



Front Panel Configuration Switches



EQ and LVL must be adjusted; see installation manual for more information

Configuration Switch Functions

SW1	Controls various video functions, such as the video characteristics (AGC, pedestal, standby signal type, and line rate) and the loss of video alarm
SW2	Enables audio embedding and controls various audio characteristics (such as the destination group), the SFP alarm enable, 20 or 24-bit audio resolution, and the EMS enable
SW4	Controls the termination of the analog audio input signals
SW5	Controls the termination of the analog video input signal
SW6 (Rotary Switch)	Controls the peak analog audio level that the ILC170AD can manage without clipping

InfinityLink ILC170AD **Analog Video and 4 Ch Audio to SD-SDI**

Artel ships the ILC170AD configured as follows:

- Analog audio source with 600 Ohm termination
- Analog video source with 75 Ohm termination
- Automatic gain control enabled
- Analog video pedestal enabled
- 24-bit audio resolution, +20 dBm (600 Ohms) peak audio level without clipping
- Audio embed enabled into destination group #1

DIP SWITCH CONFIGURATIONS

SW1 Configuration			
	Function	Off	On
S1	Pedestal on	Disabled	Enabled
S2	Video AGC	Disabled	Enabled
S3	Reserved	-	Must be On
S4	Reserved	-	Must be On
S5	Reserved	-	Must be On
S6	Standby Signal	Artel•	SDI Grey
S7	SDI Standby	625 Line	525 Line
S8	Alarm on Loss of Video	Enabled	Disabled

Off

Disabled

Group 1

Group 2

Group 3

Group 4

Off

20-bit

Disabled

Local

Control

-

*Non-video keep-alive signal

SW2 Configuration

Audio Embed

S4

On

On

Off

Off

Function

Resolution

Reserved

SFP Alarms

EMS Override

Audio

Function

Reserved

S1

S2

S3

On

Off

On

Off

S5

S6

S7

S8

Factory Default: All On

On

Audio Destination

On

24-bit

Must be On

Enabled

Remote

Control

Enabled

Must be On

- Analog video enabled through the BNC connector
- SDI grey field, at the NTSC rate, enabled if no video is present
- Audio mode set to 24 bits
- · Alarm enabled for no SFP present
- · Alarm disabled for no video present
- EMS override enabled (IL Manager can change the ILC170AD configuration)

SW4 Configuration Analog Audio Termination

Termination			
	Function	Off	On
S1	Audio Ch A	High Z	600 Ohm
S2	Reserved	-	Must be On
S3	Audio Ch B	High Z	600 Ohm
S4	Reserved	-	Must be On
S5	Audio Ch C	High Z	600 Ohm
S6	Reserved	-	Must be On
S7	Audio Ch D	High Z	600 Ohm
S8	Reserved	-	Must be On

Factory Default: All On

SW5 Configuration Analog Video Termination			
	Function	Off	On
S5	Video Termination	High Z	75 Ohm

Factory Default: On

SW6 Configuration Analog Audio Termination		
POS	Function	
0	+10 dBm	
1	+ 12 dBm	
2	+14 dBm	
3	+ 16 dBm	
4	+18 dBm	
5	+20 dBm	
6	+22 dBm	
7	+24 dBm	

Factory Default: All On

Factory Default: +20 dBM



Install SFP



■ ILC170AD FRONT PANEL LEDS

LED	Function	Color	Description
ок		OFF	If power is applied to the system, an internal fault with the ILC170AD may exist
	ILC170AD	Green	Normal operation
	Module	Yellow	If no other status LEDs indicate a minor alarm, then a temperature alarm is indicated
	Status	Red	Major alarm exists that requires immediate attention. TX status LED may provide fault information. If not, the alarm may be the result of an internal error
IL Manager EMS System Status		OFF	The ILC170AD module is in local mode and its configuration is controlled by the onboard configuration switches
	System	Green	The ILC170AD module is in remote mode AND the configuration has been set by IL Manager. When in remote mode, the actual configuration of the module will likely not match the settings of the configuration switches and changing the configuration switches will have no effect on the module operation
		OFF	Transmitter is disabled. The ILC170AD is being used to feed another module through the chassis backplane
	Transmitter	Green	Normal operation (input signal present)
ТХ	Status	• Yellow	The ILC170AD cannot detect a video input signal and is transmitting the standby signal. Either an SDI grey screen or a non-video keep-alive signal is transmitted as the standby signal according to the setting of switches SW1: S6, S7
		* Red	No optical SFP is installed or an optical SFP TX fault exists
		OFF	No video input is detected
	Video	Green	Video input detected
Video	Signal Status	Yellow	Video overload
		Red	Major alarm condition exists because ILC170AD is unable to convert the analog video
Audio A/B	Audio Signal Status for A and B Channels	OFF	Embedding disabled (SW2, switch S1 is OFF)
		Green	Normal operation
		Yellow	Embedding enabled and the audio peak is between -6 dBFS and -1 dBFS
		Red	Embedding enabled and the audio peak is > -1 dBFS (overload)
Audio	Audio Signal Status for C and D Channels	OFF	Embedding disabled (SW2, switch S1 is OFF)
		Green	Normal operation
C/D		Yellow	Embedding enabled and the audio peak is between -6 dBFS and -1 dBFS
		Red	Embedding enabled and the audio peak is > -1 dBFS (overload)

* Flashing Red

Sales



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