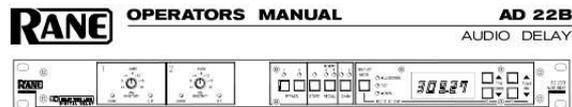




# Your PDF Guides

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

User manual RANE AD 22B  
User guide RANE AD 22B  
Operating instructions RANE AD 22B  
Instructions for use RANE AD 22B  
Instruction manual RANE AD 22B



#### QUICK START

Quickly look around to make sure no one catches you reading this. You're aware this is the *manual* aren't you? Wow! Most people only get about this far in a manual, but there are a few important things you should know about the AD 22B. So please keep reading. These few points are summarized in this Cliff Note version of the manual.

**ADJUSTING SENSITIVITY.** First apply a signal with nominal input level and adjust the SENSITIVITY controls so the red CLIP LEDs just light, then back off so the LEDs do not turn on, even with high signal peaks.

**SETTING DELAY.** Now that the input signal is calibrated, press the CHAN button until the CHAN LEDs indicate the Channel you want to set. We cover the special case of adjusting *both* Channels simultaneously later (both CHAN LEDs on). Adjust the up/down buttons until the LED display shows the desired Delay. To adjust the Delay of the other Channel press the CHAN button until the other Channel's LED is lit, and adjust the Delay as before.

**STORING DELAY.** Press the STORE button (the STORE LED stops flashing). This stores the current Delay values into each Channel's current Memory (A or B). The current Memory for each Channel is indicated by the MEMORY LED lit when editing that Channel. Both Channel's current Delay values are stored with each press of the STORE button.

**RECALLING DELAY.** To recall a stored Memory, press RECALL. Each press of this button alternately recalls stored Memories (A then B then A...) for the selected Channel only.

A quick way to recall Memories into both Channels simultaneously, is to store both Channel's values into the same Memory. With *both* Channels selected (both CHAN LEDs on), press RECALL to restore *both* Channel's Memories at the same time.

**SETTING TEMPERATURE.** The AD 22B is factory set for 22°C/71.6°F. To change this, press and hold DISPLAY MODE and press one of the up/down buttons. Use the *Fin*/COARSE buttons for degrees Celsius or the *1/10*FINE buttons for degrees Fahrenheit. The LED display shows the temperature setting. Further pressing of the up/down buttons adjusts the temperature setting. This temperature is used, with constant 30% humidity, to calculate the speed of sound for converting delay times into distance.

*Never connect anything except an approved Rane power supply to the red thing that looks like supply to the red thing that looks like a telephone jack on the rear of the unit. This is an AC input and requires special attention if you do not have a power supply exactly like the one originally packed with your unit. See the full explanation of the power supply requirements elsewhere in this manual.*

*Note: It is normal to hear harmless short bursts of stored data playback when recalling a memory. Also, powering up the AD 22B without input signal eliminates chirping that may occur when scrolling delay values.*

#### AD 22B CONNECTION

When connecting the AD 22B to other components in your system for the first time, leave the power supply for last. This gives you a chance to make mistakes and correct them before any damage is done to your fragile speakers, headphones, ears, or brains. The AD 22B passes audio while it is unpowered by virtue of its fail safe bypass relays (when the AD 22B functions as a wire). Turn the system volume down before plugging in the AD 22B's power.

#### INPUTS AND OUTPUTS

The AD 22B's Inputs and Outputs are electronically balanced, so use only balanced wiring. The AD 22B's shields (pin 1) connect to chassis ground. Pin 2 is "hot" per AES standards.

**WEAR PARTS:** This product contains no wear parts.

#### REMOTE RECALL TERMINALS

Each channel of the AD 22B has two nonvolatile Memories, "A" and "B". Connecting a switch between the GND and CH1 or CH2 terminals permits recalling the Memories remotely. Only a change in the switch position is sensed—when the switch closes, Memory B for the given Channel is recalled. When the switch opens, Memory A is recalled. Connecting the two Channel terminals (CH1 & CH2) together on one side of the same switch, permits stereo recall of Memories A and B.

Manual-1



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**Manual abstract:**

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INPUTS AND OUTPUTS The AD 22B's Inputs and Outputs are electronically balanced, so use only balanced wiring. The AD 22B's shields (pin 1) connect to chassis ground. Pin 2 is "hot" per AES standards. REMOTE RECALL TERMINALS Each channel of the AD 22B has two nonvolatile Memories, "A" and "B". @@@@When the switch opens, Memory A is recalled. @@@@If an LED is on, the given Channel is Bypassed and functions like a wire. If it is off the given channel is active. STORE LED: flashes green when the current configuration of the AD 22B is different from the stored configuration. The STORE LED is off when the current configuration matches the stored configuration. STORE button: Stores the current Delay configuration into both Channel's current Memory (A or B).

The current Memory for each Channel is indicated by the MEMORY LED which is lit when editing that Channel. MEMORY LEDs: indicate the most recently recalled Memory, A or B, for each Channel by illuminating yellow. @@@@The far right buttons provide 10 microsecond steps. @@@@Further up/down presses change the temperature setting. @@@@When the switch closes, Memory B for the given Channel is recalled.

When the switch opens, Memory A is recalled. @@Recessed lockout switch: Enables the Front Panel Lockout mode. In this mode all front panel controls, with the exception of the CHAN and DISPLAY MODE buttons, are disabled. The Channel button remains active so the user may view the current Delay values without risk of changing them, and the display mode button allows display of Delay values in milliseconds, feet or meters. Press RECALL while in LOCKOUT to temporarily display, but not Recall, the value of the other stored Memory for the indicated Channel.

(See OPERATING INSTRUCTIONS for optional Bypass lockout mode, and MEMORY BUTTONS on previous page.) INPUT/OUTPUT connectors: Nothing new here, the AD 22B uses balanced XLRs, with pin 2 "hot" per AES standards. POWER input connector: No this is not where Commissioner Gordon plugs in his Bat-phone, in fact it is not a telephone jack at all. The AD 22B uses an 18 volt AC center-tapped transformer only. Use only a model RS 1 or other remote AC power supply approved by Rane. @@Consult the factory for replacement or substitution. @@@@CHASSIS GROUNDING If after hooking up your system it exhibits excessive hum or buzzing, there is an incompatibility in the grounding configuration between units. Here are some things to try: 1. Try combinations of lifting grounds on units supplied with ground lift switches (or links). 2.

Verify all chassis are tied to a good earth ground. 3. Units with outboard power supplies do not ground the chassis through the line cord. Make sure these units are solidly grounded by tying the Chassis Ground Point to known earth ground. Use a star washer to guarantee proper contact. Manual-3 OPERATING INSTRUCTIONS Once you have properly connected the AD 22B to the system, turn on the power. When the AD 22B is first powered it displays the words "RANE" and "Ad 22". During this time the unit is performing initialization and diagnostics routines. After initialization, two messages are briefly displayed. @@@@This is useful for initial trouble shooting and allows verification of signal flow.

THE BASICS The AD 22B is a two Channel device. Each Channel has a current Delay value that is always active/heard. You can only edit the current Delay values in each Channel, which can then be stored in either of two nonvolatile Memories, A and B. @@@@The LED display shows the current Delay value of the selected Channel. Press the up/down buttons until the desired Delay value is reached.

That's it! Press the CHAN button until the other CHAN LED is lit and edit its current Delay value. Both Channels simultaneously: If you've selected both Channels (both CHAN LEDs on), the LED display shows the smaller of the two Channel's current Delay values. Changing this value changes the other Channel's value by the same relative amount. Check the other Channel's current Delay value by selecting it with the CHAN button. There are two things to be careful of at this point: The first is to pay close attention to the CHAN LEDs .



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