

Technics Music App User Guide (ST-G30 control guide)

- Install “Technics Music App” on your tablet or smartphone to make the operations and the settings of ST-G30.
- This user guide is for ST-G30.

Also see the following website.

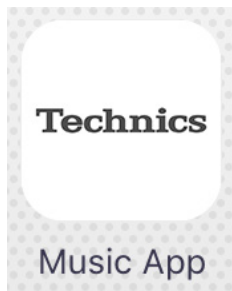
- For iOS:

[http://www.technics.com/support/downloads/sp-app/data/UserGuide/TechnicsMusicApp_UserGuide\(iOS\).pdf](http://www.technics.com/support/downloads/sp-app/data/UserGuide/TechnicsMusicApp_UserGuide(iOS).pdf)

- For Android:

[http://www.technics.com/support/downloads/sp-app/data/UserGuide/TechnicsMusicApp_UserGuide\(Android\).pdf](http://www.technics.com/support/downloads/sp-app/data/UserGuide/TechnicsMusicApp_UserGuide(Android).pdf)

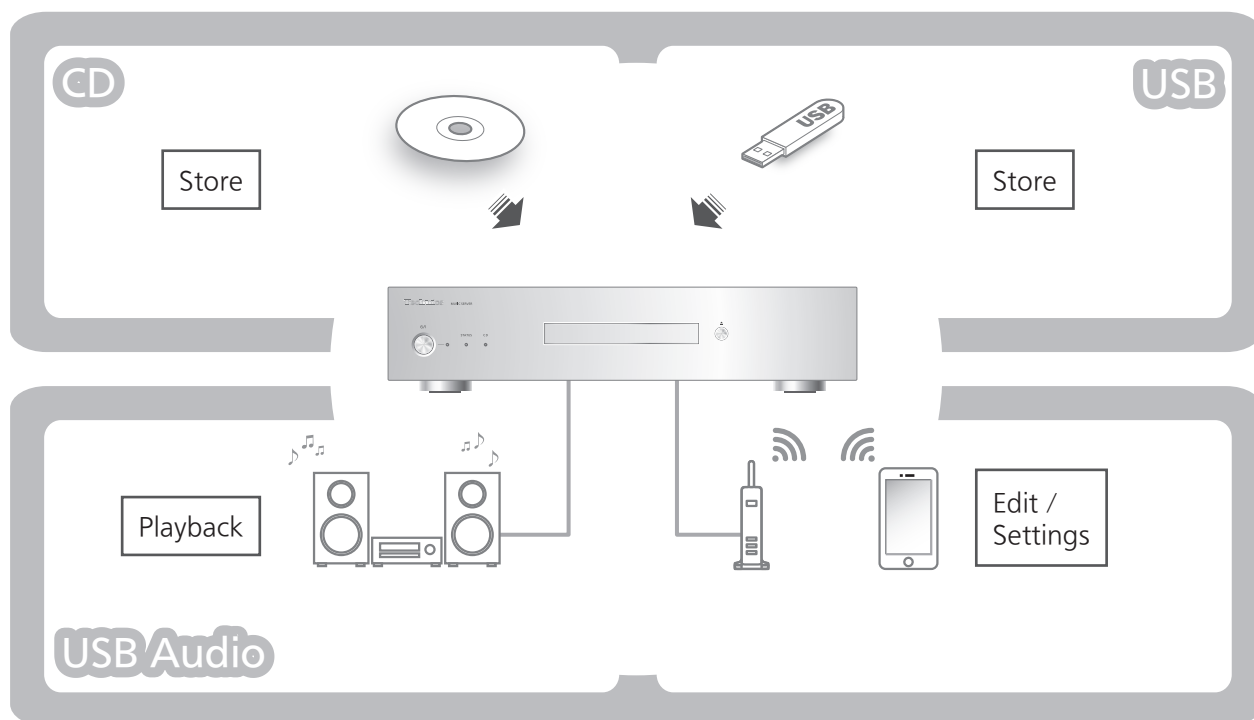
What is Technics Music App?



This application is designed for making the operations and the settings of ST-G30. It is also designed as a simple, user-friendly music playback app that enables you to perform tasks such as selecting an audio source and playback device and creating a playlist on your tablet or smartphone.

- Operating environment:
 - iPad / iPhone / iPod touch with iOS 7 or later
 - Android device with Android 4.1 or later

What Technics Music App can do with ST-G30



Store

- Record tracks from a CD to the built-in SSD of ST-G30 with high-quality. Also, obtain the title and artist information of the CD from the Gracenote® database.
 - * Gracenote® provides music CD-related information from the compiled database.
- Import tracks from a USB device to the built-in SSD of ST-G30.

Playback

- Play back tracks stored to the built-in SSD of ST-G30 on the player equipped with USB-DAC.

Edit / Settings

- Edit tags and change album arts of tracks stored to the built-in SSD of ST-G30.
- Change the settings of ST-G30.
- Download tracks purchased at Technics Tracks to the built-in SSD of ST-G30.
 - * Technics Tracks is an online high-res music store run by 7 digital Group. (For the United Kingdom, Germany, Canada)
- Update the software of ST-G30. (Panasonic may release updated software via Internet to improve performance or add features.)

LEGAL NOTICE

Recording and playback of content on this (or any other) device may require permission from the copyright owner. Panasonic has no authority to and does not grant you that permission and explicitly disclaims any right, ability or intention to obtain such permission on your behalf. It is your responsibility to ensure that your use of this or any other device complies with applicable copyright law in your country.

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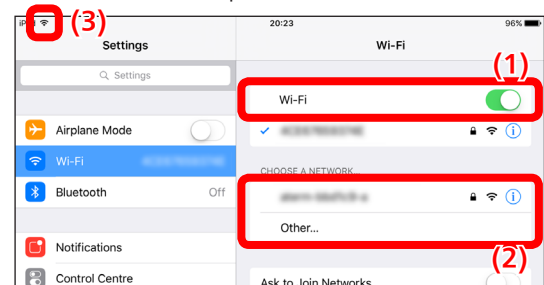
- Screen images may differ depending on your devices.
- Reference pages are indicated as (⇒ ○○).

Preparation

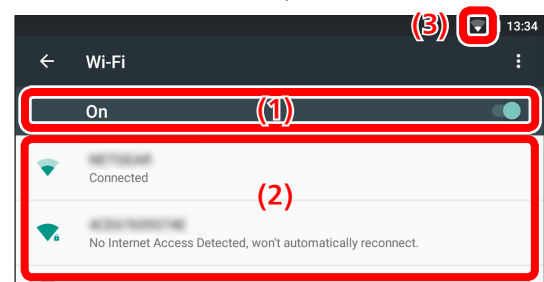
The following connection and setting are required before using “Technics Music App”.



- 1 Connect ST-G30 to the router using the LAN cable, and turn the power on.
 - For connection details, see the operating instructions supplied with ST-G30.
- 2 Connect the tablet or smartphone to the router.
 - (1) Set Wi-Fi to ON at [Settings] of the tablet or smartphone.
 - (2) Select the router (SSID) to which ST-G30 is connected.
 - For the SSID and password of the router, see the operating instructions of the router.
 - (3) When the Wi-Fi antenna icon appears, the connection is complete.

<iOS screen example>



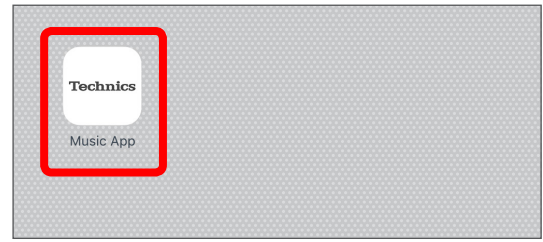
<Android screen example>



- 3 Install “Technics Music App” (free) on your tablet or smartphone.
 - For iPad / iPhone / iPod touch, install it from App Store.
<https://itunes.apple.com/en/app/technics-music-app/id948962364?mt=8>
 Access by QR Code

 - For Android device, install it from Google Play.
<https://play.google.com/store/apps/details?id=com.panasonic.avc.diga.techapp>
 Access by QR Code


4 Start up "Technics Music App".

- Tapping the icon will start up the application.

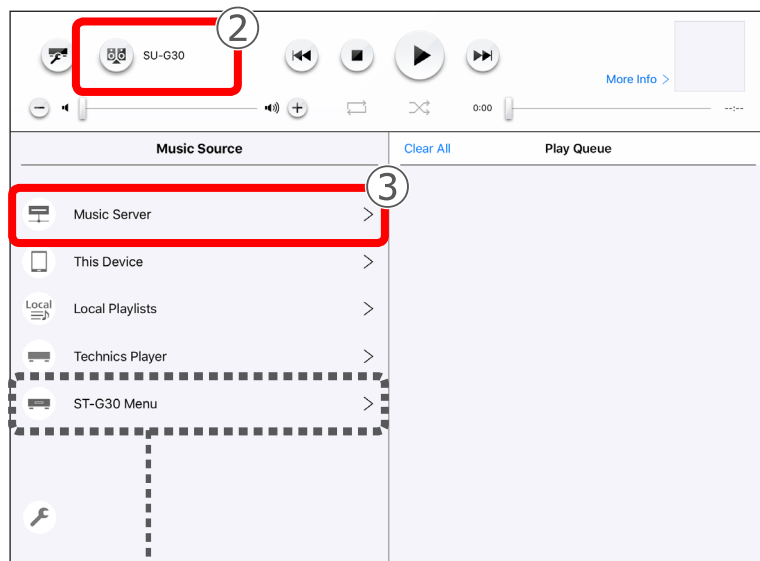


5 Select [Display On] at [ST-G30 Menu Display Settings].

- If [Display On] is not selected, ST-G30 cannot be operated.
- To hide [ST-G30 Menu Display Settings] from the next startup, set [Show this tutorial next time] to [Off].
 - Note this is displayed again when upgrading the version or reinstalling the application even if [Off] is selected. Set again.

Operating ST-G30

Home screen - Tablet screen (example)



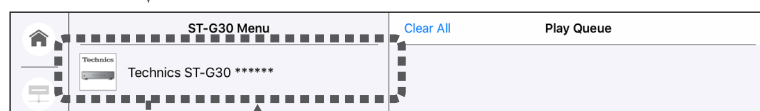
① Store tracks to ST-G30
(⇒ 8)

② Select the device for playback
(⇒ 10)

③ Play back the stored tracks
(⇒ 11)

④ Edit or delete the stored tracks
(⇒ 13)

⑤ Change the settings of ST-G30
(⇒ 15)

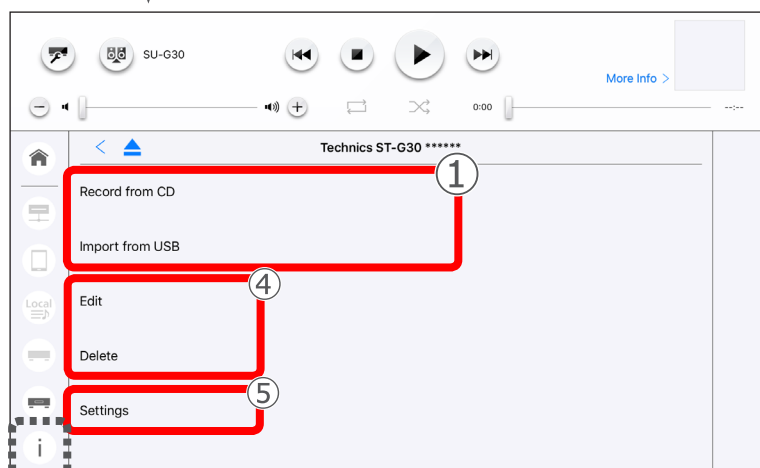


Device selection (Select your ST-G30.)

- The name specific to the device is displayed. The name can be changed at [Settings] in section ⑤.
([Network] > [Friendly name])

For how to use items other than the above, see the following website.

- For iOS:
[http://www.technics.com/support/downloads/sp-app/data/UserGuide/TechnicsMusicApp_UserGuide\(iOS\).pdf](http://www.technics.com/support/downloads/sp-app/data/UserGuide/TechnicsMusicApp_UserGuide(iOS).pdf)
- For Android:
[http://www.technics.com/support/downloads/sp-app/data/UserGuide/TechnicsMusicApp_UserGuide\(Android\).pdf](http://www.technics.com/support/downloads/sp-app/data/UserGuide/TechnicsMusicApp_UserGuide(Android).pdf)



For checking the status of ST-G30

Home screen - Smartphone screen (example)



① Store tracks to ST-G30
(⇒ 8)

② Select the device for playback
(⇒ 10)

③ Play back the stored tracks
(⇒ 11)

④ Edit or delete the stored tracks
(⇒ 13)

⑤ Change the settings of ST-G30
(⇒ 15)

For how to use items other than the above, see the following website.

- For iOS:

[http://www.technics.com/support/downloads/sp-app/data/UserGuide/TechnicsMusicApp_UserGuide\(iOS\).pdf](http://www.technics.com/support/downloads/sp-app/data/UserGuide/TechnicsMusicApp_UserGuide(iOS).pdf)

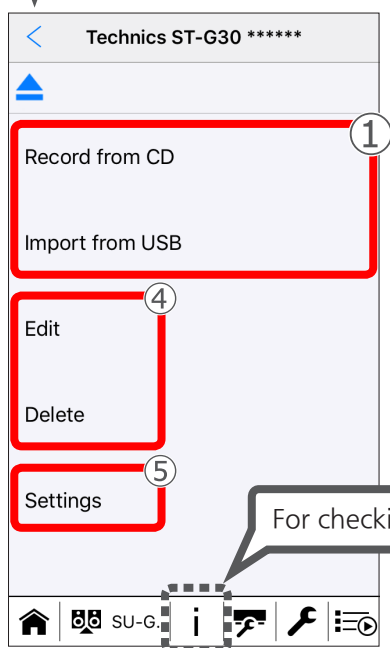
- For Android:

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Device selection (Select your ST-G30.)

- The name specific to the device is displayed. The name can be changed at [Settings] in section ⑤.
([Network] > [Friendly name])



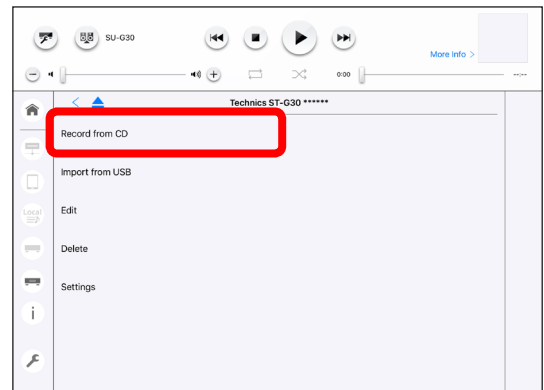
For checking the status of ST-G30

① Store tracks to ST-G30

- Also see LEGAL NOTICE. (⇒ 2)

Record tracks from the CD

- 1 Insert the CD to ST-G30.
 - For how to insert a CD, see the operating instructions supplied with ST-G30.
- 2 Tap [ST-G30 Menu] > Device selection > [Record from CD].
 - The Gracenote® logo is displayed for a few seconds, and the title, artist information, etc. of the CD to record are automatically obtained from the Gracenote® database.
 - It may take time to obtain the information.
 - Obtaining the information requires the router to be connected to the Internet.
 - If more than one piece of information is found on the database, the candidates are listed. Select the information you wish to obtain from the list.
 - If the information is not present on the Gracenote® database, it cannot be obtained. If the information cannot be obtained, the album name and artist name are registered as [Unknown Album] and [Unknown Artist] respectively.
 - The title and artist information, etc. can be changed by editing after recording. (⇒ 13)

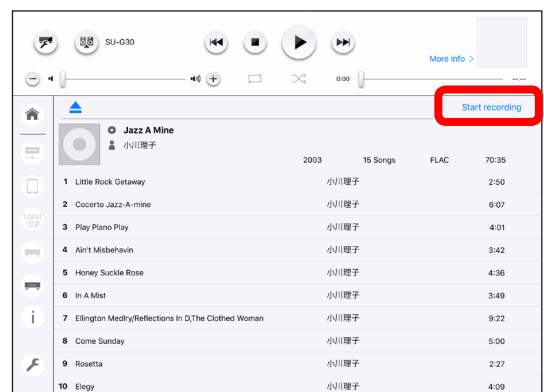


- 3 Tap [Start recording].
 - The recording of all tracks starts.
 - When the router is connected to the Internet, the recording data is compared to the exclusive server for the bit-perfect. Normal playback is not affected even if the data is not bit-perfect.

Bit-perfect is the condition of the music data without any interpolation.

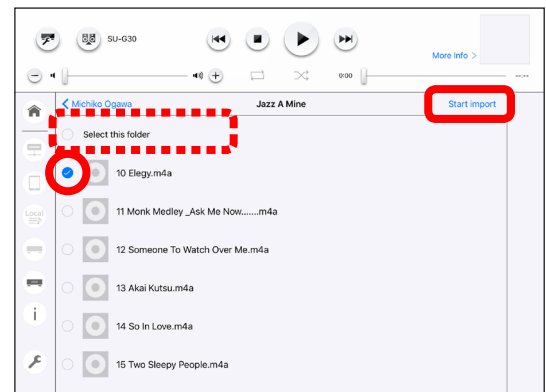
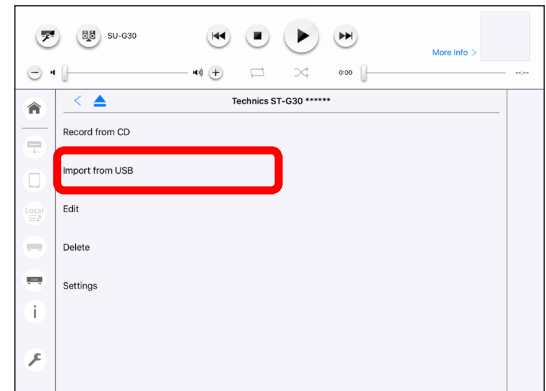
The following icons will be displayed for the tracks for which the recording is completed. If either of the icons is displayed for all the tracks, the recording is completed. If you record from the CD again, start from step 1.

 - [✓]:
Bit-perfect recording is completed.
 - [●]:
Recording is completed.
Tap the icon to check the cause that resulted in failure of bit-perfect recording.



Import tracks from the USB device

- 1 Connect the USB device to the USB terminal for IMPORT / BACKUP of ST-G30.
 - For how to insert a USB device, see the operating instructions supplied with ST-G30.
- 2 Tap [ST-G30 Menu] > Device selection > [Import from USB].
 - It may take time to display the tracks in the USB device.
- 3 Select the track to import, and tap [Start import].
 - You cannot select multiple tracks at the same time.
 - Selecting [Select this folder] can import all the tracks under the folder at a time.
 - Selecting [Select root] can import all the tracks in the USB device at a time.



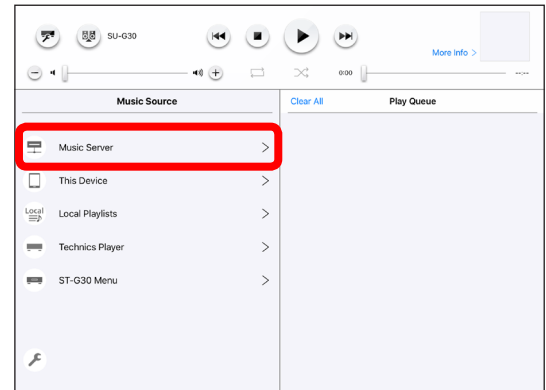
- 4 Tap [OK] on a confirmation screen.

② Select the device for playback

When using the built-in USB-DAC device for playback, connect the device to the USB terminal for AUDIO OUT of ST-G30 with the USB cable, and set the device for playback.

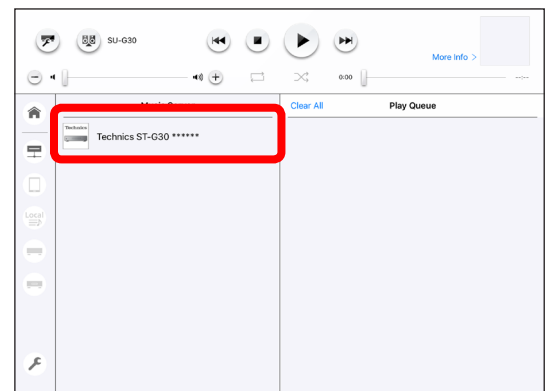
- For how to connect a built-in USB-DAC device, see the operating instructions supplied with ST-G30.
- For how to set a built-in USB-DAC device, see the operating instructions of the device.

1 Tap [Music Server].



2 Select your ST-G30.

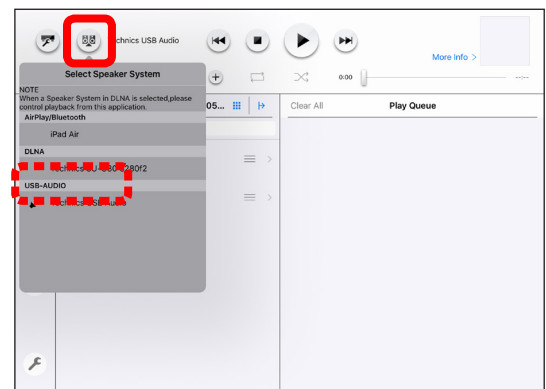
- The name specific to the device is displayed.



3 Tap the speaker icon.

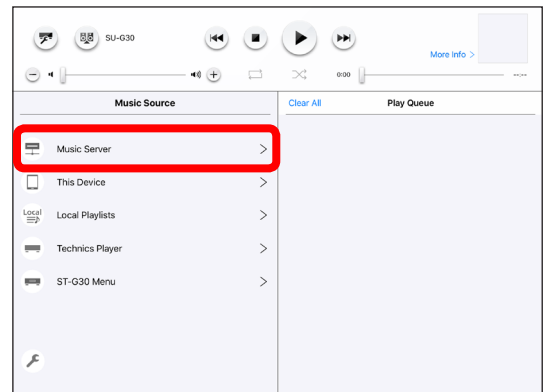
4 Select the device for playback.

- The built-in USB-DAC device connected to the USB terminal for AUDIO OUT of ST-G30 is displayed at [USB-AUDIO].
 - The built-in USB-DAC device which is compatible with the operations of Technics Music App will be displayed as [Technics USB Audio]. When using the other built-in USB-DAC device, it will be displayed as [USB-DAC].
 - The displayed built-in USB-DAC device can be used only when playing back tracks stored to the built-in SSD of ST-G30.
 - When using the Technics built-in USB-DAC device which has the network function, you can adjust the volume of the device. Connect the built-in USB-DAC device to the router for adjustment. For how to connect to the router, see the operating instructions of the device.
 - Depending on the connected device, this function may not work properly.



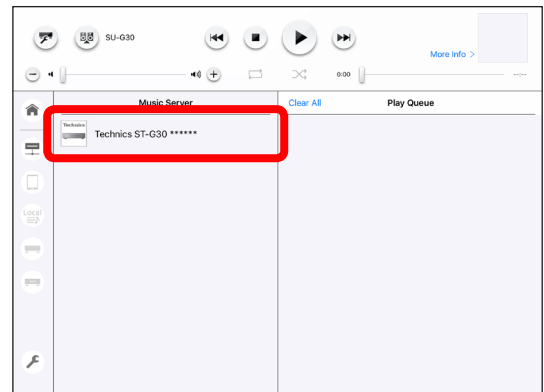
③ Play back the stored tracks

1 Tap [Music Server].



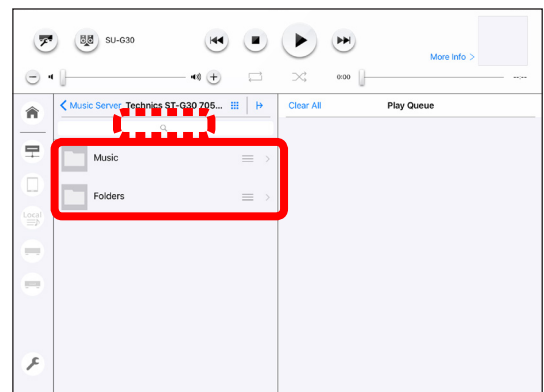
2 Select your ST-G30.

- The name specific to the device is displayed.
- Confirm that the connected built-in USB-DAC device is in playable state.



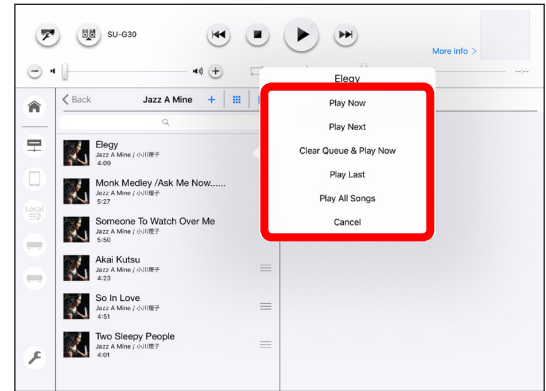
3 Select the tracks to play back.

- You can look for the stored tracks in both the [Music] folder and [Folders] folder. Tap the folder to display the tracks in the folder, and select the tracks to play back.
- In the [Music] folder, ST-G30 distinguishes track information and automatically creates folders to sort out the tracks.
- In the [Folders] folder, the stored tracks are allocated as below.
 - Tracks recorded from a CD:
[Folders] > [CD] > artist name or album name folder
 - Tracks downloaded from Technics Tracks:
[Folders] > [DL]
 - Tracks imported from a USB device:
[Folders] > [SHARE] > [Import] > folder with the import date
- Tap the search icon when searching for tracks. The tracks corresponding to the input characters will be displayed after searching for artist names, album names and track names in the stored tracks.



4 Select the playback method on the pop-up screen.

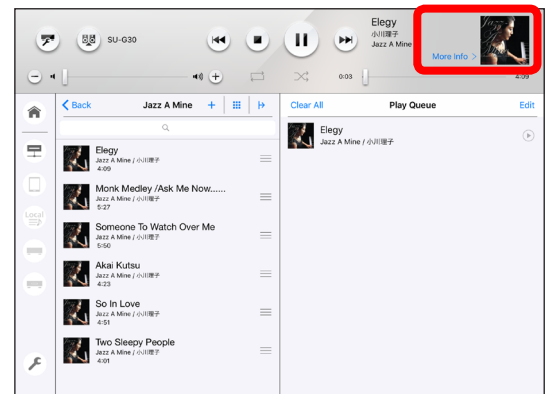
- [Play Now]:
Starts to play back the selected track.
- [Play Next]:
Plays back after the track currently being played has finished.
- [Clear Queue & Play Now]:
If a Play Queue is present, the queue is deleted and playback starts.
- [Play Last]:
Registers as a last track on the Play Queue.
- [Play All Songs]:
Registers all the tracks in the folder of the selected track to the Play Queue, and the playback starts from the selected track.



Switching the playback screen

Tapping the album art or [More Info] on the tablet will switch the playback screen.

Tapping [Now Playing] on the smartphone will switch the playback screen.

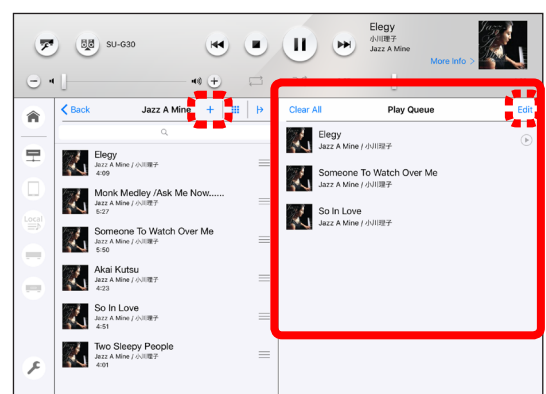


Play Queue

On the tablet, [Play Queue] is displayed on the right side of the screen.

On the smartphone, tap [≡] to display [Play Queue] if it is not displayed.

- Tracks played back are added to [Play Queue]. Tapping [+] can also add tracks to [Play Queue].
- Playback also starts by tapping the tracks in [Play Queue].
- Tapping [Edit] can change the playback order, delete tracks, or create a new local play list.

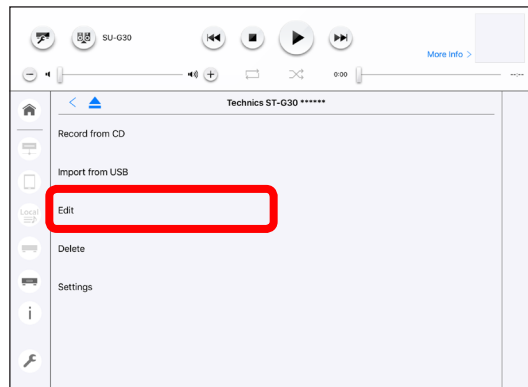


④ Edit or delete the stored tracks

In the editing menu, you can change the names, change the album art, or collect title information from Gracenote® for the stored tracks.

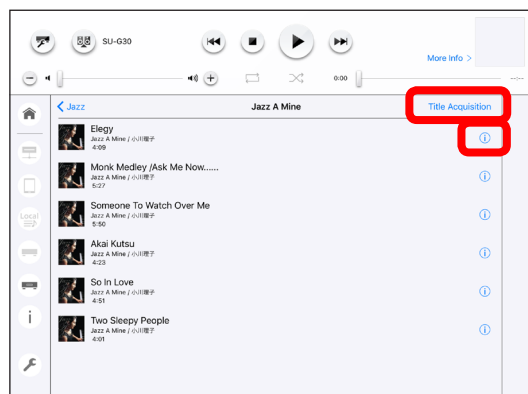
Edit

1 Tap [ST-G30 Menu] > Device selection > [Edit].



2 Select the track to edit.

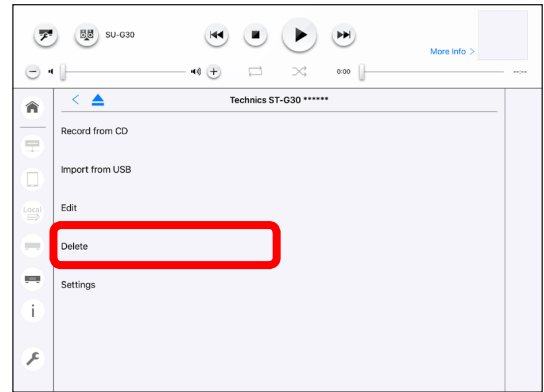
- If changing the title, artist name, etc. to arbitrary names by character input, tap [i] > item you wish to change.
 - If changing [Artists], [Albums], [Album artist] or [Genre], you can select whether to apply the changes to all the tracks in the same folder at a time. (When applying to all the tracks in the same folder, be sure to confirm that all the tracks are displayed in the folder before application.)



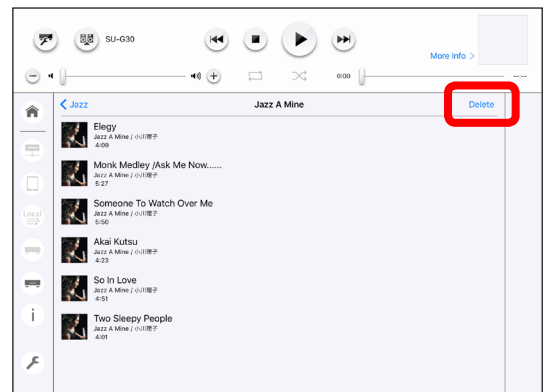
- If changing the album art, tap [i] > [Change album art].
 - It can be changed to an image stored on your tablet or smartphone, or a new picture taken on the spot.
 - You can select whether to apply the changes to all the tracks in the same folder at a time. (When applying to all the tracks in the same folder, be sure to confirm that all the tracks are displayed in the folder before application.)
 - Depending on the devices, this function may not be available. If it is not available, try to use another photo application installed on the device.
- When collecting title information from Gracenote®, tap [Title Acquisition].
 - Obtaining the information requires the router to be connected to the Internet.
 - [Title Acquisition] is available only for some folders, such as [Albums] or [Artists] in the [Music] folder.
 - The information of the tracks can be obtained only when they are recorded from CDs and those titles have never been obtained.
 - The information of the tracks edited or deleted after recorded from CDs cannot be obtained.
 - If more than one piece of information is found on the database, the candidates are listed. Select the information you wish to obtain from the list.
 - If the information is not present on the Gracenote® database, it cannot be obtained.

Delete

1 Tap [ST-G30 Menu] > Device selection > [Delete].

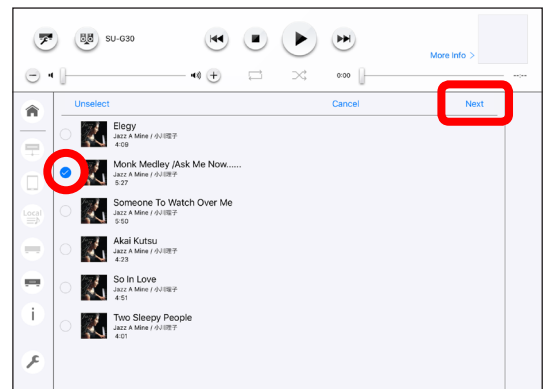


2 Display the tracks to delete, and tap [Delete].



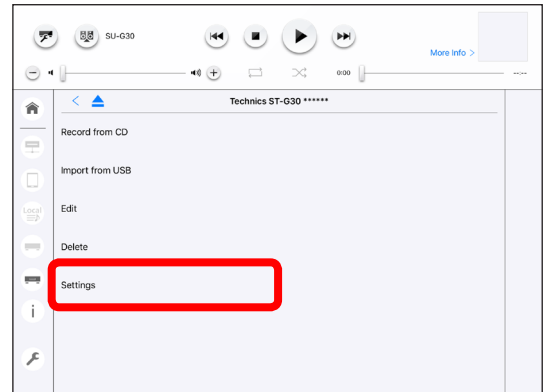
3 Select the tracks to delete, and tap [Next].

- A confirmation screen appears. Tap [OK] to delete.



⑤ Change the settings of ST-G30

Tap [ST-G30 Menu] > Device selection > [Settings].



Recording setting

Changes the compression rate when recording tracks from CDs.

- Higher the FLAC Level, higher the compression ratio. Change the setting as desired.

Technics Tracks

Downloads the tracks purchased at Technics Tracks.

Set the E-mail address, password, country setting at [User Info Setting]. Register your E-mail address, password on the homepage of Technics Tracks.

<https://tracks.technics.com/>

- This service is available for the United Kingdom, Germany and Canada. (as of January 2016)
- Downloading the tracks requires the router to be connected to the Internet.
- Setting [Auto dl settings] to [On] will check purchased tracks approx. every hour, and download them automatically.
- Select [Start dl now] to start downloading immediately.

LED dimmer

Dims or turns off the LED on the front panel of ST-G30. (Default setting is [Standard].)

- Change the setting as desired.

LAN LED ON/OFF

Turns off the LAN LED on the rear panel of ST-G30. (Default setting is [On].)

- Change the setting as desired.
- The LAN LED illumination shows the communication status. Selecting [Off] will not illuminate the LED even during communication.

LAN speed

Changes the maximum speed of LAN.

- Change the setting as necessary.

Amount of SSD used

The used capacity and available space of the built-in SSD can be checked.

Network

Changes the network setting.

- Change the setting as necessary.
- Default setting of [File share] is [On]. Setting [File share] to [On] will allow you to access ST-G30 from an external device such as a PC via network. (⇒ 17)

For how to operate an external device, see the operating instructions of an external device.

Date and time

Use this to correct the clock built in ST-G30. (Default setting is [Off].)

- Confirm that the time on your tablet or smartphone is accurate, and set [Sync with device time] to [On].

Backup/Restore

Backs up the data in the built-in SSD of ST-G30 to the USB device, or restores the backed-up data to the SSD. Follow the on-screen instructions to operate.

- Also see LEGAL NOTICE. (⇒ 2)
- Connect the USB device to the USB terminal for IMPORT / BACKUP of ST-G30. (It may take time to detect the USB device.)
- Depending on the data amount, it may take much time to back up and restore.
- Backup:
 - Back up the data periodically as necessary.
 - Before backup, check the usage of the SSD in [Amount of SSD used], and the USB device has free space enough to back up the usage of the SSD.
 - The backed-up data is saved in the [BACKUP] folder of the USB device. If the backup is cancelled or stopped due to the insufficient free space of the USB device, a folder with “-fail” added at the end of the folder name will be created.
- Restore:
 - The built-in SSD of ST-G30 will be formatted automatically before restoring the backed-up data of the USB device. If formatted, all the stored data are erased.
 - If the backup is performed more than once, the backup data is displayed from new to old.

Initialize (format of SSD, etc.)

Erases the user information of Technics Tracks, or formats the built-in SSD of ST-G30 or connected USB device.

- If formatted, all the stored data are erased.
- The USB device is formatted in NTFS.

ST-G30 version

ST-G30 software version can be confirmed.

ST-G30 Firmware update

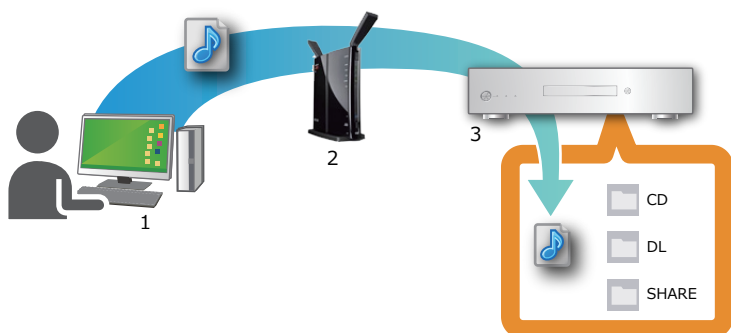
Updates the software of ST-G30 manually.

- Updating the software requires the router to be connected to the Internet.
- Searches for updatable software, and starts updating if it is found.
- A message may appear to prompt you to update the software. Use the latest version of software.

Accessing ST-G30 from PC (File sharing function)

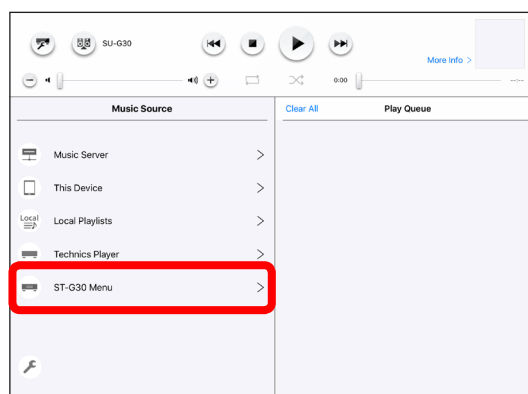
Operating your PC, you can access ST-G30 via network, and copy or edit the folders or tracks. The copied tracks can be played back on [Music Server] of "Technics Music App".

- You can access [CD], [DL] and [SHARE] folders of ST-G30 from your PC.

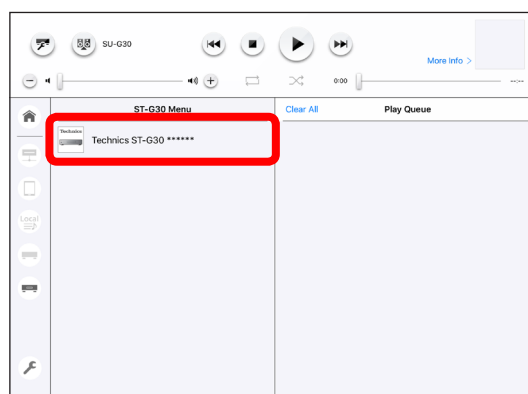


Enabling the file sharing function

- 1 Tap [ST-G30 Menu].



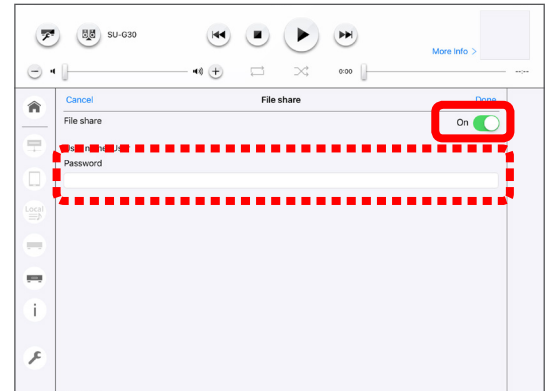
- 2 Select your ST-G30.
 - The name specific to the device is displayed.



- 3 Tap [Settings] > [Network] > [File share].

4 Set [File share] to [On].

- There is no default setting for the password. Input of user name (User) is required in accessing ST-G30 from PC. If the password is set, input of password is also required in accessing ST-G30 from PC. Make this setting as necessary.
- User name (User) cannot be changed.
- If you have forgotten the password, set the password again.



Troubleshooting

Sound is interrupted during playback.

Confirm that the LAN speed has been set to [Automatic (up to 1Gbps)]. ([ST-G30 Menu] > Device selection > [Settings] > [LAN speed])

Cannot record from a CD.

CDs that cannot be used:

- CDs with irregular shapes, such as heart shapes (Use of such CDs may cause malfunction.)

CDs that are not guaranteed to operate:

- Discs with illegally copied data and those that do not conform to industry standards
- DualDiscs (Discs that record data such as music and images on both sides)

Supported disc formats:

Commercially available CDs (CD-DA)	○
CD-R/CD-RW (CD-DA)	○
CD-R/CD-RW (MP3)	×
CD-R/CD-RW (WMA)	×

The title or artist information cannot be obtained from Gracenote®. / Information cannot be obtained even if tapping [Title Acquisition].

Obtaining the information requires the router to be connected to the Internet.

Only the information of the tracks recorded from CDs can be obtained.

If the information is not present on the Gracenote® database, it cannot be obtained.

If the information cannot be obtained, use the editing function to change the titles, artist names, etc. (⇒ 13)

Tracks stored by recording or importing are not displayed.

It may take some time to register the stored tracks.

When writing is being performed from the PC simultaneously, wait until the writing is completed, and then check the display.

Your ST-G30 is not displayed on the device selection screen.

Depending on the usage environment, it may take some time to display.

Confirm that your device and ST-G30 are connected on the same network.

Check if ST-G30 is turned on.

Restart the application.

If the problem persists, reset ST-G30 to the factory defaults. For the reset method, see the operating instructions supplied with ST-G30.

Edited or deleted tracks are not applied on the display.

Depending on the usage environment (10000 or more of tracks are stored in ST-G30, etc.), it may take some time to apply the change.

If the change is not applied, return to the home screen, and operate again.

Downloading does not start from Technics Tracks.

Downloading the tracks requires the router to be connected to the Internet.

You cannot re-download tracks that were once downloaded even if deleted.

Tracks may not be downloaded unless the clock built in ST-G30 is accurate. Confirm that the time on your device is accurate, and synchronise the time. (Tap [ST-G30 Menu] > Device selection > [Settings] > [Date and time], and set to [On].)

[ST-G30 Menu] is not displayed.

Tap [] > [ST-G30 Menu Display Settings], and select [Display On].

The icon of [ST-G30 Menu] is not displayed on the home screen.

Depending on your device, the icon of [ST-G30 Menu] may be out of the screen due to the visible area. Move the other icons up so the icon of [ST-G30 Menu] can be displayed.

The application is not responsive.

Restart your device.

* Services are subject to change without notice.

Error message

"Cannot play" / "Cannot connect to the Speaker System" / "Speaker System disconnected"

Confirm that each device is connected on the same network.

"Cannot connect to the Technics product"

Check if ST-G30 is connected to the router.

Check if ST-G30 is turned on.

If ST-G30 does not turn on, confirm that the SSD is correctly mounted on ST-G30. For details, see the operating instructions supplied with ST-G30. If ST-G30 does not turn on and the message is still displayed after the SSD is correctly mounted, the SSD might be damaged.

"Recording from CD" / "Importing from USB" / "Downloading from Technics Tracks" / "Backing up" / "Restoring"

Operation is not available while the process is in progress. Wait until the process is completed.

"USB memory Unsupported"

The file system of the USB device is unsupported. Check the supported file system on the operating instructions supplied with ST-G30.

"No SSD space detected"

Delete unnecessary tracks to increase the available space.

"No SSD detected"

Confirm that the SSD is correctly mounted on ST-G30. For details, see the operating instructions supplied with ST-G30. If the message is still displayed after the SSD is correctly mounted, the SSD might be damaged.

"This server cannot be played on USB-Audio. Select a speaker system other than USB-Audio on "Select Speaker System"."

You are trying to select a server other than ST-G30. USB-Audio can play back only the tracks stored in ST-G30.

When selecting a server other than ST-G30, select an item other than [USB-AUDIO] on the [Select Speaker System] screen.

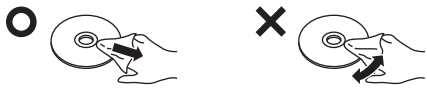
The IP address of ST-G30 may have been changed. Select an item other than [USB-AUDIO] on the [Select Speaker System] screen, and select ST-G30 again.

"No information detected on the BitPerfect server."

No information of the CD is found in the bit-perfect server, and the recording is completed without bit-perfect processed. (Normal playback is not affected.)

“The data on the BitPerfect server does not match the recorded data. Is the disc scratched or dirty? Wipe the CD with a soft cloth and try recording again.”

Wipe with a damp cloth and then wipe dry.



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- Name: Panasonic Corporation
- Address: 1006 Oaza Kadoma, Kadoma City, Osaka 571-8501 JAPAN
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j-5. android-support-v4.jar

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j-6. DragSortListView

A subclass of the Android ListView component that enables drag and drop re-ordering of list items.

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NEUQUANT Neural-Net quantization algorithm by Anthony Dekker, 1994. See "Kohonen neural networks for optimal colour quantization" in "Network: Computation in Neural Systems" Vol. 5 (1994) pp 351-367. for a discussion of the algorithm.

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- Name: Panasonic Corporation
- Address: 1006 Oaza Kadoma, Kadoma City, Osaka 571-8501 JAPAN
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