

List of new functions

The following function was added in firmware version 1.30.

- In order to comply with European standby power regulations (ErP Directive), the automatic power saving function now also operates when an AC adaptor is connected.

The following function was added in firmware version 1.20.

- The tuner is now easier to use.

The following functions were added in firmware version 1.10.

- Independent **EXT IN** level settings for left/right channels
- Independent **DELAY** time settings for left/right channels
- Input source names shown on **INPUT LEVEL** setting pull-up

The following function was added in firmware version 1.02.

- **EXT IN R** channel mute function in **4CH mode**

New function in version 1.30

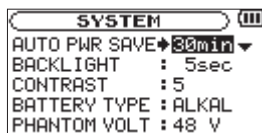
Automatic power saving function when an AC adaptor is connected

Starting with version 1.30, in order to comply with European standby power regulations (ErP Directive), automatic power saving now also functions when using an AC adaptor. The **AUTO OFF** menu item on the **SYSTEM** screen has been changed to **AUTO PWR SAVE**.

By default, the automatic power saving function is set to 30 minutes, and the unit will automatically turn OFF (enter standby) after 30 minutes pass without operation.

The options and default value are as follows.

Options: OFF, 3min, 5min, 10min, 30min (default value)



New function in version 1.20

The tuner is now easier to use.

When the **TUNER** screen is open, you can press the **ENTER/MARK** button to reverse the screen orientation, making it easier to tune using the built-in mic.

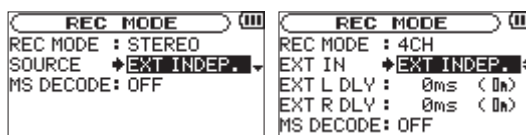
New functions in version 1.10

Independent external input level settings for left/right channels

You can now set the **EXT IN** input levels separately for the left and right channels.

Use this feature when using two different types of mics or when volume differences are great, for example.

1. Press the **REC MODE** button to open the **REC MODE** screen.
2. Use the **+** and **-** buttons to select (highlight) the **SOURCE** (or **EXT IN** when in **4CH mode**) item, and press the **ENTER/MARK** button or **▶▶** button.
3. Use the **+** and **-** buttons to set the input source to **EXT INDEP.**



4. Press the **HOME** button to return to the Home Screen.
5. Press the **RECORD [●]** button to put the unit into recording standby.
6. Use the **INPUT LEVEL (+/-)** buttons on the left side panel to open the pull-up menu at the bottom of the screen that shows the input level setting meter.



7. Use the following buttons to change the channel (left/right) for which the input level can be set.

STEREO MODE/DUAL MODE/

OVERDUB SEPARATE MODE : 1/2 button

4CH MODE/OVERDUB MIX MODE : 3/4 button

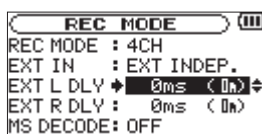
NOTE

- When the input selection on the **REC MODE** screen (**SOURCE** or **EXT IN**) is set to **EXT IN 1/2**, the **EXT IN** input level will be the same for both left and right channels.
- When the **SOURCE** item on the **EFFECT** screen is set to **EXT IN** or **INT MIC** and an effect is applied to the input signal, elements of both left and right channels will be included in the effect sound, so sound from the opposite channel will be mixed into the recorded signal

Independent delay time settings for left/right channels

If there are differences in the distances from the sound source to the **INT MIC**, to the **EXT IN L** channel and to the **EXT IN R** channel, you can compensate for the time lag by treating the **INT MIC** as the basic position and then adjusting the **EXT IN L** and **EXT IN R** channel delay times.

1. Press the **REC MODE** button to open the **REC MODE** screen.
2. Use the **+** and **-** buttons to select (highlight) the **REC MODE** item, and press the **ENTER/MARK** button or **▶▶** button.
3. Use the **+** and **-** buttons to select **4CH**.
4. Press the **◀◀** button to return to setting item selection.
5. Use the **+** and **-** buttons to select (highlight) **EXT L DLY**, and press the **ENTER/MARK** button or **▶▶** button.
6. Use the **+** and **-** buttons to set the **EXT L** channel delay time.
7. Press the **◀◀** button to return to setting item selection.
8. Use the **+** and **-** buttons to select (highlight) the **EXT R DLY** item, and press the **ENTER/MARK** button or **▶▶** button.
9. Use the **+** and **-** buttons to set the **EXT R** channel delay time.



NOTE

If the distance from the sound source to the external mic (**EXT IN**) is 5 meters (about 16 feet) closer than it is to the built-in mics, set the delay time to **15ms (5m)**. On the other hand, if the distance from the sound source to the external mic (**EXT IN**) is 5 meters farther than it is to the built-in mics, set the delay time to **-15ms (5m)**.

Input source names shown on input level setting pull-up

The input level setting pull-up that opens when you press the **INPUT LEVEL (+/-)** buttons on the left side panel has been changed so that its items correspond to the input source.



One of four types appears on the display.

- INT MIC LVL** : built-in mic level
- EXT IN LVL** : external input level
- EXT Lch LVL** : external input left channel level
- EXT Rch LVL** : external input right channel level

NOTE

If the input selection on the **REC MODE** screen (**SOURCE** or **EXT IN**) is set to **EXT INDEP.**, you can switch between setting the **EXT Lch LVL** and **EXT Rch LVL** levels by pressing the following buttons.

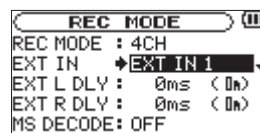
- STEREO MODE/DUAL MODE/**
OVERDUB SEPARATE MODE : 1/2 button
- 4CH MODE/OVERDUB MIX MODE** : 3/4 button

New function in version 1.02

EXT IN R channel mute function in 4CH mode

You can use just the **EXT IN L** channel input to use the built-in mic with a mono mic for a total of 3 channels.

1. Press the **REC MODE** button to open the **REC MODE** screen.
2. Use the **+** and **-** buttons to select (highlight) the **REC MODE** item and press the **ENTER/MARK** button or **▶▶** button.
3. Use the **+** and **-** buttons to select **4CH**.
4. Press the **◀◀** button to return to setting item selection.
5. Use the **+** and **-** buttons to select (highlight) the **EXT IN** item, and press the **ENTER/MARK** button or **▶▶** button.
6. Use the **+** and **-** buttons to set it to **EXT IN 1**.



NOTE

- Two stereo files will be created, but the **EXT IN R** channel will be muted.
- If you want to center the **EXT IN L** channel for monitoring, when recording or in recording standby, press the **MIXER** button and set the **PAN** for channel 3 to **C** (center).

CAUTION

When the **EXT IN** item is set to **EXT IN 1**, the effect function is disabled when recording.