Functions Added in R-88 Version 1.10

This document explains the functions that were added in version 1.10. Please read it together with the owner's manual.

Checking the Version

Before you use the newly added functions, check the version of the R-88 unit. The version of the unit itself is shown in the lower left of the screen immediately after you turn on the power.

Added functions

Extended linking for input level and sensitivity

You can now link the input level and sensitivity of any desired inputs so that they can be adjusted together.

You can create up to four groups and make link settings for them.

Input delay function

You can now adjust the timing of each channel in a range of 0.05–20 msec for recording.

Sensitivity gain boost function

You can now boost the sensitivity (nominal input level) gain by 6 dB. This lets you record lower-level audio.

Expanded low-cut filter

You can now set the cutoff frequency in a range of 60–250 Hz.

Support for polyphonic WAV

Polyphonic WAV has been added to the types of audio files that you can record. If you select polyphonic WAV, you'll be able to save up to eight channels of input in a single file.

Headphone output boost

You can now apply a digital boost of 12 dB to the headphone output. This lets you monitor low-level audio more clearly.

Expanded footswitch parameters

An "OFF" setting has been added to the assignable functions. This lets you prevent the R-88 from malfunctioning when something other than a footswitch is connected to the CONTROL 1, 2 jack.

Support for external MIDI controllers

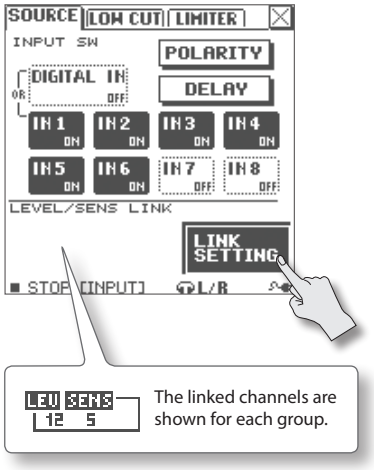
You can now connect a separately sold UM-ONE mk2 USB MIDI interface and control the R-88 from an external device.

Linking Input Level and Sensitivity

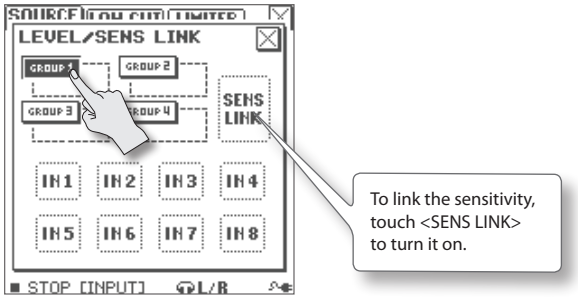
You can link the input level or sensitivity of the desired inputs so that they can be adjusted together.

1. From the home screen (recording), choose <INPUT>.

2. Touch <LINK SETTING>.



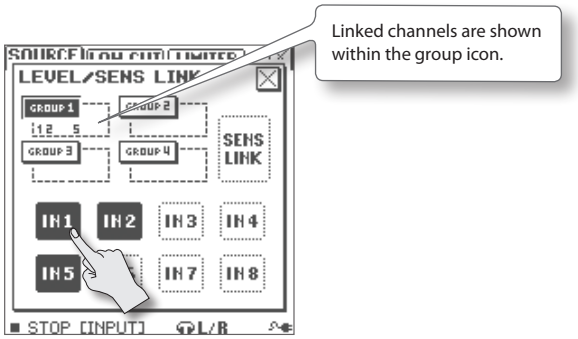
3. Touch one of the groups.



* <SENS LINK> cannot be turned on/off for individual groups.

4. Touch (turn on) each input that you want to add to the group.

Inputs in the same group will be linked.



MEMO

To adjust the linked input level or sensitivity, use the knob of the first channel in the group.

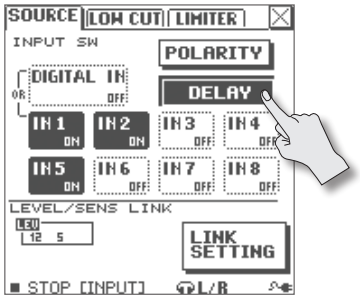
Input Delay Setting

You can use input delay to compensate for differences in the timing of each channel when recording.

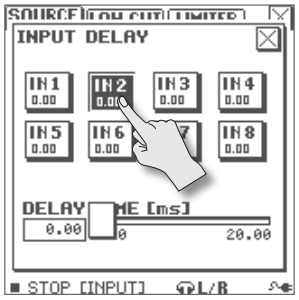
1. From the home screen (recording), choose <INPUT>.

2. Touch <DELAY>.

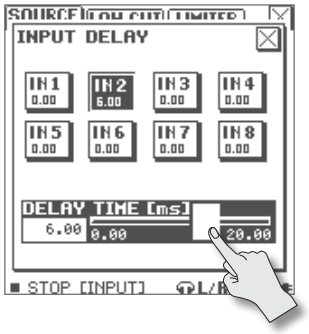
* This setting is not available when the sample rate is 192 kHz.



3. Touch the input whose input delay you want to adjust.



4. Drag the <DELAY TIME> slider to the left or right to specify the value.



Once you've touched the slider, you can also use the [⏮] (–) button and [⏭] (+) button on the front panel to edit the value.

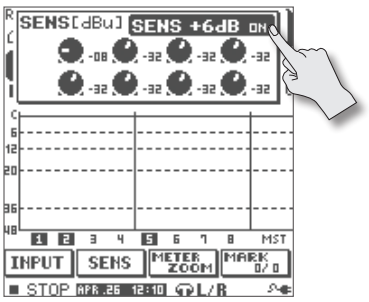
Sensitivity Gain Adjustment

The sensitivity gain boost function lets you increase the gain of the sensitivity (nominal input level) by 6 dB. This lets you record lower-level audio.

1. From the home screen (recording), choose <SENS>.

2. Touch <SENS +6dB> to turn it on.

When <SENS +6dB> is on, the sensitivity gain of all channels will be increased by 6 dB.



SENS +6dB	Nominal input level (dBu)
ON	+4 *, -8, -14, -20, -26, -32, -38, -44,-50,-56, -62
OFF	+4 *, -2, -8, -14, -20, -26, -32, -38, -44, -50, -56

* The gain will not be boosted for inputs whose nominal input level is set to "+4 dBu" so that line-connected input sources can be recorded without distortion.

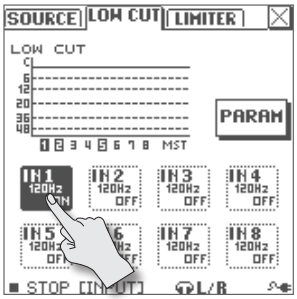
Low-Cut Filter Setting

You can adjust the cutoff frequency of the low-cut filter in the range of 60–250 Hz for recording.

On/off settings

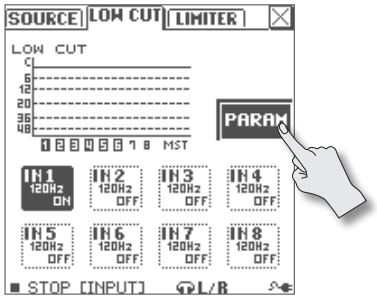
1. From the home screen (recording), choose <INPUT> → <LOW CUT>.

2. Touch the icon for each input to turn it on/off.

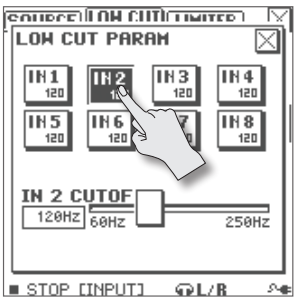


Adjusting the cutoff frequency

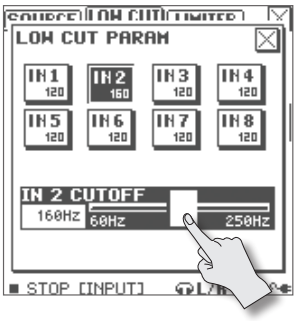
1. **Touch <PARAM>.**



2. **Touch the input whose cutoff frequency you want to adjust.**



3. **Adjust the value by dragging the <CUTOFF> slider to left or right.**



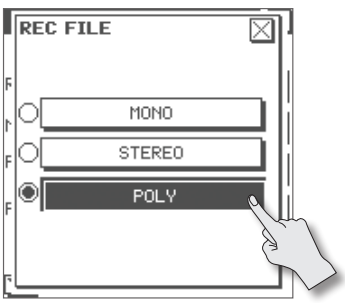
Once you've touched the slider, you can also use the [⏮] (–) button and [⏭] (+) button on the front panel to edit the value.

Selecting Polyphonic WAV

If you select polyphonic WAV, you'll be able to save up to eight channels of input in a single file.

1. **Choose [MENU] → <REC/PLAY SETUP> → <REC FILE>.**

2. **Touch <POLY>.**



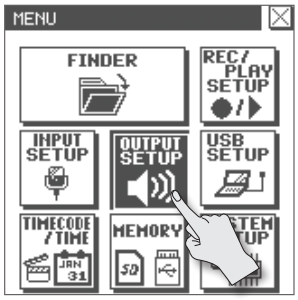
Note when recording polyphonic WAV

* The recorded file will be saved directly below the selected folder.
* The number of channels in the saved polyphonic WAV file will be either 2, 4, 6, or 8 channels depending on the input numbers that are selected in the INPUT SOURCE screen. For example even if you select only "IN 5," a six-channel polyphonic WAV file will be created, and silence will be recorded on channels 1–4 and 6. If you want to minimize the file size, you should use the lowest-numbered channels.
* If you'll be editing the file on your computer, make sure that the audio editing software you're using supports polyphonic WAV files.
* A two-track mix project will not be created even if "MIX REC" is on. For more about MIX REC, refer to "MIX REC" in the owner's manual.

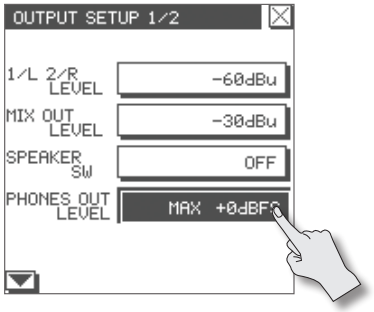
Headphone Output Boost Setting

If you use the headphone output boost function, you'll be able to boost headphone output level by +12 dB digitally. This lets you monitor low-level audio more clearly.

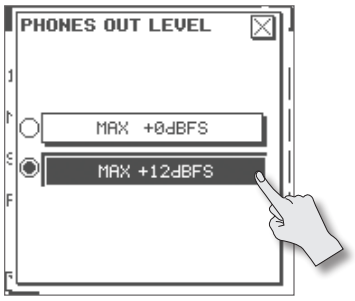
1. **Choose [MENU] → <OUTPUT SETUP>.**



2. **Touch <PHONES OUT LEVEL>.**



3. **Touch <MAX +12dBFS>.**



* If you choose <MAX +12dBFS>, the headphone output may clip even if the audio being recorded is not clipping.

Footswitch Parameters

An "OFF" setting has been added to the functions that you can assign to a footswitch. For details on how to change the footswitch assignment, refer to "Assigning a Function to a Footswitch" in the owner's manual.

CTL 1/CTL 2	Explanation
OFF (default)	No function is assigned.
STOP	Stop recording/playback.
REC	Start recording.
PLAY	Start playback.
FF	Fast-forward.
REW	Rewind.
REC/STOP	Alternately record or stop each time the footswitch is operated.
PLAY/STOP	Alternately playback or stop each time the footswitch is operated.
PLAY (MOMENT)	Play only while the footswitch is held down.
SET MARKER	Assign a marker.
PREV MARKER	Move to the previous marker.
NEXT MARKER	Move to the next marker.

Using an External MIDI Controller

If you connect a separately sold UM-ONE mk2 USB MIDI interface to the R-88, you'll be able to receive MIDI messages from an external device to control the parameters of the R-88.

* Operation cannot be guaranteed if you're using a different MIDI interface.

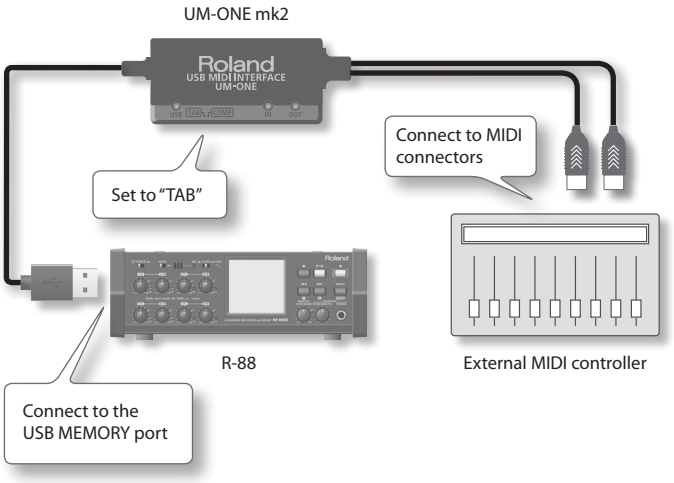
* For details on the parameters, refer to the MIDI implementation. You can download the MIDI implementation from the Roland website (http://www.roland.com/manuals/).

Connecting a USB MIDI interface

1. Set the [COMP/TAB] switch of the UM-ONE mk2 to the "TAB" position.

2. Open the rubber flap of the R-88 unit, and connect the UM-ONE mk2 to the USB MEMORY port.

When the device has been correctly recognized, the screen will indicate "Attach USB MIDI INTERFACE."

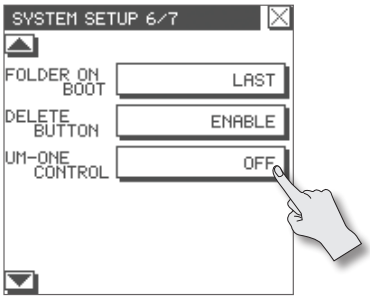


Selecting the parameters that you want to control

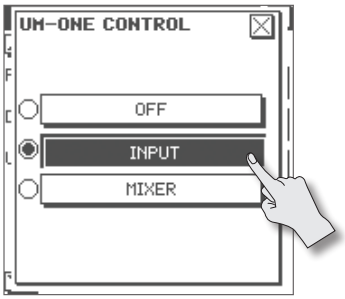
Here's how to select the parameters that you want to control from your external MIDI controller.

1. Choose [MENU] → <SYSTEM SETUP> → <UM-ONE CONTROL>.

<UM-ONE CONTROL> is located on page 6/7. Touch ▼ to access 6/7.



2. Touch the parameter that you want to control.



Parameter	Explanation
OFF (default)	Nothing will be controlled.
INPUT	Input parameters will be controlled.
MIXER	MIXER parameters will be controlled

* 5 1 0 0 0 3 7 0 4 2 - 0 1 *