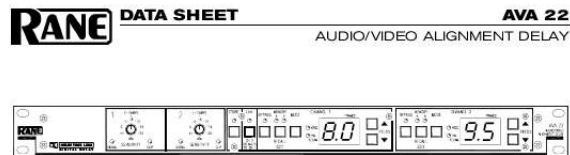




Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for RANE AVA 22. You'll find the answers to all your questions on the RANE AVA 22 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual RANE AVA 22
User guide RANE AVA 22
Operating instructions RANE AVA 22
Instructions for use RANE AVA 22
Instruction manual RANE AVA 22



General Description

The Rane AVA 22 Audio/Video Alignment Delay is a fully balanced two Input, two Output audio alignment delay providing a range of 0.0 to 9.5 NTSC frames (8.0 PAL/SECAM frames) on each Output. The Delay of each Output is independently adjustable in field (half-frame) increments. Each Output has two nonvolatile Memories, A and B, for easy access to previously stored Delay values.

The AVA 22 features XLR connectors. Remote terminals on the rear accept external configuration switches, permitting independent stereo bypassing and stereo remote recall of Memories. An internal jumper is provided to reconfigure the Remote terminals for independent recall of the two Channels' stored Memories.

Housed in a single rack space the AVA 22 can be operated as two independent Channels (dual mono) or as a stereo pair of Channels (LINK mode).

The AVA 22 employs the Dolby™ Time Link 1-bit delta-sigma encode/decode circuit, the same circuit used in many Dolby surround sound decoding units for home theater systems. This ensures the highest possible audio quality throughout the system.

Both NTSC and PAL/SECAM broadcast standards are supported.

A recessed rear panel switch is available for locking out front panel controls. In this mode, all of the front panel pushbuttons are disabled with the exception of the Recall buttons. The Recall buttons remain active so the user may view the stored Delay values without risk of changing them. Internal jumpers enable or disable Bypass while in Front Panel Lockout mode. The default setting of these jumpers disables Bypass in Front Panel Lockout mode. Independent bypass relays provide a fail safe, hard-wired bypass in case of power loss.

The AVA 22 is a unity gain device with Sensitivity adjustment controls to provide proper internal levels for the Dolby™ Time Link circuit. If the input signal is nominally +4 dBu, set the Sensitivity control fully counter-clockwise (+4 dBu). For those unable to touch a cable and determine its signal level, Signal present and Clip LEDs provide visual indication that the Input signal is within optimal range.

Powered from a low voltage UL listed, CSA certified remote power supply (230 VAC model meets LVD 73/23/EEC), the AVA 22 is exempt from safety agency requirements, and may be used in any installation mandating agency compliance.

Dolby and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

Features

- 1-Bit Dolby™ Time Link Conversion
- Two Independent Channels (2 In - 2 Out)
- 0 to 9.5 NTSC Frames Delay Range per Channel
- 0 to 8.0 PAL/SECAM Frames Delay Range per Channel
- Single Field (Half-Frame) Increments
- Front Panel Lockout Switch on Rear
- Independent Remote Memory Recall Interface on Rear
- Active Balanced XLR Inputs & Outputs
- Two EEPROM Memories per Channel (No Batteries)
- Fail-Safe Bypass for Each Channel
- UL/CSA Remote Power Supply (120 VAC)
- CE (Low Voltage & EMC) Remote Power Supply (230 VAC)

Data Sheet-1



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<http://yourpdfguides.com/dref/3395157>

Manual abstract:

0 9.5 General Description The Rane AVA 22 Audio/Video Alignment Delay is a fully balanced two Input, two Output audio alignment delay providing a range of 0.0 to 9.5 NTSC frames (8.0 PAL/ SECAM frames) on each Output. The Delay of each Output is independently adjustable in field (half-frame) increments.

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In this mode, all of the front panel pushbuttons are disabled with the exception of the Recall buttons. The Recall buttons remain active so the user may view the stored Delay values without risk of changing them. Internal jumpers enable or disable Bypass while in Front Panel Lockout mode. The default setting of these jumpers disables Bypass in Front Panel Lockout mode. @@@@1, LVD 73/23/EEC Class A Device Class 2 Equipment File no.

E88261 File no. LR58948 EMC directive 89/336/EEC LV directive 73/23/EEC Japan only (4.4 cm x 48.3 cm x 21.6 cm) (2.7 kg) (11.5 cm x 52 cm x 35 cm) (4.5 kg) Crosstalk Power Supply Requirement Maximum Current Demand Unit: Agency Listing

..120 VAC model

..230 VAC model EMI/RFI Emission Level Power Supply: Agency Listing ...

.....

..120 VAC model

..230 VAC model

..100 VAC model Unit: Construction ...

.....

..Size

..Weight Shipping: Size

.Weight Note: 0 dBu = 0.775 Vrms Data Sheet-2 Block Diagram Application Information The AVA 22 provides a cost-effective solution to the problem of aligning audio to video in broadcast. Modern video processing creates unavoidable time delays between audio and video signals. Accumulated delays can run as high as several frames, creating objectionable synchronization problems.

Audio preceding video by even one frame is detectable by some people. The high cost of existing audio/ video synchronizers prevents many broadcasters from correcting all synchronization problems adequately. Satellite links also add to the synchronization problem since the audio can be transmitted through a separate medium than the video. @@@@The AVA 22 operates as either a dual mono or stereo device. @@@@The AVA 22 supports both NTSC and PAL/SECAM broadcast modes.

@@@@@@ (0 dBu = 0.7746 Volts). @@@@ (Sams, 1990, pp. 129-130.) Less distortion in output due to smaller output current needs. About 14 dB lower noise pickup by interconnecting lines due to lower source impedance. Greater lengths of cable may be driven for a given high frequency roll-off. Many pieces of equipment can be driven from one output without the use of distribution amplifiers and with no concern for matching or level changes.

5. Better reliability resulting from less heat generation due to less power drawn from the output stage.

6. @@7. @@8. @@1. 2. 3. @@@@Independent remote recall terminals shall be provided for external stereo bypassing and stereo recall of stored configuration memories, two per channel. A two (2) digit LED display shall indicate delay values in frames as well as software revision level. For each channel, individual LEDs shall indicate Bypass status, current Memory, broadcast Mode (NTSC or PAL/SECAM) and overall Link status. A recessed rear-panel switch shall disable the front panel, yet still allow viewing of stored delay values.

Independent input-output Sensitivity controls shall be included to allow calibration of the input signal for maximum performance. @@@@RFI filters shall also be provided. @@@@The chassis shall be constructed entirely from cold-rolled steel. The unit shall be a Rane Corporation AVA 22. ©Rane Corporation 10802 47th Ave.

W., Mukilteo WA 98275-5098 TEL (425)355-6000 FAX (425)347-7757 WEB <http://www.rane.com> Data Sheet-4 All features & specifications subject to change without notice. DOC 103109 PN 08592 8-98 .



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