

SPD-SX PRO Update

This manual explains the new features that were added in SPD-SX PRO version 1.20. Refer to the SPD-SX PRO Quick Start and Reference Manual (Roland website) while reading this information.

NOTE

You may not be able to connect the app to the SPD-SX PRO if their respective versions are different. Use the latest versions for this unit and for the SPD-SX PRO APP.

Functions Added in Ver.1.20

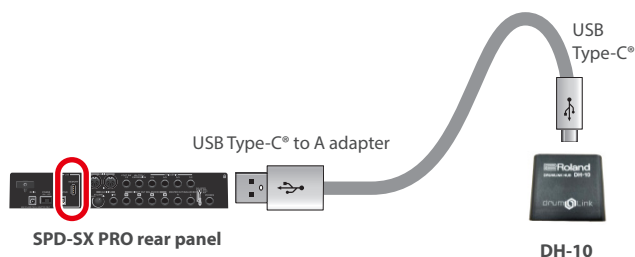
Using the DH-10 and WT-10 to wirelessly connect the SPD-SX PRO to a V-Drums pad

This explains the settings you can use for the DH-10 (DrumLink Hub) and the WT-10 (Wireless Trigger Adapter) to wirelessly connect a V-Drums pad or cymbal to the SPD-SX PRO.

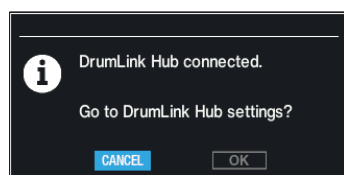
Connecting the DH-10 (DrumLink Hub) to SPD-SX PRO

1. Use the USB Type-C® cable and the USB Type-C® to Type-A adaptor that are included with the DH-10 to connect the DH-10 to the SPD-SX PRO.

First, the blue indicator blinks several times, then the blue and red indicators remain lit.



The following message is shown once you connect the DH-10.



2. Use the cursor buttons to select "OK" and press the [ENTER] button.

This switches to the DrumLink - HUB screen.

Connecting the WT-10 (Wireless Trigger Adapter) to a drum pad/cymbal

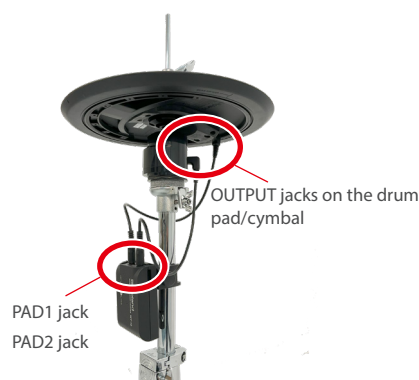
1. Connect the cables included with the WT-10 to the PAD1 and PAD2 jacks of the WT-10 and the drum pad/cymbal jacks.

The power of the WT-10 turns on when you connect a plug into the PAD1 jack (the indicator briefly blinks blue and then goes dark).

NOTE

When connecting cables to the WT-10, hold the WT-10 firmly.

Example of attaching the WT-10 to the VH-10 hi-hat



- * When connecting only one drum pad or cymbal to the WT-10, use the PAD1 jack. The PAD1 jack also functions as a power switch.
- * When connecting the Roland VH-10 hi-hat, the CY-16R-T cymbal (both sold separately) or the like, use both the PAD1 and PAD2 jacks.

Pairing the DH-10 with the WT-10

This shows you how to pair a DH-10 connected to the SPD-SX PRO and a WT-10 connected to a cymbal as an example.

* Once the DH-10 and WT-10 are paired, there is no need to pair them again. Strike the pad that's connected to the WT-10 to activate the pairing.

1. Choose [MENU] → "SYSTEM".

2. Use the cursor [▲] [▼] [◀] [▶] buttons to select "PAD/TRIG IN", and then press the [ENTER] button.

The PAD/TRIG IN screen appears.

3. Press the [F6] (DrumLink) button.

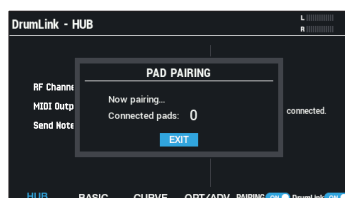
The DrumLink screen appears.

4. Press the [F1] (HUB) button.

The DrumLink - HUB screen appears.

5. Press the [F5] (PAIRING) button.

Pairing mode turns on.



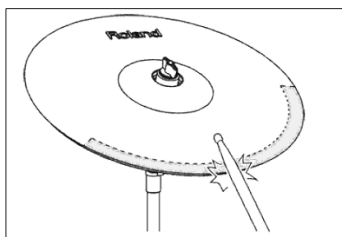
MEMO

Once it is turned on, the pairing mode turns off after 15 seconds.

6. Strike the cymbal once.

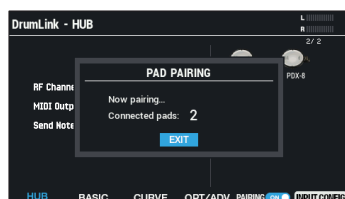
MEMO

When pairing, use a stick and strike the drum or cymbal fairly hard. Also, when pairing with a cymbal, strike the edge to make pairing easier, as the sensitivity is greater.



Pairing begins.

The pad image on the right side of the DrumLink - HUB screen (default settings: PDX-8 drum pad) is shown when the SPD-SX PRO is paired with the pad (cymbal).



MEMO

If pairing is not possible (no image of the pad appears), see "Troubleshooting" (p. 10).

7. To access the pad settings screen after pairing, press the [EXIT] button and then one of the [F2] (BASIC)–[F4] (OPT/ADV) buttons.

NOTE

The parameters for each pad are not stored on the SPD-SX PRO, but are stored in the WT-10 (Wireless Trigger Adapter). Note that just changing a parameter does not apply the setting to the WT-10. You must strike the applicable pad to apply the setting.

MEMO

- Once paired, the pairing information for each WT-10 (Wireless Trigger Adapter) is saved on the DH-10 (DrumLink Hub). The units automatically pair when you restart the SPD-SX PRO or connect the DrumLink hub to a different SPD-SX PRO, so there's no need to pair manually.
- Although pairing is not necessary after restarting this unit, you must strike the pad you want to set once to make it show up on the pad settings screen.
- The SPD-SX PRO supports connection of up to 17 pads (the nine pads on this unit plus eight pads connected to the TRIGGER IN jacks).

Configuring the pad triggers

Here's how to configure the trigger settings, so that the signals from the pads can be accurately processed by the WT-10.

Selecting the type of pad connected to the WT-10 (INPUT CONFIGURATION)

Select the type of pad on the SPD-SX PRO (trigger settings).
For this example, we select the "CY-16R-T" cymbal.

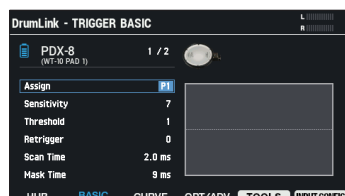
1. Choose [MENU] → "SYSTEM".
2. Use the cursor [▲] [▼] [◀] [▶] buttons to select "PAD/TRIG IN", and then press the [ENTER] button.

The PAD/TRIG IN screen appears.

3. Press the [F6] (DrumLink) button.

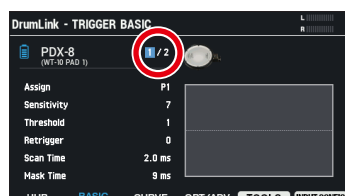
The DrumLink screen appears.

4. Open the [F2] (BASIC) tab.



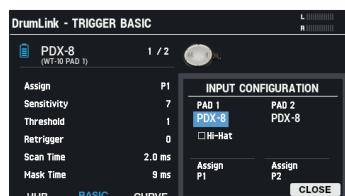
5. Strike to select the pad that you want to set.

You can also use the cursor buttons to move the cursor to the position shown in the illustration, and use the [-] [+] buttons or the dial to select the pad to set.



6. Press the [F6] (INPUT CONFIG) button.

The INPUT CONFIGURATION screen appears.



7. Select "CY-16R-T" for PAD1 on the screen.



An asterisk is shown to the left of the pad name (CY-16R-T). (An asterisk is shown whenever the internal settings have not yet been synchronized.)

MEMO

- The SPD-SX PRO does not support the bell technique. With the example as shown on this screen, the P1 (PAD1) sound plays regardless of where you play on the CY-16R-T, meaning the head (bow), the rim (edge) or the bell. Note that the BELL jack on the CY-16R-T must be connected to the PAD2 jack of the WT-10.
- When you change the pad type, the pad parameters aside from Assign are set to their optimum values. You can fine-tune the settings as appropriate, according to how you attach the pad and how you use it.

8. Strike the cymbal once.

Once the internal settings are synchronized, the asterisk to the left of the pad name (CY-16R-T) disappears.

MEMO

You can also press the [F5] (TOOLS) button and select "INPUT CONFIG" to view the INPUT CONFIGURATION screen.

Assigning the trigger input for the pad connected to the WT-10

Here's how to set which trigger input to which the connected pad should be assigned.

If this is your first time connecting, the trigger inputs are automatically assigned to each pad. The following explains how to change the trigger inputs that are assigned to each pad.

MEMO

If the Assign parameter (p. 6) for the trigger input is set to something other than TRIG IN 1/2, TRIG IN 3/4, TRIG IN 5/6 or TRIG IN 7/8, you can't get different sounds from the head and rim.

The rim shot, cross stick and bell techniques are not supported.

1. Choose [MENU] → "SYSTEM".
2. Use the cursor [▲] [▼] [◀] [▶] buttons to select "PAD/ TRIG IN", and then press the [ENTER] button.

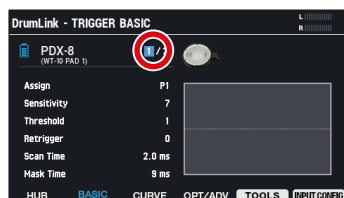
The PAD/TRIG IN screen appears.

3. Press the [F6] (DrumLink) button.
4. Press the [F2] (BASIC) button to display the DrumLink - TRIGGER BASIC screen.

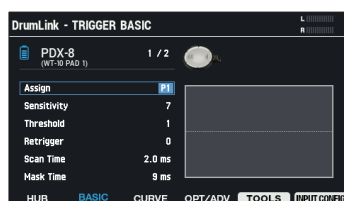
The DrumLink screen appears.

5. Strike to select the pad that you want to set.

You can also use the cursor buttons to move the cursor to the position shown in the illustration, and use the [-] [+] buttons or the dial to select the pad to set.



6. Use the cursor buttons to select the Assign parameter.



7. Use the [-] [+] buttons or the dial to edit the trigger input assignment.

When connected to a hi-hat (Hi-Hat Calibration)

To connect a hi-hat to the PAD1 jack of the WT-10, perform the settings as shown in "Selecting the type of pad connected to the WT-10 (INPUT CONFIGURATION)" (p. 3), and then set the calibration.

* Calibration is necessary to correctly detect open/close hi-hat operations.

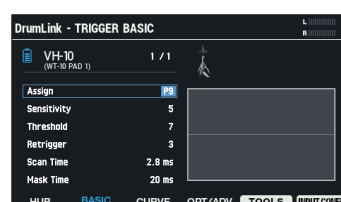
1. Choose [MENU] → "SYSTEM".
2. Use the cursor [▲] [▼] [◀] [▶] buttons to select "PAD/ TRIG IN", and then press the [ENTER] button.

The PAD/TRIG IN screen appears.

3. Press the [F6] (DrumLink) button.

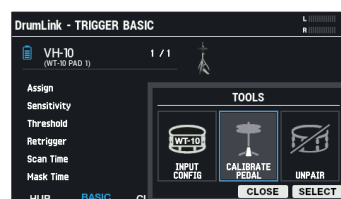
The DrumLink screen appears.

4. Open the [F2] (BASIC) tab.



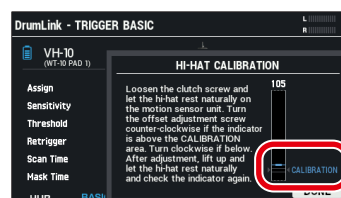
5. Press the [F5] (TOOLS) button.

6. Use the cursor buttons to select "CALIBRATE PEDAL".



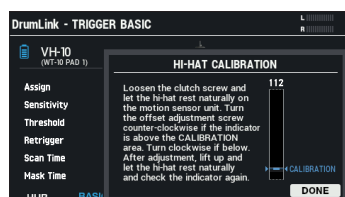
7. Loosen the hi-hat's clutch screw, and let the hi-hat rest naturally on the motion sensor unit.

8. Look for the indicator in the lower right part of the screen.



When the indicator is within the CALIBRATION area

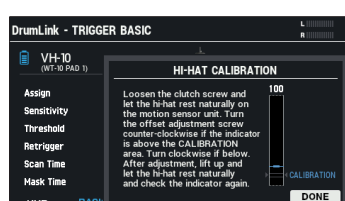
The adjustment is complete.



When the indicator is above the CALIBRATION area

Turn the offset adjustment screw counterclockwise.

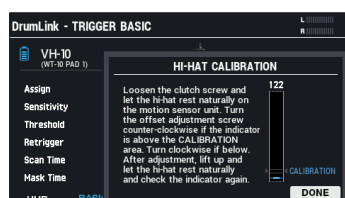
Lift and lower the hi-hat naturally, and double-check that the indicator stays within the CALIBRATION area.



When the indicator is below the CALIBRATION area

Turn the offset adjustment screw clockwise.

Lift and lower the hi-hat naturally, and double-check that the indicator stays within the CALIBRATION area.



9. Click the [F6] (DONE) button to finish the calibration.
10. Fasten the clutch screw at a position where the hi-hat sways naturally when struck.

Other settings and features

If a pad is not recognized

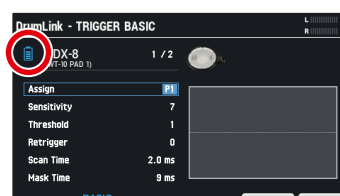
If your pads are not recognized even when you connect the DH-10 to which they are already paired, follow the steps below.

1. Choose [MENU] → "SYSTEM".
2. Use the cursor [▲] [▼] [◀] [▶] buttons to select "PAD/TRIG IN", and then press the [ENTER] button.
The PAD/TRIG IN screen appears.
3. Press the [F6] (DrumLink) button and then press the [F1] (HUB) button.
DrumLink - HUB screen appears.
4. Press the [F6] (DrumLink) button to turn DrumLink off.
5. Press the [F6] (DrumLink) button again to turn DrumLink on.

If the pads are still not recognized after you do this, disconnect the SPD-SX PRO from the DH-10 and try connecting them again.

Checking the remaining battery power

You can check the remaining battery power for each pad from the DrumLink - TRIGGER BASIC tab, the DrumLink - TRIGGER CURVE tab, and the DrumLink - TRIGGER OPTIONS/ADVANCED tab.



When you strike a pad, the built-in LED on the WT-10 lights up.

If the pad LED does not light up even after you strike the pad, replace the batteries.

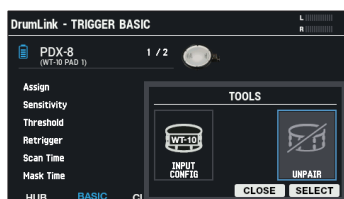
NOTE

- Use AA-size alkaline batteries.
- The fluid in the batteries may leak if the remaining battery level gets too low. Replace the batteries as soon as possible.
- Remove the batteries from the pads when you are not using the pads for an extended period of time.

Unpairing the SPD-SX PRO and pads

Here's how to unpair the SPD-SX PRO from the pads.

1. Choose [MENU] → "SYSTEM".
2. Use the cursor [▲] [▼] [◀] [▶] buttons to select "PAD/TRIG IN", and then press the [ENTER] button.
The PAD/TRIG IN screen appears.
3. Press the [F6] (DrumLink) button.
The DrumLink screen appears.
4. Press one of the [F2] (BASIC)–[F4] (OPT/ADV) buttons.
5. Press the [F5] (TOOLS) button to show the TOOLS screen.
6. Strike to select the pad that you want to unpair.
You can also select the pad to set by pressing the cursor [◀] [▶] buttons while holding down the [ENTER] button.
7. Use the cursor buttons to select "UN-PAIR", and press the [ENTER] button.



8. Use the cursor buttons to select "OK" and press the [ENTER] button.

After the message appears, strike the selected pad to unpair it.

MEMO

When the cursor is on a paired pad in the DrumLink - HUB screen, you can also unpair the pad by pressing [F6] (UNPAIR) while holding down the [SHIFT] button.

Updating the firmware

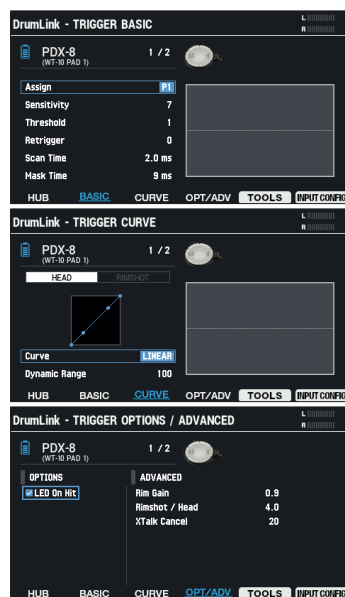
To update the firmware for the DH-10, the WT-10 and so on, connect the DH-10 to your computer and use the DWe Control application. See the DH-10 and WT-10 product support pages for update instructions.

https://roland.cm/dh-10_om

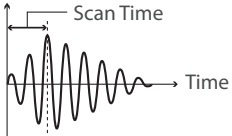
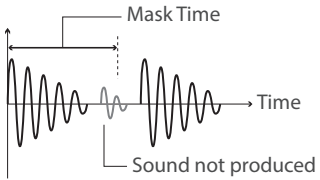


Pad parameter descriptions

TRIGGER BASIC, CURVE, OPTIONS/ADVANCED



Parameter	Explanation	
DrumLink - TRIGGER BASIC tab		
Assign	N/A, P1(PAD1) – P9(PAD9), TRIG IN 1/2, TRIG IN 3/4, TRIG IN 5/6, TRIG IN 7/8, TRIG IN 1 – TRIG IN 8	Specifies the trigger input to which a connected pad should be assigned. When this is set to TRIG IN 1/2, TRIG IN 3/4, TRIG IN 5/6 or TRIG IN 7/8, playing the head (bow) makes the odd-numbered pads play, and playing the rim (edge) or bell makes the even-numbered pads play. When this is set to P1 (PAD1)–P9 (PAD9) or TRIG IN 1–TRIG IN 8, the selected trigger input plays regardless of where you strike the head (bow), rim (edge) or bell.
Sensitivity	1–16	Adjusts the sensitivity of the pads, which lets you control the balance between how hard you strike the pads and the volume. * Increasing this value increases the sensitivity, so that even soft strikes on the pad play the sound at higher volumes. * Decreasing this value decreases the sensitivity, so that even hard strikes on the pad play the sound at lower volumes.
Threshold	1–15	Adjusts the minimum sensitivity of the pads. * Higher values make the pads respond only when you strike them harder. * Lower values make the pads respond even when you strike them softer. Note that the pads may respond incorrectly when you set this to a lower value.

Parameter	Explanation
Retrigger	Adjusts the detection of attenuation for the trigger signal. The pad may accidentally retrigger multiple times even though you've only struck the pad once. This is caused by fluctuations in the trigger signal that's transmitted when you strike a pad. Use this parameter to prevent this kind of retriggering due to fluctuations in the trigger signal. Although higher values prevent retriggering, this has the side effect of omitting some sounds when you repeatedly strike the pad in quick succession. Set this to the lowest value possible while still ensuring that there is no retriggering. 0–15
Scan Time (ms)	Fine-tunes the trigger signal detection time. Since the rise time of the trigger signal waveform differs slightly depending on the characteristics of each pad, the sounds produced may vary in volume even when you're striking the pad at the same velocity. If this occurs, you can adjust the trigger signal detection time (Scan Time) so that your playing strength can be detected more precisely. * As the value is set higher, the time it takes for the sound to play increases. Set this to as low a value as possible.  2.0–5.0
Mask Time (ms)	This prevents double triggering. For instance, when you play the kick drum, the beater can bounce back and hit the head a second time immediately after the intended note, which causes a single hit to "double trigger" (two sounds instead of one). The Mask Time setting helps to prevent this. Once a pad is struck, any additional trigger signals occurring within the specified time are ignored. Increasing this value makes it more likely that notes played in rapid succession are to drop out. Set this to as low a value as possible.  0–70
DrumLink - TRIGGER CURVE tab	
Curve	Adjusts how the volume changes in response to how hard you strike the pad. On the SPD-SX PRO, you can select settings that are adjusted via DWe Control (USER) and from multiple presets (LINEAR–EXP3). * You can set Curve and Dynamic Range for each playing style. USER, LINEAR, LOG1, LOG2, LOG3, POW1, POW2, POW3, EXP1, EXP2, EXP3

Parameter	Explanation
Dynamic Range	Adjusts the range of dynamics you use to strike the pads. Increasing this value narrows the range, so that even soft strikes on the pad play the sound at a high volume. This is useful for making detailed adjustments according to your playing technique, after you have adjusted the pad sensitivity using the Sensitivity parameter. 0–100
DrumLink - TRIGGER OPTION/ADVANCED tab	
Settings common to all pads	
LED On Hit	OFF, ON Sets whether the LED built into the WT-10 lights up when you strike the pad.
KD series	
XTalk Cancel	Adjusts the crosstalk sensitivity. Crosstalk is a feature that prevents accidentally triggering a pad due to the vibrations of other pads. For example, if two pads are mounted on the same drum stand, the vibrations when you strike one pad may cause the other pad to sound unintentionally. Increasing this value prevents the pad from being triggered by the vibrations of other pads. However, if you set the value too high, some sounds may drop out when you strike one pad and another at the same time. OFF, 1–80
PD series	
Rim Gain	Adjusts the balance between how hard you strike the rim and the resulting velocity value. If you increase this value, softer strikes on the rim play the sound at a higher velocity. If you decrease this value, stronger strikes on the rim play the sound at a lower velocity. 0.0–3.2
Rimshot / Head	Adjusts the crossover point between the snare drum head zone and the rim shot zone. Increase this value if the rim shot plays even when you strike the head. Decrease this value if the head sound is heard even when you play a rim shot. Set this by gradually changing the value while checking how this affects the sound. 0.0–15.5
XTalk Cancel	Adjusts the crosstalk sensitivity. Crosstalk is a feature that prevents accidentally triggering a pad due to the vibrations of other pads. For example, if two pads are mounted on the same drum stand, the vibrations when you strike one pad may cause the other pad to sound unintentionally. Increasing this value prevents the pad from being triggered by the vibrations of other pads. However, if you set the value too high, some sounds may drop out when you strike one pad and another at the same time. OFF, 1–80

Parameter	Explanation	
VH series		
Edge Gain	0.0–3.2	Adjusts the balance between how hard you strike the edge and the resulting velocity value. If you increase this value, softer strikes on the edge play the sound at a higher velocity. If you decrease this value, stronger strikes on the edge play the sound at a lower velocity.
CC Max	90, 127	Sets the control change (CC) value that’s transmitted when you press the hi-hat pedal completely. * Select whether the maximum CC value when you press the HH CTRL pedal (connected to PAD2) should be 90 or 127. * When you turn on the “Hi-Hat” parameter that is configurable on the INPUT CONFIGURATION screen, you can configure other pads besides the VH series.
Open Pedal Tune	-7–0–+7	Sets the CC value used when the hi-hat is opened. If the CC value does not fall to zero when the pedal is released, you can make it do so by changing this to a negative value. * When you turn on the “Hi-Hat” parameter that is configurable on the INPUT CONFIGURATION screen, you can configure other pads besides the VH series.
Closed Pedal Tune	-7–0–+7	Sets the range between the open and closed hi-hat position. Smaller values result in a higher closed position, which lets you close the hi-hat with less force. Larger values make the hi-hat close only when you press the pedal with greater force. * When you turn on the “Hi-Hat” parameter that is configurable on the INPUT CONFIGURATION screen, you can configure other pads besides the VH series.
XTalk Cancel	OFF, 1–80	Adjusts the crosstalk sensitivity. Crosstalk is a feature that prevents accidentally triggering a pad due to the vibrations of other pads. For example, if two pads are mounted on the same drum stand, the vibrations when you strike one pad may cause the other pad to sound unintentionally. Increasing this value prevents the pad from being triggered by the vibrations of other pads. However, if you set the value too high, some sounds may drop out when you strike one pad and another at the same time.
CY series		
Positional Sensing	OFF, ON	Turns positional sensing (which detects where the pad was struck) on/off. * This parameter is only for pads that support positional sensing (CY-16R-T/CY-15R/CY-14R-T/CY-13R/CY-12R/C).
Edge Gain	0.0–3.2	Adjusts the balance between how hard you strike the edge and the resulting velocity value. If you increase this value, softer strikes on the edge play the sound at a higher velocity. If you decrease this value, stronger strikes on the edge play the sound at a lower velocity.

Parameter	Explanation	
XTalk Cancel	OFF, 1–80	Adjusts the crosstalk sensitivity. Crosstalk is a feature that prevents accidentally triggering a pad due to the vibrations of other pads. For example, if two pads are mounted on the same drum stand, the vibrations when you strike one pad may cause the other pad to sound unintentionally. Increasing this value prevents the pad from being triggered by the vibrations of other pads. However, if you set the value too high, some sounds may drop out when you strike one pad and another at the same time.
RT series		
Rim Gain	0.0–3.2	Adjusts the balance between how hard you strike the rim and the resulting velocity value. If you increase this value, softer strikes on the rim play the sound at a higher velocity. If you decrease this value, stronger strikes on the rim play the sound at a lower velocity.
Rimshot / Head	0.0–15.5	Adjusts the crossover point between the snare drum head zone and the rim shot zone. Increase this value if the rim shot plays even when you strike the head. Decrease this value if the head sound is heard even when you play a rim shot. • Set this by gradually changing the value while checking how this affects the sound.
Ext Noise Cancel	0–5	This prevents a drum from being triggered unintentionally due to the sound of striking another drum that doesn't have a drum trigger attached, or due to external sound or vibration (noise cancel).
XTalk Cancel	OFF, 1–80	Adjusts the crosstalk sensitivity. Crosstalk is a feature that prevents accidentally triggering a pad due to the vibrations of other pads. For example, if two pads are mounted on the same drum stand, the vibrations when you strike one pad may cause the other pad to sound unintentionally. Increasing this value prevents the pad from being triggered by the vibrations of other pads. However, if you set the value too high, some sounds may drop out when you strike one pad and another at the same time.

DrumLink - HUB

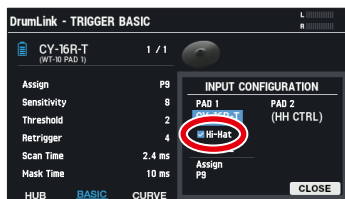


Parameter	Explanation
RF Channel	Sets the channel that's used for wireless communication between the DH-10 and each pad. 1 (2402 MHz), 2 (2426 MHz), 3 (2451 MHz), 4 (2480 MHz) In situations such as when you're using another DH-10 nearby, you can avoid interference by setting each unit to a different channel.
MIDI Output	Sets the connector that's used for the DH-10. Soft Only: Uses only USB. Hub Only: Uses only MIDI OUT. Soft+Hub: Uses both USB and MIDI OUT. * When connecting the SPD-SX PRO to the DH-10, use either the "Soft Only" or the "Soft+Hub" setting.
Send Note Off	When using MIDI OUT on the DH-10, this determines whether to output note-off data or not. OFF, ON

* The values aside from those of the Assign parameter are stored in the WT-10, not on the SPD-SX PRO. These parameters are not saved when you perform the BACKUP ALL operation on the SPD-SX PRO.

INPUT CONFIGURATION

Parameter	Explanation
Hi-Hat	OFF The input from the PAD 2 jack on the WT-10 is not recognized as the HH CTRL signal from the PAD1 jack. ON When the trigger input assignment is set to something other than "N/A", the input from PAD 2 on the WT-10 is recognized as the HH CTRL signal. * When a pad aside from the hi-hat is connected to the PAD1 jack and Hi-Hat is set to "ON", you can also use the hi-hat control pedal connected to the PAD2 jack (such as the FD-8 or FD-9) to input HH CTRL signals.



⇒ "Assigning the trigger input for the pad connected to the WT-10" (p. 4)

Parameter	Explanation
2 Zone	This parameter can be operated when setting a pad for the PAD1 jack of the WT-10 that supports playing bell shots, such as the CY-16R-T. * When connecting a CY-16R-T to the PAD1 jack and a PDX-12 to the PAD2 jack, configure the settings as shown in the illustration. When the trigger input assignment is set to something other than "N/A", the input from the PAD2 jack is recognized as a bell signal for the PAD1 jack. When doing this, the Curve parameter that's set for BELL (DrumLink - TRIGGER CURVE tab) is applied. Note that on the SPD-SX PRO, you can't play a different sound from the bow/edge when you strike the bell. With the example as shown on this screen, the P1 (PAD1) sound plays regardless of where you play on the CY-16R-T, meaning the head (bow), the rim (edge) or the bell. OFF DrumLink - TRIGGER BASIC CY-16R-T (WT-10 PAD 1) 1 / 1 Assign P1 Sensitivity 8 Threshold 2 Retrigger 4 Scan Time 2.4 ms Mask Time 10 ms HUB BASIC CURVE INPUT CONFIGURATION PAD 1 CY-16R-T PAD 2 (BELL) 2 Zone P1 Assign P2 CLOSE ⇒ "Assigning the trigger input for the pad connected to the WT-10" (p. 4) ON DrumLink - TRIGGER BASIC CY-16R-T (WT-10 PAD 1) 1 / 2 Assign P1 Sensitivity 8 Threshold 2 Retrigger 4 Scan Time 2.4 ms Mask Time 10 ms HUB BASIC CURVE INPUT CONFIGURATION PAD 1 CY-16R-T PAD 2 PDX-12 2 Zone P1 Assign P2 CLOSE

Troubleshooting

Problem	Items to check	Action
Cannot pair the DH-10 with a drum pad or cymbal	Check that the red and blue indicators on the DH-10 are lit.	If the red and blue indicators are not lit, reconnect the USB port. If you still don't see any improvement, try a different USB Type-C® cable.
	When pairing, use a stick and strike the drum or cymbal fairly hard. Also, when pairing with a cymbal, strike the edge to make pairing easier, as the sensitivity is greater.	
No sound is heard when striking a drum pad or a cymbal	This may be because only the PAD2 jack has been plugged in to the WT-10.	When connecting only one pad, connect the PAD1 jack of the WT-10. The PAD1 jack also functions as a power switch.
	Is the drum pad or cymbal paired with DH-10?	Pair the drum pad or cymbal with DH-10. ➔ "Pairing the DH-10 with the WT-10" (p. 2)
	Have you configured the trigger for the drum pad or cymbal (Input Configuration)?	If the drum pad or cymbal type is not set properly, some playing techniques may not produce sound. Configure the trigger settings so that the WT-10 works properly. ➔ "Configuring the pad triggers" (p. 3)
The indicator does not light up even when a cable is plugged in the WT-10 PAD1 jack	When you insert a plug into the PAD1 jack of the WT-10, the indicator briefly blinks and then goes dark. The indicator does not stay illuminated while the power is on.	
The indicator does not blink even when a cable is plugged in the WT-10 PAD1 jack	The indicator light is not designed to blink when the plug is unplugged from the PAD1 jack of the WT-10 and reinserted within 10 seconds.	In this case, the WT-10 remains powered on, and you can continue to operate it. If the plug is unplugged for more than 20 seconds and then plugged in, the indicator blinks and then goes dark as usual.
The batteries are dead	Replace the two alkaline batteries (AA, LR6). The parameters that have been set remain stored on the WT-10 even after the batteries are depleted.	

Support for DWe pads

By connecting the DWe DrumLink hub to the SPD-SX PRO, you can use the DWe pads to play the sounds of the SPD-SX PRO.

Example 1: Using the DWe

This lets you use the SPD-SX PRO as a drum sound module.



Example 2: Using the SPD-SX PRO

This lets you add DWe pads to the setup.



How to set up

See the Quick Start Guide included with the DWe for how to assemble and play each DWe pad.

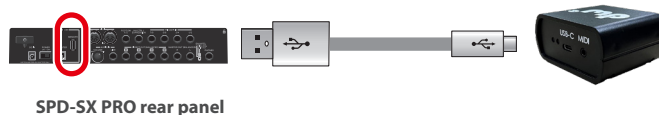
NOTE

The drumming techniques listed below for the DWe pads do not work with the SPD-SX PRO.

DWe snare	Pitch bend, digiMag throw-off
DWe tom/floor tom	Pitch bend, Choke
DWe hi-hat	Bell zone playing
DWe crash	Bell zone playing

Connecting the DWe DrumLink hub to the SPD-SX PRO

1. Use a commercially available USB cable to connect the **DIGITAL TRIGGER IN** ports of the SPD-SX PRO to the DWe DrumLink hub.

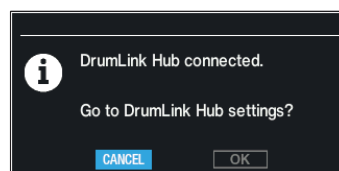


SPD-SX PRO rear panel

NOTE

Do not place the DrumLink hub on top of the sound module. Place it on a nearby table or on the floor. When doing so, use a commercially available USB cable of the required length.

The following message is shown once you connect the DrumLink hub.



2. Use the cursor buttons to select "OK" and then press the [ENTER] button.

This switches to the DrumLink - HUB screen.

Pairing the DrumLink hub with the DWe pads

You must pair the DrumLink hub with the DWe pads when you first connect them. You don't need to do this if you've already paired the DrumLink hub with the DWe pads.

- * If the DrumLink - HUB screen is already shown in "Connecting the DWe DrumLink hub to the SPD-SX PRO" (p. 11), operate from step 4.

1. Choose [MENU] → "SYSTEM".
2. Use the cursor [▲] [▼] [◀] [▶] buttons to select "PAD/ TRIG IN", and then press the [ENTER] button.
The PAD/TRIG IN screen appears.
3. Press the [F6] (DrumLink) button.
The DrumLink screen appears.
4. Press the [F1] (HUB) button to display the DrumLink - HUB screen.

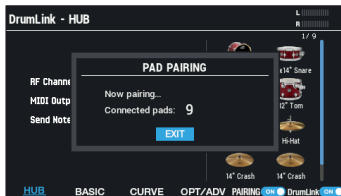
If the [F6] button's function name is shown as "DrumLink OFF", press the [F6] button to change it to "DrumLink ON".

MEMO

If the [F6] (DrumLink) button is not shown, you can make it appear by moving the cursor to the parameters (such as RF Channel) on the left side of the screen.

5. Press the [F5] (PAIRING) button, and strike each DWe pad once that you want to pair.

Once the pads or cymbals are paired, a message like the following appears.



- * You don't need to strike each pad more than once.

6. To access the DWe pad setup screen after pairing, press the [EXIT] button and then one of the [F2] (BASIC)–[F4] (OPT/ADV) buttons.

NOTE

Each DWe pad parameters are not saved in the SPD-SX PRO, but are saved in each DWe pad. Also, because changing a parameter does not apply the setting to the pad, strike the pad you want to change the setting to reflect the setting. For details, refer to "Adjusting the DWe pad sensitivity" (p. 15).

MEMO

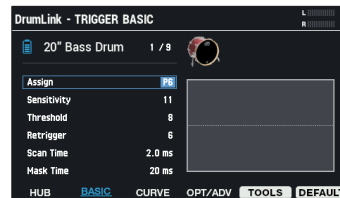
- After pairing, the information for each DWe pad is stored in memory on the DrumLink hub. The units automatically pair when you restart the SPD-SX PRO or connect the DrumLink hub to a different SPD-SX PRO, so there's no need to pair manually.
- Although pairing is not necessary after restarting this unit, you must strike the pad you want to set once to make it show up on the pad settings screen.
- To exchange a pad, unpair the pad you no longer need and then pair with the new pad.

Configuring the DWe pad assignment

Here's how to specify the pad or trigger to which a connected DWe pad should be assigned.

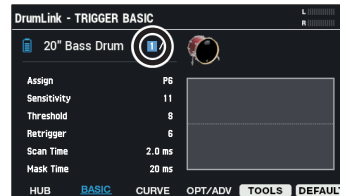
The optimal assignments are already made when you first connect each pad. The following explains how to change the assigned destinations (assignments).

1. Choose [MENU] → "SYSTEM".
2. Use the cursor [▲] [▼] [◀] [▶] buttons to select "PAD/ TRIG IN", and then press the [ENTER] button.
The PAD/TRIG IN screen appears.
3. Press the [F6] (DrumLink) button.
The DrumLink screen appears.
4. Press the [F2] (BASIC) button to display the DrumLink - TRIGGER BASIC screen.



5. Strike to select the DWe pad that you want to set.

You can also use the cursor buttons to move the cursor, and use the [-] [+] buttons or the dial to select the DWe pad to set.



6. Use the cursor buttons to select the Assign parameter.
7. Use the [-] [+] buttons or the dial to edit the assignment.

Calibrating a DWe pad

Before using the DWe pads, follow these steps to adjust (calibrate) the sensors built into each pad.

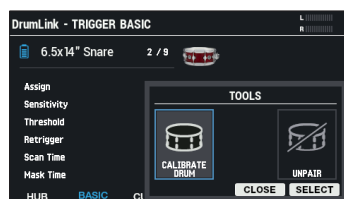
1. Choose [MENU] → "SYSTEM".
2. Use the cursor [▲] [▼] [◀] [▶] buttons to select "PAD/TRIG IN", and then press the [ENTER] button.

The PAD/TRIG IN screen appears.

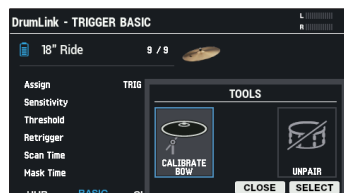
3. Press the [F6] (DrumLink) button.
The DrumLink screen appears.
4. Press one of the [F2] (BASIC)–[F4] (OPT/ADV) buttons.
5. Press the [F5] (TOOLS) button to show the TOOLS window.
6. Strike the DWe pad to select the pad to calibrate.

You can also select the pad to set by pressing the cursor [◀] [▶] buttons while holding down the [ENTER] button.

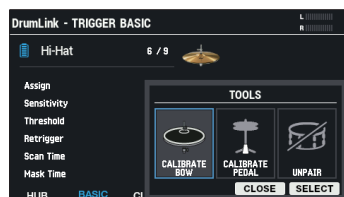
When the DWe snare is selected



When the DWe crash/ride cymbal is selected



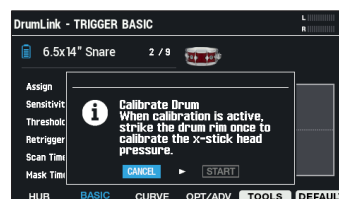
When the DWe hi-hat is selected



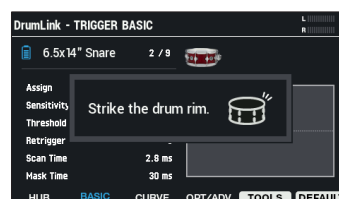
7. Use the cursor buttons to select "CALIBRATE DRUM", "CALIBRATE BOW" or "CALIBRATE PEDAL", and press the [ENTER] button to begin calibration.

DWe snare: calibrating the head

- 7-1. Use the cursor buttons to select "START", and press the [ENTER] button.



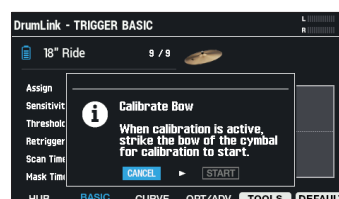
- 7-2. When the next message is shown, strike the rim of the snare drum.



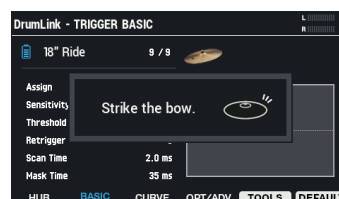
This completes the calibration.

DWe crash/ride/hi-hat: calibrating the bow

- 7-1. Use the cursor buttons to select "START", and press the [ENTER] button.



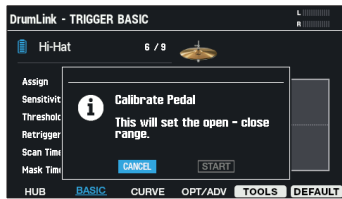
- 7-2. When the next message is shown, strike the bow of the cymbal.



This completes the calibration.

DWe hi-hat: calibrating the pedal

- 7-1.** Use the cursor buttons to select “START”, and press the [ENTER] button.

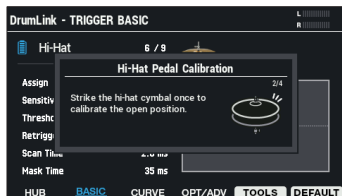


- 7-2.** When you see the following message, loosen the clutch screw of the DWe hi-hat.

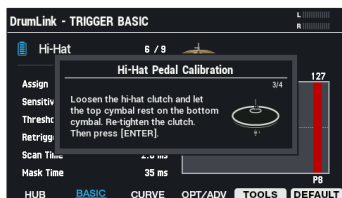


- 7-3.** Retighten the screw with the top and bottom cymbals at least 5 cm apart, and press the [ENTER] button.

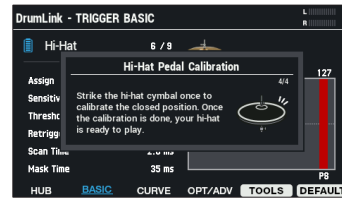
- 7-4.** When you see the following message, strike the DWe hi-hat cymbal to calibrate the open position.



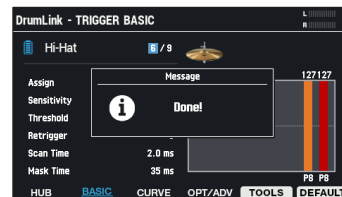
- 7-5.** Loosen the DWe hi-hat clutch screw again, retighten the screw with the hi-hat in closed position, and press the [ENTER] button.



- 7-6.** When you see the following message, strike the DWe hi-hat cymbal to calibrate the closed position.



When the following message appears, calibration is complete.



MEMO

- The DWe pads may behave differently depending on the environment (such as temperature) in which they are used. We recommend that you calibrate the pads before you use them.
- Make sure to calibrate the DWe snare if you've adjusted its tension.

Adjusting the DWe pad sensitivity

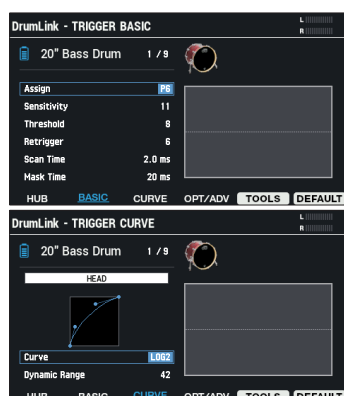
Each DWe pad is already set to its optimum sensitivity value by factory default. Adjust the DWe pad sensitivity if you need to make more detailed settings or use DWe pads together with Roland pads.

For details on each parameter, refer to “Pad parameter descriptions” (p. 17).

1. Choose [MENU] → “SYSTEM”.
2. Use the cursor [▲] [▼] [◀] [▶] buttons to select “PAD/TRIG IN”, and then press the [ENTER] button.

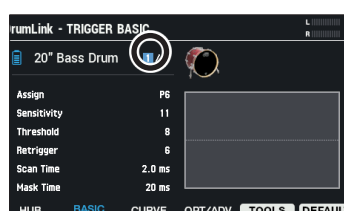
The PAD/TRIG IN screen appears.

3. Press the [F6] (DrumLink) button.
The DrumLink screen appears.
4. Press the [F2] (BASIC) button or the [F3] (CURVE) button to display the DWe TRIGGER BASIC screen or the DWe TRIGGER CURVE screen.



5. Strike to select the DWe pad that you want to set.

You can also use the cursor buttons to move the cursor, and use the [-] [+] buttons or the dial to select the DWe pad to set.

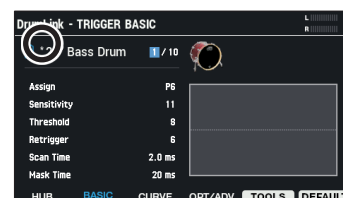


6. Use the cursor buttons to select a parameter, and use the [-] [+] buttons or the dial to edit the value.

7. Strike the selected pad once to apply the parameter.

Simply changing the parameter does not apply the settings to the pad. When an asterisk appears as shown below, this means that the settings haven't yet been applied to the pad.

Strike the applicable pad to apply the settings. The asterisk disappears once the settings are applied to the pad.



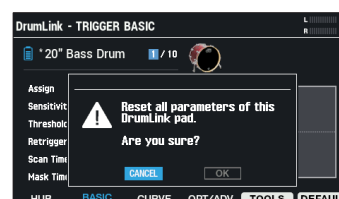
MEMO

- When using DWe pads together with Roland pads, note that their respective sensitivities may differ. In this case, you can mainly adjust the Sensitivity, Curve and Dynamic Range parameters for the DWe pad to make the respective sensitivities about the same.
- Here's how to return the parameters to their factory settings.

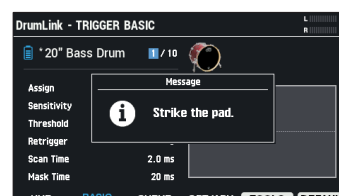
1. Press the [F6] (DEFAULT) button.

A confirmation message appears.

2. Use the cursor buttons to select “OK”, and press the [ENTER] button to initialize the settings.



3. When the following message appears, strike the pad.



Other settings and features

If the DWe pads are not recognized

If your DWe pads are not recognized even when you connect the DrumLink hub to which they are already paired, follow the steps below.

1. Choose [MENU] → "SYSTEM".
2. Use the cursor [▲] [▼] [◀] [▶] buttons to select "PAD/ TRIG IN", and then press the [ENTER] button.
The PAD/TRIG IN screen appears.
3. Press the [F6] (DrumLink) button and then press the [F1] (HUB) button.
The DrumLink - HUB screen appears.
4. Press the [F6] (DrumLink) button.

MEMO

If the [F6] (DrumLink) button is not shown, you can make it appear by moving the cursor to the parameters (such as RF Channel) on the left side of the screen.

5. Press the [F6] (DrumLink) button again to change the setting to DrumLink ON.

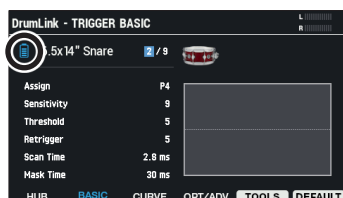
If the pads are still not recognized after you do this, disconnect the SPD-SX PRO from the DrumLink hub and try connecting them again.

Crosstalk reduction

If another pad responds besides the one you struck, or if a pad responds due to sound or vibration from an external source such as a speaker, you can remedy this by adjusting the position of the pad, or by increasing the value of the Threshold parameter for the pad that reacts incorrectly.

Checking the remaining battery power

You can check the remaining battery power for each pad from the DrumLink - TRIGGER BASIC, Drum Link - TRIGGER CURVE or DrumLink - TRIGGER OPTIONS / ADVANCED tabs.



When you strike a pad, its built-in LED lights up.

If the pad LED does not light up even after you strike the pad, replace the batteries.

NOTE

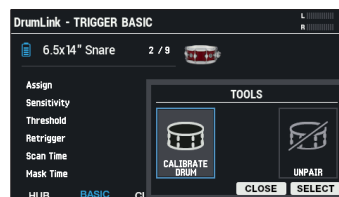
- Use AA-size alkaline batteries.
- The fluid in the batteries may leak if the remaining battery level gets too low. Replace the batteries as soon as possible.
- Remove the batteries from the pads when you are not using the pads for an extended period of time.

Unpairing the SPD-SX PRO and DWe pads

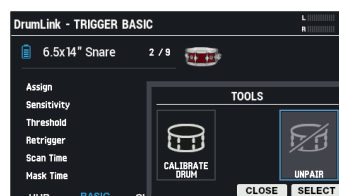
Here's how to unpair the SPD-SX PRO from the DWe pads.

1. Choose [MENU] → "SYSTEM".
2. Use the cursor [▲] [▼] [◀] [▶] buttons to select "PAD/ TRIG IN", and then press the [ENTER] button.
The PAD/TRIG IN screen appears.
3. Press the [F6] (DrumLink) button.
The DrumLink screen appears.
4. Press one of the [F2] (BASIC)–[F4] (OPT/ADV) buttons.
5. Press the [F5] (TOOLS) button to show the TOOLS screen.
6. Strike to select the DWe pad that you want to unpair.
You can also select the pad to set by pressing the cursor [◀] [▶] buttons while holding down the [ENTER] button.

Example: when DWe snare is selected



7. Use the cursor buttons to select "UN-PAIR", and press the [ENTER] button.



8. Use the cursor buttons to select "OK", and press the [ENTER] button.

After the message appears, strike the selected pad to unpair it.

MEMO

When the cursor is on a paired DWe pad in the DrumLink - HUB screen, you can also unpair the DWe pad by pressing [F6] (UNPAIR) while holding down the [SHIFT] button.

Updating the firmware for the DWe DrumLink hub and for each pad

To update the firmware for the DWe DrumLink hub and for the pads, continue the DWe to your computer and use the DWe Control application.

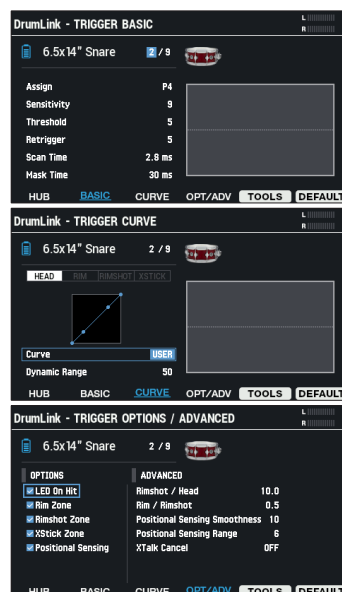
See the DWe product support page for update instructions.

www.dwedrums.com/DWe/support

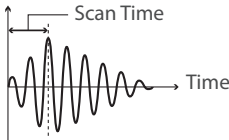
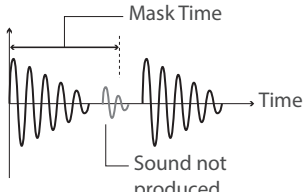


Pad parameter descriptions

TRIGGER BASIC, CURVE, OPTIONS/ADVANCED



Parameter	Explanation	
DrumLink - TRIGGER BASIC tab		
Assign	N/A, P1(PAD1) – P9(PAD9), TRIG IN 1/2, TRIG IN 3/4, TRIG IN 5/6, TRIG IN 7/8, TRIG IN 1 – TRIG IN 8	Specifies the pad or trigger to which a connected pad should be assigned. When this is set to TRIG IN 1/2, TRIG IN 3/4, TRIG IN 5/6 or TRIG IN 7/8, playing the head (bow) makes the odd-numbered pads play, and playing the rim (edge) or bell makes the even-numbered pads play. When this is set to P1 (PAD1)–P9 (PAD9) or TRIG IN 1–TRIG IN 8, the selected trigger input plays regardless of where you strike the head (bow), rim (edge) or bell.
Sensitivity	1–16	Adjusts the sensitivity of the pads, which lets you control the balance between how hard you strike the pads and the volume. * Increasing this value increases the sensitivity, so that even soft strikes on the pad play the sound at higher volumes. * Decreasing this value decreases the sensitivity, so that even hard strikes on the pad play the sound at lower volumes.
Threshold	1–15	Adjusts the minimum sensitivity of the pads. * Higher values make the pads respond only when you strike them harder. * Lower values make the pads respond even when you strike them softer. Note that the pads may respond incorrectly when you set this to a lower value. ➔ “Crosstalk reduction” (p. 16)

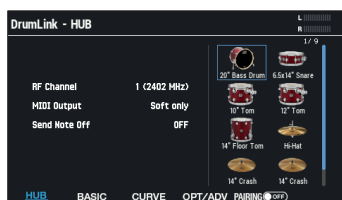
Parameter	Explanation
Retrigger	Adjusts the detection of attenuation for the trigger signal. The pad may accidentally retrigger multiple times even though you've only struck the pad once. This is caused by fluctuations in the trigger signal that's transmitted when you strike a pad. Use this parameter to prevent this kind of retriggering due to fluctuations in the trigger signal. Although higher values prevent retriggering, this has the side effect of omitting some sounds when you repeatedly strike the pad in quick succession. Set this to the lowest value possible while still ensuring that there is no retriggering. 0–15
Scan Time (ms)	Fine-tunes the trigger signal detection time. Since the rise time of the trigger signal waveform differs slightly depending on the characteristics of each pad, the sounds produced may vary in volume even when you're striking the pad at the same velocity. If this occurs, you can adjust the trigger signal detection time (Scan Time) so that your playing strength can be detected more precisely. * As the value is set higher, the time it takes for the sound to play increases. Set this to as low a value as possible. 
Mask Time (ms)	Adjust this to prevent double triggering. For instance, when you play the kick drum, the beater can bounce back and hit the head a second time immediately after the intended note, which causes a single hit to "double trigger" (two sounds instead of one). The Mask Time setting helps to prevent this. Once a pad is struck, any additional trigger signals occurring within the specified time are ignored. Increasing this value makes it more likely that notes played in rapid succession are to drop out. Set this to as low a value as possible. 

Parameter	Explanation
DrumLink - TRIGGER CURVE tab	
Curve	Adjusts how the volume changes in response to how hard you strike the pad. On the SPD-SX PRO, you can select settings that are adjusted via DWe Control (USER) and from multiple presets (LINEAR–EXP3). * You can set Curve and Dynamic Range for each playing style. USER, LINEAR, LOG1, LOG2, LOG3, POW1, POW2, POW3, EXP1, EXP2, EXP3
Dynamic Range	Adjusts the range of dynamics you use to strike the pads. Increasing this value narrows the range, so that even soft strikes on the pad play the sound at a high volume. This is useful for making detailed adjustments according to your playing technique, after you have adjusted the pad sensitivity using the Sensitivity parameter. 0–100

Parameter	Explanation	
DrumLink - TRIGGER OPTION/ADVANCED tab		
Settings common to all DWe pads		
LED On Hit	OFF, ON	Sets whether the LED built into the pad lights up when you strike the pad.
XTalk Cancel	OFF, 1–80	Adjusts the crosstalk sensitivity. Crosstalk is a feature that prevents accidentally triggering a pad due to the vibrations of other pads. For example, if two pads are mounted on the same drum stand, the vibrations when you strike one pad may cause the other pad to sound unintentionally. Increasing this value prevents the pad from being triggered by the vibrations of other pads. However, if you set the value too high, some sounds may drop out when you strike one pad and another at the same time.
DWe snare, tom		
Rim Zone	OFF, ON	Lets you switch rim detection on/off.
Rimshot Zone	OFF, ON	Lets you switch rim shot detection on/off.
XStick Zone	OFF, ON	Lets you switch cross stick detection on/off. * This parameter is only for the snare drum.
Positional Sensing	OFF, ON	Lets you turn strike position detection on/off. * This parameter is only for the snare drum. * When Pos Sensing is set to on, the Pitch Bend parameter which can be set in the DWe Control application is automatically switched off.
Rimshot / Head	0.0–15.5	Lets you adjust how easily the rim shot and head sounds play. Decrease this value if the rim shot plays even when you strike the head. Increase this value if the head sound is heard when you play a rim shot. * Set this by gradually changing the value while checking how this affects the sound.
Rim / Rimshot	0.0–1.0	Lets you adjust how easily the rim and rim shot sounds play. If the rim sound is heard when you play a rim shot, decrease this value. Increase this value if the rim shot plays even when you strike just the rim. * Set this by gradually changing the value while checking how this affects the sound.
Positional Sensing Smoothness	0–15	Adjusts how the sound changes according to the strike position detected on the snare. * This parameter is only for the snare drum.
Positional Sensing Range	1–8	Adjusts the range over which the strike position is detected on the pad face of the snare. Larger values make the sounds play more readily when you strike closer to the center of the pad face; smaller values make the sounds play more readily when you strike towards the edges of the pad face. * This parameter is only for the snare drum.

Parameter	Explanation	
DWe crash, ride, hi-hat		
FSR Auto Calibration	OFF, ON	Lets you turn auto-calibration on/off for the sensors that are built into the edges of the cymbals. Turn this function on if the surrounding environment (such as temperature) changes significantly when you're using the DWe crash or ride. This function automatically calibrates the trigger detection accuracy. * This parameter is only for the crash and ride.
Bell / Bow	0.0–1.0	Lets you adjust how easily the bell and bow sounds play. Decrease this value if the bell sound plays even when you strike the bow. Increase this value if the bow sound is heard when you play the bell. * Set this by gradually changing the value while checking how this affects the sound.
CC Smoothness	0–15	Adjusts the resolution used when detecting the motion of the hi-hat pedal. Use a smaller value when you want to minimize the changes in sound between the open and closed state. * This parameter is only for the hi-hat.
Closed Pedal Tune	-7–7	Adjusts the position at which the hi-hat closes. Smaller values result in a higher closed position, which lets you close the hi-hat with less force. Larger values make the hi-hat close only when you press the pedal with greater force. * This parameter is only for the hi-hat.

DrumLink - HUB



Parameter	Explanation
RF Channel	Sets which channel to use for wireless communications between the DrumLink hub and each DWe pad. 1 (2402 MHz), 2 (2426 MHz), 3 (2451 MHz), 4 (2480 MHz) In situations such as when you are using a different DrumLink hub nearby, set them separately with different channels to avoid interference.
MIDI Output	Determines which port or connector is used for the DrumLink hub. Soft Only: Uses only USB. Hub Only: Uses only MIDI OUT. Soft+Hub: Uses both USB and MIDI OUT. Soft Only, Hub Only, Soft+Hub * When connecting the SPD-SX PRO to the DrumLink hub, use either the "Soft Only" or the "Soft+Hub" setting.
Send Note Off	When using MIDI OUT on the DrumLink hub, this determines whether to output note-off data or not. OFF, ON

* The values aside from those of the Assign parameter are stored in the DrumLink hub or in each pad, not in the SPD-SX PRO. These parameters are not saved when you perform the BACKUP ALL operation on the SPD-SX PRO.

About the closed pedal sounds

One pad per kit can be set to play when you operate the closed pedal. If there are multiple candidates, the following rules apply.

Priority	Enabled triggers (pads)
1 (highest priority)	External trigger whose Trig Type is set to VH-10 or VH-11 * You can set the Trig Type from the MENU → SYSTEM → PAD/TRIG IN screen.
2	Paired DWe hi-hat
3	Pad connected to the PAD1 jack of a paired WT-10 (when the Hi-Hat parameter of "INPUT CONFIGURATION" (p. 9) is "ON")
4	Pad whose Layer Type = "HI-HAT" * The closed pedal sound is enabled according to the priority shown below. PAD 1 → PAD 2 → PAD 3 → PAD 4 → PAD 5 → PAD 6 → PAD 7 → PAD 8 → PAD 9 → TRIGGER IN 1 → TRIGGER IN 2 → TRIGGER IN 3 → TRIGGER IN 4 → TRIGGER IN 5 → TRIGGER IN 6 → TRIGGER IN 7 → TRIGGER IN 8 → FOOT SW 1 → FOOT SW 2

MEMO

For details on the settings, refer to the "SPD-SX PRO Reference Manual" (Roland website).

Functions Added in Ver.1.10

NOTE

You may not be able to connect the app to the SPD-SX PRO if their respective versions are different. Use the latest versions for this unit and for the SPD-SX PRO APP.

Roland Cloud Support

You can now load the kit backup data into this unit that you've downloaded from Roland Cloud.

Operations Added from the SPD-SX PRO APP

The following operations are now available from the SPD-SX PRO APP (Ver. 1.10 and later).

- Backing up data to a computer (SAVE)
- Loading backup data for all of this unit's settings from a computer (LOAD)
- Backing up a kit to a computer (SAVE 1 KIT)
- Loading kit backup data from a computer (LOAD 1 KIT)
- Saving a wave to a computer (EXPORT)

Audio In Type Added

You can now select an Audio In type according to the device that's connected to the AUDIO IN jack.

1. Choose [MENU] → "SYSTEM".
2. Use the cursor [▲] [▼] [◀] [▶] buttons to select "AUDIO SETUP", and then press the [ENTER] button.
The AUDIO SETUP screen appears.
3. Press the [F2] (AUDIO IN) button.
The AUDIO IN screen appears.
4. Use the cursor [▲] [▼] buttons to select the parameter, and then use the [-] [+] buttons to set the value.

Parameter	Value	Explanation
Audio In Type	LINE, MIC	Set this according to the device that's connected to the AUDIO IN jack.
		Use the "LINE" setting when connecting devices like audio players.
		Select "MIC" when connecting a microphone.
		Sounds that are suitable for MIC input: Sounds such as percussion that have high peak values. For these sounds, set this to "MIC" for close-mic sampling.
		Sounds that cannot be recorded using MIC input: Vocals and similar sounds with low peak values. For these sounds, set this to "LINE" and input the audio source through the AUDIO IN by going through an audio device that has a mic input jack (such as a mixer), where you can adjust the gain.

Added Commands for Transmitting Start/Stop Messages to Other Devices (Tx Start/Stop)

You can now transmit MIDI messages containing FA and FC (start/stop) commands to other devices in time with the start/stop click.

1. Choose [MENU] → "SYSTEM".
2. Use the cursor [▲] [▼] [◀] [▶] buttons to select "SYSTEM MIDI", and then press the [ENTER] button.
The SYSTEM MIDI screen appears.
3. Press the [F3] (SYNC) button.
The sync setting screen appears.
4. Use the cursor [▲] [▼] buttons to select the parameter, and then use the [-] [+] buttons to set the value.

Parameter	Value	Explanation
Tx Start/Stop	OFF, ON	Sets this unit to transmit (ON) or not transmit (OFF) MIDI messages containing FA and FC (start/stop) commands to other devices in time with the start/stop click. These messages are not transmitted when "Click Mode" is set to "PLAY WAVE as CLICK-TRACK".