

ADX-1881

Description

The ADX-1881 is a high-quality AES de-embedder designed to extract eight (8) 24-bit 48 kHz digital audio signals, Ancillary time code (ATC), longitudinal time code (LTC) and ancillary data from a single SMPTE 292M HD-SDI or SMPTE-259M-C SD-SDI signal. The ADX-1881 will output audio silence with a loss of the input signal. A delay of up to 6 fields can be added to the audio. The ADX-1881 has a built-in audio test tone signal. The ADX-1881 provides automatic input format detection as well as automatic equalization. A serial data signal (RS-422) output is available to provide Dolby E metadata output or simply to output a serial RS422 signal. Two GPI outputs will recreate the GPI activated by the AMX card. By combining AMX and ADX cards at each end a full duplex link may be established.

The ADX-1881 is designed for the DENSITÉ frame.

Video - Features

- Serial HD/SD-SDI input with automatic equalization for up to 110m/250m of cable
- Automatic detection of video input format
- Two pass-through HD/SD-SDI video outputs

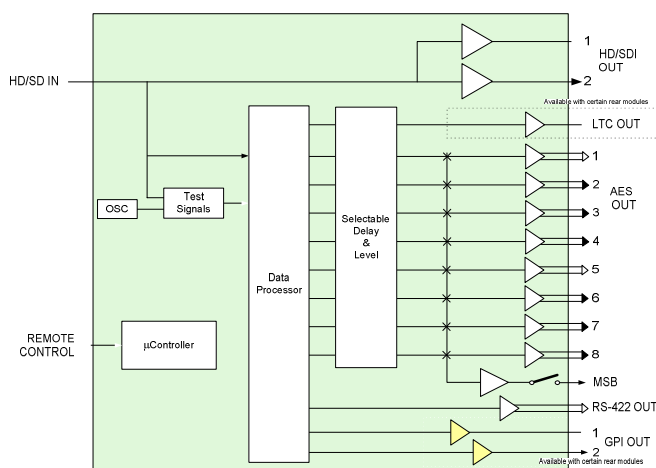
Audio - Features

- 8 AES outputs: either 110 Ω balanced or 75 Ω unbalanced, depending on rear panel in use
- Selectable audio delay of up to 3 frames in 1/2 frame steps
- 24-bit digital audio disembedding
- Audio silence output on loss of video input
- Left/Right channels swappable for each AES output
- Selectable routing of audio groups to AES outputs
- Co-phased audio outputs
- Dolby-E compatible
- Monitor selector for Densité frame monitoring switch bridge (MSB) and analog, stereo audio output
- Analog monitor output muting for non-linear PCM AES signals

Disembedding Other Signals - Features

- Linear Time Code (LTC) output translated from Ancillary Time Code (ATC) data or Digital Vertical Interval Time Code (DVITC)
- RS-422 serial data output signal reconstructed from ANC data inserted by the embedder (including Dolby metadata)
- Two opto-isolated GPI data output signals reconstructed from ANC data inserted by the embedder

FUNCTIONAL BLOCK DIAGRAM



SPECIFICATIONS

VIDEO INPUT

Video Signal: HD/SD-SDI
SMPTE 292M/SMPTE 259M
(see list of supported formats below)
Embedded audio as per SMPTE 299M/SMPTE 272M
Embedded ATC/DVITC as per SMPTE RP 188/SMPTE 266M
Embedded RS-422 & GPI as per SMPTE 291M (with proprietary DID)
Cable Length: up to 110m/250m of Belden 1694A
Return Loss: >15 dB, 5 MHz to 1.5 GHz/270MHz

AUDIO AES-3id OUTPUT

Signal: AES-3id (SMPTE 276M)
Level: 1.0 Vp-p \pm 10%
Impedance: 75 Ω unbalanced

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SPECIFICATIONS(cont'd)

AUDIO AES SIGNAL

Sampling Rate: 48kHz synchronous

LTC SIGNAL OUTPUT

Signal: Reconstructed LTC from ATC/DVITC
Impedance: < 55Ω source, unbalanced 1kΩ load
Level: 1.0 Vp-p

RS-422 SIGNAL OUTPUT

Signal: RS-422
Rate: Reconstruction of signal input to embedder (38,400 or 115,200 bauds)

GPI SIGNAL OUTPUT (2)

Signal: Opto-isolated, common emitter
Forward voltage 30V max
Reverse voltage 5V max
Rate: DC- to 250 Hz

VIDEO OUTPUT (Input active loop-through)

Video Signal: HD/SD-SDI SMPTE 292M/SMPTE 259M
Return Loss: >15 dB up to 1.5 GHz/270MHz dB
Wideband Jitter: < 0.2 UI p-p

PROCESSING PERFORMANCE

Signal Path: 10-bit video / 24-bit audio
Audio Processing Delay: 875 μs (combined embedding and extraction ‡‡)
Audio Delay: Up to 3 video frames (1/2 frame steps)
ATC/DVITC Delay: None, 1, 2, or 3 frames before translation to LTC

RS-422 Processing Delay: 500 μs max. (combined embedding and extraction ‡‡) (1 frame in metadata mode)

GPI Processing Delay: 4 video lines (combined embedding and extraction ‡‡)

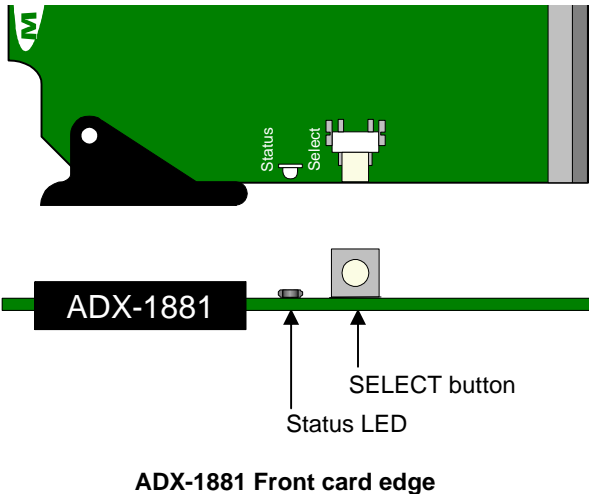
Test Signals: Audio - 1 kHz tone (R steady, L pulsed) -18dBFS (EBU R49, R68)
LTC – 10 second loop starting at 23:59:00:00

Power: 9.5 W

Note ‡‡: Applicable to combinations of AMX-1881 and ADX-1881

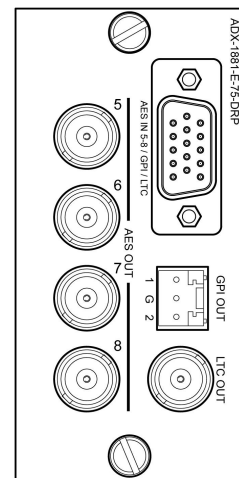
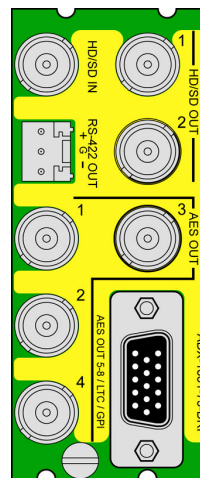
List of supported formats:

1920 x 1080/59.94/I	1920 x 1080/25/PsF
1920 x 1080/50/I	(detected as 1920 x 1080/50/i)
1920 x 1080/29.97/P	1920 x 1080/24/PsF
1920 x 1080/25/P	1920 x 1080/23.98/PsF
1920 x 1080/24/P	1280 x 720/59.94/P
1920 x 1080/23.98/P	1280 x 720/50/P
1920 x 1080/29.97/PsF	525 (NTSC)
(detected as 1920 x 1080/59.94/i)	625 (PAL)



ADX-1881-75-DRP

ADX-1881Breakout Panel



(Note: female 15-pin connectors on both panels)

ADX-1881 Rear Connector Panels

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INSTALLATION

Make sure the following items have been shipped with your ADX-1881. If any of the following items are missing, contact your distributor or Miranda Technologies Inc.

- * ADX-1881 HD/SD 8 AES Disembedder
- * ADX-1881-75-DRP rear panel
- * ADX-1881 rear panel
- * Densite-ext-mount external mounting bracket (one per frame)

The ADX-1881 and its associated rear connector panel must be mounted in a DENSITÉ frame. It is not necessary to switch off the frame's power when installing or removing the ADX-1881. See the DENSITÉ Frame manual for detailed instructions for installing cards and their associated rear panels.

The ADX-1881 has multiple inputs and outputs, and making space for all the necessary connectors at the rear of the frame requires a double-width rear panel.

When a double-width rear panel has been installed, the ADX-1881 must be installed in the right-most of the two slots covered by the panel in order to mate with the panel's connectors. If it is placed in the wrong slot, the front panel LED will flash red. Move the card to other slot for correct operation. No damage will result to the card should this occur.

In addition, the ADX-1881 requires an external mounting bracket and breakout panel. The breakout panel is connected to the rear panel via a multi-conductor cable fitted with two male connectors. The ADX-1881's inputs and outputs occupy both panels.

See the annex at the end of this manual for the specification of the cable to interconnect the rear panel and the breakout panel.

Overview

The DENSITÉ frame incorporates a central controller card, located in the center of the frame, which is equipped with an LCD display and a control panel. The controller handles error reporting and local and remote control for all cards installed in the frame. The display and control panel are assigned to the card in the frame whose SELECT button has been pushed.

Status Monitor LED

The status monitor LED is located on the front card-edge of the ADX-1881 module, and is visible through the front access door of the DENSITÉ frame. This multi-color LED indicates module status by color, and by flashing/steady illumination, according to the following chart (which also indicates fault reporting for this card on the DENSITÉ frame's serial and GPI interfaces).

	REPORT		COLOR (F=flashing)			
	SERIAL	GPI	G	Y	R	FR
No errors			⊕			
No signal	⊕					⊕
No rear						⊕
Test mode				⊕		

⊕ : Factory default. User configurable

A "Flashing Yellow" Status LED indicates that the SELECT button on the front panel has been pushed, and the controller display and control panel are now assigned to this card.

The LED color assignments for some error conditions can be reconfigured by the user (see the chart and menu for details).

User Interface

Pushing the SELECT button will cause the on-card STATUS LED to flash yellow, and the card identification and the current status will be shown on the controller card's display. The STATUS LED will revert to its normal state upon a second push of the button, or after a short delay. The messages which may appear are shown in the top line of the menu chart on page 3

Example :

SELECT button pushed twice when there is no input signal connected to the rear panel and the LED is steady red:

A	D	X	-	1	8	8	1													
N	O																			

Use the local control panel to access the detailed status report shown in the STATUS menu on page 3.

Operating Parameter Adjustment

The ADX-1881 has operating parameters which may be adjusted at the controller card interface. After pressing the SELECT button on the ADX-1881 card, use the keys on the local control panel (described in the Controller card manual) to step through the displayed menu and adjust the parameters. The menus are shown below.

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ADX-1881 Menus

STATUS	—	NO REAR/ NO SIGNAL/ 720p50/ 720p60/ 720p59.94/ 1080p24/ 1080p24sF/ 1080p23.98/ 1080p23.98sF/ 1080p25/ 1080i50/ 1080p29.97/ 1080i59.94/ 625/ 525
	—	AUDIO GROUPS — NONE / 1234
	—	EMBEDDED TC — NONE / PRESENT
	—	EMBEDDED RS422 — NONE / PRESENT
	—	EMBEDDED GPI — NONE / 12
	—	AES OUT 1
	—	BITS — 16 BIT / 20 BIT / 24 BIT / OTHER
	—	MODE — N.I. / 2 CHANNEL / 1 CHANNEL / P/S / STEREO
	—	EMPHASIS — N.I. / NONE / 50/15-us / J.17
	—	USE — CONSUMER / PROFESSIONAL
	—	ENCODING — LINEAR PCM / NON PCM
	—	AES OUT 2 — Same as AES OUT 1
	—	AES OUT 3 — Same as AES OUT 1
	—	AES OUT 4 — Same as AES OUT 1
	—	AES OUT 5 — Same as AES OUT 1
	—	AES OUT 6 — Same as AES OUT 1
	—	AES OUT 7 — Same as AES OUT 1
	—	AES OUT 8 — Same as AES OUT 1
USER PRESET	—	LOAD — [<u>USER 1</u> , USER 2, USER 3, USER 4, USER 5]
	—	SAVE — [<u>USER 1</u> , USER 2, USER 3, USER 4, USER 5]

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AES OUTPUT	AES OUT 1-2	_____	[<u>GROUP 1</u> , GROUP 2, GROUP 3, GROUP 4]		
	AES OUT 3-4	_____	[GROUP 1, <u>GROUP 2</u> , GROUP 3, GROUP 4]		
	AES OUT 5-6	_____	[GROUP 1, GROUP 2, <u>GROUP 3</u> , GROUP 4]		
	AES OUT 7-8	_____	[GROUP 1, GROUP 2, GROUP 3, <u>GROUP 4</u>]		
	AES OUT 1	LEVEL	LEFT	_____	[MUTE, -95.5 dB, ..., <u>0 dB</u> , ..., 12dB]
			RIGHT	_____	[MUTE, -95.5 dB, ..., <u>0 dB</u> , ..., 12dB]
			LOCK	_____	[OFF, <u>ON</u>]
		PHASE INVERT	LEFT	_____	[<u>OFF</u> , ON]
			RIGHT	_____	[<u>OFF</u> , ON]
		MUTE L&R	_____	[<u>OFF</u> , ON]	
	SWAP L&R	_____	[<u>OFF</u> , ON]		
	AES OUT 2	_____	Same as AES OUT 1		
	AES OUT 3	_____	Same as AES OUT 1		
	AES OUT 4	_____	Same as AES OUT 1		
AES OUT 5	_____	Same as AES OUT 1			
AES OUT 6	_____	Same as AES OUT 1			
AES OUT 7	_____	Same as AES OUT 1			
AES OUT 8	_____	Same as AES OUT 1			
AES DELAY	_____	[<u>NONE</u> , 0.5 FRAME, 1.0 FRAME, 1.5 FRAME, 2.0 FRAME, 2.5 FRAME, 3.0 FRAME]	Half values are not relevant for progressive format		
LTC OUTPUT	FROM	_____	[<u>FIRST ATC</u> , SECOND ATC]	Only for HD Input	
	DVITC LINE	_____	[<u>AUTO</u> , 10, 11, ..., 20], [<u>AUTO</u> , 7, 8, ..., 22],	Only for SD Input in 525 in 625	
	DELAY	_____	[<u>NONE</u> , 1 FRAME, 2 FRAME, 3 FRAME]		
RS-422 OUTPUT	MODE	_____	[<u>SERIAL</u> , METADATA]		
	METADATA LINE	_____	[LINE 9, <u>LINE10</u> , ..., LINE20]		

(continued)

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TEST	— AES OUT 1	— [<u>OFF</u> , TONE]
	— AES OUT 2	— [<u>OFF</u> , TONE]
	— AES OUT 3	— [<u>OFF</u> , TONE]
	— AES OUT 4	— [<u>OFF</u> , TONE]
	— AES OUT 5	— [<u>OFF</u> , TONE]
	— AES OUT 6	— [<u>OFF</u> , TONE]
	— AES OUT 7	— [<u>OFF</u> , TONE]
	— AES OUT 8	— [<u>OFF</u> , TONE]
	— LTC OUT	— [<u>OFF</u> , LOOP]

CONFIG ALARM	— NO SIGNAL	— ALARM LEVEL	— [GREEN, YELLOW, <u>RED</u> , FLASH RED]
		— ALARM REPORT	— [<u>NONE</u> , GPI]
	— NO LTC	— ALARM LEVEL	— [<u>GREEN</u> , YELLOW, RED, FLASH RED]
		— ALARM REPORT	— [<u>NONE</u> , GPI]
	— NO AES 1-2	— ALARM LEVEL	— [<u>GREEN</u> , YELLOW, RED, FLASH RED]
		— ALARM REPORT	— [<u>NONE</u> , GPI]
	— NO AES 3-4	— ALARM LEVEL	— [<u>GREEN</u> , YELLOW, RED, FLASH RED]
		— ALARM REPORT	— [<u>NONE</u> , GPI]
	— NO AES 5-6	— ALARM LEVEL	— [<u>GREEN</u> , YELLOW, RED, FLASH RED]
		— ALARM REPORT	— [<u>NONE</u> , GPI]
	— NO AES 7-8	— ALARM LEVEL	— [<u>GREEN</u> , YELLOW, RED, FLASH RED]
		— ALARM REPORT	— [<u>NONE</u> , GPI]
	— TEST MODE	— ALARM LEVEL	— [GREEN, <u>YELLOW</u> , RED, FLASH RED]
		— ALARM REPORT	— [<u>NONE</u> , GPI]

VERSION — ADX-1881: xxx

FACTORY
DEFAULT ——— [RESTORE]

[] Parameter to select

** Press Select pushbutton to activate selection.

Underlined values in the parameter value lists are the factory default values, and will be applied when factory default-restore is selected.

USER PRESET menu

LOAD: Selects which predefined parameter settings will be used by loading a personalized user profile.

SAVE: Saves the parameter settings in one of the five possible user preset profiles.

AES OUTPUT menu

AES OUT 1-2, AES OUT 3-4, AES OUT 5-6, AES OUT 7-8: Selects which embedded audio group will appear at the indicated AES outputs of the ADX-1881.

AES OUT 1, 2, 3, 4, 5, 6, 7, 8: MUTE; SWAP L&R: Select ON or OFF for each of the four AES outputs to mute the output or swap the left and right signals. **LEVEL:** Sets the audio gain from -96 dB to +12 dB in 0,5 dB steps. **PHASE INVERT:** Select "on", to invert the selected audio channel phase.

AES DELAY: Sets the delay of the AES audio as it passes through the disembedder. Selectable between NONE, and a number of video frames (0 to 3 frames in ½ frame steps).

LTC OUTPUT menu

FROM: Allows the user to select the source of the time code appearing at the LTC output as translated from either the first or second embedded ATC (HD input only).

DVITC LINE: Selects the video line from which the DVITC is extracted. The extracted DVITC is then translated to LTC (SD input only).

DELAY: Sets the time code delay when the extracted time code is translated to LTC. The delay is selectable between NONE and a number of video frames (1 to 3).

RS-422 OUTPUT menu

MODE: Sets the RS-422 extraction mode:

- Serial – extracts RS-422 serial data

- Metadata – extracts Dolby metadata (RS-422 formatted)

METADATA LINE: When "Metadata" mode is selected, selects the line from which the Dolby metadata (RS-422) is extracted

CONFIG TEST menu

AES 1, 2, 3, 4, 5, 6, 7, 8: the user can enable or disable a test tone (1 KHz, R-steady, L-pulsed, at -18dBFS) on each of the four AES outputs individually.

LTC OUT: User can enable a LTC test loop (10 seconds loop starting at 23:59:00:00).

CONFIG ALARM menu

The user can configure the status LED presentation (ALARM LEVEL) and fault reporting (NONE or GPI) for some of the fault conditions of the ADX-1881.

NO SIGNAL: the errors include, no HD/SD-SDI signal attached to the card input, or faulty incoming HD/SD-SDI signal.

NO LTC: Indicates that there is no embedded time code data in the HD/SD-SDI signal.

NO AES 1-2, NO AES 3-4, NO AES 5-6, NO AES 7-8: Indicates that the selected audio group for the AES outputs is not present in the HD/SD-SDI signal.

TEST MODE: Indicates whether test signals are present on any of the ADX-1881 audio outputs or LTC outputs.

FACTORY DEFAULT menu

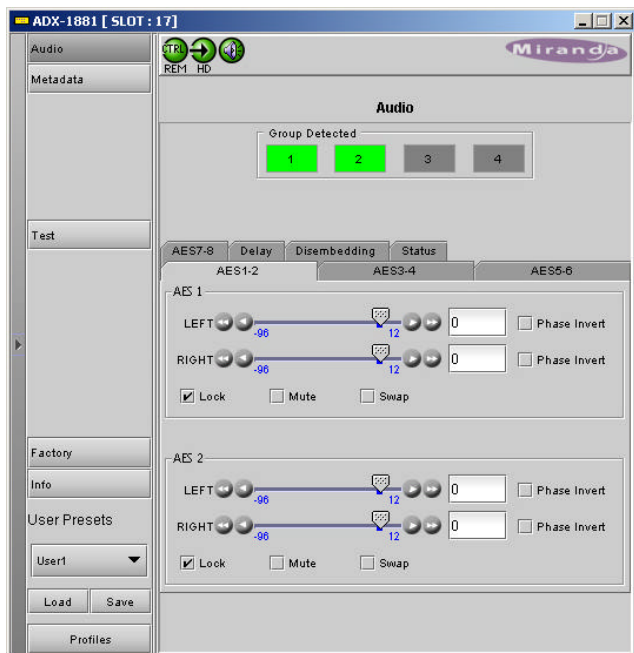
Select **RESTORE** to reset all of the menu-adjustable parameters to a factory-preset state (indicated in the menu by an underline in the list of available choices).

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iControl Interface – ADX-1881

The ADX-1881 can be operated using Miranda's iControl system. This section describes and explains the control panel associated with the ADX-1881. Please consult the iControl User's Guide for information about setting up and operating iControl.

In iControl Navigator or iControl Websites, double-click on the ADX-1881 icon to open the control panel.



There are seven sections in the ADX-1881 iControl panel:

Status Bar: located at the top of the panel, it provides status icons for several key items and text messages explaining the detected errors. A complete description of the **Status bar** begins on this page.

Select the following tabs by clicking on their name at the left side of the panel:

Audio: provides controls for disembedding and processing of audio signals. A complete description of the **Audio** tab begins on page this page.

Metadata: gives access to the controls for disembedding LTC data from the input HD/SD-SDI signal and provides status on the other data also embedded in the input HD/SD-SDI signal. A complete description of the **Metadata** tab begins on page 9.

Test: gives the option to enable output test signals. A complete description of the **Test** tab begins on page 10.

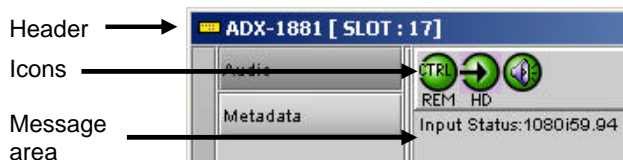
Factory: Allows the user to reset the options to the default factory-preset settings. A complete description of the **Factory** tab begins on page 10.

Info: shows information on the ADX-1881 and allows entry of some data. A complete description of the **Info** tab begins on page 10.

User Presets: Allows the creation of user profiles for a personalized configuration of the ADX-1881. A complete description of the **User Presets** begins on page 11.

Status bar

The **status bar** provides a continuous update of the status of the ADX-1881. The **status bar** includes three sections:



The **header** gives the product's name, and identifies the slot in which it is installed in its Densité frame. At the left is a status icon whose color shows the overall status of the ADX-1881:

- Green = OK
- Yellow = warning
- Red = error

The 3 **icons** monitor specific aspects of the operation of the ADX-1881. Move the cursor over an icon to see its current status in the **message area** below the icons. If there is an error status, the message will automatically appear.

- The first icon shows whether the remote control of this ADX-1881 device is enabled or not.
- The second icon shows the input status. Move the cursor over the icon to display the video format.
- The third icon indicates if audio or video test signals are active.

Audio

The **Audio** tab shows the audio groups detected and provides resources for managing the audio processing of the ADX-1881.

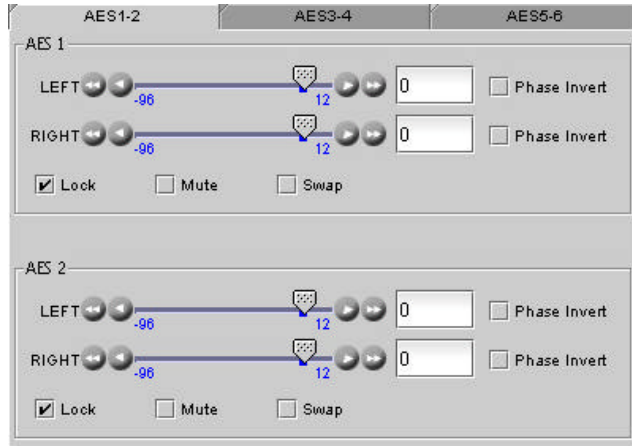
Group Detected: indicates embedded audio groups in the ADX-1881 HD/SD-SDI input.



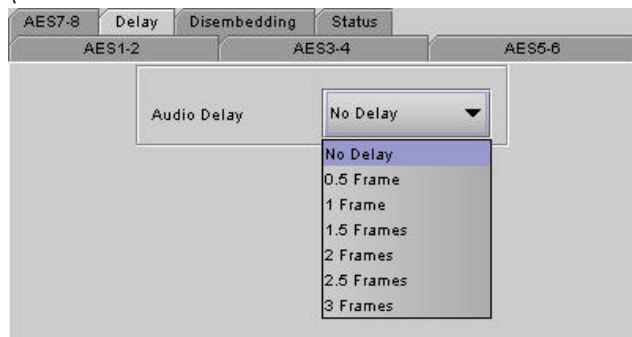
To configure the **AES** digital audio signals, access the AES1 to 4 tabs. There are two sliders (left and right for

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stereo sound) available to set the level from -96 dB to +12 dB in steps of 0.5 dB. To invert the selected audio channel phase, check the **Phase Invert** boxes. The **Lock** option locks both channel level sliders together, so that moving one slider moves the other one as well. The **Mute** option mutes both audio channels completely. The **Swap** option interchanges the right and the left audio channels.



The **Delay** tab allows the user to set the delay of the AES audio as it passes through the disembedder. The delay is selectable between none, and a number of video frames (0 to 3 frames in 0.5 frame steps).



The **Disembedding** tab allows the user to select which embedded audio group will appear at the indicated AES outputs.



The **Status** tab monitors some of the information carried in the AES outputs channel status.

AES Out	Bits	Mode	Emphasis	Use	Encoding
AES 1	N/I	Two Ch	None	PRO	PCM
AES 2	N/I	Two Ch	None	PRO	PCM
AES 3	N/I	Two Ch	None	PRO	PCM
AES 4	N/I	Two Ch	None	PRO	PCM
AES 5	N/I	N/I	N/I	PRO	PCM
AES 6	N/I	N/I	N/I	PRO	PCM
AES 7	N/I	N/I	N/I	PRO	PCM
AES 8	N/I	N/I	N/I	PRO	PCM

The **Bits** status monitors the audio samples word length (in bits). The possible values are 16 bits, 20 bits, 24 bits or other.

The **Mode** status monitors the channel mode. The possible values are two channels (Two ch), one channel (One ch), primary or secondary (Pri/Sec), Stereo or Other. If not indicated, it will show as N/I.

The **Emph** status monitors the audio channel emphasis. The possible values are None, 50/15 μ s and J.17. If not indicated, it will show as N/I.

The **Use** status monitors the use of channel status block. The possible values are either professional (PRO) or consumer (CONS).

The **Encoding** status monitors the audio channel encoding type. The possible values are PCM or NPCM (non-PCM).

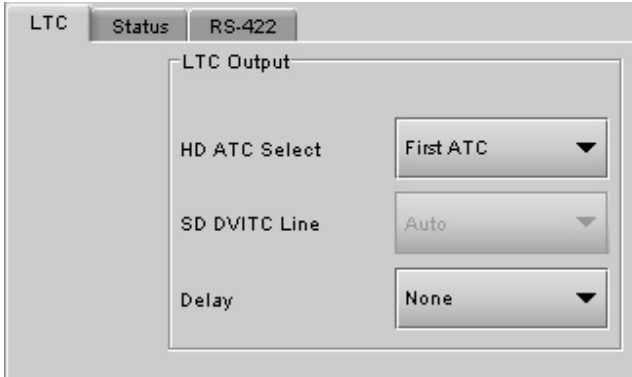
Metadata

The **Metadata** tab offers setting options for the output LTC signal for the embedded time code, RS-422 signal, GP1 and GP2.

The **LTC Output** window allows the user to select the source of the time code appearing at the LTC output (ATC, DVITC). For an HD-SDI input, using the **HD ATC Select** drop down menu, select the ATC signal to be disembedded (first ATC or second ATC).

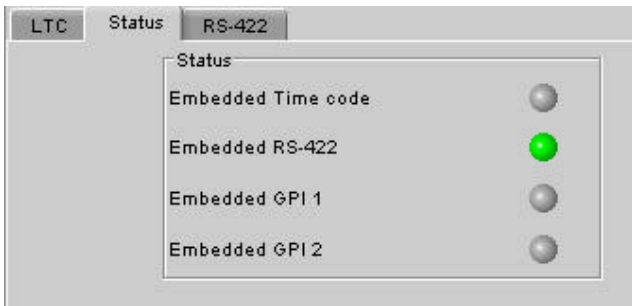
For an SD-SDI input, using the **SD DVITC line** drop down menu, select the desired line to be disembedded. If the input DVITC is in a 525 format, the available selections will be auto or lines number 10 to 20. If the input DVITC is in 625 format, the Auto option remains, but the line numbers vary from 7 to 22.

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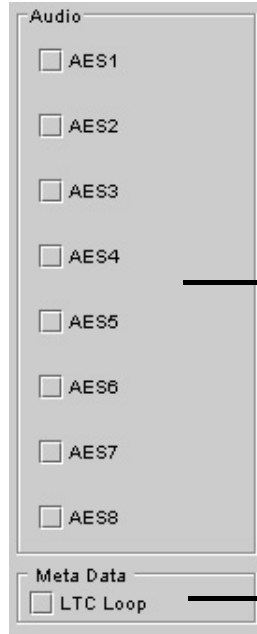
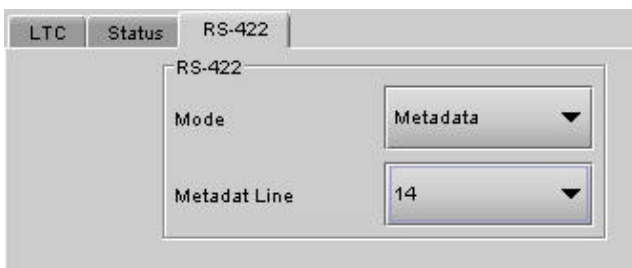


The delay drop down menu allows the user to add delay to the extracted time code while translated to LTC. The delay is selectable from none to 3 frames.

The **Status** tab shows the detection of input embedded time code, RS-422, GPI 1 and GPI 2 signals. When present, the status icons turn to green.



The **RS-422** tab allows the user to choose whether to disembed Dolby RS-422 data from the HANC (select **Serial** from the pulldown list) or from the VANC (select **Metadata** from the pulldown list). When Metadata is selected, the Metadata Line pulldown becomes active, allowing the line containing the data to disembed to be selected (range 9-20)



Enables a test tone (1 KHz, R-steady, L-pulsed, at-18 dBFS) in each of the eight AES outputs individually

Enables an output LTC test loop (10 second loop starting at 23:59:00:00)

Factory

Clicking the **Load Factory** button will restore all of the adjustable parameters to a factory-preset state. Those preset settings are indicated by an underline in the **ADX-1881 menus** on pages 4 and 5 of this manual.

Info

The **Info** tab provides information about the ADX-1881, and provides some data entry fields.

Label :	ADX-1842
Short Label :	ADX-1842
Source ID :	
Device Type :	ADX-1842 ID 59
Comments :	HD/SD AES Disembedder
Manufacturer :	Miranda Technologies Inc.
Vendor :	Miranda Technologies Inc.
Service Version :	1.00
Details...	
Advanced...	Remote system administration...

Label and Short label: type a label and a short label for this device in the appropriate data entry boxes.

Source ID: enter the source ID

The **Details** button gives additional information about the device. The manufacturing process, firmware version, service version and panel version can be found there.

Test

The **Test** menu allows the user to enable test signals on the AES and LTC outputs for troubleshooting purposes.

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The **Advanced** button shows the long ID of the device. The Miranda Long ID is the address of this ADX-1881 in the iControl network.

The **Remote system administration** button shows the “joining locators: ADX-1881” window.

User presets

The ADX-1881 has memory registers which can hold up to 5 user-defined parameter settings.

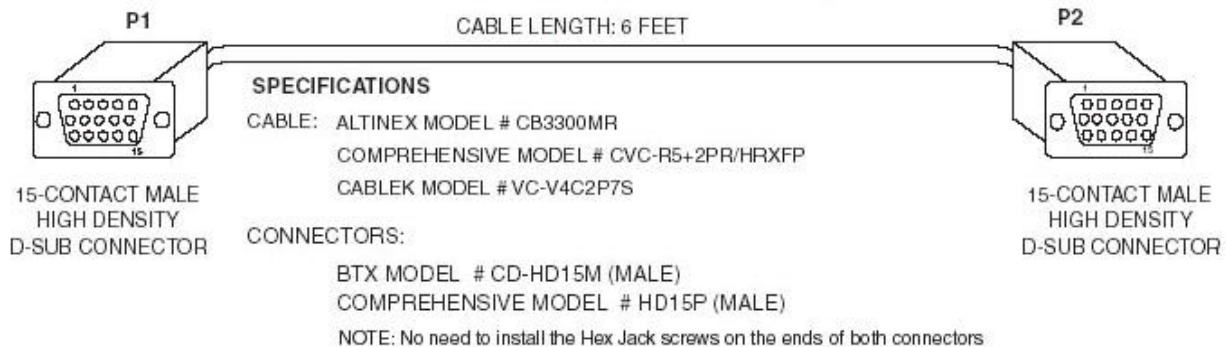


Select any one of the five presets using the pull-down list. The name of the currently-selected user preset is shown on the name bar.

- Click **Load** to load the contents of the selected user preset into the ADX-1881. All parameter settings and values will be replaced by the contents of the selected user preset.
- Click **Save** to store the current parameter settings and values from the ADX-1881 into the selected user preset. The existing contents of the preset will be overwritten.

ANNEX – Connecting Cable Specification

This cable joins the ADX-1881 rear panel to the ADX-1881 breakout panel



WIRE CHART					
P1	P2	ALTINEX CABLE	COMPREHENSIVE CABLE	CABLEK CABLE	SIGNAL
PIN1	PIN1	RED COAX (SIGNAL)	RED COAX (SIGNAL)	RED COAX (SIGNAL)	AES5
PIN2	PIN2	GREEN COAX (SIGNAL)	GREEN COAX (SIGNAL)	GREEN COAX (SIGNAL)	AES6
PIN3	PIN3	BLUE COAX (SIGNAL)	BLUE COAX (SIGNAL)	BLUE COAX (SIGNAL)	AES7
PIN4	PIN4	N/C	N/C	N/C	N/C
PIN5	PIN5	TWST PAIR 2 (BLACK) and TWST PAIR 2 (SHIELD)	TWST PAIR 2 (BLACK) and TWST PAIR 2 (SHIELD)	TWISTED PAIR 1 (WHITE)	DIG GROUND
PIN5	PIN5	GRAY COAX (SHIELD)	YELLOW COAX (SHIELD)		
PIN6	PIN6	RED COAX (SHIELD)	RED COAX (SHIELD)	RED COAX (SHIELD)	ANALOG GROUND
PIN7	PIN7	GREEN COAX (SHIELD)	GREEN COAX (SHIELD)	GREEN COAX (SHIELD)	ANALOG GROUND
PIN8	PIN8	BLUE COAX (SHIELD)	BLUE COAX (SHIELD)	BLUE COAX (SHIELD)	ANALOG GROUND
PIN9	PIN9	NO PIN INSTALLED	NO PIN INSTALLED	NO PIN INSTALLED	NO PIN
PIN10	PIN10	BLACK COAX (SHIELD)	BLACK COAX (SHIELD)	YELLOW COAX (SHIELD)	DIG GROUND
PIN11	PIN11	TWST PAIR 1 (BLACK) and TWST PAIR 1 (SHIELD)	TWST PAIR 1 (BLACK) and TWST PAIR 1 (SHIELD)	TWISTED PAIR 2 (WHITE)	GPI-COM
PIN12	PIN12	TWISTED PAIR 1 (RED)	TWISTED PAIR 1 (RED)	TWISTED PAIR 2 (RED)	GPI-1
PIN13	PIN13	BLACK COAX (SIGNAL)	BLACK COAX (SIGNAL)	YELLOW COAX (SIGNAL)	AES8
PIN14	PIN14	GRAY COAX (SIGNAL)	YELLOW COAX (SIGNAL)	TWISTED PAIR 1 (RED)	LTC
PIN15	PIN15	TWISTED PAIR 2 (WHITE)	TWISTED PAIR 2 (RED)	ORANGE 24AWG (Tin copper wire)	GPI-2

ADX-1881 HD/SD 8 AES Disembedder

Guide to Installation and Operation

COMPLIANCE

Radio Frequency Interference and Immunity

This unit generates, uses, and can radiate radio frequency energy. If the unit is not properly installed and used in accordance with this guide, it may cause interference with radio communications. Operation with non-certified peripheral devices is likely to result in interference with radio and television reception. This equipment has been tested and complies with the limits in accordance with the specifications in:

FCC Part 15, Subpart B;

CE EN50081-1:1992;

CE EN50082-1:1992.

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