) | 10. Full Frame 16:9 Protected |
| 3. Pillar box 14:9 (11) | 11. Pillar box 14:9 |
| 4. Letter box > 16:9 Bars | 12. Reserved |
| 5. Reserved | 13. Full Frame 4:3 Alt 14:9 |
| 6. Reserved | 14. Full Frame 16:9 Alt 14:9 |
| 7. Reserved | 15. Full Frame 16:9 Alt 4:3 |

The manufacture reserves the right to change specifications without notice

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