YAMAHA

HD-300 Assistant

Owner's Manual

Ver. 2.00

Introduction

Thank you for using the HD-300 Assistant. This app is equipped with functions that make using the HD-300 even more convenient and powerful. Please read this manual carefully and use it together with the main unit.

What you can do with this app

- **Use expanded functions:** HD control, Rhythm/tempo setting, Individual vol/pitch, Rhythm assistant
- **Help to hear exact intervals using the HD-300:** Demonstration (Interference beat, Volume balance)
- **Use convenient functions on the app:** Tuner, Chord detection

Contents

Basic usage

Setting up
- Downloading and installing the app
- Connecting with the HD-300

Common operation
- Function selection: From screen menu
- Function selection: Using shortcut icons
- Editing; Select, Change, Delete, Execute/Cancel

Individual functions — **Function list** (Call up individual function screens)

Setting up

• Downloading and installing the app

• Connecting with the HD-300

Common operations

• Function selection: From screen menu

• Function selection: Using shortcut icons

• Editing: Select, Change, Delete, Execute/Cancel

Downloading and installing the app

Search for “HD-300 Assistant” in the iPhone/iPad App Store, and install it.

NOTICE

Use this app with iOS/iPad OS version 14.3 or later. For versions prior to 14.2, the app may behave unexpectedly or stop.

NOTE

At the first startup, a pop-up will appear asking for permission to use the microphone and Bluetooth. Tap “OK” for each. If you do not allow this, the app will not work properly.
If you select “Don’t allow” at startup, you can set the permission in “Settings” > “HD Assistant” on the iPhone/iPad, and the app will work normally.

Connecting with the HD-300 (1/3)

Perform the pairing operation for communication between the iPhone/iPad and the HD-300.
The device uses Bluetooth, but actually connects with a channel separate from the conventional Bluetooth audio settings in iPhone/iPad, and so must be set from this app.

1. Turn on the Bluetooth function for both the HD-300 and the iPhone/iPad.

1-1. Turn on the HD-300 and press the [SETTING] button to open the Settings screen.

1-2. Set “Bluetooth” to “On” using the [>] and [-]/[+] buttons.

NOTE

Do not set “Bluetooth” to “Pairing” in this procedure.

1-3. Enable the Bluetooth function on the iPhone/iPad.

For details on how to do this, refer to the iPhone/iPad owner’s manual.

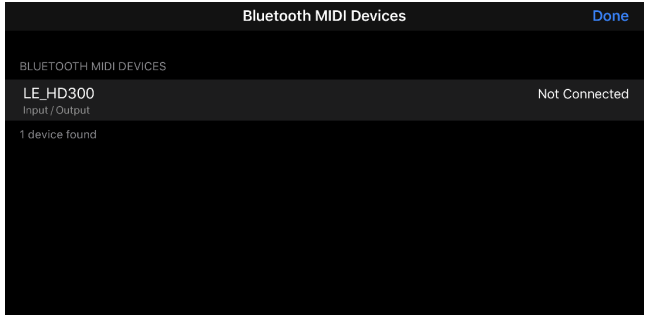
Connecting with the HD-300 (2/3)

To contents

2. Make pairing settings for the app and the main unit to communicate.

2-1. Do one of the following to open the Connection settings screen.

- Launch the “HD-300 Assistant” app.
- If the app is already running, tap at the top right of the screen.



The devices that can be connected are displayed on the screen.

2-2. Tap the name including “HD300” on the list to start the connection process.

The connection is complete when the display on the right changes from “Not connected” to “Connected.”

Connecting with the HD-300 (3/3)

To contents

3. Tap “Done” at the top right of the screen to close the settings screen.

The icon on the upper right of the home screen will be colored. In this condition, any operation executed on the app or the HD-300 will be synchronized.

Troubleshooting connection problems with the HD-300

■ The device name is not displayed or is displayed as “Offline.”

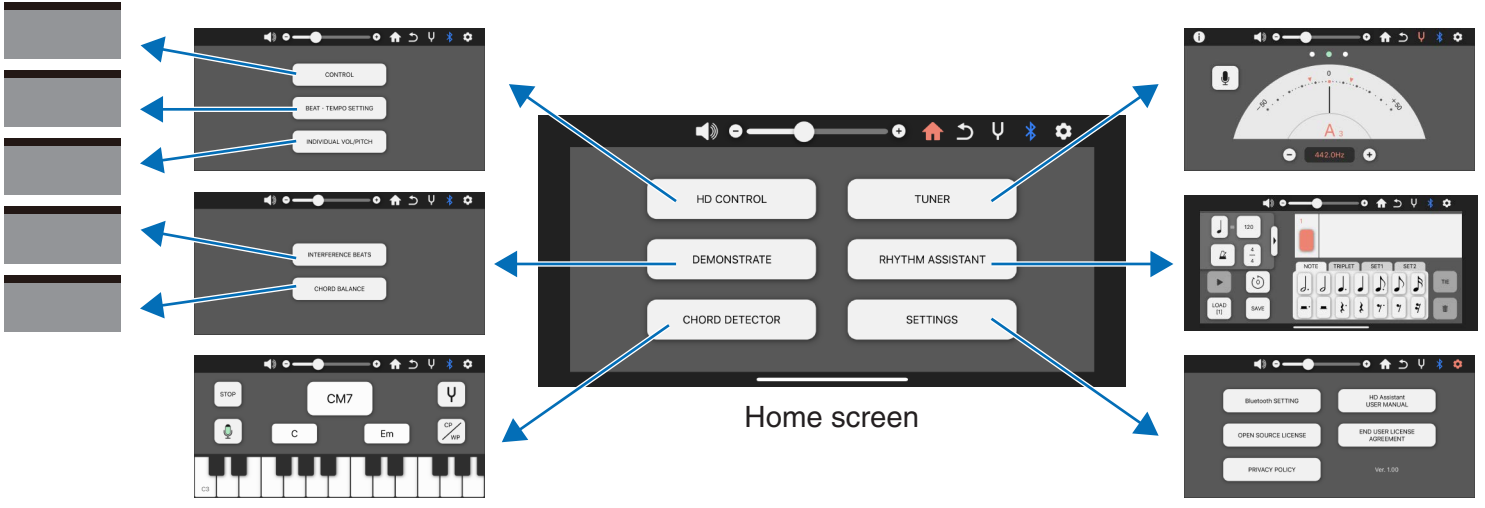
- Make sure that the power of the HD-300 is turned on.
- Check that “Bluetooth” is set to “On” on the Settings screen of the HD-300.
- Turn off the power of the HD-300 and then turn it on again.

■ Connection fails.

- Turn off the power of the HD-300 and then turn it on again.
- Close the HD-300 Assistant app and restart it.
- Check if the Bluetooth function of iPhone/iPad is enabled.
- Check if Bluetooth communication is permitted in “Settings” > “HD Assistant” on the iPhone / iPad.

Function selection: From screen menu

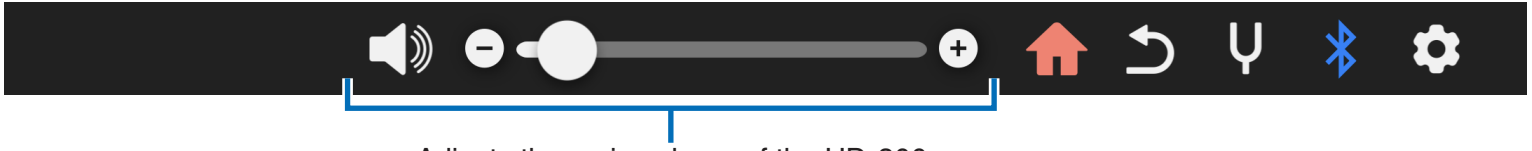
Starting from the home screen, tap the white button on the screen to move to the desired function.



Home screen

Function selection: Using shortcut icons

Except in some instances, shortcuts are displayed at the top of the screen.

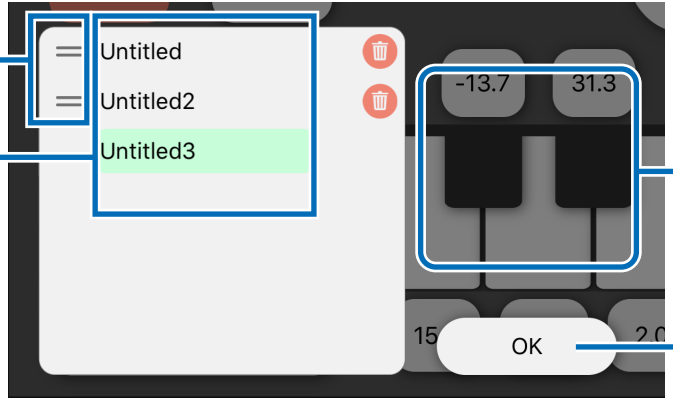


Adjusts the main volume of the HD-300

- Calls up the Home screen, and is colored when the Home screen is displayed.
- Returns to the previous screen.
- Calls up the Tuner screen, and is colored when the Tuner screen is displayed.
- Calls up the Connection Setting screen, and is colored when connection is enabled.
- Calls up the Settings screen, and is colored when the Settings screen is displayed.

Editing: Select, Change, Delete, Execute/Cancel

This section describes pop-up menu operations, such as selecting, changing, or saving.



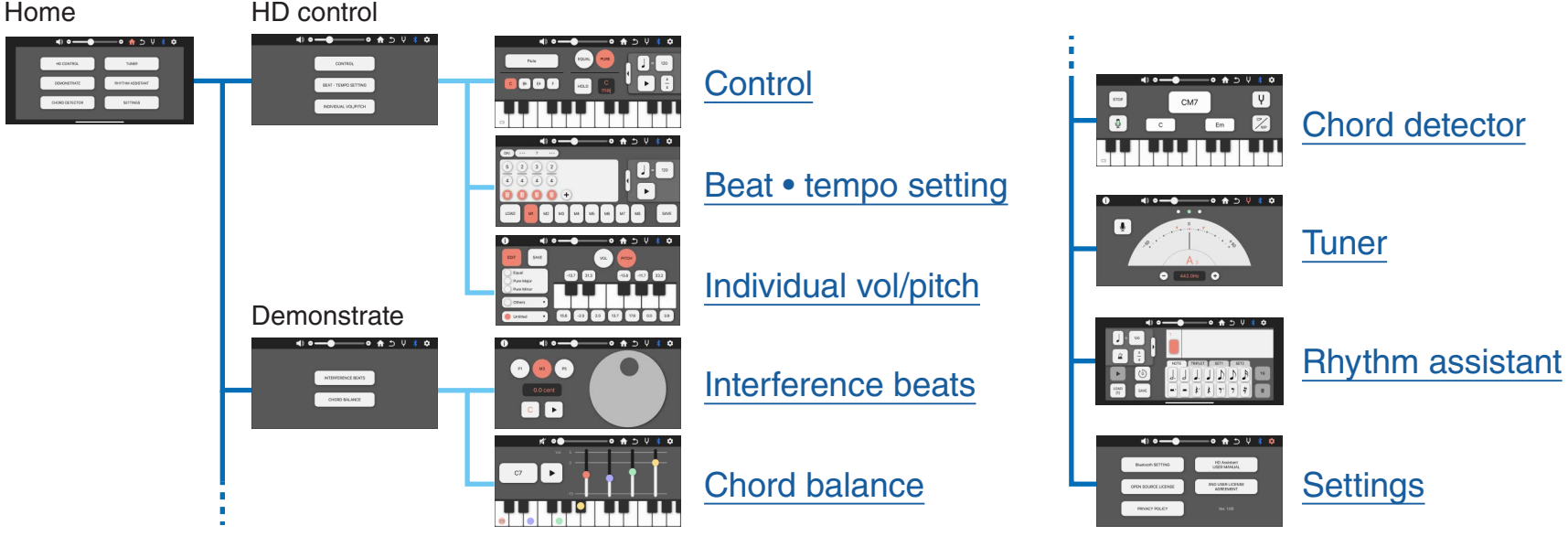
Cancel
Tap the empty gray area to cancel.

Execute
The content is confirmed when you tap it.

Immediately deletes the corresponding item, without confirmation.

Function list

Tap the image/name of the function to move to the explanation page for each function.



Operate the connected HD-300 main unit from the app.

Normal ①

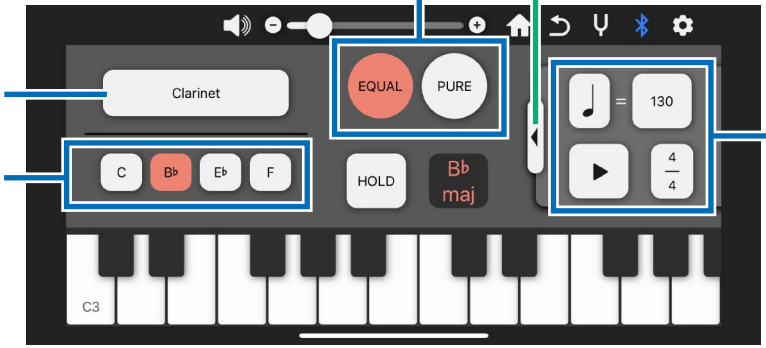
Temperament selection equal/pure

If you want to use individual temperament, go to the “Individual vol/pitch” function.)

Opens the metronome detailed settings

Voice selection

Transpose



Metronome operations

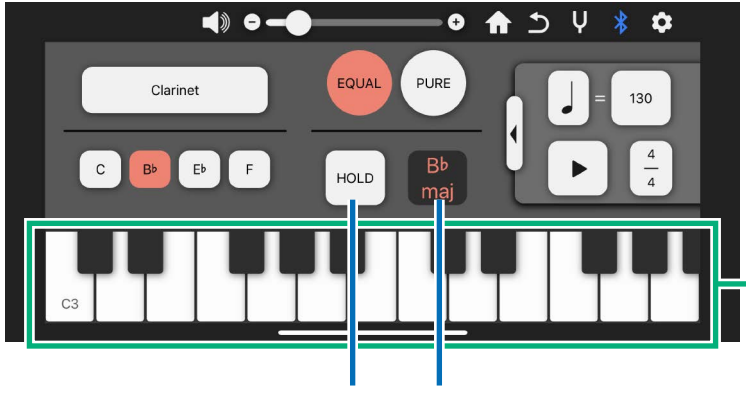
Checking the tempo reference note
Check and set tempo and time signature
Start/stop metronome.

NOTE

If the [Pure] display is green when you select [Pure], the key is locked.
Locking/unlocking cannot be changed from the app. If necessary, operate the main unit directly.

Operate the connected HD-300 main unit from the app.

Normal ②

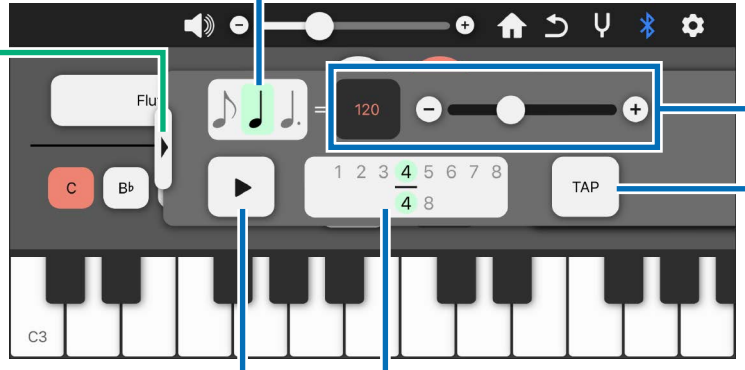


Keyboard
The note touched will be sounded by the HD-300. It is also used for key input. You can change the octave by flicking.

On-screen keyboard "Hold" on/off
Turns only the "Hold" setting of the keyboard on/off from the screen. This is independent of the HOLD setting of the main unit.

Key display (NOTE)
Unlike the main unit, it does not displays a chord, and only shows the root key and the distinction between major (maj)/minor (min).

Metronome detailed settings

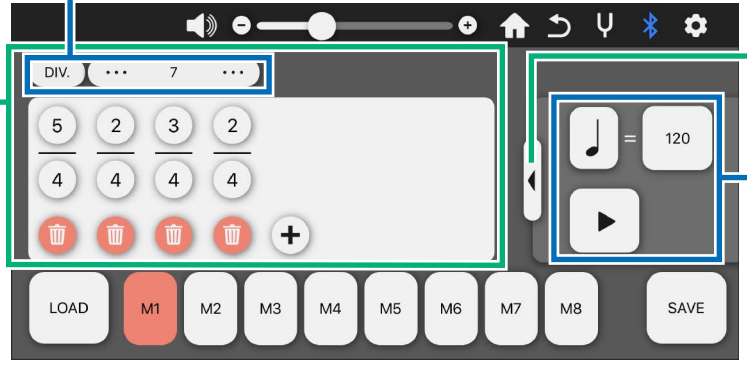


Control the Beat • tempo memory function.
You can save multiple sets of M1-M8 and recall them later.

Normal ①

Beat division/integration

When you tap this, division (or “split”) plans for the corresponding beat will appear. You can split the time signature into manageable beats by selecting the desired one and tapping “OK.” Tap this again to integrate them to the time signature before making the split.



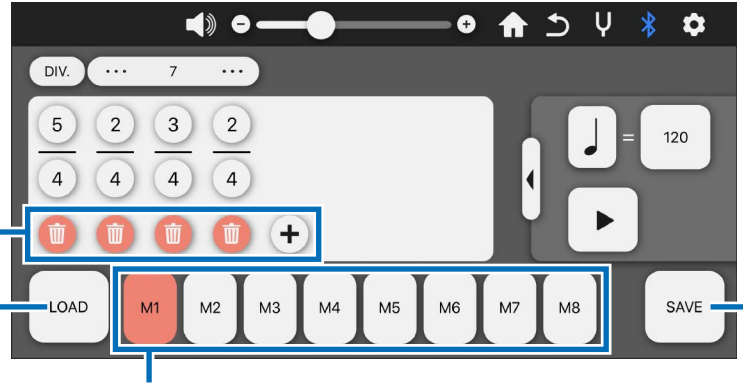
Edit beats
Changing/adding/deleting beats.

Open the metronome detailed settings

Metronome operations
Checking the tempo reference note
Checking and setting the tempo and time signature
Starting/stopping the metronome

Control the Beat • tempo memory function.
You can save multiple sets of M1-M8 and recall them later.

Normal ②



Add/delete beat

Load memory bank
Loading the M1-M8 settings data saved to the app as one bank.

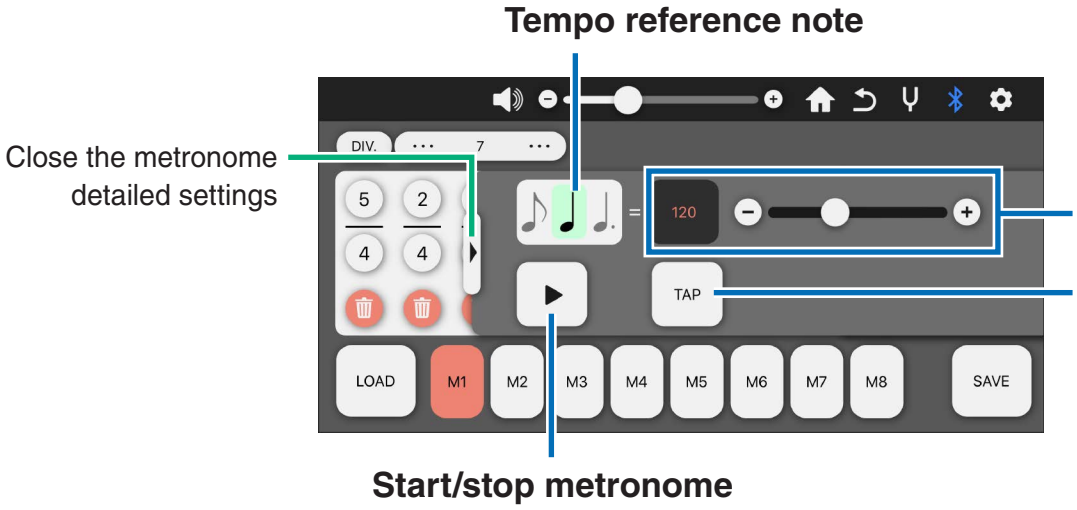
Memory select
Selecting the desired M1-M8 setting to be edited.
The content is sent to the main unit in real time.

Save memory bank
Naming the M1-M8 settings as one bank, and saving them to the app.

NOTICE

- **The contents of M1 to M8 of the main unit will be overwritten with the data on the app side when you use the load memory bank function. If necessary, save them before using this function.**
- **Save the beat / tempo you have edited before connecting to the main unit.**

Metronome detailed settings

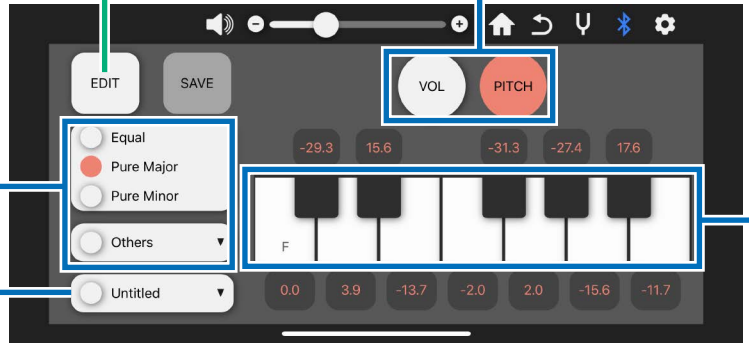


Set the individual volume/pitch. The temperament mode of the main unit automatically switches to “User“ mode. You can choose settings from presets or create your own settings to save and recall.

Normal mode

Change to edit mode (next page)
Create a new custom setting by copying the current setting.

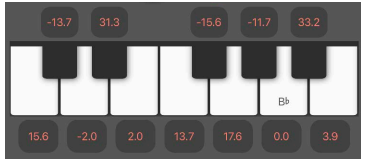
Selecting volume/pitch



Preset temperaments
Select from preset temperaments.

Saved custom temperaments
Select an edited/saved temperament.

Keyboard
The note touched is sounded by the HD-300. The root name of the current key is shown on the keyboard in this screen. The root name of the major key is shown as in the illustration at left. Also, the root name of the minor key is shown as in the illustration below.

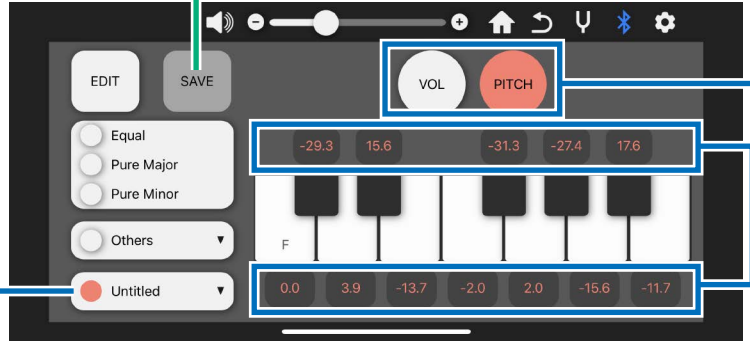


NOTE
The numbers (volume/pitch) corresponding to each key cannot be changed in normal mode. They can only be changed in edit mode.

Even during editing, the values are reflected in the main unit in real time.

Edit mode: Editing

Call up Save Destination selection (next page)
Saves the settings you are editing.



Selecting volume/pitch

Volume/pitch of corresponding note
Tap to call up the pop-up window and change the value.

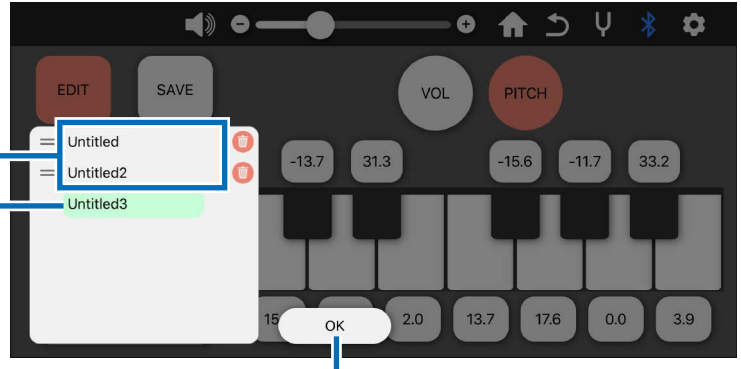
Setting name being edited
Allows you to edit this name before saving.

Save individual volume/pitch settings. Volume and pitch are saved together as a set.

Edit mode: Save Destination selection

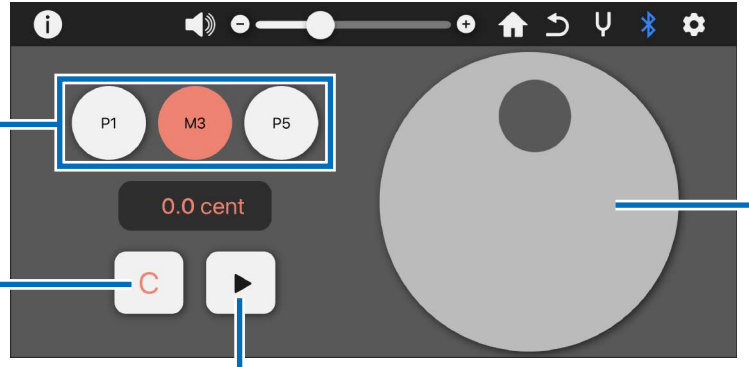
List of saved settings
Allows you to rename or delete the setting by tapping it. You can also overwrite current setting data.

Setting name being edited
While this is selected and the Save operation is executed, the current settings will be saved as new data.



Execute Save operation and return to normal mode

Demonstrate minutely out-of-tune sounds (interference beats), using the HD-300.



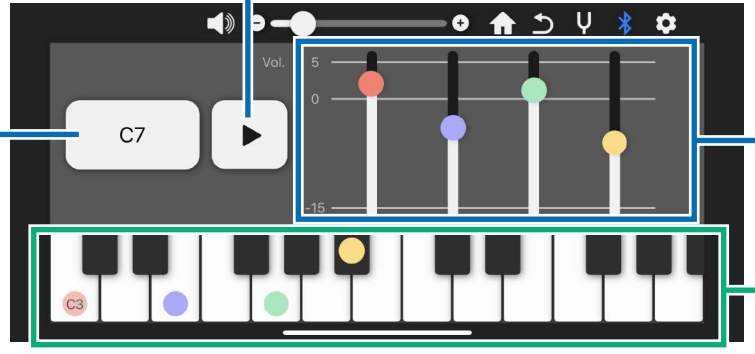
Type of interval

Root key

Pitch adjustment dial
Adjusts the pitch difference. The dial turns green when the pitch is near to just intonation. You can also reset this to precise just intonation by double-tapping.

Start/stop sounding
Have the main unit sound according to the settings made here.

Demonstrate the volume balance of chords, using the HD-300 main unit.



Start/stop playing chord
Have the main unit sound according to the settings made here.

Chord type

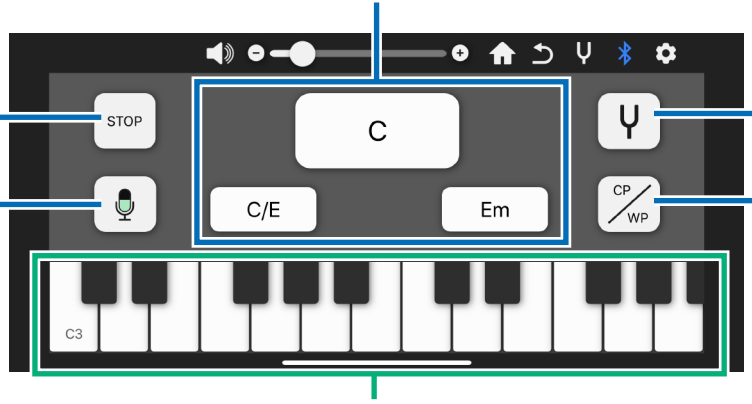
Volume adjustment slider
Each slider corresponds to a note marked in the same color on the keyboard.

Keyboard
The note touched is sounded by the HD-300.

Detect the chord of the input sound using the iPhone/iPad microphone.

Chord detection result (candidate)

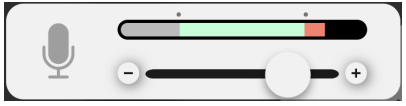
Displays up to 3 chord detection results.
Tap to have the HD-300 sound the corresponding chord.



Detection start/stop

Microphone sensitivity adjustment

Tap to display the level meter and slider. Adjust the slider so that the input sound from the microphone falls within the green range.



Keyboard

The note touched is sounded by the HD-300.

Call up the tuner

You can call up the tuner while leaving the detection result. The operation method is the same in the tuner screen.

Refer to constituting notes

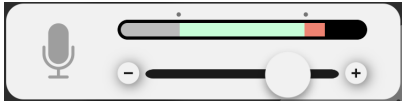
Displays the table of the actual note notation and transposition notation of the constituent notes, for the chord of the detection result that was tapped last.

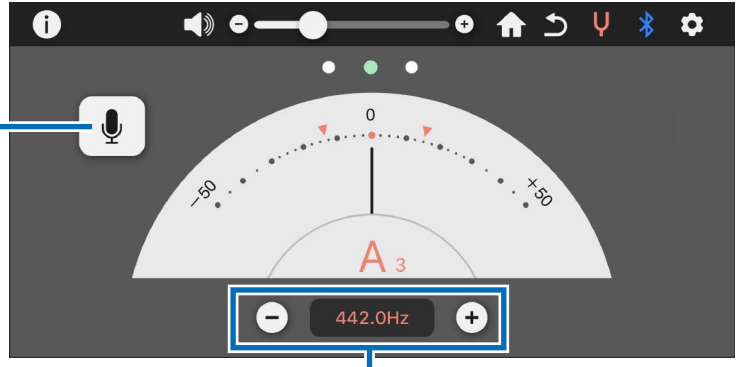
Chord: C				
Written Pitch	Concert Pitch	C	E	G
	in C	C	E	G
	in B♭	D	F#	A
	in E♭	A	C#	E
	in F	G	B	D

This tuner function uses the microphone of the iPhone/iPad.

Microphone sensitivity adjustment

Tap to display the level meter and slider. Adjust the slider so that the input sound from the microphone falls within the green range.





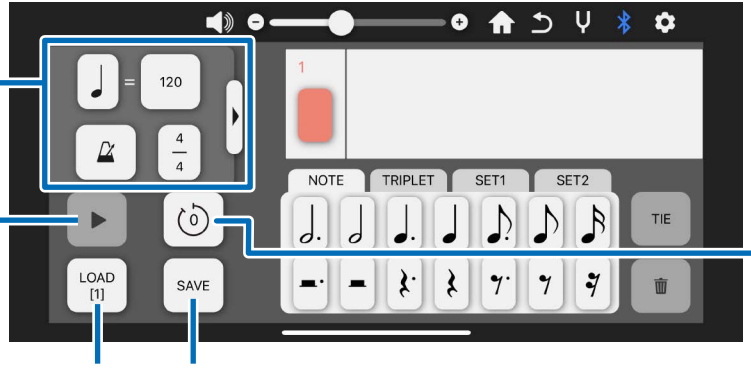
Standard pitch

Synchronizes with the standard pitch setting of the HD-300.

Edit the rhythm patterns of “Custom 1” – “Custom 8” in the main unit by this function.
You can save the rhythm patterns of “Custom 1” – “Custom 8” and recall them later.

Tempo / time signature settings
Setting the tempo value
Setting the tempo / time signature
Metronome volume control

Start/stop of rhythm pattern



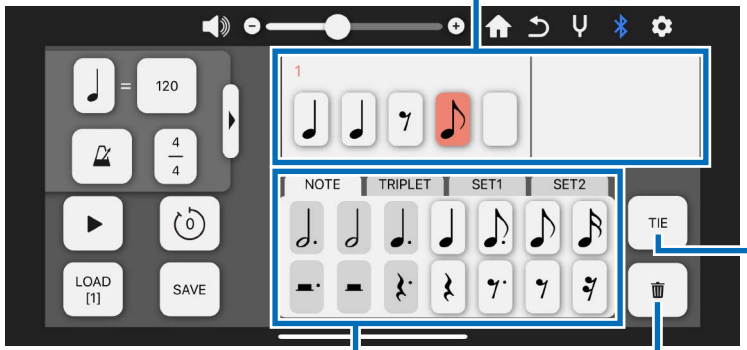
Load rhythm pattern
Load the rhythm pattern of “Custom 1” – “Custom 8.” When editing a new rhythm pattern, select a custom rhythm name from the list.

Save rhythm pattern
Save the edited rhythm pattern to the app. You can also include a memo or other important information (song name, etc.)

NOTE
Tap the [Load] button and select a custom rhythm pattern name before editing a rhythm pattern.

Setting the preparatory beat
You can set the preparatory beat when you want to repeat a rhythm pattern. If unnecessary, set the value to zero.

Edit/start/save a rhythm pattern which you want to confirm after setting the tempo, time signature, and preparatory beat .



Rhythm score

Edit the rhythm pattern by selecting the tabs and tapping notes/rests with the corresponding buttons. The currently selected note or rest is highlighted in orange. The number of notes that can be entered in one bar is determined automatically according to the beat setting. Also, when the maximum number of notes is reached, the next bar is generated automatically. You can edit up to two bars, but can also play back even one bar.

Tie

Tap this button to connect to the next note by a tie.

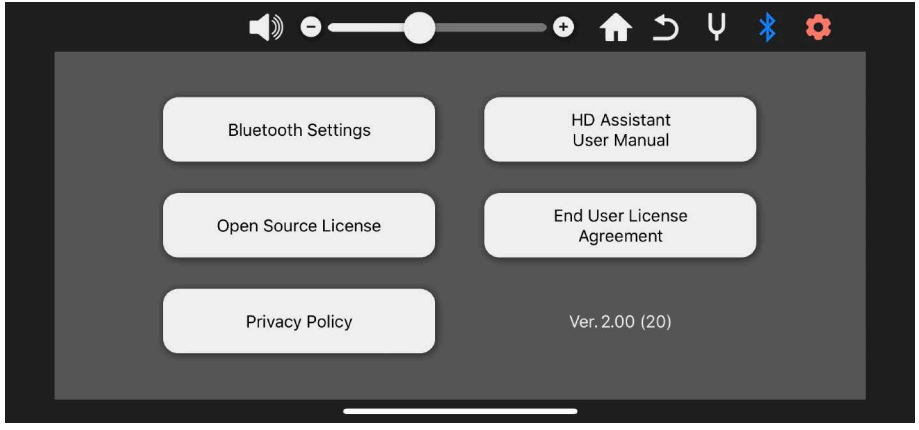
Notes/Rests

Select a note or a rest which you want to input.

Delete

Deletes the currently selected note or rest.

Tap to call up the connection setting screen, display of licenses, etc., and the owner's manual (this manual). The app version is also displayed here.



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