YAMAHA

POWERED SPEAKER SYSTEM

POWERED LOUDSPEAKER

DXR15 mk3
DXR12 mk3
DXR10 mk3

POWERED SUBWOOFER

DXS18 mk3
DXS15 mk3
DXS12 mk3

User Guide

EN

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1. Introduction

Thank you for purchasing this Yamaha product. This product is a powered speaker designed for versatile sound system applications, such as live performances and fixed installations. This user guide provides detailed explanations of the features and installation instructions. Please read this user guide as needed to fully utilize the various features of this product.

NOTE

- The example illustrations in this manual show the DXR12mk3 and DXS15mk3, unless otherwise specified.
- In this manual, the DXR15mk3, DXR12mk3, and DXR10mk3 are all referred to as “DXRmk3.” The DXS18mk3, DXS15mk3, and DXS12mk3 are all referred to as “DXSmk3.”

The DXRmk3 series and DXSmk3 series speakers covered in this manual consist of the following models.

	Model	Type
Full range	DXR15mk3	2-way 15”
	DXR12mk3	2-way 12”
	DXR10mk3	2-way 10”
Subwoofer	DXS18mk3	18”
	DXS15mk3	15”
	DXS12mk3	12”

1.1. Symbols used in this manual

The symbols used on this product and in this manual have the following meaning.

Symbol	Meaning
WARNING	Content describing a situation that might cause death or severe injury.
CAUTION	Content describing a situation that might cause injury.
NOTICE	Content describing a situation that might cause malfunction, damage, faulty operation, or loss of data.
NOTE	Information regarding operation and use. Read this for your reference.

1.2. About this manual

- The illustrations and screens as shown in this manual are for instructional purposes only.
- QR Code is a registered trademark of DENSO WAVE INCORPORATED.
- The company names and product names in this manual are the trademarks or registered trademarks of their respective companies.
- Software may be revised and updated without prior notice.

1.3. Features

■ DXRmk3 series

New acoustic design

- Bigger horn size expands the frequency range subject to directional control.
- A large, central port reduces the effects of wind noise and standing waves.
- Our newly designed proprietary speaker units deliver clear sound with little distortion.

Versatile enclosure design

- The pole socket has two angles to choose from.
- The symmetrical design allows mirrored placement when installing floor monitors.
- Rigging points for eye bolts are equipped. An optional U-bracket enables various installation arrangements.

FIR-X tuning™
The utilization of FIR filters in the crossover realizes smooth phase/frequency response and excellent sound quality.

DSP MODE
The optimal tuning setting can be selected for your application or installation conditions, such as a main speaker or stage monitor.

Mixing function
In addition to line signals, inputs from Bluetooth or microphones can be output.

High reliability
DSP control protects speakers and amplifiers. They can be safely used even in harsh environments.

Bluetooth® connection

- Bluetooth connection allows you to play and control music from your smartphone.
- The dedicated application software D-Remote can be used to control and monitor the speakers, allowing you to precisely monitor and control the speaker status away from the speaker.

■ DXSmk3 series

High power, high sound pressure, and excellent low-frequency playback capability
The bandpass system adopted has a new shape that is advantageous for high sound pressure. High-power amplifiers and woofers with high input resistance and low distortion are installed, achieving an excellent low-frequency playback capability and high sound pressure.

Excellent functions for optimal sound creation

- D-XSUB: DSP controls the playback frequency band. You can select settings suitable for a variety of applications and music genres.
- Selectable X-OVER: Cutoff frequency and LPF/HPF coupling/uncoupling can be selected, allowing for flexible adaptation to a variety of applications.
- Cardioid mode: This mode allows you to configure a cardioid setting that reduces sound pressure to the rear of the speaker and amplifies sound pressure to the front. (Two or more DXS units are required.)

High reliability
The cabinet is made of sturdy plywood and painted with highly scratch-resistant polyurea resin.

Highly easy to use
A pole socket compatible with both ø35 mm and M20 is also equipped. Optional silent casters can be installed.

Bluetooth® connection

- Bluetooth connection allows you to play and control music from your smartphone.
- The dedicated application software D-Remote can be used to control and monitor the speakers, allowing you to precisely monitor and control the speaker status away from the speaker.

1.4. Package Contents (Please Verify)

- Power cord ×1
- Read This First ×1

1.5. Optional Accessories (Sold Separately)

Speaker	Speaker Cover	U-Bracket	Wheels
DXR15mk3	SPCVR-DXR153	UB-DXR15A	
DXR12mk3	SPCVR-DXR123	UB-DXRDHR12A	
DXR10mk3	SPCVR-DXR103	UB-DXRDHR10A	
DXS18mk3	SPCVR-DXS183		SPW-1
DXS15mk3	SPCVR-DXS153		SPW-1
DXS12mk3	SPCVR-DXS123		SPW-1

1.6. Available Documentation

- **Read This First (packaged with the product)**
  This manual explains how to use the product safely.
- **User Guide (this manual)**
  This manual provides detailed explanations of the functions as well as the step-by-step procedures required to install and set up the product.
- **D-Remote User Guide**
  This guide explains how to use D-Remote, the application software that allows you to remotely control this product from a mobile device such as a smartphone or tablet via Bluetooth.

1.7. About Bluetooth® Audio

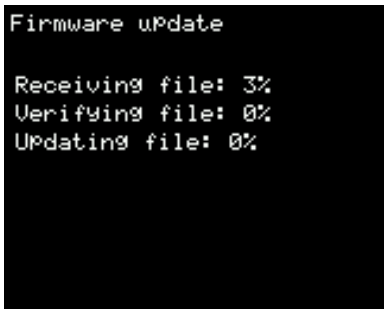
The DXRmk3 and DXSmk3 series can amplify and distribute audio played on Bluetooth devices such as mobile devices.
This product enables you to search for and pair a Bluetooth device. You can also manually connect from a Bluetooth device that has already been paired.
For details, refer to UTILITY Screen > BLUETOOTH SETUP.

1.8. About D-Remote

D-Remote is the application software for remotely controlling this product from a mobile device such as a smartphone or tablet via Bluetooth. You can control the product's parameters and monitor its operating status.
For instructions on how to download D-Remote, refer to the Yamaha Pro Audio website.
https://www.yamahaproaudio.com/
For details, refer to "D-Remote User Guide."

1.9. Firmware Updates

This product is designed to allow its firmware to be updated to improve operability, add functions, and fix bugs.
You can update the firmware of this product using D-Remote.
For update instructions, refer to "D-Remote User Guide."



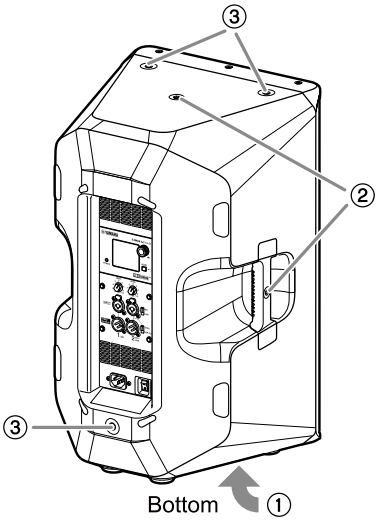
Once the update begins, the progress will be displayed as a percentage on the screen.
Once the update is completed, the results will be displayed and the product will automatically reboot.

NOTE

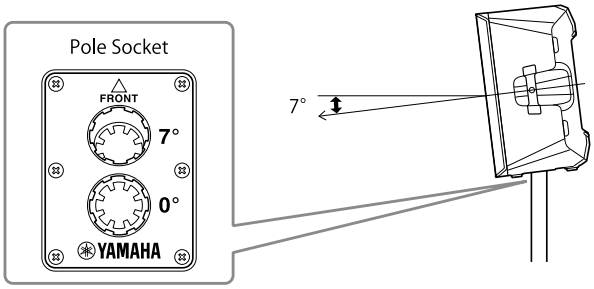
A firmware update takes an average of 15 minutes. Please allow enough time for the update.
Depending on the signal strength and surrounding environment, the update may not be completed successfully.
In such cases, position your mobile device close to the product when updating it.
If the update still fails, try updating again in a different location or at a different time.

2. Functions

2.1. Full-Range Speaker DXRmk3



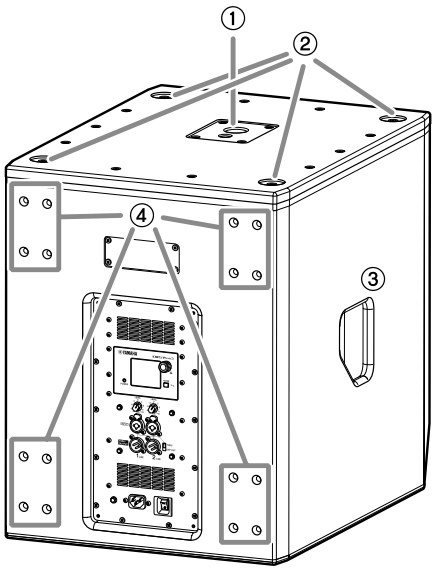
① **Tiltable pole socket**
The pole socket has two holes: one that is level and one at a 7-degree tilt. Use only one of the holes. You can choose to mount the speaker either parallel to the floor or tilted down by 7 degrees. These sockets are compatible with commercially available speaker stands and speaker poles of 35 mm diameter.



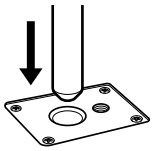
② **Screw holes for U-bracket**
For installing with separately sold U-brackets.

③ **Screw holes for eye bolts**
For installing the DXRmk3 using eye bolts. The screw holes for eye bolts go through the cabinet wall.

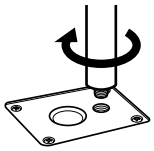
2.2. Subwoofer DXSmk3



① **Pole socket:**
The socket is compatible with both commercially available 35 mm diameter poles and M20 screw-in speaker poles. Choose one mounting method to use.



35mm dia



M20 screw

When installing speakers using the pole socket, observe the following conditions for safety.

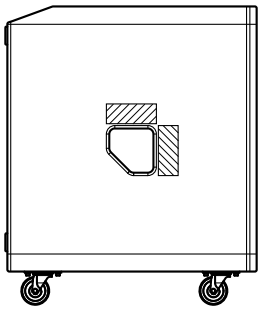
Subwoofer	Speaker to be installed	Pole length
DXS18mk3	Weight: 21.0 kg or less Height: 70 cm or less (up to DXR15mk3)	120 cm or less
DXS15mk3	Weight: 21.0 kg or less Height: 70 cm or less (up to DXR15mk3)	120 cm or less
DXS12mk3	Weight: 17.4 kg or less Height: 60 cm or less (up to DXR12mk3)	95 cm or less
	Weight: 14.5 kg or less Height: 50 cm or less (up to DXR10mk3)	120 cm or less

② **Rubber foot indents**
When stacking speakers vertically, align the rubber feet of the top speaker with these indentions.

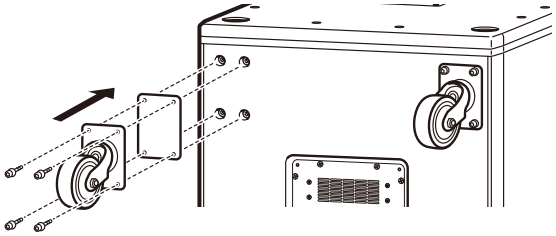
③ Handle

CAUTION

When lifting and carrying the subwoofer, always hold the shaded area of the handle as indicated in the illustration. Holding it anywhere other than the shaded area may cause damage to the subwoofer or physical injury.



④ Caster mounting screws



These screws are for attaching the optional Yamaha Caster SPW-1 (sold separately). Casters can be attached for easier transport. To attach the wheels, use the screws that came attached to the DXSmk3 body. If you do not attach the wheels, do not remove these screws. Otherwise, air leakage will adversely affect sound quality.

CAUTION

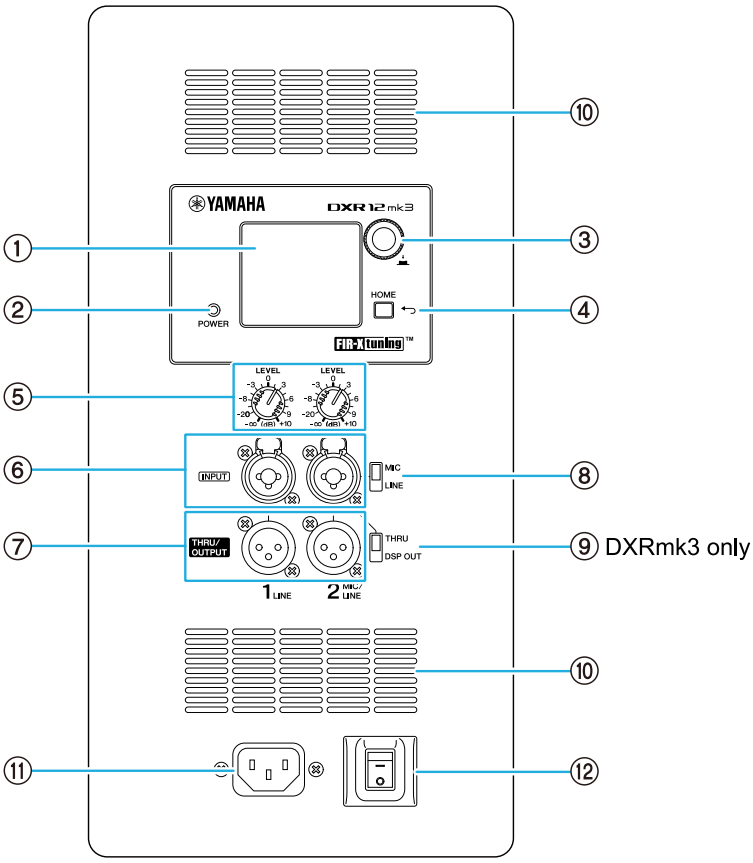
Be sure to use this subwoofer along with the optional wheels intended specifically for the Yamaha DXSmk3 series. If you use wheels other than the optional wheels dedicated for the Yamaha DXSmk3 series, the subwoofer may become unstable, increasing the risk of injury.

NOTE

For more information about installing wheels and related precautions, refer to the corresponding manual for the wheels.

2.3. Rear Panel (Full Range, Subwoofer)

The illustration is from the DXR12mk3.



① **Color display**
Displays the setting status of various functions. You can graphically fine-tune EQ, delay, routing, and more. A backlight is provided, allowing you to set the brightness and auto-turn off (AUTO DIMMER) of the display.

② **[POWER] indicator**
Lights up green when the power is on. Also, if a serious system error is detected when this product is started up, the indicator will flash (at this time, FATAL ERROR will be displayed on the HOME screen).

> **NOTE**
>
> The [POWER] indicator does not completely turn off even when AUTO DIMMER is ON.

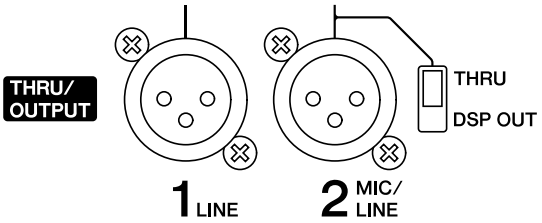
③ **Main knob**
Turn the main knob to move the cursor on the display or change parameter values. Press the main knob for confirmation.

④ [↩] (Back) key
Press this button to move to the previous screen. Press and hold this button for more than one second to return to the HOME screen.

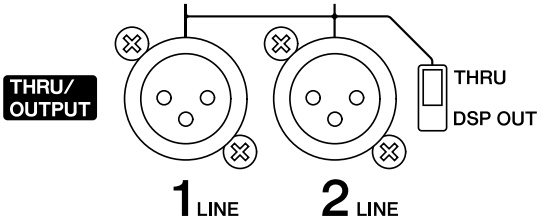
⑤ [LEVEL] control
You can adjust the level input to each [INPUT] connector.

⑥ [INPUT] connector
This is a line-level combo input connector. It supports both XLR and phone connectors. Two input signals can be mixed with separate level adjustments.

⑦ [THRU/OUTPUT] connector
This is an XLR type output connector. For channel 2 on the DXRmk3 series and channels 1 and 2 on the DXSmk3 series, the output signals can be switched using the ⑨ [THRU/DSP OUT] switch. Channel 1 on the DXRmk3 series is fixed to [THRU].
<DXRmk3 series>



<DXSmk3 series>



⑧ [MIC/LINE] switch (only for the DXRmk3 series)
You can switch the mode according to the input level to channel 2. Set this switch to [MIC] when connecting a low-level device such as a microphone, and to [LINE] when connecting a high-level device such as a mixer. By default, when you switch to [MIC], the HPF is automatically enabled.

⑨ [THRU/DSP OUT] switch
You can switch the signals output from the output connector between the signals [THRU] that are directly passed through from the input connector, or the signals [DSP OUT] that are processed by DSP. If you set the switch to [DSP OUT], you can also set the output signals. For information about the signals that can be output, refer to UTILITY Screen > LINK MODE.

⑩ Ventilation holes
A cooling fan is installed on the exhaust side of the ventilation holes. The fan starts spinning when the amplifier temperature exceeds a preset value. The fan speed is controlled based on the temperature of the amplifier and power supply.

CAUTION

Do not block the ventilation holes (heat dissipation slits) of this product. This product has ventilation holes on the back to prevent internal temperature rise. If the ventilation holes are blocked, heat may build up inside the product, which may result in malfunction or fire.

⑪ [AC IN] socket

Connect the included power cord in the following order: Before connecting the power cord, make sure the product is turned off.

1. Connect the plug of the included power cord to the AC IN socket on the rear panel of the unit. Insert the power plug all the way in until the latch locking mechanism (V-lock) locks.
2. Connect the other end of the power cord to a power outlet (AC 100 V).

NOTE

- To remove the power cord, follow the above steps in reverse.
- Remove the power plug while pressing the V-lock latch.

WARNING

- Be sure to use the power cord supplied with the product. Using any other power cord may result in overheating or electric shock.

CAUTION

Always turn off the power before connecting or disconnecting the power cord.

⑫ Power switch

Use this switch to turn the power of the unit on (-) and off (○).

CAUTION

Even when the power switch is turned off, a small amount of current still flows. Be sure to unplug the power cord from the power outlet when this product is not used for an extended period of time.

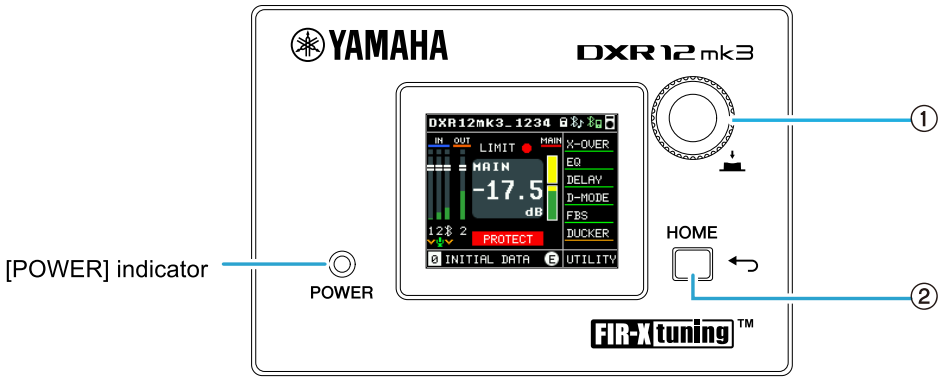
NOTICE

- Rapidly turning the power switch on and off in succession may cause malfunction. After turning the power switch off, wait at least 6 seconds before turning it on again.
- If you are using multiple units, turn them on one by one. If multiple units are turned on at the same time, the units may not properly start up due to a drop in power supply voltage or other reasons.

3. Panel Operation

3.1. Basic Operation

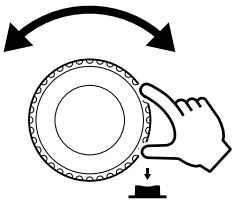
You can use the display, main knob, and [⮌] (back) key on the rear panel to configure various parameters.

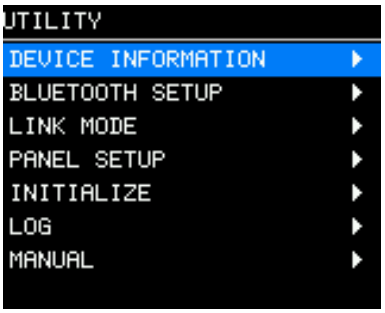


① Main knob
You can move the cursor position and change parameter values. When a parameter value has a wide changing range, the speed of change will increase according to the speed of the rotation.

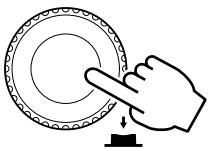
② [⮌] (Back) key
Each time you press this key, the displayed screen moves up one level or back one level from the current level. Press and hold it for one second or more to return to the HOME screen.

1. **Turn the main knob to select a parameter to configure. The selected item is highlighted in blue and black.**
   An arrow ▶ on the right indicates that there is sub menu.



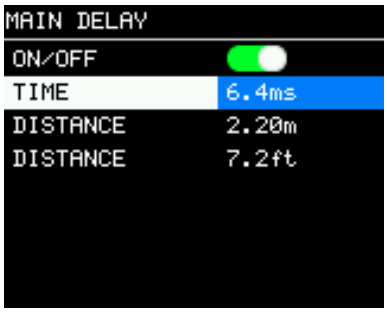


2. **Press the main knob to confirm a selection.**

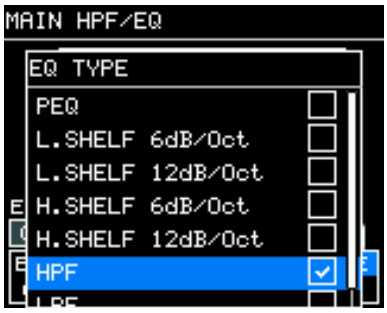


3. **Repeat steps 1 and 2 until you reach the desired editing or settings screen.**

To edit parameters that feature continuous values
Turn the main knob to change the value for the parameter. The value is changed in real time as you turn the knob.

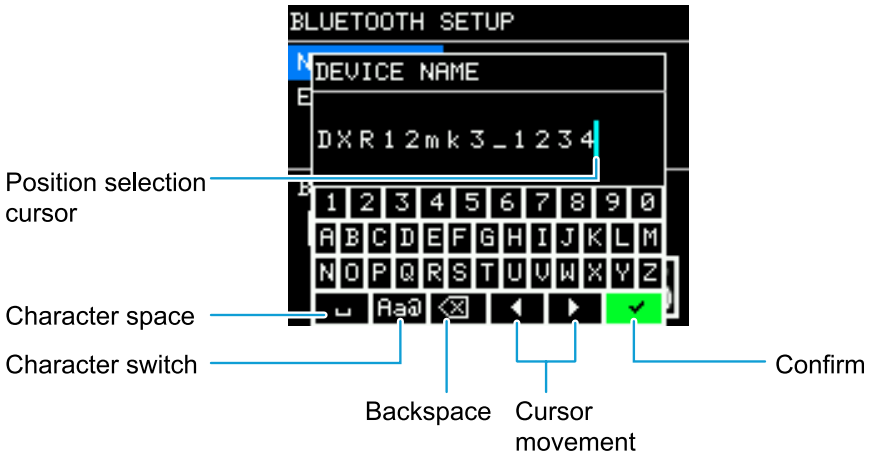


To edit parameters with selected values
Turn the main knob to highlight a value. The value will not be updated and the sound will not change until you press the main knob to confirm the selection.



To edit the ON/OFF or check box settings
Press the main knob repeatedly to toggle the settings.

● **How to enter characters**



1. Turn the main knob to select [◀] or [▶] for cursor movements.
2. Press the main knob to use the cursor to select the position where you want to enter characters.
3. Turn the main knob to select the character you want to enter, and press the main knob to confirm the character.
4. Turn the main knob to select [✓], and press the main knob to confirm your selection.

NOTE

If you press the [↩] key while entering a character, the selection moves to [✓].

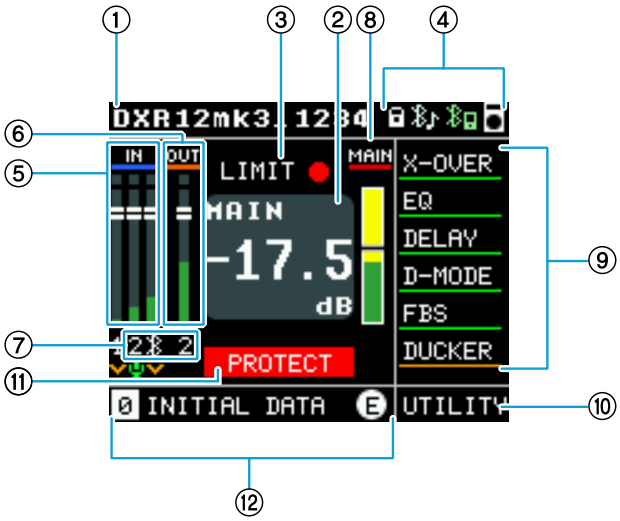
3.2. HOME Screen and Its Functions

The HOME screen will appear when the power switch is turned on. Refer to the HOME screen for the model in use.

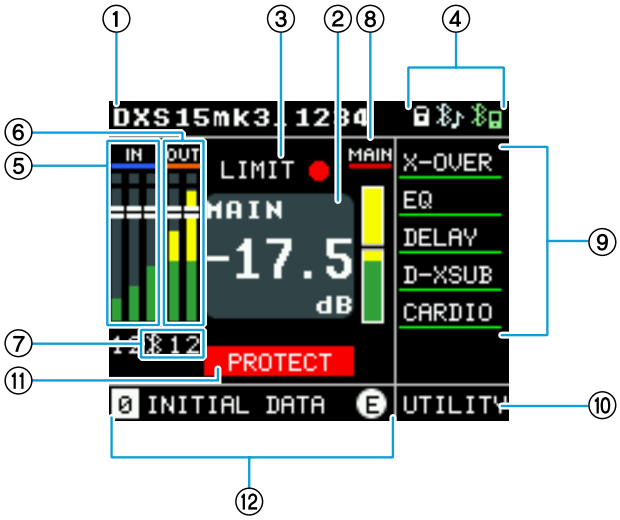
NOTE

- Even while displaying other than the HOME screen, if you do not operate the panel for 5 minutes, the screen automatically returns to the HOME screen.
- The screens in the images below are the HOME screens displayed when the DEVICE NAME in ① is set to "DXR12mk3" and "DXS15mk3," respectively.

DXRmk3



DXSmk3



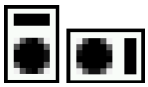
① DEVICE NAME
Displays the device name. Select this item with the cursor and press the main knob to display "BLUETOOTH SETUP."

- From "NAME," you can move to the screen where you set the device name. Up to 16 characters can be displayed. When this product is shipped from the factory, the model name and alphanumeric characters are displayed.
  The device name set here will be displayed on Bluetooth devices such as mobile devices.
- For Bluetooth function settings, refer to UTILITY Screen > BLUETOOTH SETUP.

② LEVEL
Normally displays the main level. When the cursor is placed on the level meter for each channel, it indicates the respective level (unit: dB).
This item is displayed in blue while the level of each channel is being adjusted. If no operation is performed for 30 seconds, the cursor will return to the selection-ready state.

③ LIMIT
The indicator lights up when the limiter function is activated.

④ ICON
Always displays the speaker status.

Icon	Status
	Panel locked
	Bluetooth® Audio is connected.
	D-Remote is connected.
	AUTO V/H POSITION is operating. (Only for the DXRmk3 series)

⑤ INPUT
Simultaneously displays the level meter and level parameter of input signals for the channels (IN1, IN2, and Bluetooth Audio). Using the main knob, select the level meter for each channel to set the level.
For settings, refer to INPUT/OUTPUT/MAIN Screen.
A [v] icon is displayed on channels where the DUCKER function is activated (only for the DXRmk3 series).
If the HPF or EQ settings are automatically enabled in conjunction with the operation of the [MIC/LINE] switch, a microphone icon is displayed on IN2 (only for the DXRmk3 series).

⑥ OUTPUT
Simultaneously displays the level meters and level parameters for the output signals of OUT1 (only for the DXSmk3 series) and OUT2. Using the main knob, select the level meter for each channel to set the level.
For settings, refer to INPUT/OUTPUT/MAIN Screen.

⑦ CHANNEL PARAMETER
Set the details for each channel.

● Applicable channels

DXRmk3: IN2, Bluetooth Audio, OUT2

DXSmk3: Bluetooth Audio, OUT1, OUT2

Select the channel name with the main knob to display the settings screen.
For settings, refer to INPUT/OUTPUT/MAIN Screen.

⑧ MAIN
Simultaneously displays the level meter and level parameter of the speaker output signals. Select them with the main knob and set the level. For settings, refer to INPUT/OUTPUT/MAIN Screen.

⑨ PROCESSING
You can set and display DSP processing. For settings, refer to PROCESSING Screen. When the effect is active, the item will be underlined in green.

⑩ UTILITY
Displays various settings and information for the unit. For settings, refer to UTILITY Screen.

⑪ INFORMATION

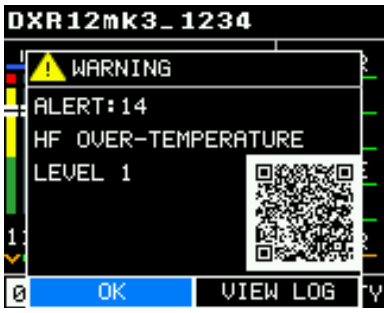
- PROTECT: Displayed when the protection function is activated.
- THERMAL: Displayed in yellow when temperature is at WARNING level and in orange at ERROR level. If the temperature is at the ERROR level (orange), the output signals will be muted. ② The LEVEL screen displays an ALERT (screen) for muted situations.
- ALERT: Displayed if an ALERT of ERROR level or higher occurs. This indication will disappear when the ALERT is resolved. Move the cursor to this message and press the knob to move to UTILITY Screen > LOG.

⑫ PRESET
Displays the preset number and title of the preset recalled. You can save, recall, and edit sound-related settings. When you change a parameter, the Ⓔ symbol will be displayed. For settings, refer to PRESET Screen.

3.3. Alert Messages

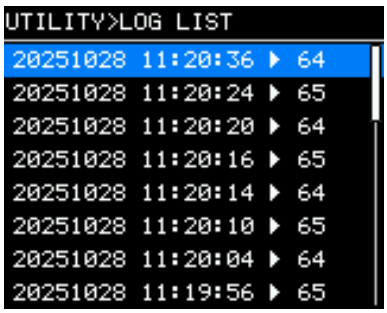
If an abnormality occurs in this product, an alert message will appear on the display.
For details on each message, refer to "Message List" in Reference.

Example)



Select [OK] to return to the original screen.

Select [VIEW LOG] to display the "LOG LIST."
Scan the QR code with your smartphone or tablet to view a detailed description of the alert.



3.4. Initialization

There are three ways to initialize this product.

● Initializing to the default settings by navigating from the HOME screen and selecting UTILITY → INITIALIZE
You can select specific data that you want to initialize. Refer to INITIALIZE (Initialization).

● Initializing to the default settings when you cannot remember the PIN code
If you cannot select INITIALIZE in the UTILITY screen because you cannot remember the PIN code set for the panel lock in PANEL SETUP or other reasons, initialize this product from the MAINTENANCE screen > INITIALIZE. Refer to MAINTENANCE Screen.

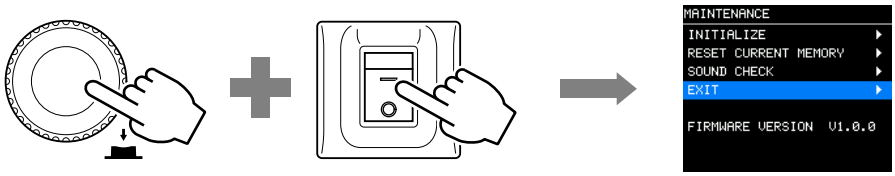
● Initializing to the default settings from D-Remote
You can select specific data that you want to initialize. For operational instructions, refer to the "D-Remote User Guide."

4. Screen Functions

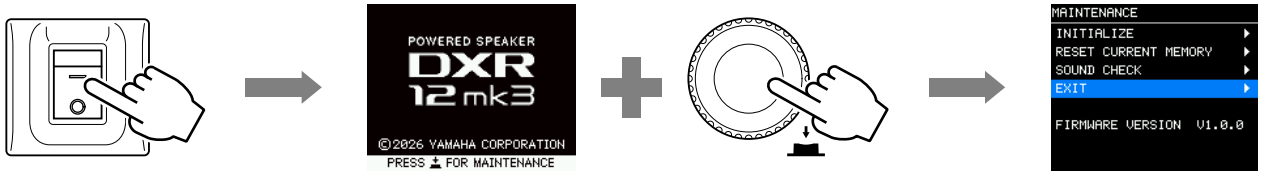
4.1. MAINTENANCE Screen

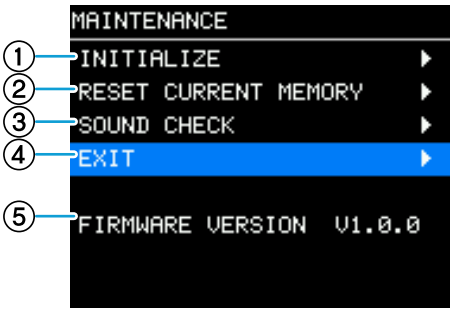
This screen allows you to quickly and easily perform operations that are common when this product is used as a rental item, allowing for efficient operation even with a large number of speakers.
There are two ways to display the MAINTENANCE screen.

● While pressing and holding the main knob, turn on the power switch.



● Turn on the power switch. Press the main knob while the product logo is displayed.



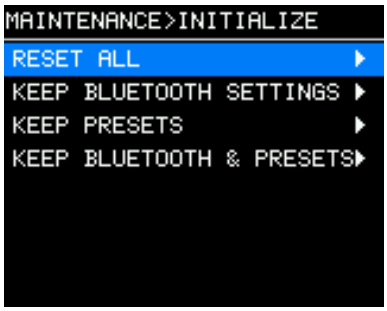


① INITIALIZE

1. Select the items to be initialized.

   The items to be initialized are as follows:

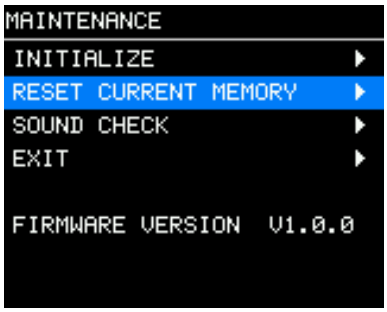
   - RESET ALL: Initializes settings to the factory-set defaults.
   - KEEP BLUETOOTH: Keeps the Bluetooth settings.
   - KEEP PRESETS: Keeps the PRESETS settings.
   - KEEP BLUETOOTH & PRESETS: Keeps the Bluetooth settings, passwords, and PRESETS settings.



2. On the confirmation screen, select [OK].

② RESET CURRENT MEMORY
This function resets only the current memory to the initial settings.

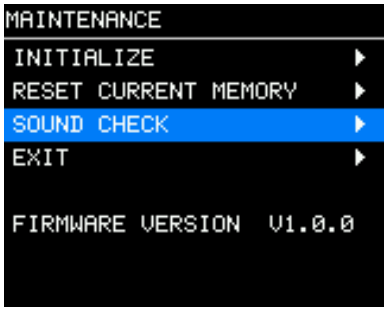
1. Select "RESET CURRENT MEMORY."



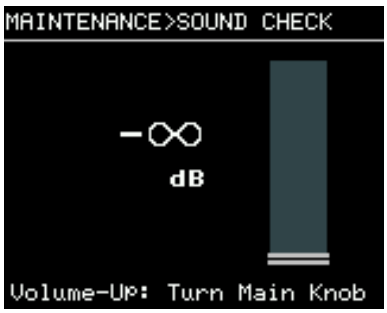
2. On the confirmation screen, select [OK].

③ SOUND CHECK
Pink noise emitted from the speaker can be used to check whether the speaker unit is damaged or not functioning properly.

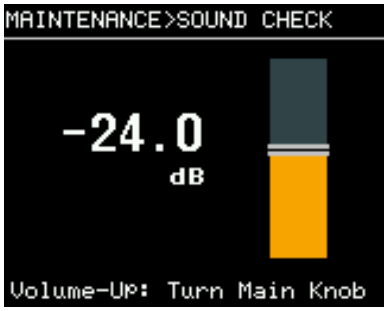
1. Select "SOUND CHECK."



When the SOUND CHECK screen is displayed, the volume will always be displayed as "-∞ dB" (silent).



2. Turn the main knob to increase the volume. Listen to the pink noise that corresponds to the volume value to determine whether the speaker unit is normally working or is malfunctioning.



3. Press the main knob or [↩] (back) key to return from the SOUND CHECK screen to the MAINTENANCE screen. At this time, the volume will return to "-∞ dB" (silence).

④ **EXIT**
If this item is selected, a confirmation screen will appear. Select [YES] to return to the HOME screen.

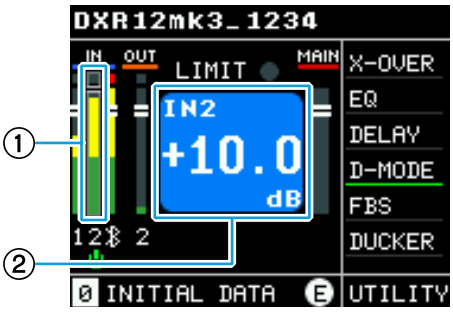
⑤ **FIRMWARE VERSION**
Displays the firmware version.

4.2. INPUT/OUTPUT/MAIN Screen

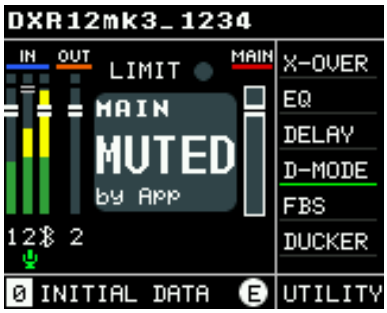
4.2.1. Level Settings for IN1/IN2/BT IN/OUT1 (Only for the DXSmk3 Series)/OUT2/MAIN

① Use the cursor to select the level meter for each channel, and press the main knob.
② Turn the main knob to set the input and output signal levels for each channel. Press the main knob for confirmation.

Example) DXR12mk3 IN2



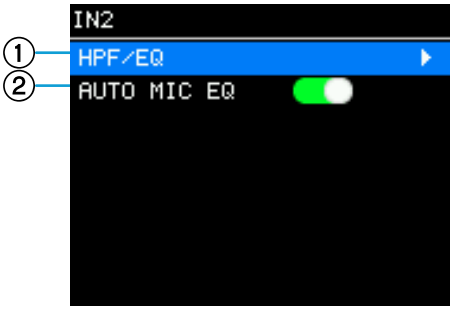
● If MUTE is ON in the D-Remote settings "MUTED by App" will be displayed.



- How to unmute
  Press the main knob while "MUTED by App" is displayed. Select [OK] on the confirmation screen to unmute.

4.2.2. CHANNEL PARAMETER

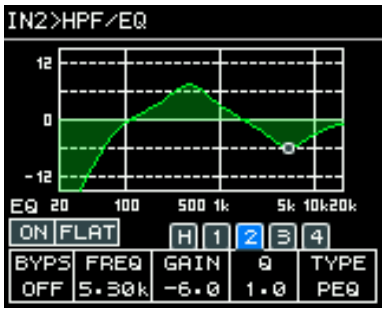
● IN2 detailed settings (only for the DXRmk3 series)
Use the cursor to select the channel name "2" on the HOME screen.



① HPF/EQ

Configure the HPF and EQ settings for the microphone input.

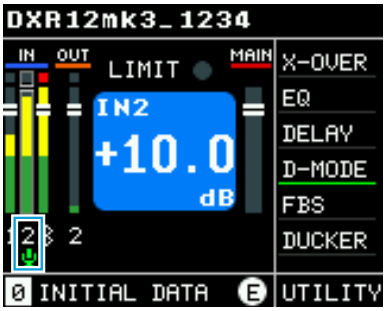
- The upper row displays the frequency response, which also shows the HPF and EQ simultaneously.
- The lower row switches between "H" for HPF and "1" to "4" for EQ bands and displays the respective parameter values. For details on setting each parameter value, refer to PROCESSING Screen > EQ.



② AUTO MIC EQ

Pressing the main knob toggles between on and off. When this item is set to on, the position of the [MIC/LINE] switch on the unit is detected, and the appropriate EQ is automatically set.

When the setting is enabled, a microphone icon will appear in IN2 on the HOME screen.



● Connection of Bluetooth® Audio

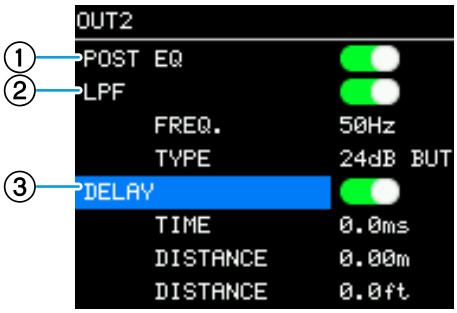
Use the cursor to select IN[ ], and configure the setting on the "BLUETOOTH SETUP" screen.

The setting method is the same as for BLUETOOTH SETUP on the UTILITY screen.
Refer to UTILITY Screen > BLUETOOTH SETUP.

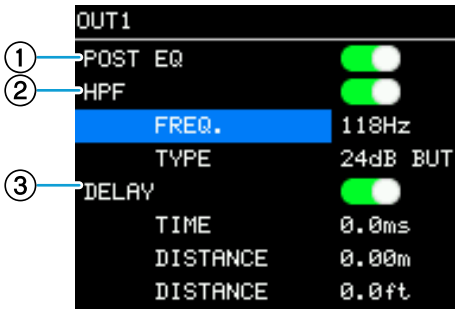
● OUT1/OUT2 detailed settings

Use the cursor to select the channel name "1" or "2" on the HOME screen.

DXRmk3 (OUT2 only)



DXSmk3 (OUT1/OUT2)



① POST EQ

Set whether to output audio with or without MAIN EQ applied.

② LPF (DXRmk3)/HPF (DXSmk3)

The setting method is the same as for X-OVER on the PROCESSING screen. Refer to X-OVER.

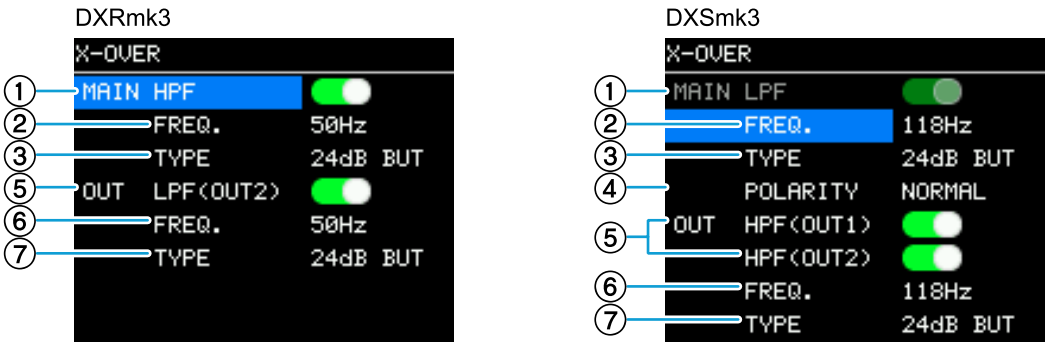
③ DELAY

The setting method is the same as for DELAY on the PROCESSING screen. Refer to DELAY.

4.3. PROCESSING Screen

4.3.1. X-OVER

Apply X-OVER (HPF/LPF) when using a full-range speaker and a subwoofer in combination.
We assume two configurations: one in which the audio is received by the DXSmk3 series and sent to the full-range speaker, and one in which the audio is received by the DXRmk3 series and sent to the subwoofer.
You can apply a filter to send the audio to a destination other than the DXRmk3 series or DXSmk3 series.



NOTE

When the DXRmk3 series and DXSmk3 series are used in combination, the optimal X-OVER settings will be applied by recalling PRESET Screen > FACTORY PRESET.

① MAIN HPF/MAIN LPF

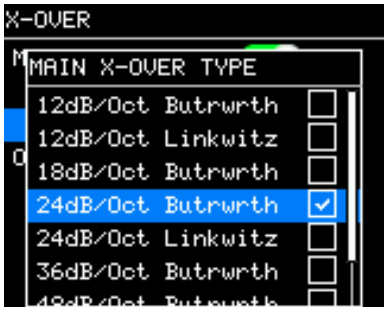
DXRmk3: Turn on or off the HPF for the audio output to the speaker.
DXSmk3: The LPF for the audio output to the speakers is always turned on.

② MAIN FREQ.

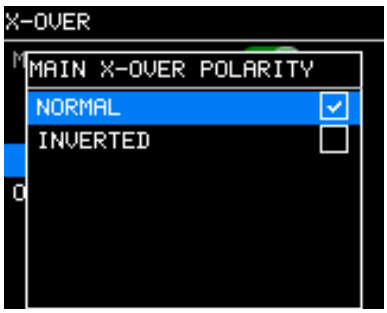
Set the crossover frequency.

③ MAIN TYPE

Select the filter type.



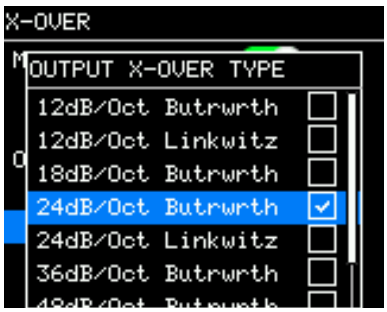
④ **MAIN POLARITY (only for the DXSmk3 series)**
Setting this item to “NORMAL” results in normal phase, while setting it to “INVERTED” results in reversed phase.



⑤ **OUT LPF/OUT HPF**
DXRmk3: Turn on or off the LPF for the audio output to OUTPUT connector 2.
DXSmk3: Turn on or off the HPF for the audio output to OUTPUT connector 1 or 2.

⑥ **OUT FREQ.**
Set the crossover frequency.

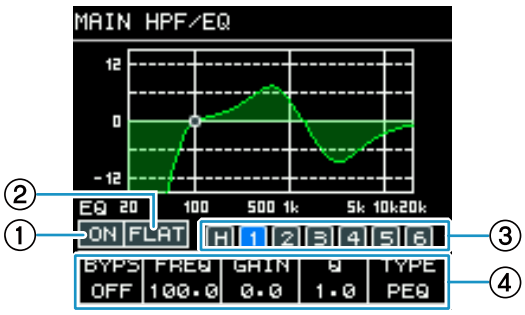
⑦ **OUT TYPE** Select the filter type.



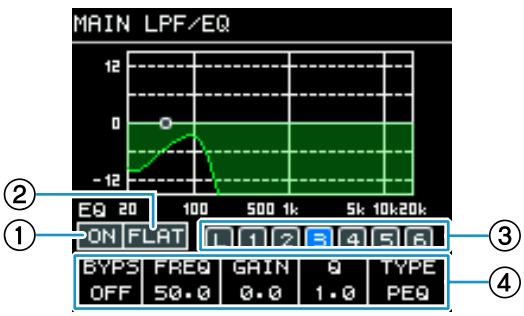
4.3.2. EQ

Adjust the overall frequency response of the speaker. You can edit the parameters of the HPF (H), LPF (L), and six bands (1 to 6) of EQ to suit your applications and preferences.

DXRmk3

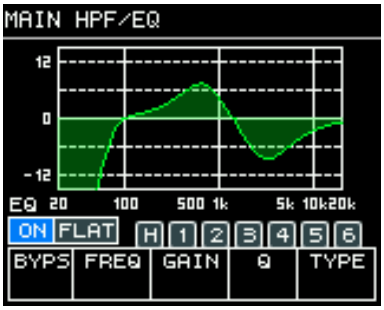


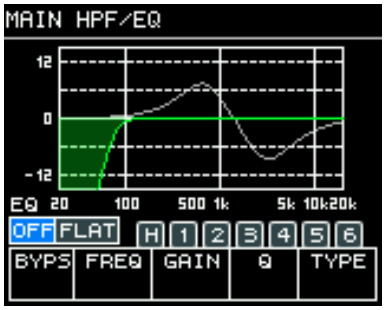
DXSmk3



① ON/OFF

Turn on or off the EQ.
When the EQ is [ON], the graph is displayed filled with green. When the EQ is [OFF], only the outline of the graph is displayed.





② FLAT

Set the GAIN for all bands to 0 dB.

③ Band: DXRmk3 (H, 1 to 6)/DXSmk3 (L, 1 to 6)

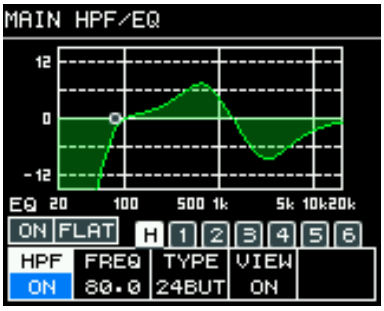
Select the band for which to display parameters. Pressing the main knob on the selected band will move the cursor to the parameter display.

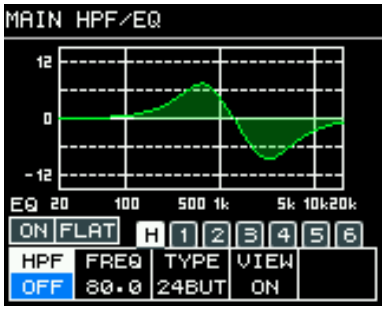
④ Parameter display

Displays the parameters for each band. Move the cursor to the parameter name and press the main knob to set the parameter value. Pressing the [↩] (back) key will move the cursor back to the parameter name. If you press the [↩] (back) key again, the cursor will return to band selection.
Also, if you continue to turn the main knob while the cursor is on the parameter name, you can move to the parameter of the adjacent band.

● Band [H] setting

When the HPF is ON, the graph is displayed filled with green. When the HPF is OFF, it will not be displayed on the graph.

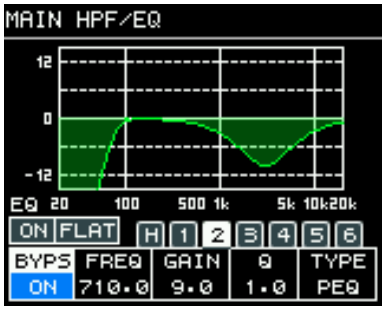




NOTE

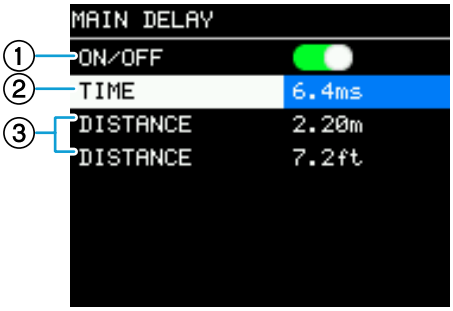
The [VIEW] parameters for the [H] and [L] bands of the MAIN EQ allow you to turn on or off the display of the HPF and LPF frequency responses.

● **Setting bands [1] to [6]**
When BYPS is ON, the corresponding bands are displayed as THRU.



4.3.3. DELAY

Set the delay time. Use this item for correcting the distance between speakers, etc.



① **ON/OFF**
Turn on or off the delay.

② **TIME**
Set the delay time in milliseconds.

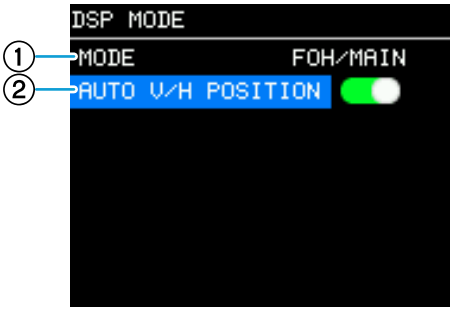
③ **DISTANCE [m, ft]**
Displays the delay time as distance (in meters and feet).

NOTE

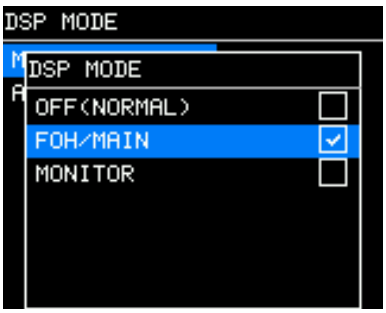
The three delay time displays will change in tandem.

4.3.4. DSP MODE (D-MODE) – Only for the DXRmk3 Series

Configure the DSP MODE setting. Set the frequency response that is optimal for your application.



① MODE
Set the mode of the DSP MODE.



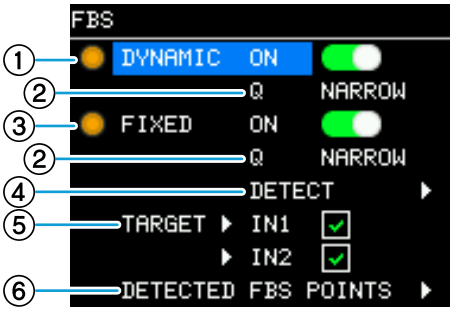
- OFF (NORMAL): Disables the DSP MODE. A general-purpose frequency response is set.
- FOH/MAIN: This setting boosts the high and low frequencies to create the frequency response suitable for the main speakers. When the initial settings are used or the settings are initialized, FOH/MAIN is selected.
- MONITOR: This setting ensures clarity, which is important for a floor monitor, and reduces the low-frequency bloat (boominess) that tends to occur when the speaker is placed on the floor.

② AUTO V/H POSITION
Turn on or off AUTO V/H POSITION.
When this item is turned on, the DSP MODE will be automatically set. The mode will be set to "FOH/MAIN" when this product is placed vertically, and the mode will be set to "MONITOR" when it is placed horizontally.
The speaker installation status is displayed as an icon on the HOME screen.

4.3.5. FBS (Only for the DXRmk3 Series)

Apply FBS. This function prevents unpleasant feedback that occurs when the audio output from the speaker is routed back to the microphone.

- DYNAMIC type
  Detects and suppresses feedback that occurs during use in real time. This type is intended for handheld microphones.
- FIXED type
  Applies FBS in advance at points where feedback tends to occur. This type is intended for fixed microphones.

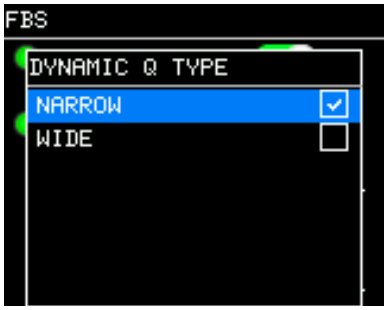


① DYNAMIC ON/STATUS
Turn on or off the DYNAMIC type. When this type is turned on, the indicator lights up green. If the effect is applied to at least one band, the indicator lights up orange.

② DYNAMIC Q/FIXED Q
Set the Q (width of the effect range) of the DYNAMIC or FIXED type filter to NARROW or WIDE.

- NARROW: This setting has little effect on sound quality, which is suitable for music playback and live instrument performances. Because the Q of a per-band filter for eliminating feedback is narrow, multiple bands may be required in environments where the positions of microphones and speakers change, such as when a handheld microphone is used.
- WIDE: This setting has a greater effect on sound quality than NARROW, which makes it suitable for speeches. The Q of a per-band filter for eliminating feedback is wide, making it easy to eliminate feedback.

Example) DYNAMIC type Q



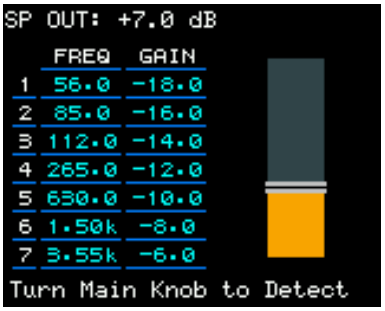
③ FIXED ON/ STATUS
Turn on or off the FIXED type. When this type is turned on, the indicator lights up green. If the effect is applied to at least one band, the indicator lights up orange.

④ FIXED DETECT
Pre-set the FIXED type. This function detects in advance the frequencies that may cause feedback.

1. With the microphones and speakers installed, select [DETECT] for the FIXED type.

2. On the confirmation screen of the DETECT function, select [OK].

3. Turn the main knob to gradually increase the level of signals output from the speaker.



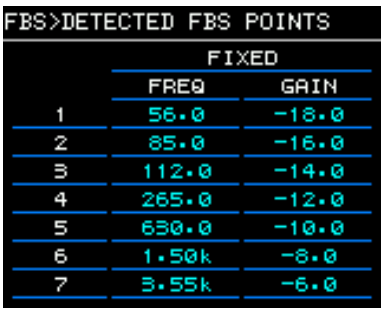
- As the signal level increases, feedback will begin to occur, but will be automatically suppressed. The filter frequency and gain when the feedback is suppressed are saved and displayed on the screen.

4. Press the main knob or back [↩] key to stop the DETECT function.
On the confirmation screen, select OK.

- While the DETECT function is executed from D-Remote, the standby screen will be displayed to prevent parameter changes on the main unit.

⑤ TARGET
Apply FBS to IN1 (CH1) or IN2 (CH2).

⑥ DETECTED FBS POINTS
Displays the detected frequency and set gain value for each band.

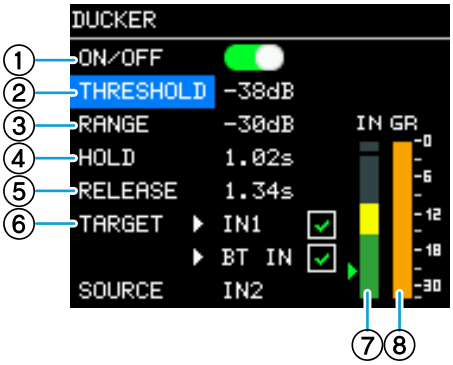


NOTE

- You can execute the DETECT function any number of times. However, the previous measurement results will not be carried over and will be overwritten with the latest results each time the function is executed.
- If the DYNAMIC type in ① is turned on, it will be automatically turned off. Once the DETECT function processing finishes, the DYNAMIC type will automatically turn back on.

4.3.6. DUCKER (Only for the DXRmk3 Series)

Set the ducker function to automatically lower the volume of other channels (IN1, Bluetooth Audio) when the audio from a microphone or instrument is input to IN2.



① DUCKER ON/OFF
Turn on or off the ducker function.

② THRESHOLD
Set the signal level at which to apply the ducker effect. If the input signals of IN2 exceeds this level, the volume of IN1 or BT IN will begin to decrease.

③ RANGE
Set how much to lower the volume of IN1 or BT IN when the ducker effect is applied.

④ HOLD
Set the time for which the ducker effect will be maintained after the input signals of IN2 fall below THRESHOLD.

⑤ RELEASE
Set the time by which the volume of IN1 and BT IN returns to the original level after the HOLD time has ended.

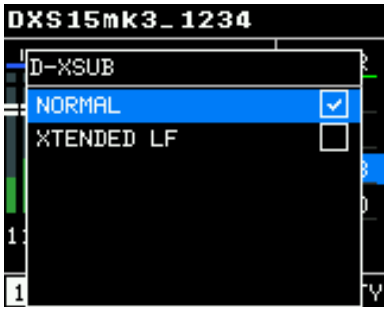
⑥ TARGET
Select the target of the ducker effect from IN1 and BT IN.

⑦ IN 2 METER
Displays the input level of IN2. You can also check the THRESHOLD setting value with the [▶] icon.

⑧ GR METER
Displays the degree of the ducker effect applied.

4.3.7. D-XSUB (Only for the DXSmk3 Series)

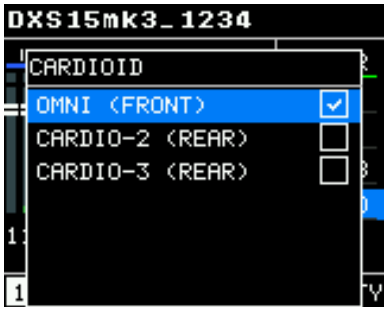
Configure the D-XSUB setting. Set the frequency response that is optimal for your application and music genre.



- NORMAL: Turns off D-XSUB. This is the general-purpose frequency response setting.
- XTENDED LF: This setting extends the playback frequency to a lower range.

4.3.8. CARDIOID (Only for the DXSmk3 Series)

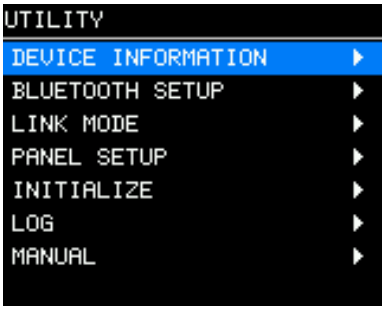
Configure the cardioid mode setting. Refer to Cardioid Mode Setup.
Change the setting depending on the orientation and number of speakers. When you do not use the cardioid mode, set it to OMNI (FRONT).



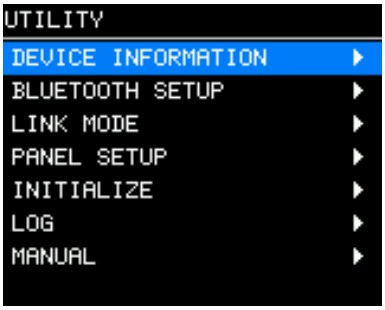
4.4. UTILITY Screen

This screen displays various settings and information for this product.

DXRmk3

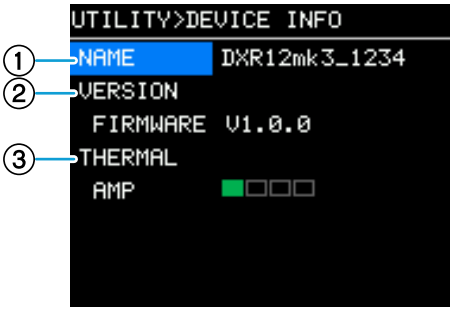


DXSmk3



4.4.1. DEVICE INFORMATION

You can set and display information about this product.



① NAME
Set the device name. The device name set here will be displayed on Bluetooth devices such as mobile devices.

NOTE

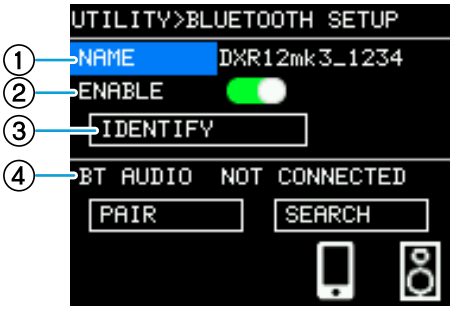
- For the device name, you can enter up to 16 characters.
- Characters that can be entered are as follows:
  ABCDEFGHIJKLMNOPQRSTUVWXYZ
  abcdefghijklmnopqrstuvwxyz
  1234567890
  ! " # $ % & ' ( ) * + , - . / : ; < = > ? @ [\ ] ^ _ ` { | } ~ (space)
- The factory-default device name is set to the format of this product's model name plus a four-digit string that identifies the individual product.
  Example: DXR12mk3_1234
  This format allows you to identify the individual product even if there are multiple units of the same model.

② **VERSION**
Displays the firmware version.

③ **THERMAL**
Displays the temperature of the amplifier section in four levels. Limiters and mutes are applied depending on the temperature.

4.4.2. BLUETOOTH SETUP

Configure the Bluetooth function settings.

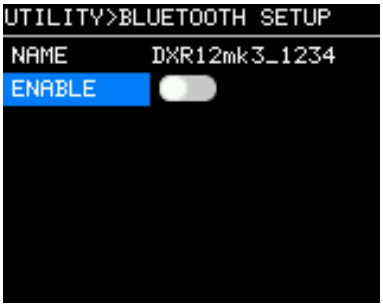


① **NAME**
Displays the name of this product set in DEVICE INFORMATION. You can also set the device name from this screen.

② **ENABLE**
Turn on or off the Bluetooth function. When this item is turned on, information about Bluetooth Audio will be displayed at the bottom of the screen. If this item is turned off, the information will not be displayed.

On screen

Off Screen



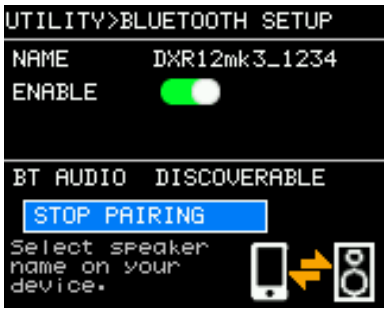
③ **IDENTIFY**
If this product and D-Remote are connected via Bluetooth, you can send an identification (IDENTIFY) signal from this product to D-Remote.
When you select [IDENTIFY], the virtual device displayed on D-Remote will flash.

④ Bluetooth® Audio

● Pairing (registering) a Bluetooth device for the first time

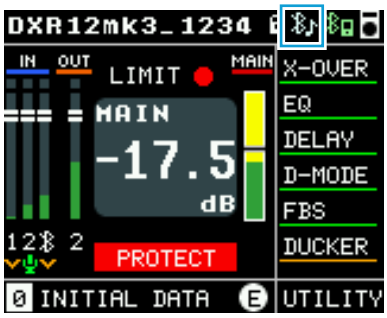
1. **Select [PAIR].**

The screen will change to the one showing that pairing is in progress. To cancel pairing, select [STOP PAIRING].



2. **Turn on the Bluetooth setting on the Bluetooth device.**
   For detailed operational instructions, refer to the owner's manual for your Bluetooth device.

3. **When the connection list is displayed on the Bluetooth device, select this product you want to connect to from the list.**
   The list displays the device name set in ① NAME.
   Once pairing is completed, the connection will be automatically established. The connected icon will appear on the HOME screen.



NOTE

The DXRmk3 series and DXSmk3 series can be paired with (register) up to eight Bluetooth devices. When the ninth Bluetooth device is successfully paired, the registration information for the Bluetooth device with the oldest connection date and time will be deleted. Note that only one connected device can be operated at the same time.

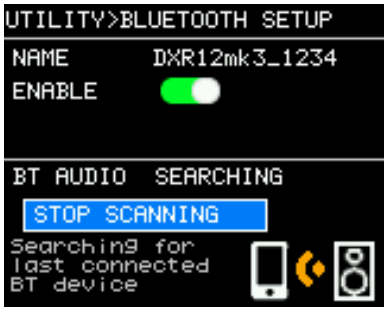
● Disconnect a Bluetooth® device.

To disconnect a Bluetooth device, use one of the following methods:

- **Turn off the Bluetooth setting on the Bluetooth device.**
- **Disconnect from the connected screen.**
  Select [DISCONNECT] to disconnect the device.

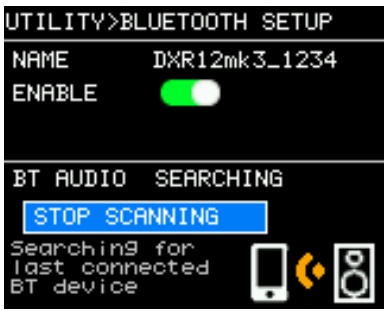
● **Reconnecting the last-connected Bluetooth® device from this product**

1. **Select [SEARCH].**
   Search for the last-connected Bluetooth device.
2. **Turn on the Bluetooth setting on the Bluetooth device.**
   Once the connection is completed, the connected icon will appear on the HOME screen. Select [STOP SCANNING] to stop the search.



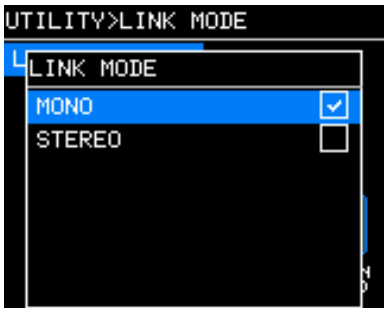
● **Automatic reconnection**

If you turn off this product while it is connected via Bluetooth, the next time you turn it on, it will automatically search for the last-connected Bluetooth device.



4.4.3. LINK MODE

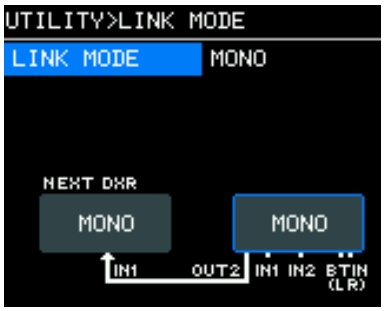
Select MONO or STEREO when connecting multiple DXRmk3 or DXSmk3 series units.



A screen corresponding to the selected mode will appear to show the audio signal routing.

DXRmk3

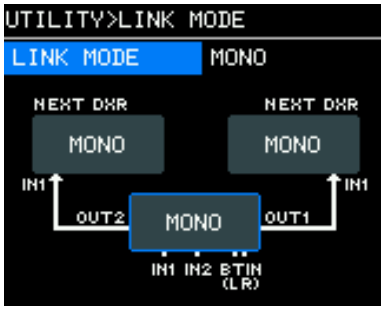
MONO



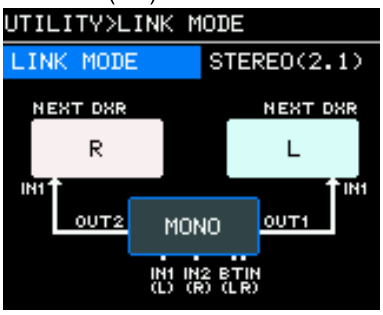
STEREO

DXSmk3

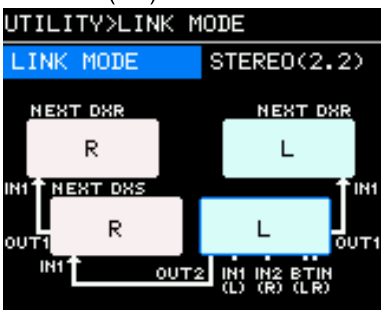
MONO



STEREO (2.1)



STEREO (2.2)



●LINK MODE and sound routing

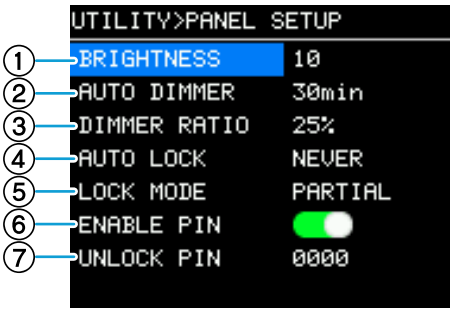
Model	LINK MODE	SP OUT	OUT1	OUT2	Application
DXRmk3	MONO	IN 1+2(FBS) BT L+R		IN 1+2 BT L+R	MONO on one speaker, extended to second speaker
	STEREO	IN 1+2(FBS) BT L		IN 1+2 BT R	BT (Bluetooth) STEREO playback on two speakers
DXSmk3	MONO	IN 1+2 BT L+R	←	←	All MONO use
	STEREO (2.1)	IN 1+2 BT L+R	IN 1 BT L	IN 2 BT R	STEREO use with 2.1 structure
	STEREO (2.2)	IN 1 BT L	IN 1 BT L	IN 2 BT R	STEREO use with 2.2 structure

4.4.4. PANEL SETUP

Set the display format.

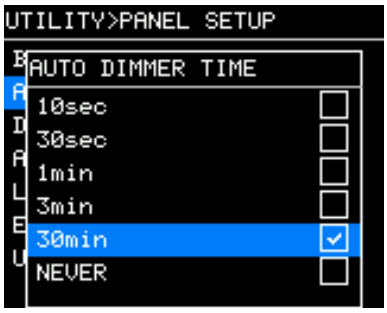
NOTE

D-Remote allows you to simultaneously control the display settings for all these products connected via Bluetooth.

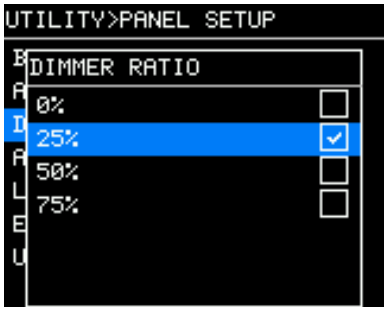


① BRIGHTNESS
Set the brightness of the display and the [POWER] indicator. You can set it between 1 to 10 levels.

② AUTO DIMMER (AUTO DIMMER TIME)
Select the time by which the display dims. "NEVER" does not apply the AUTO DIMMER effect.

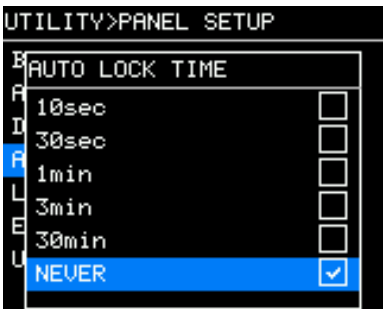


③ DIMMER RATIO
Select the brightness of the display when it dims.



- The [POWER] indicator will not turn off even if the brightness is set to 0%.
- When you operate the main knob or back [↩] key while the effect is applied, DIMMER will temporarily be canceled.

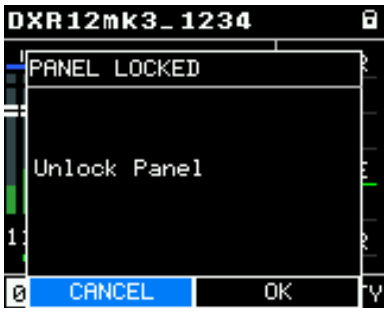
④ AUTO LOCK (AUTO LOCK TIME)
Select the time by which the panel automatically locks if no operation is performed for a while.



- Once the panel is locked, you will be taken to the HOME screen. A lock icon will be displayed in the top right corner of the HOME screen.
- When you restart this product, it will start up in a locked state.
- The panel cannot be operated while it is locked, but this product can be operated from D-Remote.

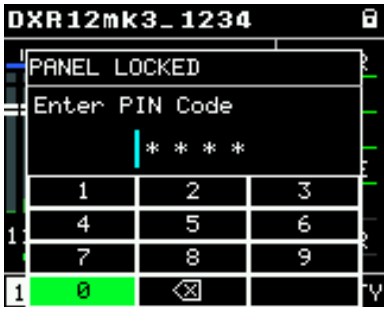
● Unlocking the panel
When you operate the main knob or back [↩] key while the panel is locked, an unlock message will be displayed. If you have set a PIN code (4-digit authentication number), enter the PIN code to unlock. Once you unlock the panel, you can operate it until it automatically locks again.

- If no PIN code has been set



There is no need to enter a PIN code. Select [OK] to unlock.

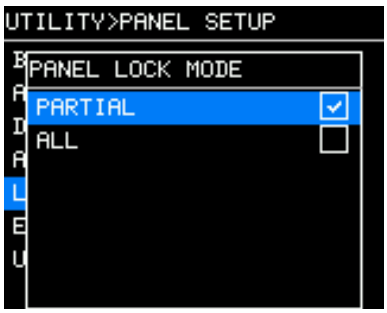
- If a PIN code has been set: The PIN code entry screen will be displayed.



Enter the 4-digit PIN code you set. The panel will be unlocked and you will return to the HOME screen.

⑤ LOCK MODE (PANEL LOCK MODE)

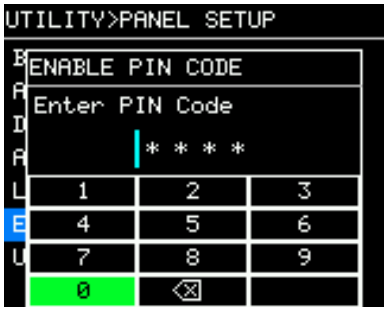
Configure the panel lock setting.



- PARTIAL: Locks the display-related operations. Only the MAIN LEVEL operations are enabled.
- ALL: All operations except for unlocking the panel are disabled.

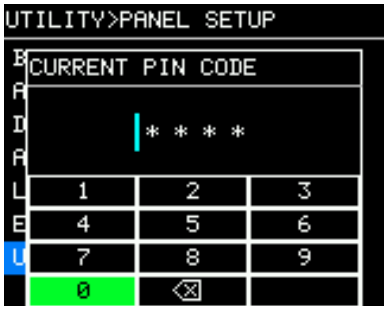
⑥ ENABLE PIN

Enable or disable the PIN code used for panel lock. Enter the PIN code to set it.



⑦ UNLOCK PIN

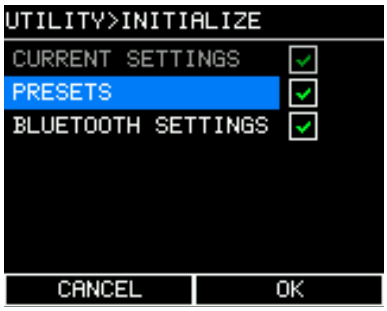
Set the PIN code (any 4-digit number) for panel lock.
If you set a PIN code, you will be required to enter the PIN code to unlock the panel.



4.4.5. INITIALIZE (Initialization)

Select and initialize the internal data of this product.

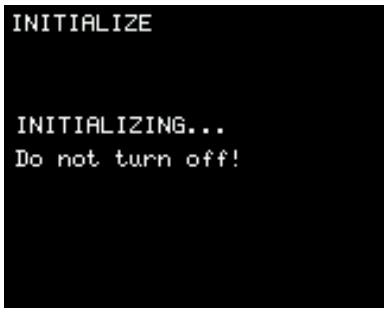
1. Turn the main knob to select the target you want to initialize, and press the main knob for confirmation.



The items to be initialized are as follows:

- CURRENT SETTINGS: All settings except PRESET and Bluetooth settings. This item is always selected for initialization.
- PRESET: Preset settings
- BLUETOOTH SETTINGS: Bluetooth settings

2. On the confirmation screen, select [YES].
   During execution, the message "Do not turn off!" will be displayed.



Once initialization is completed, this product will reboot automatically.

4.4.6. LOG

You can check the operation history of alerts that have occurred on this product and events that have occurred during normal operation (such as power-on and PRESET RECALL). System log data is useful for analyzing a trouble or malfunction.

NOTE

If the number of log data items exceeds the capacity of the internal memory, the oldest log data will be deleted and new log data will be saved.

● LOG LIST

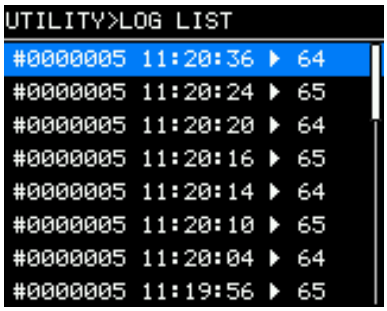
Displays the entire operation log internally recorded. Logs are displayed in the order of events that occurred. There are two ways to display time information.

① "#NNNNNNN HH:MM:SS▶NN" format

In this product, logs are recorded in the following format:

#NNNNNNN: Total number of times this product has been started since production

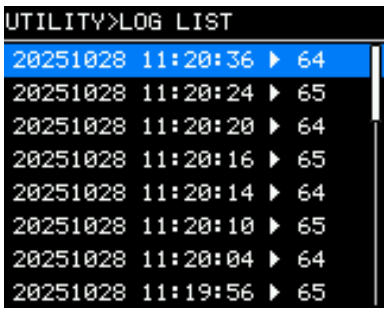
HH:MM:SS: Elapsed time since this product was started
NN: Alert number



② "YYYYMMDD HH:MM:SS▶NN" format

When D-Remote is connected, logs are recorded with the time of the connected mobile device.

YYYYMMDD: Date HH:MM:SS: Time
NN: Alert number



When you select the target log list item and press the main knob, the DETAIL VIEW screen will be displayed.

For details on messages, refer to Reference > "Message List" in this manual.
To view the message details, scan the QR code with your mobile device.

NOTE

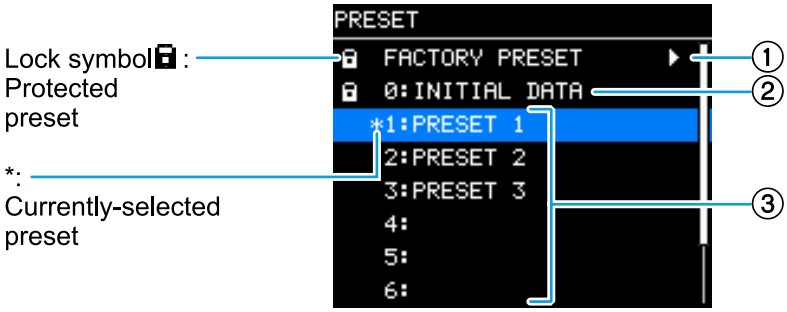
When you turn the main knob when this screen is displayed, the contents will switch to the previous or next log information.

4.4.7. MANUAL

A QR code will be displayed to scan for the "User Guide."
By scanning the QR code with your mobile device, you can view the "User Guide" which provides detailed explanations of the functions and operational instructions.

4.5. PRESET Screen

You can recall sound-related settings as presets, and configure the save, delete, title-editing, and protect settings. Recall-only presets are always protected.
When you change a parameter, the Ⓔ symbol will be displayed on the HOME screen.



① FACTORY PRESET
When the DXRmk3 series and DXSmk3 series are used in combination, you can optimize crossover frequencies, levels, and delay values by recalling presets named after the respective models. These presets are recall only.

Example) DXSmk3 FACTORY PRESET

② INITIAL DATA
Returns to the initial settings. These presets are recall only.

③ User preset list
You can save up to eight settings. You can configure the recall, save, delete, title-editing, and protect settings.

● Select the preset you want to operate. A screen for selecting an operation will be displayed.

Example) List of presets to operate: PRESET1

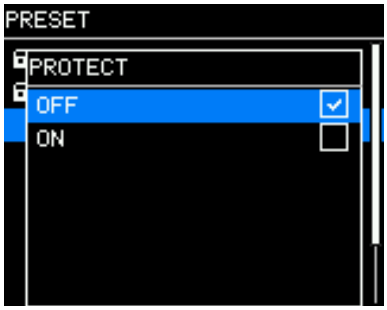
① RECALL
Recalls a saved preset.
The selected preset number and title are displayed.

② STORE
Saves the current settings as a preset with a title.
Once the settings are saved, "EXECUTED!"will be displayed. Press OK to return to the PRESET list screen. If they cannot be saved, "FAULT" will be displayed. You cannot overwrite a protected preset.

③ CLEAR
Deletes the saved presets.
You cannot delete protected presets and the currently-selected preset.

④ TITLE
Edit the title of the saved preset.
Once the settings are saved, "EXECUTED!"will be displayed. Press OK to return to the PRESET list screen. If they cannot be saved, "FAULT" will be displayed. You cannot edit the title of a protected preset.

⑤ PROTECT
Turn on or off the protection for saved presets.



When this item is set to ON, you will not be able to overwrite (STORE) or delete (CLEAR) presets or edit the title (TITLE). Also, the lock symbol [🔒] will be displayed on the left side of the preset title on the PRESET screen.

5. Playback of Bluetooth® Audio

The DXRmk3 and DXSmk3 series units can amplify and distribute audio played on Bluetooth devices such as mobile devices.
When these units are connected using a Bluetooth device for the first time, pairing is required. Pairing is the process of registering Bluetooth devices together in advance.
Once the devices are paired, you can easily reconnect them even if the Bluetooth connection is lost.
When you are pairing a Bluetooth device for the first time, refer to UTILITY Screen > BLUETOOTH SETUP.

6. D-Remote

You can control the parameters of multiple speakers and monitor their operating status using a mobile device such as a Bluetooth-enabled smartphone or tablet.
For operational instructions on D-Remote, refer to the "D-Remote User Guide."

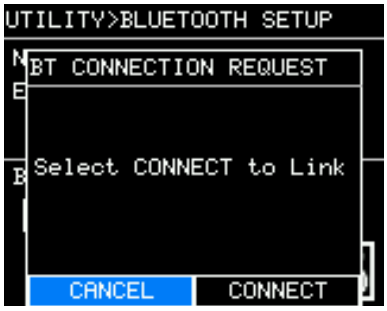
6.1. Connecting D-Remote

Connect the mobile device on which D-Remote is installed.

1. **Start D-Remote.**
2. **When the Speaker List screen is displayed, tap the speaker you want to control.**

> **NOTE**
>
> If the device you want to connect to does not appear in the list, press the refresh button and search again.

3. **Tap [Connect].**
   The first time you connect the device, a screen requesting connection will be displayed on the screen of the speaker unit.



If you select [CONNECT], you can set a password on D-Remote. (The connection cannot be established unless you set one.)

> **NOTE**
>
> The next time you connect a device that has been connected once, steps 2 and 3 will be unnecessary.

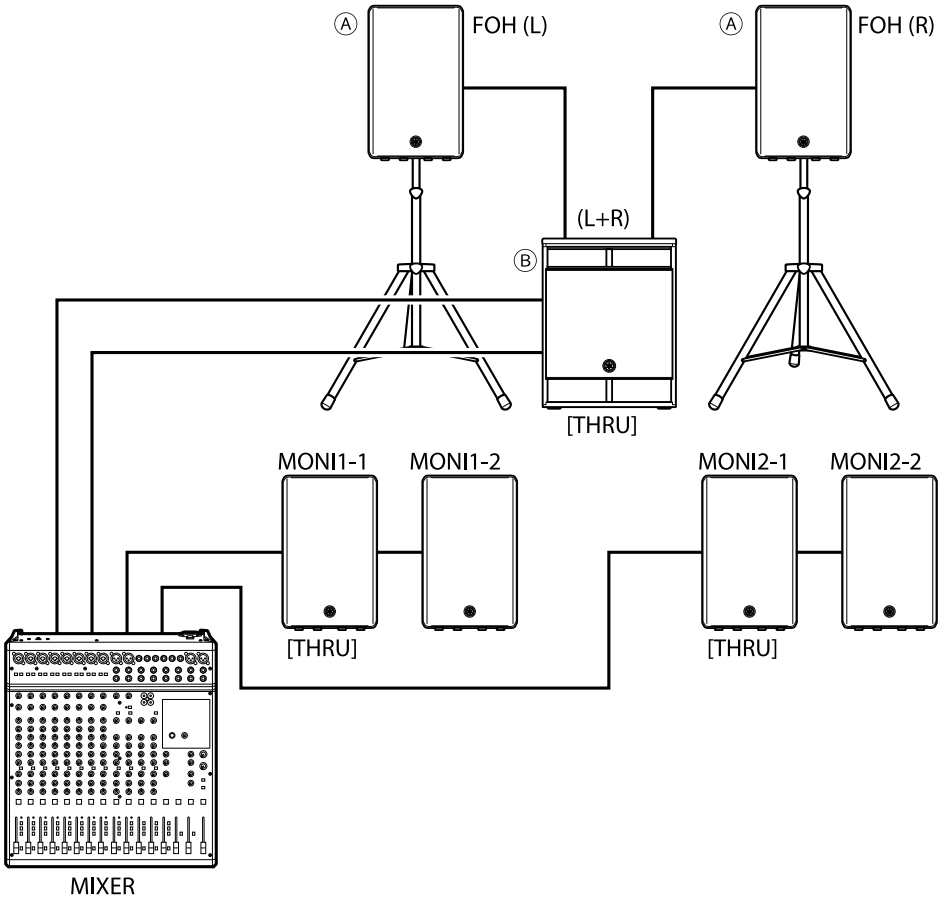
6.2. Disconnecting D-Remote

1. **Show the Speaker List screen on D-Remote.**
2. **Tap [Disconnect].**

7. Setting Example

■ System example 1

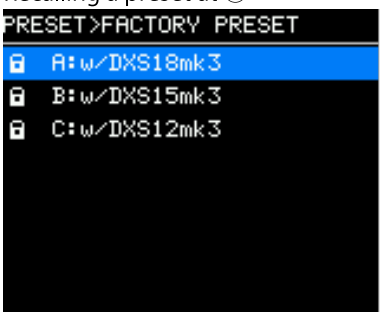
This SR system combines 2-way speakers, subwoofers, and stage monitors.
It is suitable for small live music venues, churches, event venues, etc. where you want to reinforce low frequencies.
Only the DXRmk3 series and DXSmk3 series speakers are used.



- Individual analog connections on each bus
- For the same sound source, use [THRU/DSP OUT] switch to set to [THRU]
- DSP MODE (D-MODE) settings
  Set to FOH/MAIN when 2-way speakers (FOH) are in use.
  Set to MONITOR when stage monitors (MONI) are in use.

Presets allow you to easily recall the system settings shown in the diagram above.

Recalling a preset at Ⓐ

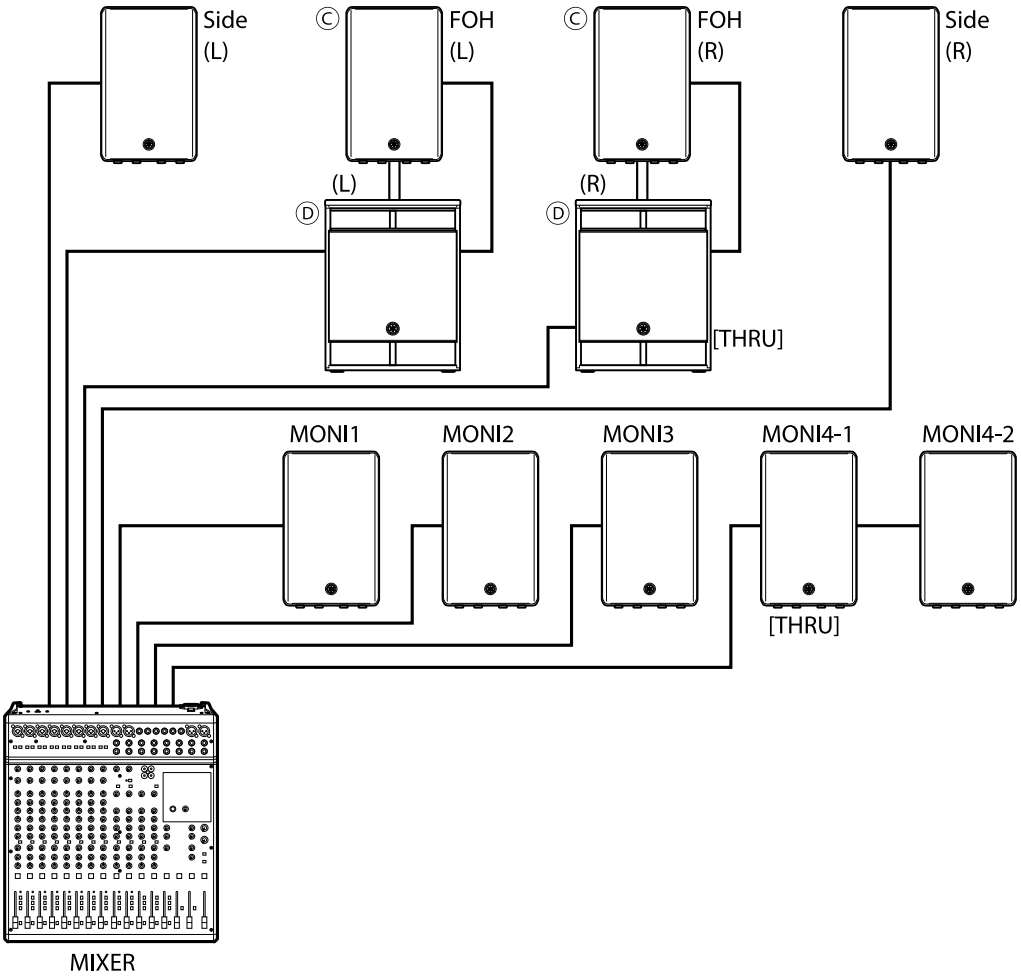


Recalling a preset at Ⓑ

■ System example 2

This SR system combines 2-way speakers and subwoofers using speaker poles. It also combines monitor speakers for the performers and on both sides of the stage.

It is suitable for live music venues, churches, event venues, etc. where you want to reinforce low frequencies.
Only the DXRmk3 series and DXSmk3 series speakers are used.

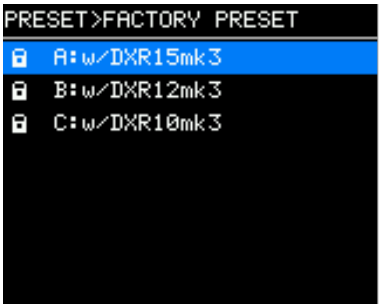


- Individual analog connections on each bus
- For the same sound source, use [THRU/DSP OUT] switch to set to [THRU]
- DSP MODE (D-MODE) settings
  Set to FOH/MAIN when 2-way speakers (FOH) are in use.
  Set to MONITOR when monitor speakers (MONI, Side) are in use.

Presets allow you to easily recall the system settings shown in the diagram above.

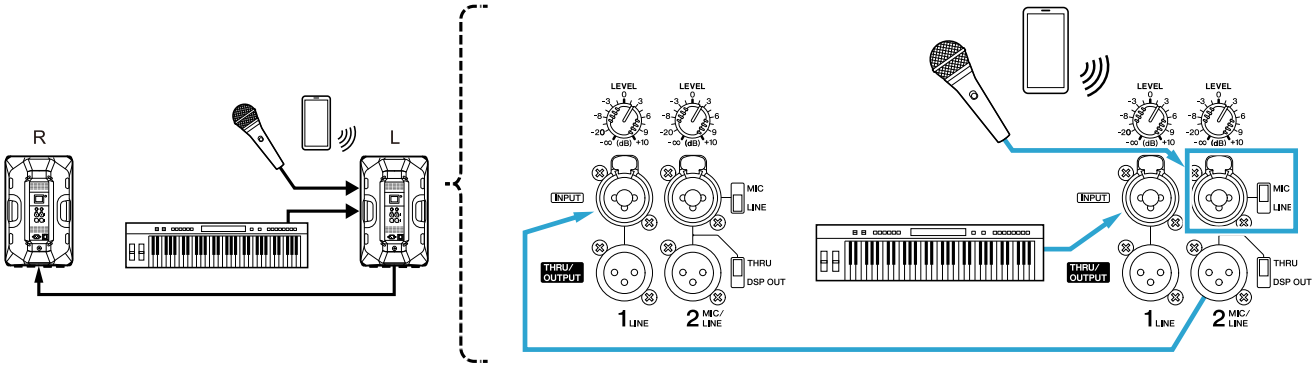
Recalling a preset at Ⓒ

Recalling a preset at Ⓓ

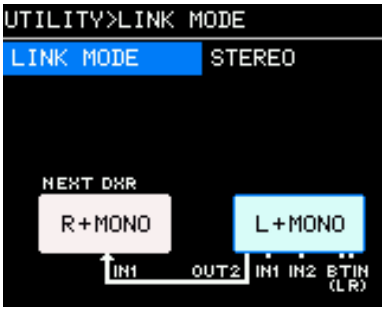


■ **System example 3**

In this SR system, microphones, instruments, background music sound source (using Bluetooth® Audio), etc. are connected to a single 2-way speaker.
It can be used for a wide range of purposes, including small-scale solo concerts, presentations, and restaurants.
Use the [LEVEL] control to adjust the volume so that feedback does not occur.



If you want use stereo output, set LINK MODE to STEREO.



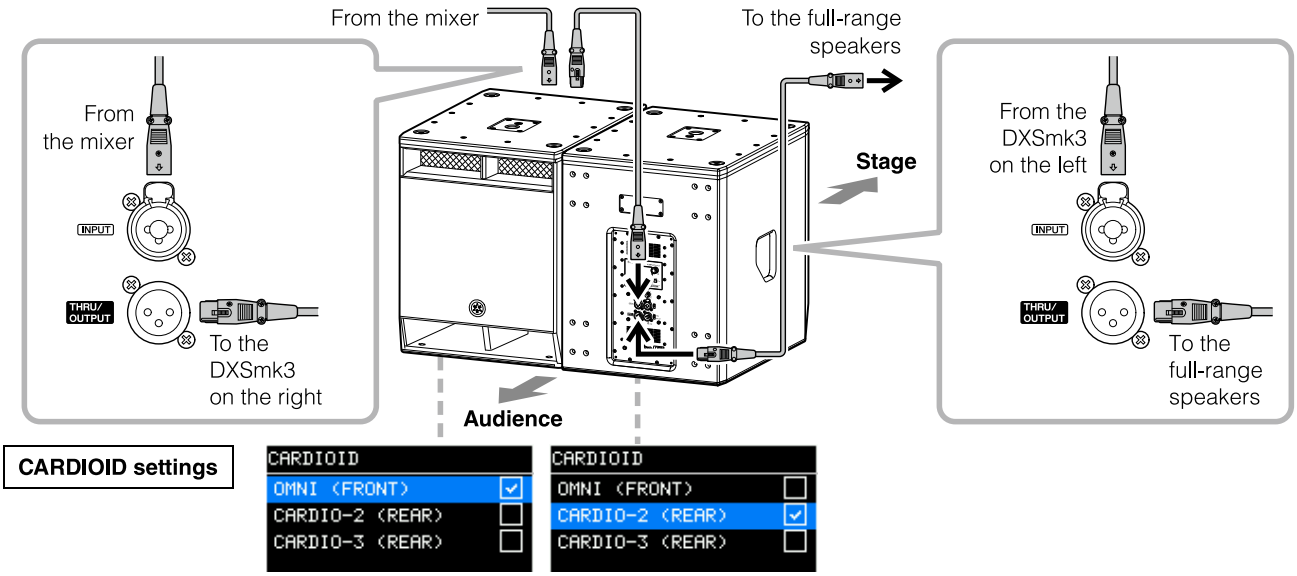
8. Cardioid Mode Settings

Arrange DXSmk3 series speakers in a front-back stagger pattern. Configure the cardioid mode setting on the screen. All other settings (LEVEL, POLARITY, LPF etc.) should be configured to the same settings.

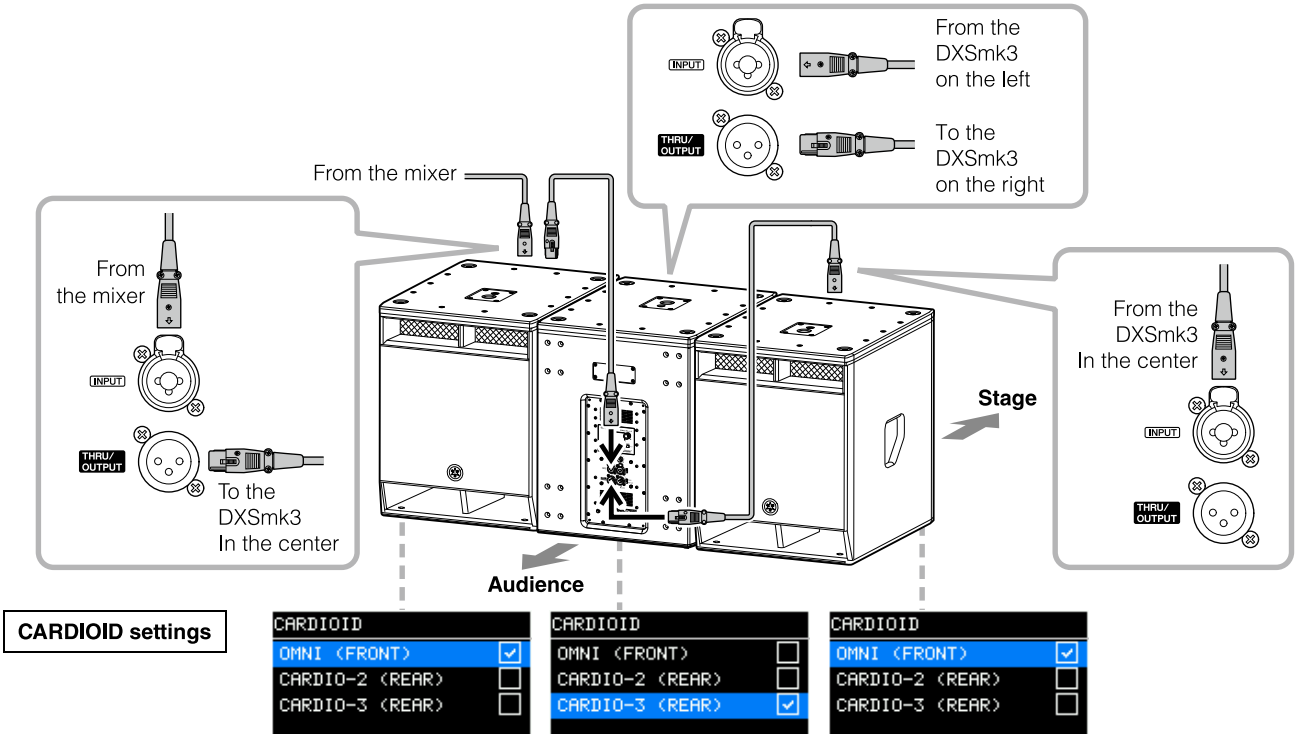
NOTE

- Use the same DXS-XLF(-D) model, and the same input signal. You can also set the [THRU/DSP OUT] switch to [THRU] to use in a sequence connection. See the example arrangements below.
- In order to maximize the cardioid characteristics, position the cabinets at least 1.2 m away from walls.

■Example arrangement with two units side by side



■Example arrangement with three units side by side



9. Installation Examples

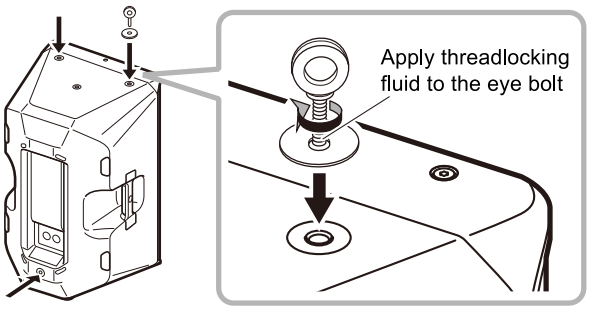
CAUTION

- Ask the Yamaha dealer from whom you purchased the speaker for installation and mounting work.
- To ensure safe operation, perform regular maintenance and inspections. Some fittings may deteriorate over an extended period of time due to wear and/or corrosion.
- When choosing the installation location, suspension wire, and mounting hardware, make sure they are all strong enough to support the weight of the speaker.
- Be sure to take precautionary measures using safety wires to prevent the speaker from falling in the event of an installation failure.
- When attaching the safety wire to the wall, install it higher than the wire's attachment point on the speaker, with as little slack as possible. If the wire is too long, and the speaker happens to fall, the wire may snap as a result of too much strain.
- Be sure to use eye bolts that comply with standards and safety regulations in your area.

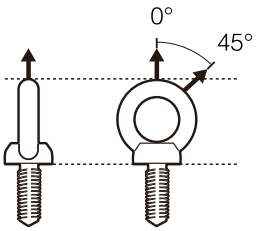
Yamaha cannot be held responsible for damage or injury caused by insufficient strength of the support structure or improper installation.

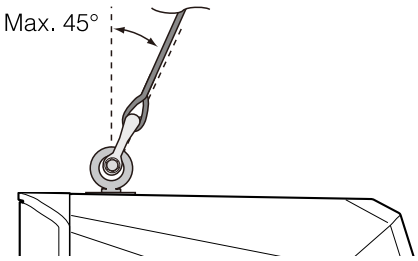
9.1. Suspended Installation Using Eye Bolts

When hanging a DXRmk3 series speaker, use the two threaded screw holes on the top panel and one on the rear panel of the speaker (which are sealed with stickers when shipped). Apply threadlocking fluid to commercially-available eye bolts, pass the washer over the bolt threads, and then screw the eye bolts into the holes.
The screw holes on the DXR15mk3 and DXR12mk3 are size M10 (for eye bolts up to 18 mm long), and the screw hole on the DXR10mk3 is size M8 (for eye bolts up to 15 mm long). Be sure to use the two screw holes on the top panel to hang the speaker.

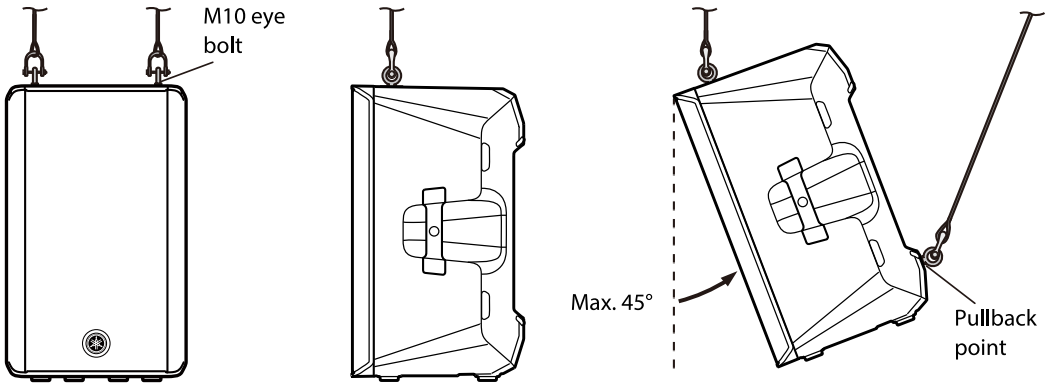


■Suspension angle
The strength of an eye bolt differs depending on the suspension angle. Be sure to use eye bolts within a range of 0 to 45 degrees of perpendicular (as shown).

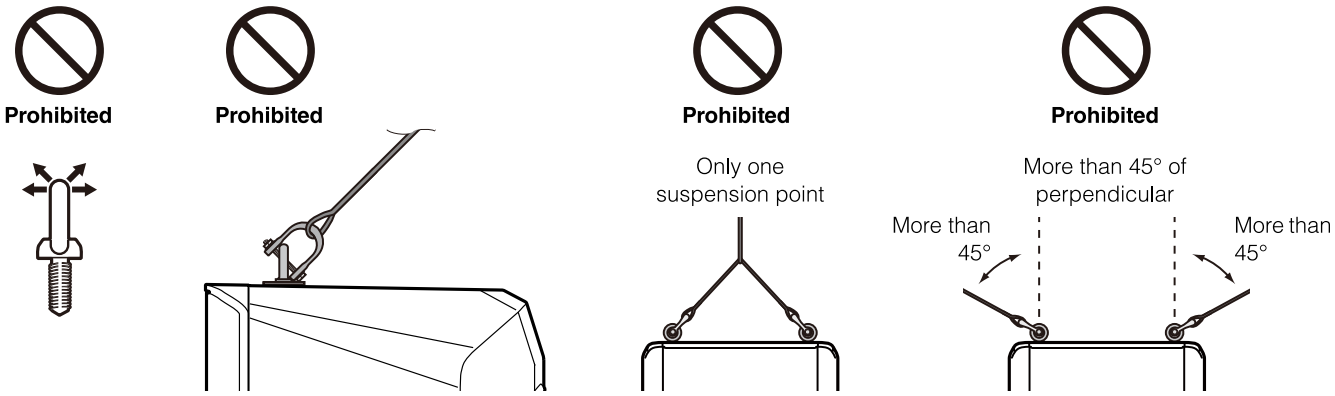




■ **Suspended Installation Example (CXR12mk3)**



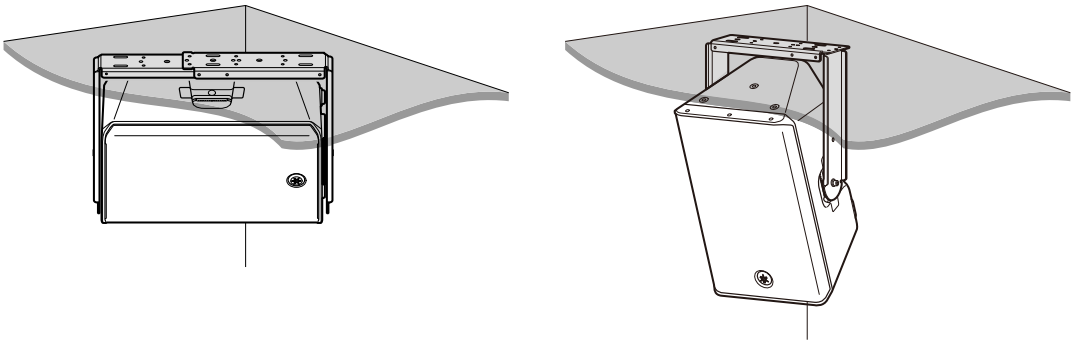
■ **Incorrect examples for suspended installation**



9.2. Installation Using a Dedicated U-bracket

The speaker can be mounted on a ceiling or wall using the optional Yamaha U-bracket (sold separately). For instructions on how to install the U-bracket, refer to the owner's manual for the UB-DXR15A, UB-DXRDHR12A, or UB-DXRDHR10A.

■ **Usage example**



NOTE

The U-bracket can be used in combination with optional brackets sold separately.
For product information, refer to the Yamaha Pro Audio website linked below.
https://www.yamahaproaudio.com/

10. Troubleshooting

Symptom	Possible causes	Possible solution
The power does not turn on.	The interval between power-on and off is short.	Turn the power off, wait about six seconds, and then turn it on.
No sound.	The cable is not connected properly.	Make sure to insert the cable all the way in.
	The DSP (digital stage) input level has been lowered in the dedicated app or on the speaker unit.	Increase the input level on the dedicated app or the speaker unit.
Sound got smaller suddenly.	The amplifier became too hot, causing the protection function to activate and the limiter to engage.	In this case, THERMAL will be displayed on the HOME screen. To reduce the amplifier's heat, lower the output level and improve ventilation around the rear panel. Also, make sure the rear panel is not exposed to direct sunlight.
Sound is interrupted suddenly.	The amplifier temperature has increased further, activating the protection function and muting the amplifier.	In this case, THERMAL will be displayed on the HOME screen. To reduce the amplifier's heat, lower the output level and improve ventilation around the rear panel. Also, make sure the rear panel is not exposed to direct sunlight. The system will automatically return to normal when the temperature drops.
	The speaker units are damaged.	If MUTED is not displayed on the HOME screen and MAIN Meter is moving but no sound is heard, the speaker unit may be damaged. Contact your Yamaha dealer.
The screen display disappears immediately.	The AUTO DIMMER function is turned on.	Press the main knob or [↩] (back) key to return to the normal display. To keep the function disabled, go to the HOME screen → UTILITY → PANEL SETUP → AUTO DIMMER, and set the time to NEVER.
The [LIMIT] indicator remains lit, or it lights up frequently.	The input signals are too high.	Lower the MAIN Level or input signal level so that the [LIMIT] indicator lights up intermittently.
Screen operations cannot be performed.	You entered the wrong PIN code, or you forgot the correct one.	Initialize the PIN code in MAINTENANCE.
Bluetooth connection cannot be established.	Another Bluetooth device is connected.	Break the current Bluetooth connection, and then connect the desired Bluetooth device.
	Pairing is broken.	Depending on the initialization settings, pairing information may also be initialized. Pair the device again.

Symptom	Possible causes	Possible solution
The Bluetooth sound cuts out.	There is something that emits 2.4 GHz-band electromagnetic waves (such as a wireless microphone transmitter, wireless LAN device, or microwave oven) near this product.	Place this product away from anything that emits electromagnetic waves.
	The wireless LAN function of the Bluetooth device is turned on.	Turn off the wireless LAN function, and turn on only the Bluetooth function.

11. Reference

https://manual.yamaha.com/audio/rt/speakers/dxr-mk3-dxs-mk3/en.html

- Function Tree
- Message List
- Specifications
- Dimensions
- Block Diagram

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