

Note on the Firmware Release for the Digital Conference System ATUC-50 / ATUC-IR

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Additional Functions

50CU Ver 2.1.0 / IRCU Ver 1.1.0

- The system now supports 50DUa and we have added voting function using Voting Unit (ATUC-VU).

Improvements

50CU Ver 2.1.0

- We have solved the rare problem of audio not being output from 50DU/50IU caused by malfunction during FBS operation.
- We have solved the problem of audio not being output from DUs during TALK ON, on rare occasions.
- The 50CU now reattempts to make a connection if there is no response from the extension in a CU Link. An error notification is also sent if there is no response during the second attempt.

50IU Ver 1.5.7

- We have solved the rare problem of noise occurring when the data communication is temporarily interrupted.

Update Intended Devices

| Model | Update version | Comments |
|---------------|----------------|------------------------------|
| ATUC-50CU | Ver 2.1.0 | |
| ATUC-50DU | Exempt | Continue using version 1.5.0 |
| ATUC-50INT | Exempt | Continue using version 1.5.0 |
| ATUC-50IU | Ver 1.5.7 | |
| ATUC-IRCUCUFW | Ver 1.1.0 | |
| ATUC-IRCUIRFW | Exempt | Continue using version 1.0.6 |

- When updating 50CU / IRCU, please refer to "About operable combinations of ATUC-50 / ATUC-IR" (p.9) and confirm the operable combinations after updating.

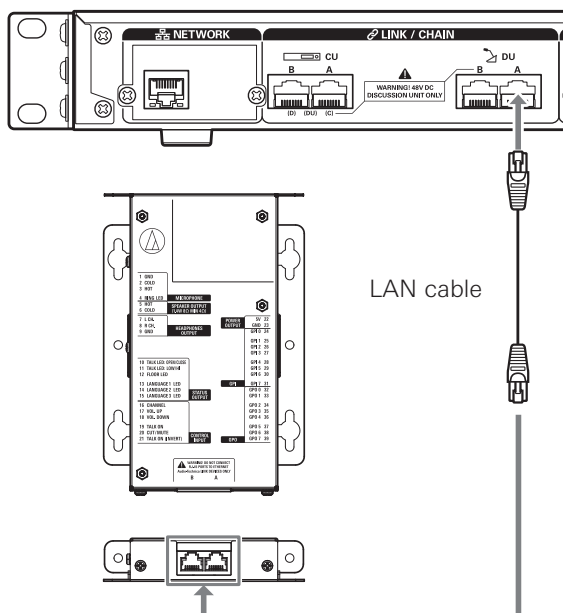
About the Firmware Update

Precautions

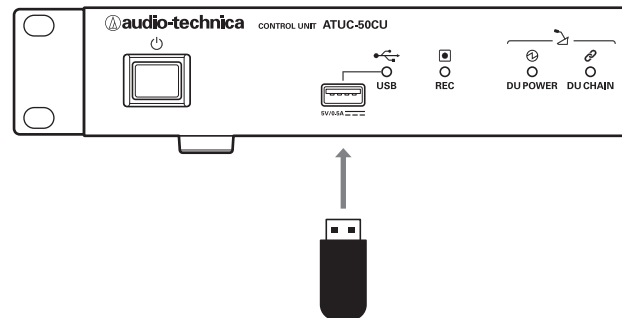
- Always download the latest firmware when doing firmware updates. Check our website (www.audio-technica.com/world_map/) for the latest information on firmware.
- Read the following procedures carefully when executing an update.
- While updating, do not perform any functions on the devices.
- While updating, do not turn off the power or unplug the power cable.
- While updating 50IUs, do not disconnect the cable (LAN cable) connected to the 50CU/IRCU.
- If the update fails and the device does not start, do a forced update to try recovering.
- Contact your local Audio-Technica dealer if you cannot recover with a forced update.
- Typically, the settings for the device are saved even when updating. However, just for good measure, we recommend saving them to a preset or writing down the setting values.
- Perform 50CU / IRCU updates with only one 50CU / IRCU without a CU LINK connection.
- We recommend doing updates by connecting a USB memory device to the 50CU / IRCU, as described in this document.
- You can also do updates on the Web Remote from [Settings & Maintenance] → [System Settings] → [Utilities]. However, the update may fail if it is not executed in a stable network environment. For details about this update procedure, refer to the instruction manual.

Updating the 50IU

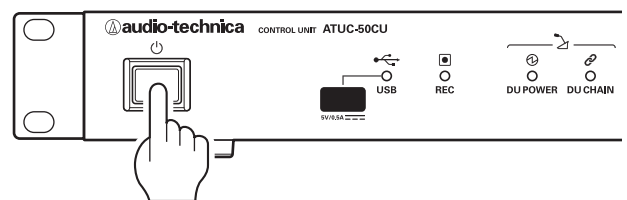
1. Download the latest firmware from our website and decompress the compressed file.
2. Copy the decompressed firmware to the root directory of your USB memory device (FAT16/32).
File name of the firmware
50IU: ATUC50IUFW.BIN
3. Check that the 50IUs are correctly connected to the 50CU / IRCU.



4. While the power of the 50CU / IRCU is off, connect the USB memory device to which you saved the firmware.



5. Turn on the power of the 50CU / IRCU.



6. Select "50IU", and then press the ENTER button.

```
FW Update mode
>50IU : VerUP Device
```

7. Check the post-update firmware version, and then press the ENTER button.

```
Update to 01.XX.XX
Push ENTER
```

Firmware version

8. The firmware update begins.

- When updating CU and IUs, please refer to "About operable combinations of ATUC-50 / ATUC-IR" (p. 9) and update with operable combinations.
- This updates all of the connected 50IUs. When the update is complete, the number of devices is displayed.
- Do not turn off the CU during update.

```
Updating! IU:001/003
Don't Power OFF!
```

9. Once the update has finished, turn off the power of the 50CU / IRCU.

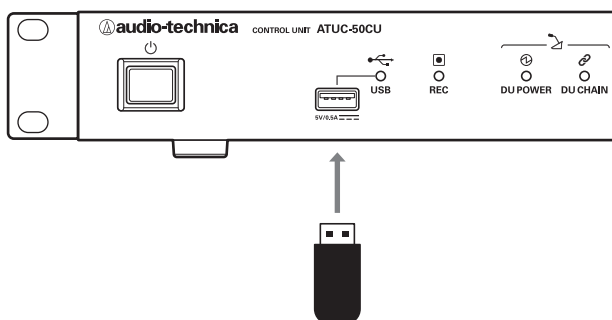
```
Completed!
Please Power OFF
```

10. Remove the USB memory device.
11. Turn on the power of the 50CU / IRCU.
12. Check the version of the 50IUs on Web Remote.
 - Check that the firmware version after updating is the latest.
13. Delete the firmware that you saved to the USB memory device.

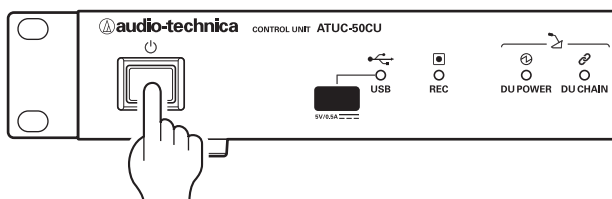
About the Firmware Update

Updating the 50CU (Version 1.6.0 or later to Version 2.1.0)

1. Download the latest firmware from our website and decompress the compressed file.
2. Copy the decompressed firmware to the root directory of your USB memory device (FAT16/32).
File name of the firmware
50CU: ATUC50FWV2.BIN
3. While the power of the 50CU is off, connect the USB memory device to which you saved the firmware.



4. Turn on the power of the 50CU.



5. Select "50CU", and then press the ENTER button.

```
FW Update mode
>50CU :VerUP Device
```

6. Check the current firmware version while it appears for about two seconds.

```
50CU Current FW Ver.
01.06.XX
```

7. Select "OK", and then press the ENTER button.

```
50CU Version UP
▶OK◀ CANCEL
```

8. Check the post-update firmware version, and then press the ENTER button.

Current firmware version Firmware version after updating

```
01.06.XX >> 02.01.00
Push ENTER
```

9. The firmware update begins.
 - Do not turn off the CU during update.

```
Now Updating 50CU
Don't Power OFF!
```

10. Once the update has finished, turn off the power of the 50CU.

```
Completed!
Please Power OFF
```

11. Remove the USB memory device.
12. Turn on the power of the 50CU.
13. Select "Set" > "Administrator" > "[2] System Info" > "03 FW Version".
 - Check that the firmware version after updating is the latest.
14. Delete the firmware that you saved to the USB memory device.

- Due to additional firmware functions and improvement details, Web Remote may possibly display and function incorrectly after updating. If this occurs, delete your history and cache on your web browser. Web Remote will then work properly.

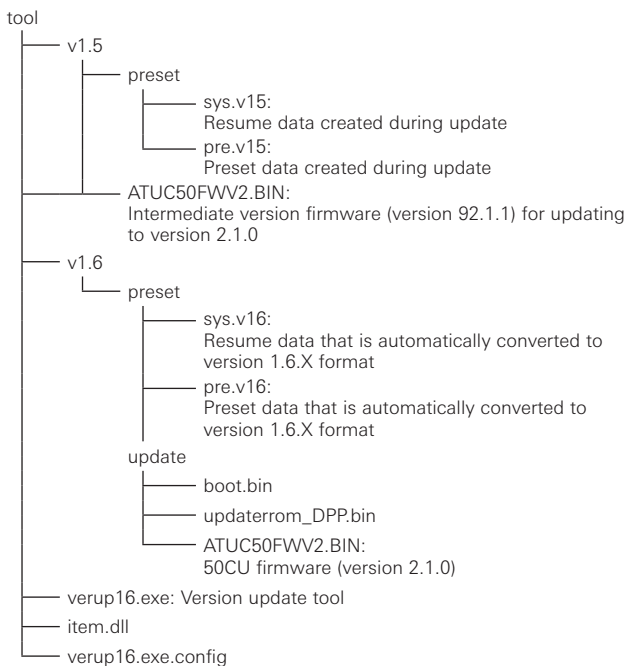
About the Firmware Update

Updating the 50CU (Version 1.5.5 or Earlier to Version 2.1.0)

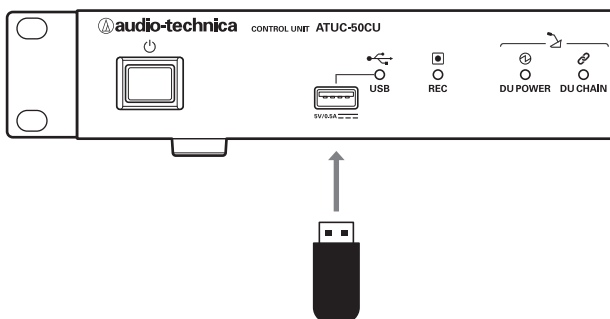
- The version update tool used here is a Windows application. Use a computer running a Windows 7, 8, or 10 operating system.
- Check the network settings at "Settings & Maintenance" → "System Info" on your web browser or at "Set" → "Administrator" → "[2] System Info" to enable control by the IP Remote with the version update tool.

1. Download the version update tool from our website and decompress the compressed file.

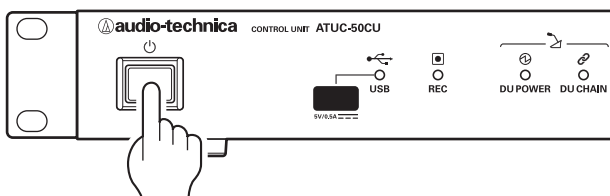
- The following folders are created.



2. Copy the firmware file (ATUC50FWV2.BIN) in the tool/v1.5/v92.1.1 folder to the root directory of your USB memory (FAT16/32).
3. While the power of the 50CU is off, connect the USB memory device to which you saved the firmware.



4. Turn on the power of the 50CU.



5. Select "50CU", and then press the ENTER button.

```
FW Update mode
>50CU :VerUP Device
```

6. Check the current firmware version while it appears for about two seconds.

```
50CU Current FW Ver.
01.XX.XX
```

7. Select "OK", and then press the ENTER button.

```
50CU Version UP
>OK< CANCEL
```

8. Check the post-update firmware version, and then press the ENTER button.

Current firmware version Firmware version after updating

```
01.XX.XX >> 92.01.01
Push ENTER
```

9. The firmware update begins.

- Do not turn off the CU during update.

```
Now Updating 50CU
Don't Power OFF!
```

10. Once the update has finished, turn off the power of the 50CU.

```
Completed!
Please Power OFF
```

11. Remove the USB memory device.

12. Turn on the power of the 50CU.

13. Select "Set" > "Administrator" > "[2] System Info" > "03 FW Version".

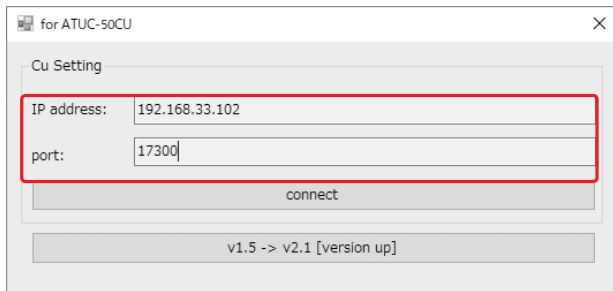
- Check that the firmware version after updating is Ver 92.1.1

14. Delete the firmware that you saved to the USB memory device.

15. Start the version update tool (verup16.exe), which is in the tool folder on a computer that can access the 50CU updated via the network.

About the Firmware Update

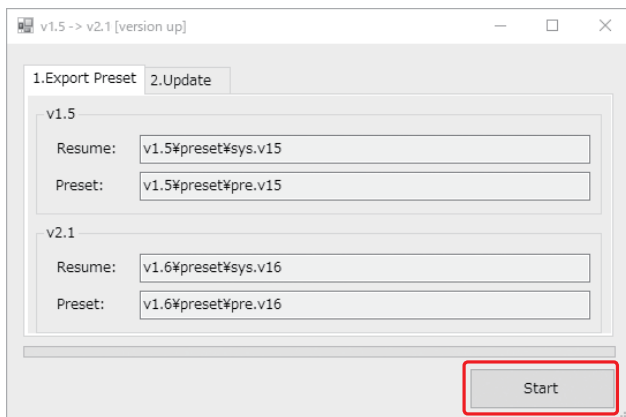
16. Set the IP address and port number for the updated 50CU.



17. Click [v1.5 -> v2.1 [version up]].

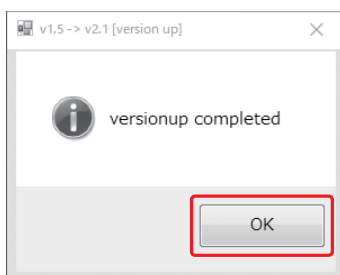
- The version update screen opens.

18. Click [Start] to start the update.



- The preset data and resume data are exported from the 50CU and saved in the tool/v1.5/preset folder.
- After export is complete, that data is automatically converted to the version 2.1.X format and saved in the tool/v1.6/preset folder.
- After converting the data, the firmware is updated to version 2.1.0.

19. When the update is complete, "versionup completed" appears in a popup window. Click [OK] to close the popup window.



20. Restart the 50CU manually.

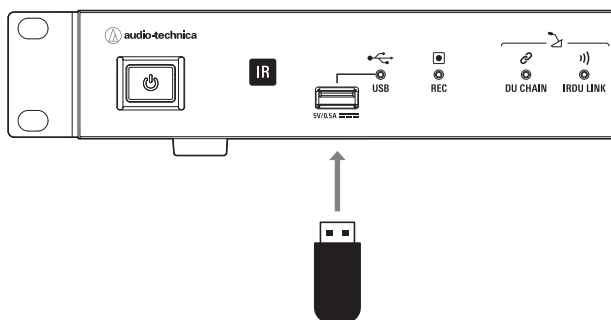
21. Select "Set" > "Administrator" > "[2] System Info" > "03 FW Version".

- Confirm that the firmware version after updating is version 2.1.0.

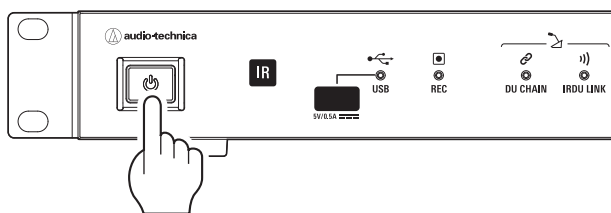
About the Firmware Update

Updating the IRCU CUFW

1. Download the latest firmware from our website and decompress the compressed file.
2. Copy the decompressed firmware to the root directory of your USB memory device (FAT16/32).
File name of the firmware
IRCUCUFW : ATUCIRFWV2.BIN
3. While the power of the IRCU is off, connect the USB memory device to which you saved the firmware.



4. Turn on the power of the IRCU.



5. Select "IR CUFW", and then press the ENTER button.

```
FW Update mode
>IR CUFW :Version UP
```

6. Check the current firmware version while it appears for about two seconds.

```
ATUC-IR CUFW Version
01.00.XX
```

7. Select "OK", and then press the ENTER button.

```
ATUC-IR CUFW Version
▶OK◀ CANCEL
```

8. Check the post-update firmware version, and then press the ENTER button.

Current firmware version Firmware version after updating

```
01.00.XX >> 01.01.00
Push ENTER
```

9. The firmware update begins.

- Do not turn off the IRCU during update.

```
Now Updating IR CUFW
Don't Power OFF!
```

10. Once the update has finished, turn off the power of the IRCU.

```
Completed!
Please Power OFF
```

11. Remove the USB memory device.
12. Turn on the power of the IRCU.
13. Select "Set" > "Administrator" > "[2] System Info" > "03 ATUC-IR CUFW Ver".
 - Check that the firmware version after updating is the latest.
14. Delete the firmware that you saved to the USB memory device.

- Due to additional firmware functions and improvement details, Web Remote may possibly display and function incorrectly after updating. If this occurs, delete your history and cache on your web browser. Web Remote will then work properly.

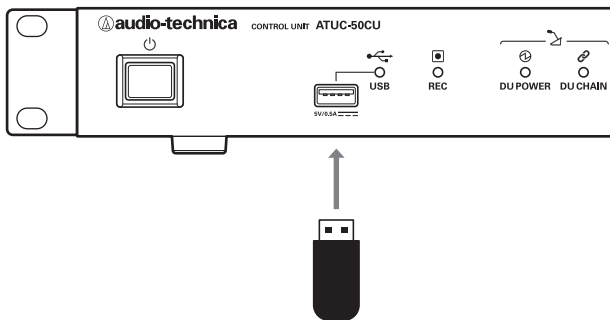
About the Forced Update

If some interference occurs, such as a power outage, while the firmware is updating and causes the update to not finish correctly, the 50CU / IRCU and 50IU may not operate normally.

If this happens, you can usually recover the 50CU / IRCU and 50IU by doing a forced firmware update, as explained below.

Forced Updates for the 50IU

1. Check that the 50IUs are correctly connected to the 50CU / IRCU.
2. While the power of the 50CU / IRCU is off, connect the USB memory device to which you saved the firmware.



3. While turning on the "VOL. UP" (pin number 17) and "VOL. DOWN" (pin number 18) of the 50IUs for which you want to do a forced update, turn on the power of the 50CU / IRCU.
4. Select "50IU", and then press the ENTER button.

```
FW Update mode
>50IU :VerUP Device
```

5. Check the post-update firmware version, and then press the ENTER button.

```
Update to 01.XX.XX
Push ENTER
```

Firmware version

6. The forced firmware update begins.
 - This updates all of the connected 50IUs. When the update is complete, the number of devices is displayed.
 - Do not turn off the CU during update.

```
Updating! IU:001/003
Don't Power OFF!
```

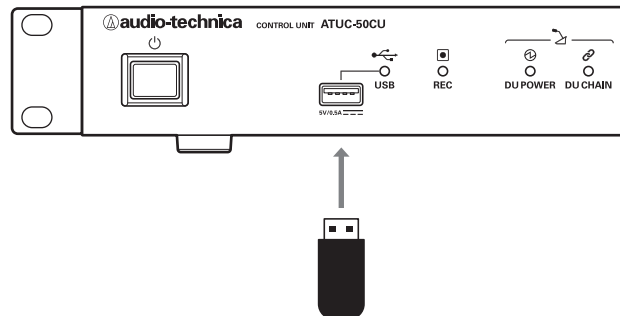
7. Once the forced update has finished, turn off the power of the 50CU / IRCU.

```
Completed!
Please Power OFF
```

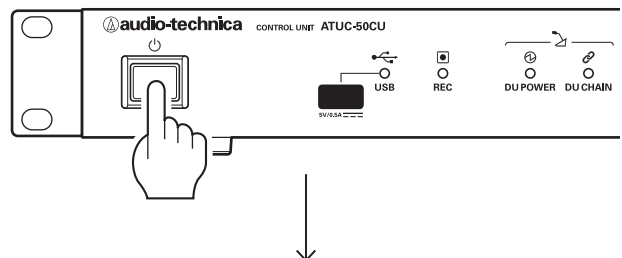
8. Remove the USB memory device.
9. Turn on the power of the 50CU / IRCU.
10. Check the version of the 50IUs on Web Remote.
 - Check the firmware version after updating.
11. Delete the firmware that you saved to the USB memory device.

Forced Update for the 50CU

1. While the power of the 50CU is off, connect the USB memory device to which you saved the firmware.



2. Turn on the power of the 50CU.



```
Forcible FW Update
```

3. The forced firmware update begins.

- Do not turn off the CU during update.

```
Now Updating 50CU
Don't Power OFF!
```

4. Once the update has finished, turn off the power of the 50CU.

```
Completed!
Please Power OFF
```

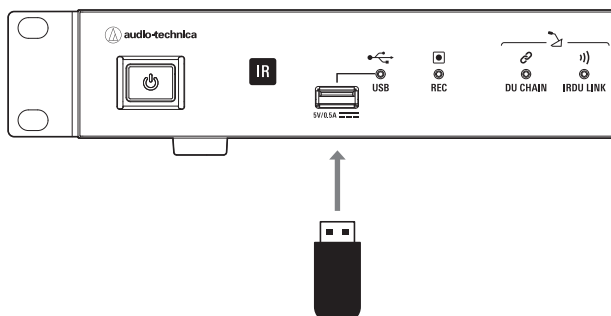
5. Remove the USB memory device.
6. Turn on the power of the 50CU.
7. Select "Set" > "Administrator" > "[2] System Info" > "03 FW Version".
 - Check the firmware version after updating.
8. Delete the firmware that you saved to the USB memory device.

- Due to additional firmware functions and improvement details, Web Remote may possibly display and function incorrectly after updating. If this occurs, delete your history and cache on your web browser. Web Remote will then work properly.

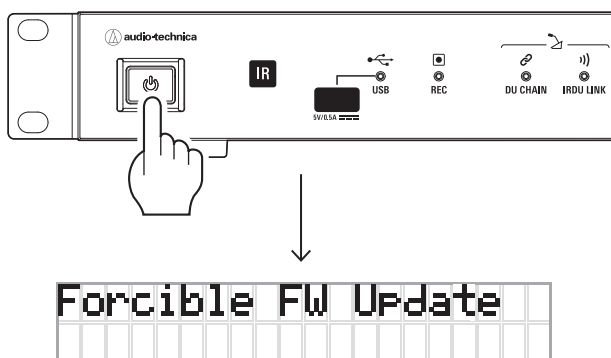
About the Forced Update

Forced Update for the IRCU CUFW

1. While the power of the IRCU is off, connect the USB memory device to which you saved the firmware.



2. Turn on the power of the IRCU.



3. The forced firmware update begins.

- Do not turn off the IRCU during update.

Now Updating IR CUFW
Don't Power OFF!

4. Once the update has finished, turn off the power of the IRCU.

Completed!
Please Power OFF

5. Remove the USB memory device.
6. Turn on the power of the IRCU.
7. Select "Set" > "Administrator" > "[2] System Info" > "03 ATUC-IR CUFW Ver".
 - Check the firmware version after updating.
8. Delete the firmware that you saved to the USB memory device.

- Due to additional firmware functions and improvement details, Web Remote may possibly display and function incorrectly after updating. If this occurs, delete your history and cache on your web browser. Web Remote will then work properly.

About operable combinations of ATUC-50 / ATUC-IR

Use ATUC-50 / ATUC-IR in the combinations shown in the following tables.

ATUC-50

| 50CU Ver 50DU/50INT/50IU Ver | 1.0.0 to 1.1.0 | 1.5.0 to 1.5.5 | 1.6.0 to 2.0.0 | 2.1.0 |
|---------------------------------|----------------|---------------------------|----------------|-------|
| 1.0.1 (50DU only) | ✓ | - | - | - |
| 1.5.0 | - | ✓ (50IU not supported) | ✓ | ✓ |
| 1.5.1 to 1.5.7 (50IU only) | - | - | ✓ | ✓ |
| 1.1.0 (50DUa only) | - | - | - | ✓ |

ATUC-IR

| IRCU Ver 50DU/IRDU/50INT/50IU Ver | CUFW: 1.0.3 IRFW: 1.0.1 | CUFW: 1.0.6 IRFW: 1.0.6 | CUFW: 1.1.0 IRFW: 1.0.6 |
|--------------------------------------|----------------------------|----------------------------|----------------------------|
| 50DU 1.0.1 | - | - | - |
| 50DU/50INT 1.5.0 | ✓ | ✓ | ✓ |
| 50IU 1.5.0 | - | - | - |
| 50IU 1.5.1 to 1.5.7 | ✓ | ✓ | ✓ |
| 50CU 1.0.0 to 1.1.0 | - | - | - |
| 50CU 1.5.0 to 1.5.6 | ✓ | - | - |
| 50CU 2.0.0 | - | ✓ | ✓ |
| IRDU 1.0.0 to 1.0.6 | ✓ | ✓ | ✓ |
| 50DUa 1.1.0 | - | - | ✓ |

Notes on the Past Firmware Releases

Additional Functions

IRCU Ver 1.0.6

- Up to 5 ATIR microphones (ATIR-T880 / ATIR-T850) can be connected.

50CU Ver 2.0.0

- We have increased the [Operator] accounts to two, so you can now assign individual user access to each account.
- You can now set user Access for the menus (Lvl/Rec/Pst) that appear in the CU's HOME screen. (Settings are configured via Web Remote.)
- You can now set whether microphones on DUs that have been assigned priority are turned on after the system is started.
- You can now select a mode for Mic ON Trigger so the microphone is turned on only while the talk button is being pressed on the DU.
- You can now undo [Permit Next] one time only in Request Talk Mode.
- You can now select from four microphones, BP892, AT898, AT899 and AT831, in the EQ library for Mic/Line 1 and 2.
- You can now mix the audio of output 1 with a preselected audio when all the DUs are in Talk OFF.
- You can now set [Can be Cut/Muted] individually for Mic/Line 1 and 2.
- You can now operate the [Interpretation] settings even during [Setup Conference].
- You can now set whether to register presets by linking to topology numbers or serial numbers.
- You can now set the header colors that appear with the device names.
- You can now turn the rear LEDs on or off.
- You can now select [De-Esser] in Dynamic Mode.
- You can now set the gain for the compressor.
- We have added the slot numbers to DU Talk Status Notifications so you can now identify the level meters by the serial number for the DUs in the notification on the IP Remote.
- You can now specify a particular device by topology numbers on the IP Remote.

50CU Ver 1.6.1

- We have increased the number of units that can be connected to DU Chain C/D ports from 25 units to 50, the same as A/B ports (this must be done in combination with the ATLK-EXT165).
- We have added BNE (Button Noise Elimination) mode settings to the global DU/IU settings.

50CU Ver 1.6.0

- The system now supports connection to integration units (ATUC-50IU).
- The maximum number of discussion units (ATUC-50DU), interpretation units (ATUC-50INT), or integration units (ATUC-50IU) that can be connected to each control unit (ATUC-50CU) has been increased from the current 50 units to 100 units. A maximum 300 units can be connected by using Audio-Technica LINK.
- You can now select the presets to upload when you start the system.
- You can now select to show or not show error messages on the display of the control unit (ATUC-50CU).
- We have added Easy Mode to the simultaneous interpretation system used by the interpretation units (ATUC-50INT). (Easy Mode: Automatically toggles the voice on the floor with the voice of the interpreter. For example, the voice on the floor is automatically output to Language group 1 by putting interpretation units (ATUC-50INT) that are outputting an interpreter's voice to Language group 1 on All Talk OFF.)
- You can now mix Language 1 or 2 with various combinations of inputs from Mic, Line, and Aux.
- You can now mix the Floor and Language 1 to 3 with various combinations of Audio Group 0 to 3.
- You can now bypass Gain Share in each Audio Group.
- You can now record Mic and Line input.
- We have added notification commands for CUT and MUTE to the IP Remote.

50DU/50CU Ver 1.5.0

- The ATUC-50 system now supports the interpretation unit (ATUC-50INT) and can do simultaneous interpretation for up to three languages.
- We have added a preset name to the preset import/export information.
- You can now select the preset name if you are selecting a preset using CU operations.
- The name of the preset is now displayed on the header of the web mode screen.
- We have added a menu for putting all DUs in Talk OFF automatically, even if one DU is in Talk ON. Previously, if all DUs were not in Talk OFF, settings could not be changed.
- We have made the settings for sensitivity and the settings for Mic 2 input operations independent for the speech detection function.
- The LED on the back of the DU can now be dimmed.
- We have added a function for locking the monitor channel selection buttons (fixing monitor to the floor channel) on the DU.
- We have added a display for CU Link Mode to System Info.

Notes on the Past Firmware Releases

Improvements

50CU Ver 2.0.0

- We have improved compatibility of commands used prior to version 1.6.5 on the IP Remote.

50IU Ver 1.5.6

- We have solved the rare problem of noise occurring when the data communication was temporarily interrupted.

50CU Ver 1.6.5

- We have solved the problem of the number of connected 50DUs and LINK Status of connected CUs not being recognized correctly, which occurred after temporary power loss.

50CU Ver 1.6.4

- We have solved the problem of a digital noise being output through the system while speaking through a DU that was connected to a daisy-chained CU, which occurred on rare occasions.
- We have solved the problem of the recording function not stopping after 24 hours of continuous use.
- We have solved the problem of [Active] not appearing in [Conference Manager] when the [Number of Open Mics] value changes.
- We have solved the problem of some warnings appearing even though the [CU Error Notice] setting is off.
- We have solved the problem of the IP command "gconf" being sent twice when Conference Mode is changed in third party programs.
- We have solved other minor problems also.

50IU Ver 1.5.4

- We have solved the problem of the talk LED on the IU remaining lit when the [Undo] button is pressed to return to "Requesting talk" from Talk ON while in Request Talk.
- We have solved the problem of the IU monitor channel not locking to a floor when [Monitor Channel Floor Lock] is on.

50CU Ver 1.6.3

- We have solved a noise output problem. On rare occasions, when the CU was turned on, digital noise would be output from the microphone.
- We have solved a status notification problem. On rare occasions, when the priority DU changed to Talk-Off status, a "gtalk" command would be output.
- We have solved an IP address assignment issue. When the DHCP server gave an IP address to the CU, the IP address would disappear from the DHCP server.
- We have solved a settings retention issue. On rare occasions, when the CU was restarted, settings such as IP Config Mode would revert to the default.

50CU Ver 1.6.1

- We have solved the problem of audio not being output from DUs under certain conditions.
- We have solved the problem of INT audio output to Language 3 not being output from DUs while Easy Mode is on.
- We have improved the operability of control of the master volume using GPI on the IU.
- We have solved the problem that occurs when the SFX function is set for GPI on the IU.
- We have solved the problem during simultaneous input to GPI when multiple IUs are used.
- We have increased the applicable value (0.4 dB higher) for MIC/LINE, AUX, and Return input.
- We have added slot number notification for Talk On DU on the IP Remote.

50IU Ver 1.5.1

- We have solved the problem related to operation of the number 21 pin (TALK ON (INVERT)) on the IU.

50CU Ver 1.6.0

- We have optimized the number of transmissions (from 2 times to 1 time) for notification commands for turning Talk on and off on the IP Remote.

50CU Ver 1.5.5

- We have improved the quality of the audio input from the DU set in Audio Group 3.
- We have corrected some bugs when editing multiple DUs at the same time.
- We have solved the problem in which the French display and Spanish display are the same in Web Remote.

50CU Ver 1.5.3

- We have solved the problem in which there was an LED on a DU that would not turn off, even if put in Talk OFF by a cut operation or "All Mic Off" from a DU that has priority.
- We have solved the problem of preset names becoming empty fields when updating from version 1.1.0 to version 1.5.0.
- We have stabilized DU button operations while DUs have been cut.

Notes on the Past Firmware Releases

50DU/50CU Ver 1.5.0

To use the "takon" Talk-Request On Request command through an externally controlled IP control, you need to edit the external control program. For details, refer to the "IP Control Protocol Specifications".

- We have stabilized operations for when there are several DUs that are in Talk ON at the same time and their microphones are set to turn on automatically when a voice is detected.
- We have corrected the system so that, whether operating from the CU or Web Remote, when a fixed IP address is set, an error does not occur, even when the gateway address is not set.
- We have stabilized operations when recording request commands are sent continuously in IP Remote.
- We have solved the problem in which you could not change the SFX playback level in IP Remote.
- We have solved the problem in which the parameters for SFX playback/cancel were disabled in the IP Remote.
- To prevent misuse of commands, we have eliminated the "takon" Talk-Request On Request command, and have added a new "prmit" Talk Permission Request command for IP control.
- We have solved the problem in which a part of the log was not output to downloaded logs.
- We have solved the problem in which the auto track function did not work when recording at a fast writing speed to a slow USB memory device.
- The panel lock function for the CU is now enabled after restarting.

50CU Ver 1.1.0

- We have stabilized system operations while the feedback suppressor is operating.
- Playback of speech files that are less than 2 seconds long via SFX is now supported.
- We have solved the problem in which the notification of the Talk ON command didn't work when the Talk ON/OFF was being sent continuously in IP remote.

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