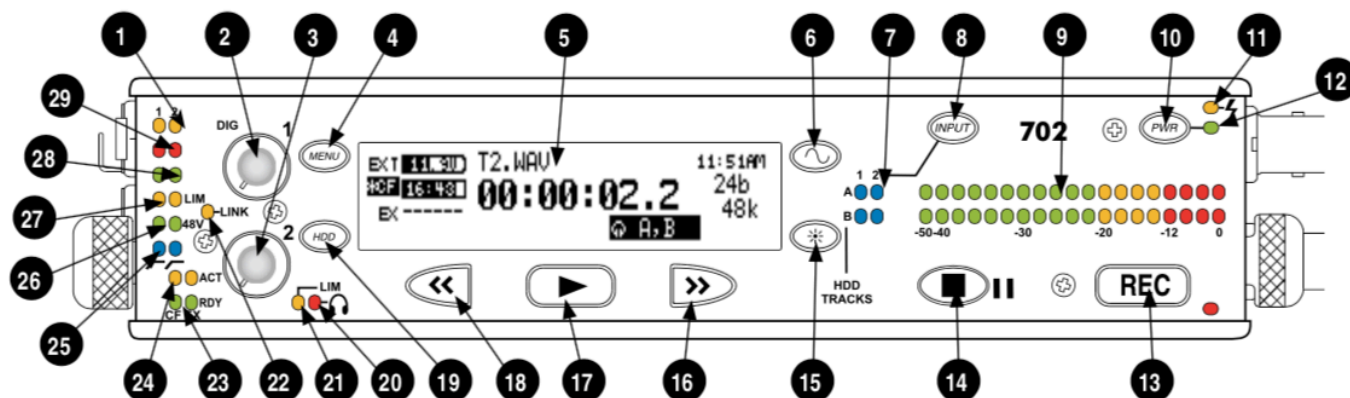


Sound Devices 702 Quick Set Up Guide

The following set up instructions are designed to optimize the SD 702 for either film or video double system sound recording. Please consult the full user guide for more detailed instructions and extra information about all the features this recorder offers.

Front Panel



- 1 Digital Input LEDs - Indicates the presence of AES or SPDIF- digital signal on the respective input. When flashing, indicates that digital input is selected but no valid digital word clock signal is present.
- 2 Input 1 Gain - Controls the analog gain (input trim) of the channel 1 input. Normal mic input range is from 25 dB to 70 dB, low gain mic range is from 10 dB to 55 dB, line input range is from -6 dB to 18 dB. For line-level inputs, this control can be defeated for setup-menu-controlled gain. If the LCD display shows "locked" when the control is rotated, gain control of the line-level input is menu-controlled. When inputs are linked as a stereo pair, Input 1 Gain controls the gain of both inputs.
- 3 Input 2 Gain - Controls input 2 gain, as in #2 above. When inputs are linked as a stereo pair, Input 2 Gain adjusts left-to-right balance.
- 4 MENU Button - Used to access all 702 Setup Menu selections. When in menu mode, used to move up through the menu selections.
- 5 LCD display
- 6 Tone Oscillator
- 7 Routing indicators
- 8 INPUT select buttons (press STOP and INPUT to cycle through ROUTING options)
- 9 LEVEL METERS leds (2 - 19 segment rack levels indicate level in dBFS)
- 10 POWER button
- 11 CHARGE led
- 12 POWER led
- 13 RECORD button
- 14 STOP PAUSE button (press and hold for 150 ms to stop recording; in REC PAUSE mode, one press pauses rec and two presses stops it). In SETUP menu it exits and returns to main display)
- 15 LCD BACKLIGHT button (press to toggle LCD and button highlighting; in MENU mode, functions as soft button to cancel selection)
- 16 FF button
- 17 PLAY button (if pressed after STOP, plays last file recorded)
- 18 REWIND button
- 19 HDD (file viewer) button (press to enter file folder)
- 20 HEADPHONE OUTPUT PEAK (indicates overload headphone amp)
- 21 LIM led (indicates mike limiters are on; does not show limiting activity)
- 22 LINK led (indicates channels 1 & 2 are linked as stereo pair)
- 23 MEDIA READY led (indicates media is present)
- 24 MEDIA ACTIVITY led (indicates write activity)
- 25 HIGH PASS FILTER led (high pass/low cut filter active for input)
- 26 PHANTOM POWER led (indicates phantom power active for input)
- 27 MICROPHONE INPUT LIMITER led (orange when limiting is occurring on mike input)
- 28 INPUT SIGNAL PRESENCE led (indicates level of analog or digital signal on each of four inputs)
- 29 INPUT PEAK (OVERLOAD) led (indicates analog signal approaching clipping (-3 dBs))

Quick Set up

Press the power (10) button. After the recorder boots up and the home screen is displayed in the LCD, turn the two gain controls (2, 3) all the way to the left so that they are muted. Turn the headphone monitor volume all the way down (black knob on the left side of the recorder). This will protect your ears when a microphone is connected.

Connect a microphone to an XLR cable and plug into “**Line 1**” on the left side of the recorder. Ensure that the “Mic-Line Input Switch” above the “Line 1” XLR input is set to “**Mic 1**.”

In the front of the recorder press the menu button (4). Use the black knob on the right side of the recorder to highlight menu settings. Go to setting **number 3**, “Rec: Sample Rate.” Make sure it is set to **48K**. Press the black knob down to select 48K. Go to setting **number 4**, and select a **24 bit** depth recording by pressing the black knob. Then, select **number 5**, and choose **WAV MONO** for the file type. Go to setting **number 6** and select **CF ONLY** to record to your CF card.

Make sure you disable **number 16**, RECORD PAUSE, so every time you press the stop button (14) a new file will be created.

Your routing options are displayed by the blue lights to the right of the main LCD. There should be only 2 lights on the left side, which means that your mono input is being recorded to two tracks simultaneously. If the blue lights are in any other position, go to menu setting **number 17**, “Input: Routing,” and scroll through the options until you can select **1->A/ 1->B** (line 1 in the left and right headphones). Press the black knob down to select “1->A/ 1->B.” If you did this right you should hear sound from both the left and the right side of your headphones.

Go to menu setting **number 18**, “Input 1: 48V Phantom,” and select “**On – Mic**” to send phantom power to your microphone if you do not have a battery for it.

Under menu setting **number 20** select “disable” for you mic limiters. You want to be the one who controls the recording levels.

Go to menu setting **number 21** and select, “Mic Input 1: Low Cut.” Disable any low cut filters.

Go to menu setting **number 25** and select, “Mic Input 1: Gain Range.” Set it to “**Normal**.”

Got to menu setting **number 32** “Input 1: Delay.” Make sure it is set to “**0.0 msec**” time delay.

Also, make sure you select **number 53** and set the correct TIME and DATE so your files will have the correct metadata embedded.

Under menu setting **number 57**, METER BALLISTICS, select **PEAK HOLD + VU**

Recording

Before you can start recording you need to format your CF card. Go to menu setting **number 72**, “**CF: ERASE/FORMAT**” and follow the on screen instructions to format the card (the recorder will ask you to push down the play button and then hit the “~ button” next to the LCD monitor. Once it finishes formatting the card will be ready for use.

Setting Levels

You should try to keep your levels hovering between negative twenty (**-20dB**) and negative sixteen decibels (**-16dB**) on the VU Meter (9). After your levels are set you can raise the headphone volume by turning the black knob on the left side of the recorder so you can hear the microphone's input. As **you ride the gain**, try and keep the levels so that you have green and a couple of amber led lights showing, but **do not allow the signal to stay into the red leds region, or worse, to reach "0dB", which equals overmodulation**. Note that there will be sounds that are impossible to prevent from going into the red led region, like doors slamming, or things breaking; these are known as "**limited excursions**", but they will be so sudden you should not bother preventing their overmodulation. Concentrate on the levels of your dialogue and/or any other sounds that are heard continuously instead.

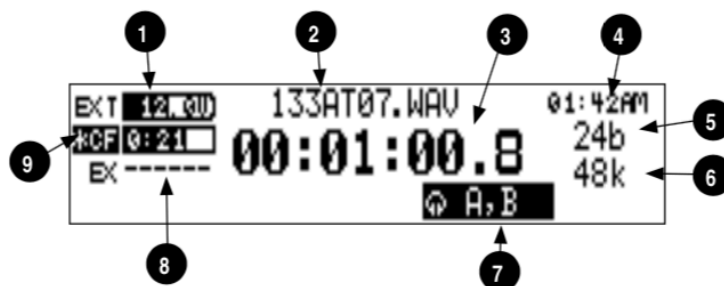
Playback

To select files for playback: press and hold the HDD button (19) to enter the File Viewer and select the file you want to play back. You can scroll through the files by using the black knob just like you did for selecting menu items. Once a file is selected, press the PLAY button (17) to begin playback.

Importing Audio

Make sure you turn off the recorder by pressing the PWR button (20) until the LCD displays "**bye**"; let go off the button and the recorder will shut down. **NEVER REMOVE THE CF CARD WHILE THE RECORDER IS TURNED ON**, or you will damage the files in the CF card. Once the recorder shuts down, remove the CF card from the back of the recorder, and use a card reader to copy the files from it to a folder in your computer. Make sure the files can be played back before formatting your CF card again!

LCD Main Display Descriptions



- | | | | |
|---|--|---|-----------------------------|
| 1 | BATTERY LEVEL INDICATOR (shows voltage) | 8 | EXTERNAL MEDIA SPACE STATUS |
| 2 | FILE NAME DISPLAY | 9 | COMPACT FLASH STATUS |
| 3 | ABSOLUTE TIME (shows elapsed time of the file being recorded or played back) | | |
| 4 | TIME/DATE DISPLAY | | |
| 5 | BIT DEPTH INDICATOR | | |
| 6 | SAMPLING RATE INDICATOR | | |
| 7 | HEADPHONE SOURCE DISPLAY | | |