

INDIGO

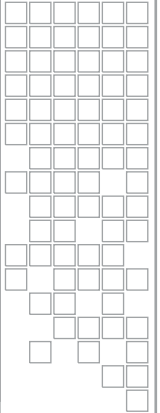
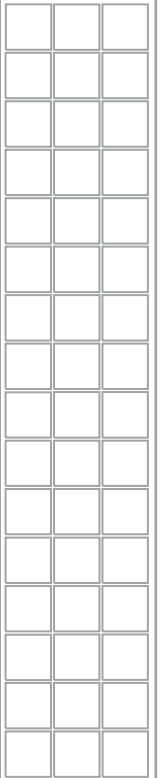
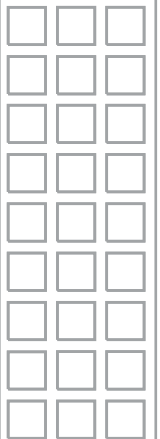
AV Mixer

Release Notes



SOFTWARE VERSION 1.2.2

000 219 419 910
18. JULY 2007



Contacting Grass Valley

On the www.thomsongrassvalley.com web site you get further information on Thomson/Grass Valley and our products.

For Sales and Service, please contact your local dealer.

To find the account representative, dealer, or distributor nearest you, go to www.thomsongrassvalley.com/indigo

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Grass Valley Web Site

The www.thomsongrassvalley.com web site offers the following:

Online User Documentation — Current versions of product catalogs, brochures, data sheets, ordering guides, planning guides, manuals, and release notes in .pdf format can be downloaded.

FAQ Database — Solutions to problems and troubleshooting efforts can be found by searching our Frequently Asked Questions (FAQ) database.

Software Downloads — Software updates, drivers, and patches can be downloaded.



END-OF-LIFE PRODUCT RECYCLING NOTICE

Grass Valley's innovation and excellence in product design also extends to the programs we've established to manage the recycling of our products. Grass Valley has developed a comprehensive end-of-life product take back program for recycle or disposal of end-of-life products. Our program meets the requirements of the European Union's WEEE Directive, the United States Environmental Protection Agency, and U.S. state and local agencies.

Grass Valley's end-of-life product take back program assures proper disposal by use of Best Available Technology. This program accepts any Grass Valley branded equipment. Upon request, a Certificate of Recycling or a Certificate of Destruction, depending on the ultimate disposition of the product, can be sent to the requester.

Grass Valley will be responsible for all costs associated with recycling and disposal, including freight. However, you are responsible for the removal of the equipment from your facility and packing the equipment to make it ready for pickup.



For further information on the Grass Valley product take back system please contact Grass Valley at + 800 80 80 20 20 or +33 1 48 25 20 20 from most other countries. In the U.S. and Canada please call 800-547-8949 or 530-478-4148, and ask to be connected to the EH&S Department. Additional information concerning the program can be found at: www.thomsongrassvalley.com/environment



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Version **1.2.2**
18. JULY 2007

Indigo Release Notes

Introduction

This document includes notes for software installation, new features and changes, and other information specific to INDIGO Release 1.2.2 software.

Note Please read this Release Notes before updating the software!

New Features

The new software version 1.2.2 contains the following new features:

- Implemented flattened modes SD and Hi-Res for usage simplification.
- Implemented Hi-Res stills.
- Added E-MEM support for colour mattes.
- Added E-MEM support for GPO.
- Implemented FS button support for freeze program in to the still.
- Improved DV Codec.
- Added for Hi - Res Keys extra PIP.
- Added Auto key setup for Hi-Res keyers
- Auto color correction.
- Audio Sub to Main mixing

Solved Restrictions in Software Version 1.2.2

Area	Solved Restrictions	ID
Audio	Audio follow Video Mode: If the Audio faders are not in there end-positions and a FTB will be performed, the audio level increased first and then decreased to $-\infty$ dB.	79005
Color Corr	When using Color Correction with analog signals, blanking is different than digital signals. This produce a colored horizontal border line.	73784
E-MEM	E-MEM registers do not store transition duration parameters	73238
HR Keyer	Luma Key mode: Turning CLEAN or DENSITY to the end of range causes an inversion of Keysignal.	76990
HR Keyer	Recalling a HiRes Keyer through E-MEM can result in a delay or flickering of video. Possible workaround is to store the keyer in off state and perform a manual auto/cut after recalling	78945
Inputs	DV codec may fail to detect a newly connected DV device. Switch mode between encode (output) and decode (input) to force a redetection.	
Inputs	Firewire signal shifted vertically 1 Line (PAL) 3 Line (NTSC) and horizontally approx. 100ns.	76034
Media Player	When working with external devices on both Ethernet and RS422 connections, if the physical Ethernet connection is broken it may happen that the serial connection will shut down as well.	80206
Panel	The FS button is reserved for future use	72924

Known Restrictions in Software Version 1.2.2

Area	Known Problem	ID
Audio	Audio compressor/limiter for limiting out of range microphone signals is not available yet	
E-Mem	The parameters Transition Duration and Position are not stored.	73238
Keyer	In PiP mode if Transform is enabled and picture is rotated then edges becomes jagged. To make edges more soft go to the Crop/Border menu and add crop softness.	
Keyer	Border menu of HiRes Keyer is only availabe when keyer is set to PiP mode and Transform is enabled.	80276
Media Player	Preroll is only activated when source is selected on PST bus and a auto/cut transition is executed	79938
Scaler	Downscaler doesn't works for .../75Hz standards	
Setup	Audio: Embedding/deembedding is not implemented for DV.	
Setup	Video/Output: If Ext. Lock is enabled and H & V are adjusted with some H & V phases combinations Transformed PiP or key could be damaged. Adjusting the H & V phases of the external genlock during set up may cause a transformed key to no longer produce the expected image. Work around - reboot. After adjusting phases will bring key back to normal state.	74347
USB	Because of the many different types offered worldwide sometimes an USB stick is not detected. Disconnecting and reconnecting the USB stick may solve this problem.	75759

User Manual and Quick Start Guide

The revised User Manual and Quick Start Guide will be available in August 2007 and can be downloaded from our web site

<http://www.thomsongrassvalley.com/docs/>

New Features and Changes

Implemented Flattened Modes SD and Hi-Res for Usage Simplification.

With software release version 1.2.2 the new **Setup Video** menu is extended.

Figure 1. Setup Video Menu



With the new **Operation Modes** buttons the video modes can be selected:

- **2MEs:** 2ME Mode, separate SD and HD button assignment is possible by using the **Setup - Control Panel** menu. Refer [Figure 2 on page 9](#)
- **SD Flat:** Selecting the SD mode.
- **HR Flat:** Selecting the Hi-Res mode.

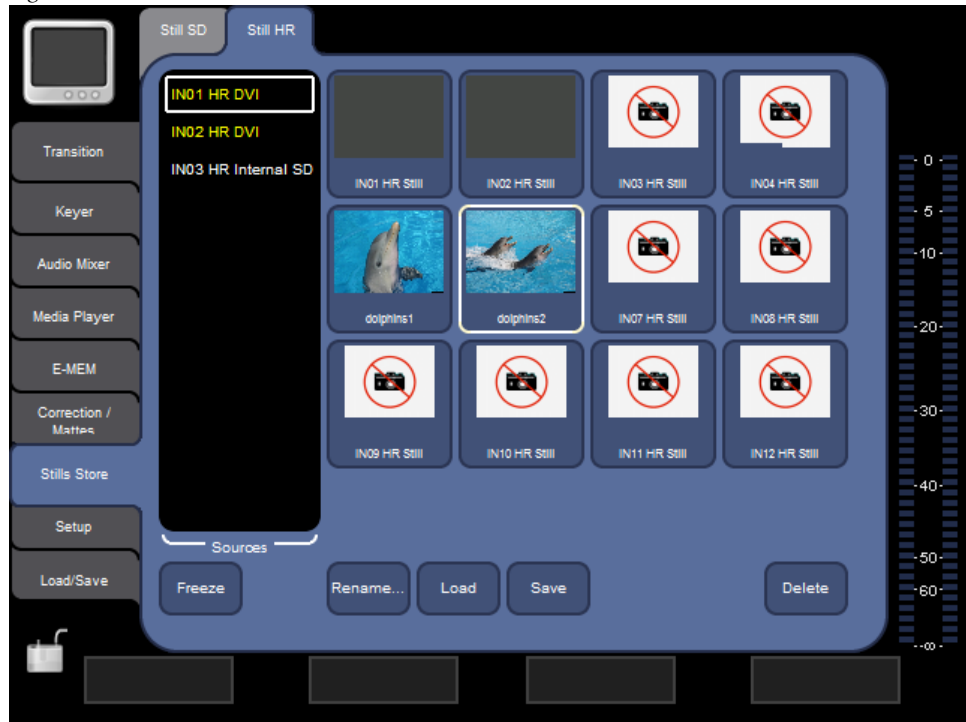
Figure 2. Setup Control Panel Menu



Implemented Hi-Res Stills

With software release version 1.2.2 the new **Still Hi-Res** menu is implemented. Operation is identical to the already existing **SD Still** menu.

Figure 3. Still Store - Still HR Menu



Added E-MEM Support for Colour Mattes and GPO

With software release version 1.2.2 the **E-Mem** menu is extended with the following new features:

Figure 4. E-Mem Menu



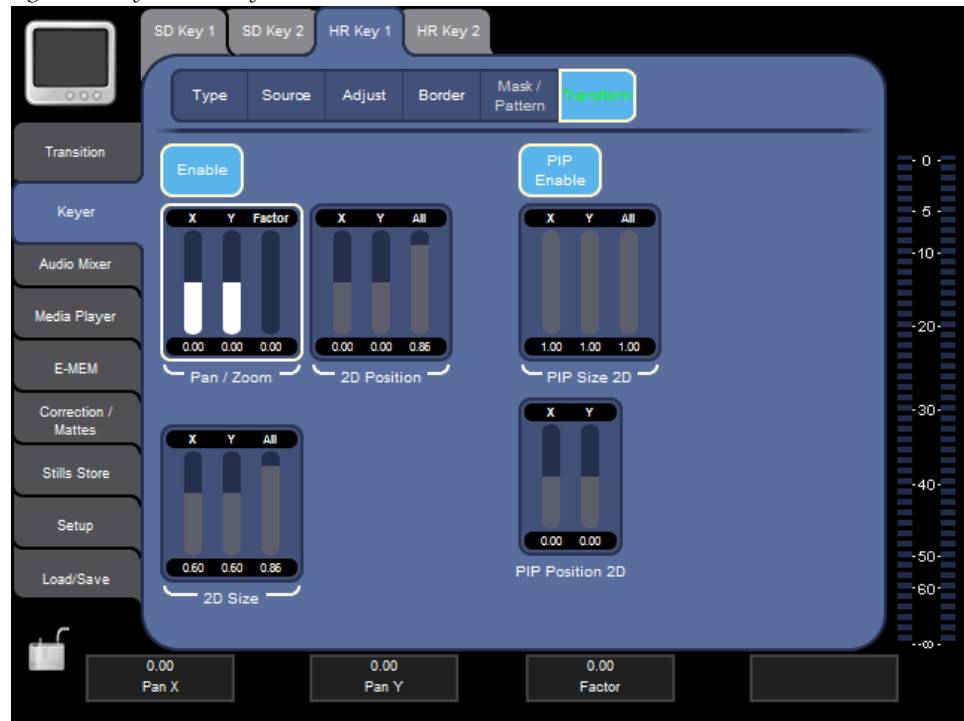
Use the E-MEM main menu to store and recall E-MEMs. An E-MEM can be a stored preset state of the INDIGO AV Mixer, or even a sequence of successive (interpolated) states. The state defines parameter settings for video, audio, effects and transitions.

With software release version 1.2.2 the settings which parameters are to be included are extended by **SD Color Mattes**, **HR Color Mattes** and **GPO**.

Added for Hi-Res Keys Extra PIP

With software release version 1.2.2 the **Keyer - Hi-Res** menu is extended with the PIP feature (Picture In Picture).

Figure 5. Keyer - HR Key Menu

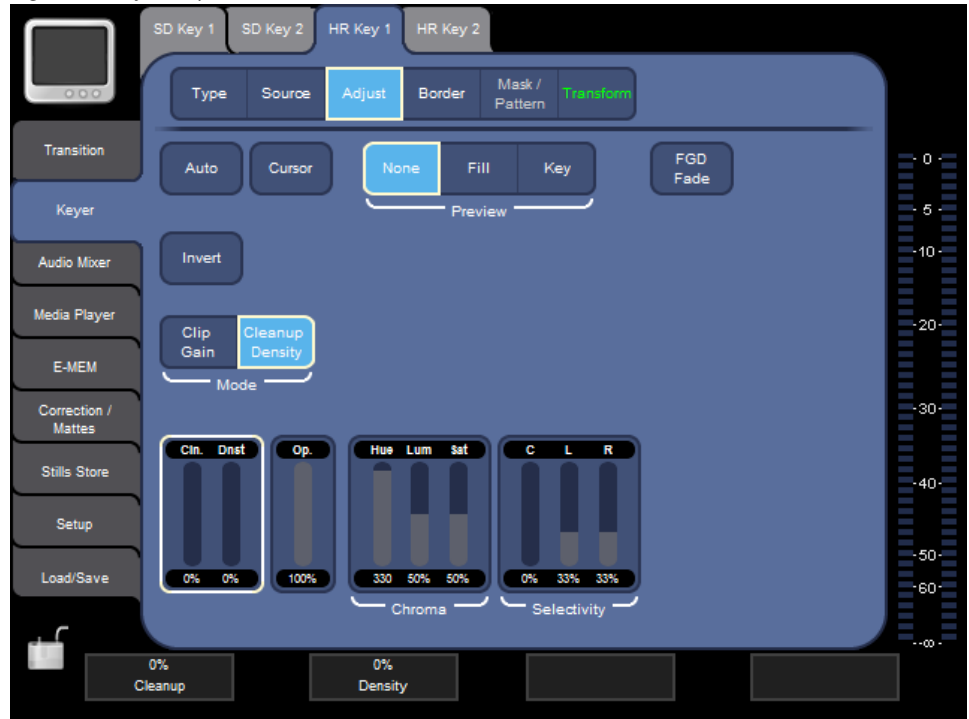


The PIP parameters to adjust the PIP will be available after selection the **PIP Enable** button.

Added Auto Key Setup for Hi-Res Keyers

With software release version 1.2.2 the Auto Keyer Feature for Hi-Res is implemented. Operation is identical to the already existing **SD Key** menu.

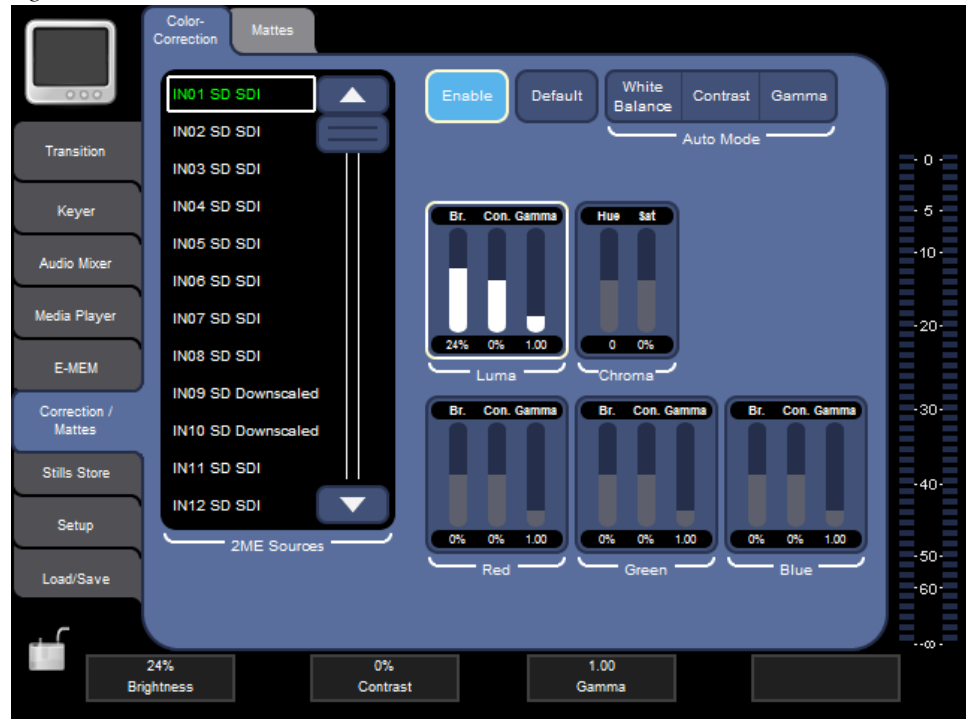
Figure 6. Keyer Adjust Menu



Auto Color Correction

With software release version 1.2.2 the **Color Correction** menu is changed and extended with the following feature:

Figure 7. Auto Color Correction Menu

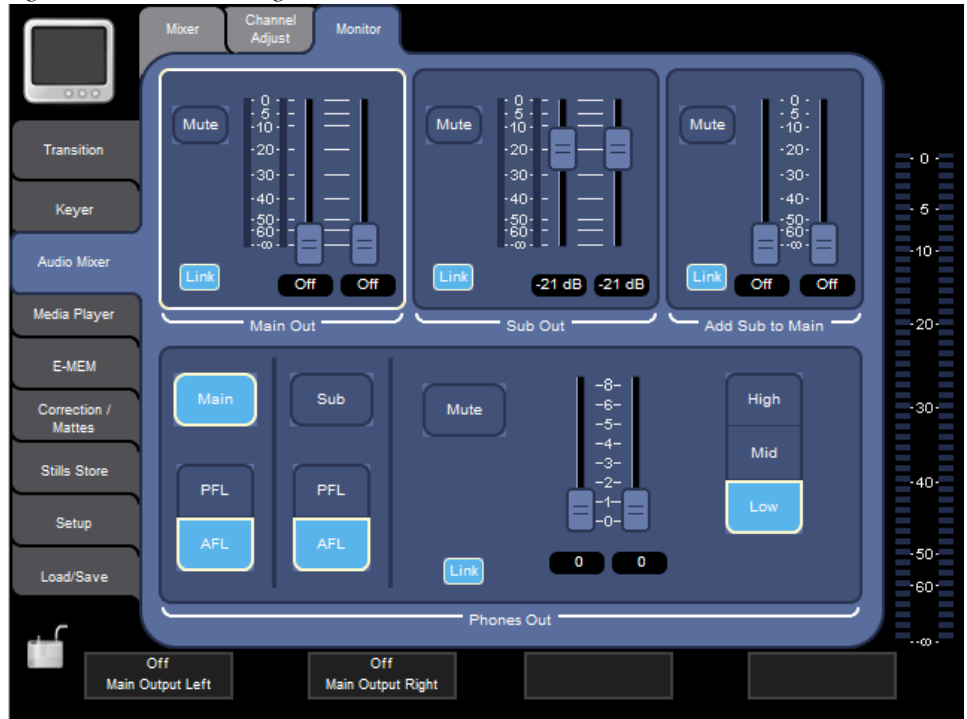


- The former Hi-Res Inputs and Hi-Res Mattes are moved into the selection list.
- **Auto Mode** added with the functions **White Balance**, **Contrast** and **Gamma**.

Audio Monitoring

With software release version 1.2.2 the **Audio Monitoring** menu is extended with the following feature:

Figure 8. Audio Monitoring Menu

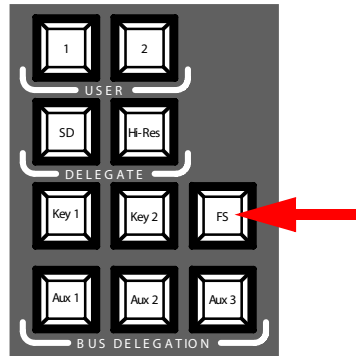


Add Sub to Main: With the two faders audio sources which delegated to the **Sub** output channel can be mixed to the **Main** output channel in common.

Implemented FS Button Support for Freeze Program in to the Still.

With software release version 1.2.2 the previously not used **FS** button is activated to store a selected video source as still into the Indigo's Still Store.

Figure 9. Bus Delegation Buttons



To store a still

- Select a video Source in SD or Hi-Res mode
- Press **FS** button to store the captured frame of the video input as still into the next unused still store. As confirmation the **FS** button flashed shortly and the **Still Store** menu appears (if **Auto Delegation** is activated).

Note Color Mattes and Stills cannot be stored into the still store!

Improved DV Codec

With software release version 1.2.2 the DV Codec is improved in stability and delay time to avoid picture disturbances.

Indigo Software Upgrade

The software of your INDIGO AV Mixer resides on a Compact Flash (CF) card. The CF card is installed in the slot under the lid found on the right side of the INDIGO.

Needed Parts

1. PC with Compact Flash card reader.
2. CF card with min. 128MB capacity which is formatted for FAT file system.

The CF card of your INDIGO will do, but you may want to keep the old software.

Procedure

1. Download Indigo software.

http://www.thomsongrassvalley.com/rnt/Switcher/switcher_Indigo.htm

or

http://gvg.custhelp.com/cgi-bin/gvg.cfg/php/enduser/std_adp.php?p_faqid=1268.

2. Save the settings of your INDIGO (Optional).
 - Insert a USB flash memory in one of the USB connectors
 - Go to the **Load/Save** menu
 - Select **Save** and give the saved data a meaningful name
 - Wait until the save is completed
 - Remove the USB flash memory
3. Turn off your INDIGO.
Open the lid on the right side and extract the CF card (or have another FAT format CF card ready).
4. Insert the CF card into the CF reader of the PC
5. On the PC Open the downloaded self-extracting .EXE file. It will automatically run the Software installation tool Indigo CD.

Figure 10. Setup Audio Output



6. Select **Install new Indigo Software on Indigo device** to copy the new software onto the CF card.
7. Wait until the copy process is completed. Then remove the CF card.
8. While your INDIGO is still turned off, insert the CF card containing the new software into the slot on the upper side of the printed circuit board.
9. Close the slot.
10. Turn on the INDIGO AV Mixer
11. Perform a Audio Fader calibration. For details refer to your User Manual.
12. Restore the settings if your INDIGO (Optional).
 - Insert the USB flash memory with the saved data in one of the USB connectors
 - Go to the **Load/Save** menu
 - Select the saved data from the list and press Load
 - Wait until the load is completed
 - Remove the USB flash memory
13. Start working with the new software.

More Information

Please refer to the INDIGO AV Mixer User Manual (section 10/ Maintenance) for more information.

Contacting Grass Valley Customer Service

Contact Grass Valley Customer Service if you have questions or encounter any problems:

- North America: 1-800-547-8949 or 1-530-478-4148
- ERoW Call Center: +800 80 80 20 20
Accessible from the following countries: Belgium, Denmark, Finland, France, Germany, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom.
- +33 1 48 25 20 20 for all other countries outside North America.
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