

ADX-1842/1852

Description

The ADX-1842 is a high-quality disembedder designed to extract up to four AES 24-bit 48kHz digital audio signals from a single HD/SD serial digital video signal. A unique feature is its ability to extract time code, a serial RS-422 data signal and two GPI status signals from the video signal. The module supports signal presence detection, remote reporting, and local or remote configuration and control, and features a built-in audio tone test signal.

The ADX-1852 has all of the features of the ADX-1842, excluding the HD/SD-SDI loop through outputs, plus it provides an analog audio monitor output for one selectable stereo pair of signals.

The ADX-1842 and ADX-1852 are designed for use in the DENSITÉ frame, with the appropriate double-width rear panel.

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 (ADX-1842 only)

Audio - Features

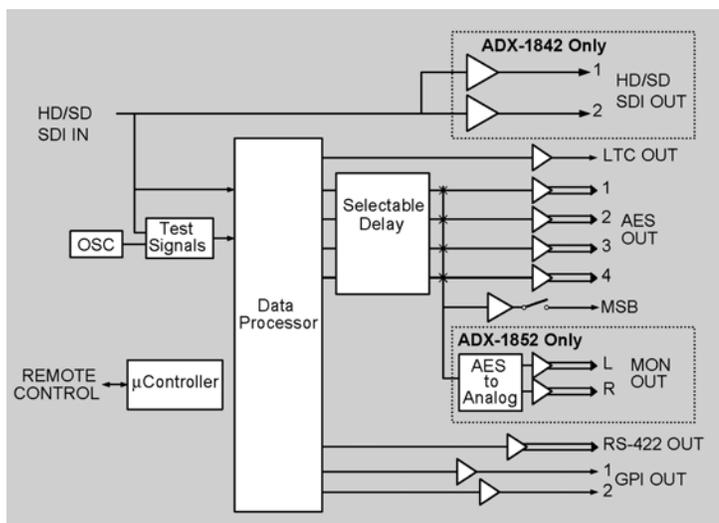
- AES outputs: either 110 Ω balanced or 75 Ω unbalanced, depending on rear panel in use

- 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 (ADX-1852 only)
- 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
- 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 Type-1 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

AUDIO AES3 OUTPUT

Signal: AES3
Level: 3.0 Vp-p \pm 10%

ADX-1852 HD/SD 4 AES Disembedder w. Analog Audio Monitor
ADX-1842 HD/SD 4 AES Disembedder
Guide to Installation and Operation

SPECIFICATIONS(cont'd)

Impedance: 110 Ω balanced

ANALOG AUDIO OUTPUT (ADX-1851 only)

Quantizing: 24 bits
 Level, 0 dBFS: +18 dBu, ±6dB (1dB steps)
 Impedance: 50Ω
 SNR: >92 dB (A weighting)
 THD: <0,01%
 Dynamic Range: >92 dB
 Crosstalk: <90 dB (20 Hz to 20 kHz)

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

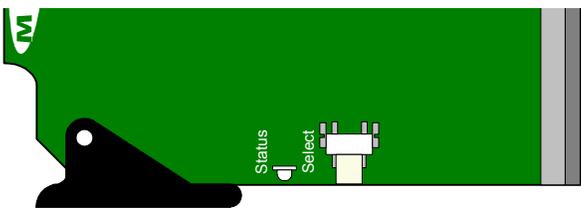
RS-422 Processing Delay: 500 μs max. (combined embedding and extraction ‡‡)
 GPI Processing Delay: 4 video lines (combined embedding and extraction ‡‡)
 Test Signals: Audio - 1 kHz tone (R steady, L pulsed) -18dBFS (EBU R49, R68)
 LTC – 10 second loop starting at 23:59:00:00

Power: 9.5 W

Note ‡‡: Applicable to combinations of AMX-1842 and ADX-1842/ADX-1852

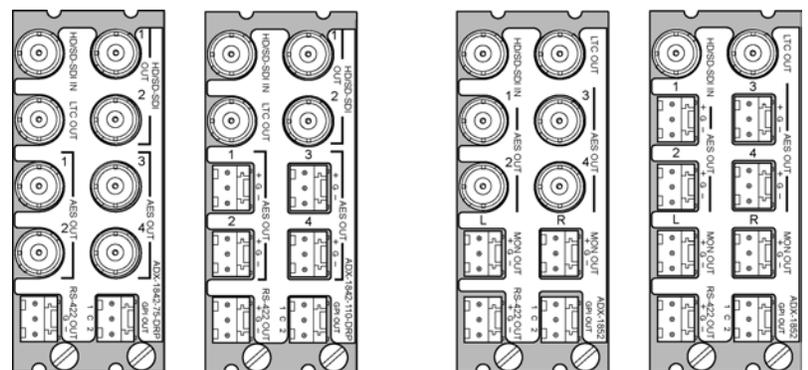
List of supported formats:

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



ADX-1842 Front card edge

ADX-1842/1852 Rear Connector Panels



ADX-1842-75-DRP AES-3id ADX-1842-110-DRP AES3 ADX-1852-75-DRP AES-3id ADX-1852-110-DRP AES3

ADX-1852 HD/SD 4 AES Disembedder w. Analog Audio Monitor
ADX-1842 HD/SD 4 AES Disembedder
Guide to Installation and Operation

INSTALLATION

Make sure the following items have been shipped with your ADX-1842 or ADX-1852. If any of the following items are missing, contact your distributor or Miranda Technologies Inc.

- * ADX-1842 HD/SD 4 AES Disembedder or ADX-1852 HD/SD 4 AES Disembedder w. Analog Audio Monitor
- * ADX-1842 or ADX-1852 rear panel (see figure for options)

The ADX-1842 or ADX-1852 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-1842 or ADX-1852. See the DENSITÉ Frame manual for detailed instructions for installing cards and their associated rear panels.

The ADX-1842 or ADX-1852 has multiple audio and video 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-1842 or ADX-1852 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.

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-1842 and the ADX-1852 modules, 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	4	2								
N	O	S	I	G	N	A	L								

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

Operating Parameter Adjustment

The ADX-1842 and ADX-1852 have operating parameters which may be adjusted at the controller card interface. After pressing the SELECT button on the ADX-1842 or ADX-1852 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.

ADX-1852 HD/SD 4 AES Disembedder w. Analog Audio Monitor
ADX-1842 HD/SD 4 AES Disembedder
Guide to Installation and Operation

ADX-1842 and ADX-1852 Menus

		Resolution affected by input	
		HD	SD
STATUS	NO REAR/ NO SIGNAL/ 720p50/ 720p60/ 720p59.94/ 1080p24/ 1080p24sF/ 1080p23.98/ 1080p23.98sF/ 1080p25/ 1080i50/ 1080p29.97/ 1080i59.94/ 625/ 525	x	x
	AUDIO GROUPS — NONE / 1234	x	x
	EMBEDDED TC — NONE / PRESENT	x	x
	EMBEDDED RS422 — NONE / PRESENT	x	x
	EMBEDDED GPI — NONE / 12	x	x
	AES OUT 1 — BITS — 16 BIT / 20 BIT / 24 BIT / OTHER	x	x
	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			
USER PRESET **	LOAD — [1, 2, 3, 4, 5]	x	x
	SAVE — [1, 2, 3, 4, 5]	x	x
AES OUTPUT **	AES OUT 1-2 — [GROUP 1, GROUP 2, GROUP 3, GROUP 4]	x	x
	AES OUT 3-4 — [GROUP 1, GROUP 2, GROUP 3, GROUP 4]		
	AES OUT 1 — LEVEL — LEFT — [MUTE, -95.5 dB, ..., 0 dB, ..., 12dB]	x	x
	RIGHT — [MUTE, -95.5 dB, ..., 0 dB, ..., 12dB]		
	LOCK — [OFF, ON]		
	PHASE INVERT — LEFT — [OFF, ON]		
	RIGHT — [OFF, ON]		
	MUTE L&R — [OFF, ON]		
	SWAP L&R — [OFF, 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 DELAY — [NONE, 0.5 FRAME, 1.0 FRAME, 1.5 FRAME, 2.0 FRAME, 2.5 FRAME, 3.0 FRAME]	x	x	
		<i>Half values are not relevant for progressive format</i>	
LTC OUTPUT **	FROM — [FIRST ATC, SECOND ATC]	x	
	DVITC LINE — [AUTO, 10, 11, ..., 20], in 525		x
	[AUTO, 7, 8, ..., 22], in 625		
DELAY — [NONE, 1 FRAME, 2 FRAME, 3 FRAME]	x	x	

ADX-1852 HD/SD 4 AES Disembedder w. Analog Audio Monitor
ADX-1842 HD/SD 4 AES Disembedder
Guide to Installation and Operation

MONITOR OUT ** <i>(This option is accessible on ADX-1852 only)</i>	SOURCE	[<u>AES OUT 1</u> , AES OUT 2, AES OUT 3, AES OUT 4]	x	x	
	LEVEL 0 dBFS	[+12 dBu, +13 dBu, ..., <u>+18 dBu</u> , ..., +24 dBu]	x	x	
	V-BIT	[<u>MUTE</u> , PASS]	x	x	
TEST **	AES OUT 1	[<u>OFF</u> , TONE]			
	AES OUT 2	[<u>OFF</u> , TONE]	x	x	
	AES OUT 3	[<u>OFF</u> , TONE]			
	AES OUT 4	[<u>OFF</u> , TONE]			
	LTC OUT	[<u>OFF</u> , LOOP]	x	x	
CONFIG ALARM **	NO SIGNAL	ALARM LEVEL	[GREEN, YELLOW, <u>RED</u> , FLASH RED]	x	x
		ALARM REPORT	[<u>NONE</u> , GPI]	x	x
	NO LTC	ALARM LEVEL	[<u>GREEN</u> , YELLOW, RED, FLASH RED]	x	x
		ALARM REPORT	[<u>NONE</u> , GPI]	x	x
	NO AES 1-2	ALARM LEVEL	[<u>GREEN</u> , YELLOW, RED, FLASH RED]		
		ALARM REPORT	[<u>NONE</u> , GPI]	x	x
	NO AES 3-4	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]	x	x
		ALARM REPORT	[<u>NONE</u> , GPI]	x	x
VERSION	ADX-18x2:XXX		x	x	
FACTORY DEFAULT **	[RESTORE]		x	x	

[] 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.

ADX-1852 HD/SD 4 AES Disembedder w. Analog Audio Monitor
ADX-1842 HD/SD 4 AES Disembedder
Guide to Installation and Operation

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 and AES OUT 3-4: Selects which embedded audio group will appear at the indicated AES outputs of the ADX-1842 or ADX-1852.

AES OUT 1, 2, 3, 4: 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).

CONFIG LTC 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).

MONITOR OUT menu (ADX-1852 only)

SOURCE: Selects AES OUT 1, 2, 3, or 4 for stereo analog audio conversion.

LEVEL 0dBFS: the output level is adjustable in 1 dB steps for an output level of +12 dBU to +24 dBU at full scale amplitude.

VBIT: Selects the action if the AES channel status V-Bit is set. Select MUTE to mute the analog audio output or PASS to disregard the V-Bit status.

CONFIG TEST menu

AES 1, 2, 3, 4: 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-1842 or ADX-1852.

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 and NO AES 3-4: 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-1842 or ADX-1852 audio outputs or LTC outputs.

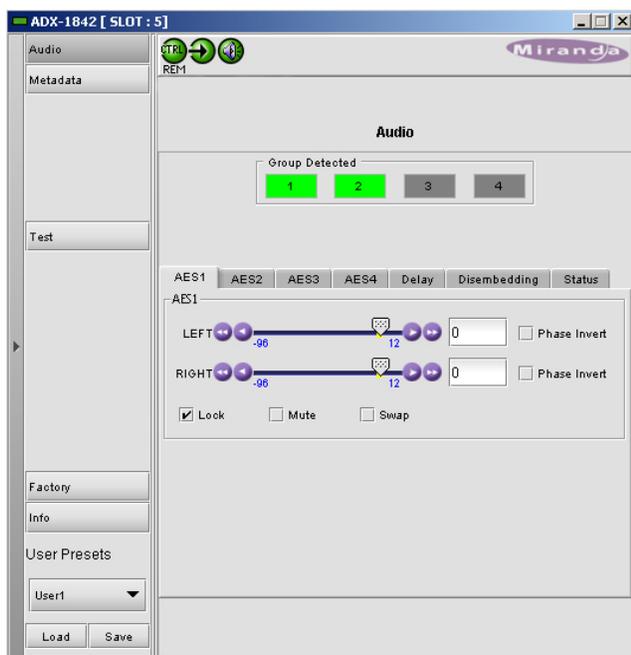
FACTORY DEFAULT menu

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).

iControl Interface – ADX-1842/1852

The ADX-1842 and the ADX-1852 can be operated using Miranda's iControl system. This section describes and explains the control panel associated with the ADX-1842 or the ADX-1852. 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-1842 or the ADX-1852 icon to open the control panel.



There are 6 sections in the ADX-1842 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 disembedding and processing of audio signals. A complete description of the **Audio** tab begins on page 8.

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 9.

Factory: Allows the user to reset the options to the default factory-preset settings. A complete description of the **Factory** tab begins on page 9.

Info: shows information on the ADX-1842 or the ADX-1852 and allows entry of some data. A complete description of the **Info** tab begins on page 10.

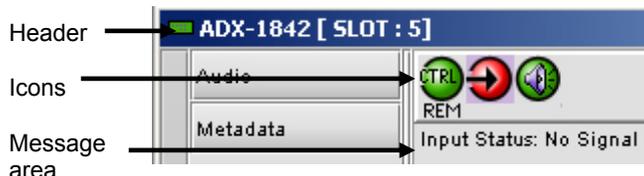
User Presets: Allows the creation of user profiles for a personalized configuration of the ADX-1842 or ADX-1852. A complete description of the **User Presets** begins on page 10.

The ADX-1852 iControl panel is the same as the ADX-1842, except for an additional section.

Monitoring Output: allows the selection of the output AES signal to be converted from digital to analog audio. It also provides level adjustment of the output analog audio signal. A complete description of the **Monitoring Output** tab begins on page 9.

Status bar

The **status bar** provides a continuous update of the status of the ADX-1842 or the ADX-1852. 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-1842 or the ADX-1852:

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

The 3 **icons** monitor specific aspects of the operation of the ADX-1842 or the ADX-1852. 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-1842 or ADX-1852 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.

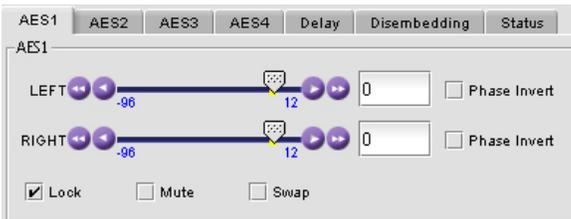
ADX-1852 HD/SD 4 AES Disembedder w. Analog Audio Monitor
ADX-1842 HD/SD 4 AES Disembedder
Guide to Installation and Operation

Audio

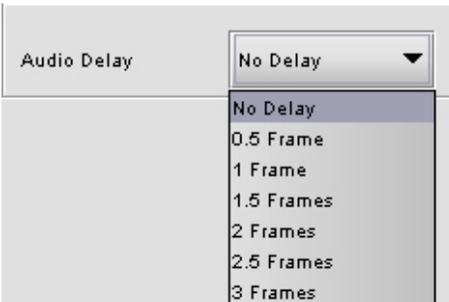
The **Audio** tab shows the audio groups detected and provides resources for managing the audio processing of the ADX-1842 or the ADX-1852.



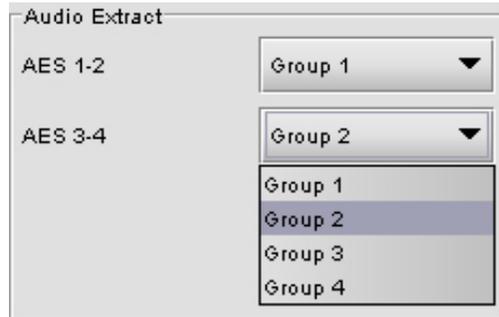
Group Detected: indicates embedded audio groups in the ADX-1842 or the ADX-1852 HD/SD-SDI input.



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

AES1	AES2	AES3	AES4	Delay	Disembedding	Status
AES Out						
		Bits	Mode	Emphasis	Use	Encoding
AES 1		N/I	N/I	N/I	PRO	PCM
AES 2		N/I	N/I	N/I	PRO	PCM
AES 3		N/I	N/I	N/I	PRO	PCM
AES 4		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.

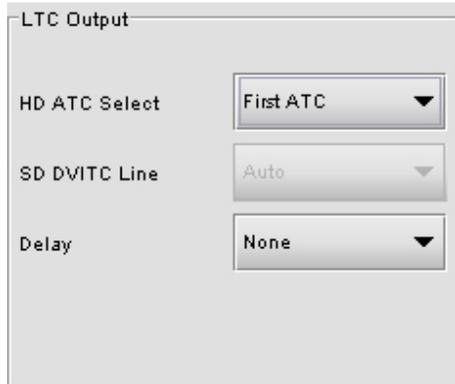
The **Emph** status monitors the audio channel emphasis. The possible values are none, 50/15 µs and J.17. If not indicated, it will show as N/I.

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.

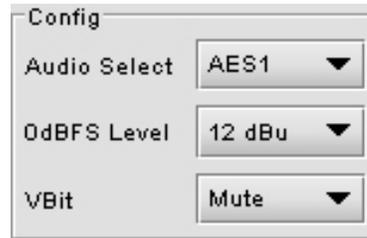
The delay drop down menu allows the user to add delay to the extracted time code while translated to LTC. The delay is selectable from none to 3 frames.



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.

Monitoring Output

The **Monitoring Output** tab is only available on the ADX-1852. It allows the conversion of AES digital audio to stereo analog audio signals.



Using the **Audio Select** drop down menu, select the AES output source for the stereo analog audio conversion.

The **OdBFS Level** drop down menu allows the user to adjust the output level in 1 dB steps for an output level range of +12 dBu to +24 dBu at full scale amplitude.

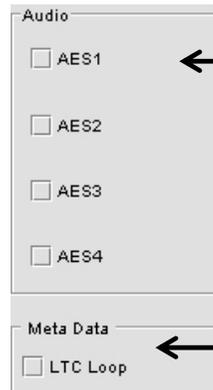
The **VBit** drop down menu allows the user to block monitoring of invalid AES outputs according to the validity (V) Bit status. The V-Bit can have two values:

- '0', AES output is valid and can be converted into an analog audio signal. '1', AES output is invalid and cannot be converted into an analog audio signal.

By selecting *mute* in the **VBit** drop down menu, the AES outputs flagged as invalid by the V-Bit will not be converted, while the data flagged as valid will pass through and be converted. By selecting *pass*, the user ignores the V-Bit status and forces the conversion.

Test

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



← Enables a test tone (1 KHz, R-steady, L-pulsed, at-18 dBFS) in each of the four 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-1842 and ADX-1852 menus** on pages 4 and 5 of this manual.

ADX-1852 HD/SD 4 AES Disembedder w. Analog Audio Monitor
ADX-1842 HD/SD 4 AES Disembedder
Guide to Installation and Operation

Info

The **Info** tab provides information about the ADX-1842 or the ADX-1852, 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
<input type="button" value="Details..."/>	
<input type="button" value="Advanced..."/>	<input type="button" value="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.

The **Advanced** button shows the long ID of the device. The Miranda Long ID is the address of this ADX-1842 or ADX-1852 in the iControl network.

The **Remote system administration** button shows the “joining locators: ADX-1842” or the “joining locators: ADX-1852” window.

User presets

The ADX-1842 and the ADX-1852 have 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-1842 or the ADX-1852. 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-1842 or the ADX-1852 into the selected user preset. The existing contents of the preset will be overwritten.

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.

CONTACT MIRANDA

For technical assistance, please contact the Miranda Technical support centre nearest you:

Americas

Telephone:
+1-800-224-7882
e-mail:
techsupp@miranda.com

Asia

Telephone:
+81-3-5730-2987
e-mail:
asiatech@miranda.com

Europe, Middle East, Africa, UK

Telephone:
+44 (0) 1491 820222
e-mail:
eurotech@miranda.com

France (only)

Telephone:
+33 (0) 1 55 86 87 88
e-mail:
francetech@miranda.com

Visit our web site at www.miranda.com