

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

Table of Contents

Notes on the Firmware Release for the Digital Conference System ATUC-50 / ATUC-IR	1
Update Intended Devices	1
Improvements	1
About the Firmware Update	2
Precautions	2
Updating 50DUs	2
Updating the 50IU	3
Updating the 50CU (Version 4.0.1 or later to Version 4.1.3)	4
Updating the 50CU (Version 1.6.0 through 3.0.0 to Version 4.0.5)	5
Updating the 50CU (Version 1.5.5 or Earlier to Version 1.6.0)	6
Updating the IRCU CUFW	7
Updating the IRCU IRFW	8
Updating the IRDU	9
About the Forced Update	10
Forced Updates for the 50DUs	10
Forced Updates for the 50IU	11
Forced Update for the 50CU	11
Forced Update for the IRCU CUFW	12
Forced Updates for the IRCU IRFW	12
Forced Update of the IRDU	12
About operable combinations of ATUC-50 / ATUC-IR	13
ATUC-50	13
ATUC-IR	13
IP Control Protocol Specifications Cross-reference Table	14
Notes on the Past Firmware Releases	15
Additional Functions	15
Improvements	17
Software License Agreement	20
Software License Agreement of Audio-Technica Corporation	20

Update Intended Devices

Model	Update version	Comments
ATUC-50CU	Ver 4.1.3	
ATUC-50DU	Exempt	Continue using version 1.5.0
ATUC-50INT	Exempt	Continue using version 1.5.0 / 2.1.0
ATUC-50IU	Exempt	Continue using version 1.5.7
ATUC-IRCU CUFW	Ver 2.1.3	
ATUC-IRCU IRFW	Exempt	Continue using version 1.0.8
ATUC-IRDU	Exempt	Continue using version 1.0.15

- When updating 50CU / IRCU, please refer to "About operable combinations of ATUC-50 / ATUC-IR" (p.13) and confirm the operable combinations after updating.

Improvements

50CU Ver 4.1.3 / IRCU CUFW Ver 2.1.3

- We have solved the problem that occurred when performing IP command control to a DU that was in an unconnected state.

About the Firmware Update

Precautions

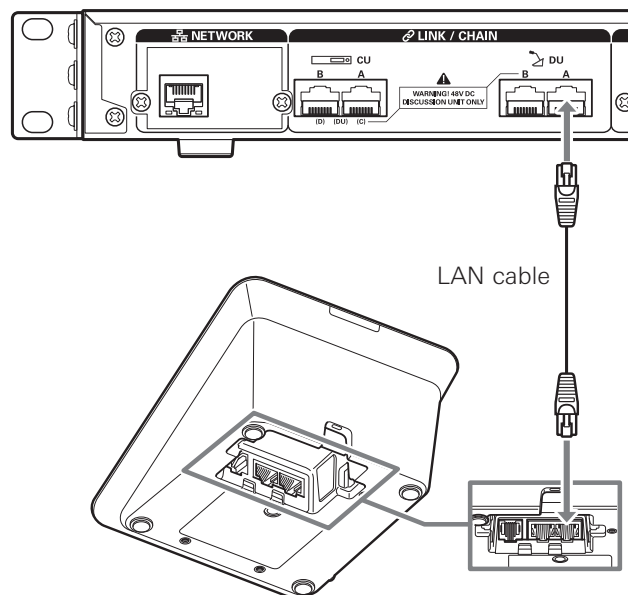
- Always download the latest firmware when doing firmware updates. Check our website (www.audio-technica.com/world_map/) for the latest information on firmware.
- Read the following procedures carefully when executing an update.
- While updating, do not perform any functions on the devices.
- While updating, do not turn off the power or unplug the power cable.
- While updating 50DU / 50IU, 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 50DUs

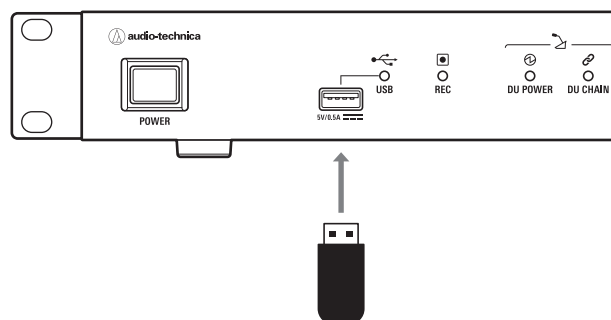
1. Download the latest firmware from our website and extract the compressed file.
2. Copy the extracted firmware to the root directory of your USB memory device (FAT16/32).

File name of the firmware
DU: ATUC50DUFW.BIN

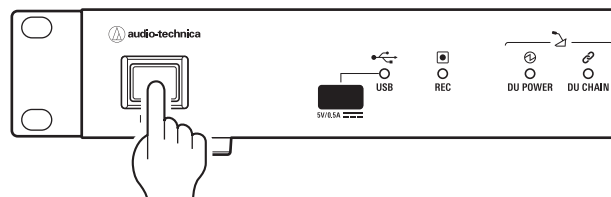
3. Check that the 50DUs are correctly connected to the 50CU / IRCU.



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 "50DU", and then press the ENTER button.

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

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

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

Firmware version

About the Firmware Update

8. The firmware update begins.

- When updating 50CU / IRCU and 50DUs, please refer to "About operable combinations of ATUC-50 / ATUC-IR" (p.13) and update with operable combinations.
- This updates all of the connected 50DUs. When the update is complete, the number of devices is displayed.
- Do not turn off the 50CU / IRCU during update.

Updating! DU: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.

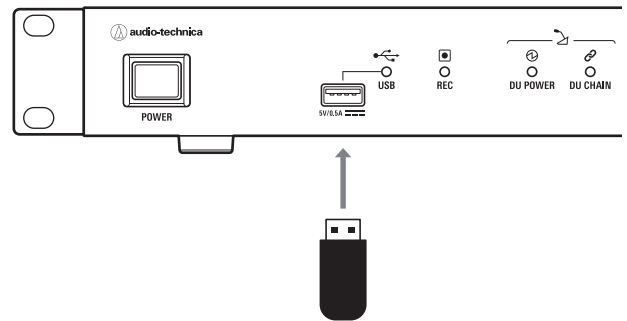
11. Turn on the power of the 50CU / IRCU.

12. Check the version of the 50DUs on Web Remote.

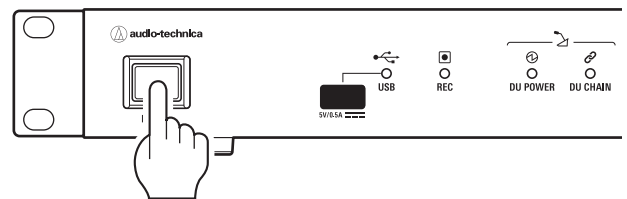
- Check that the firmware version after updating is the latest.

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

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 50CU / IRCU and 50IUs, please refer to "About operable combinations of ATUC-50 / ATUC-IR" (p.13) 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 50CU / IRCU 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.

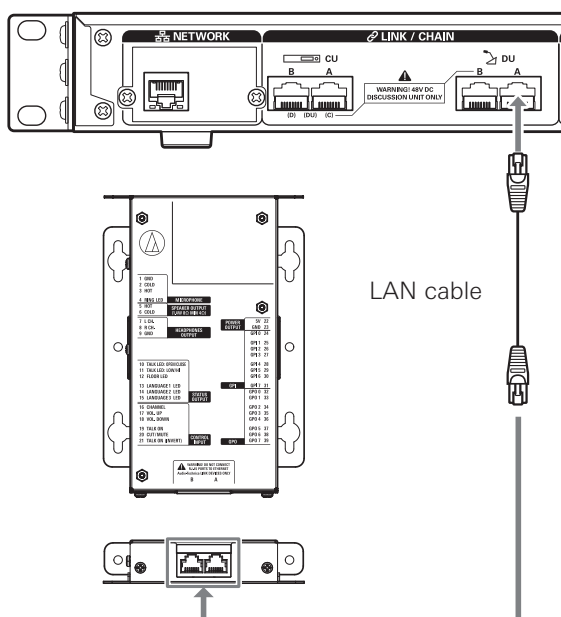
Updating the 50IU

1. Download the latest firmware from our website and extract the compressed file.

2. Copy the extracted 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.



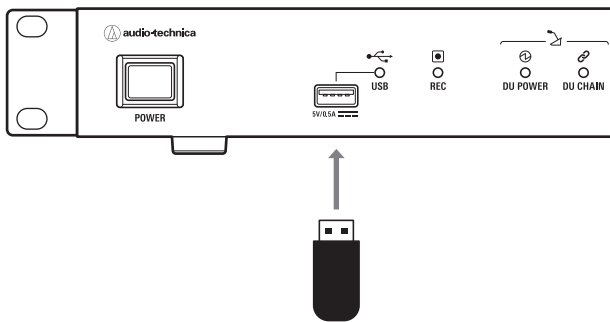
About the Firmware Update

Updating the 50CU (Version 4.0.1 or later to Version 4.1.3)

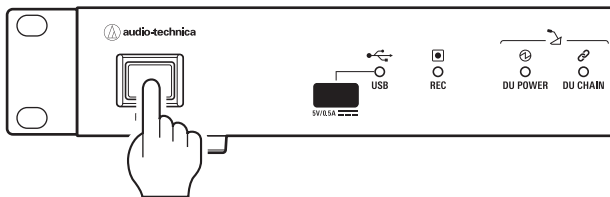
Updating directly from 50CU Ver 4.0.1, and earlier versions, to version 4.1.3 is not possible. First, you need to update to version 4.0.5. Refer to the following for how to update to version 4.0.5.

- "Updating the 50CU (Version 1.6.0 through 3.0.0 to Version 4.0.5)" (p.5)
- "Updating the 50CU (Version 1.5.5 or Earlier to Version 1.6.0)" (p.6)

1. Download the latest firmware from our website and extract the compressed file.
2. Copy the extracted firmware to the root directory of your USB memory device (FAT16/32).
File name of the firmware
50CU: ATUC50FWV3.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.
04.01.02
```

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

```
04.01.02 >> 04.01.03
Push ENTER
```

9. The firmware update begins.

- Do not turn off the 50CU 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
```

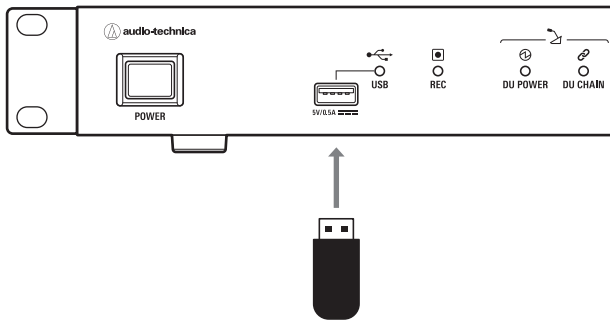
11. Remove the USB memory device.
12. Turn on the power of the 50CU.
13. Select "Set" > "Administrator" > "[2] System Info" > "03 FW Version".
 - Check that the firmware version after updating is the latest.
14. Delete the firmware that you saved to the USB memory device.

- You may need to clear your web browser's history and cache if the Web Remote is not correctly functioning after the firmware update.

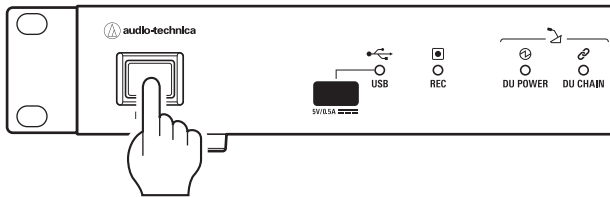
About the Firmware Update

Updating the 50CU (Version 1.6.0 through 3.0.0 to Version 4.0.5)

1. Download the firmware version 4.0.5 from our website and extract the compressed file.
2. Copy the extracted 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 >> 04.00.05
Push ENTER
```

9. The firmware update begins.

- Do not turn off the 50CU 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.

- You may need to clear your web browser's history and cache if the Web Remote is not correctly functioning after the firmware update.

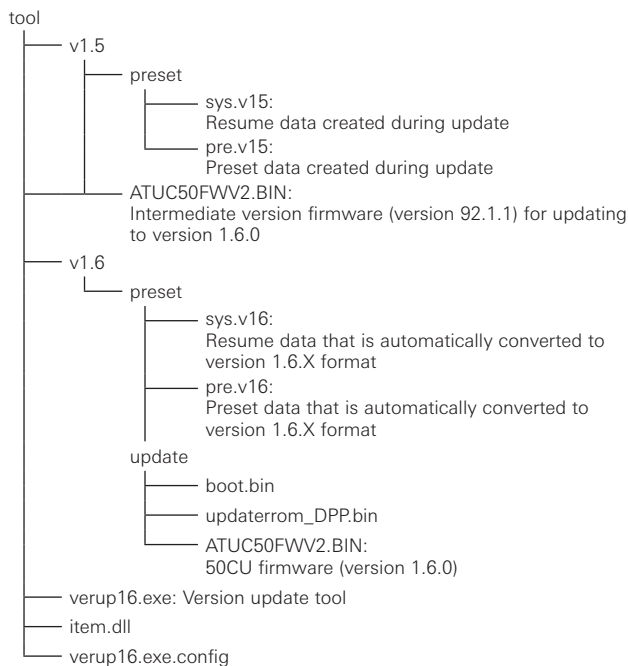
About the Firmware Update

Updating the 50CU (Version 1.5.5 or Earlier to Version 1.6.0)

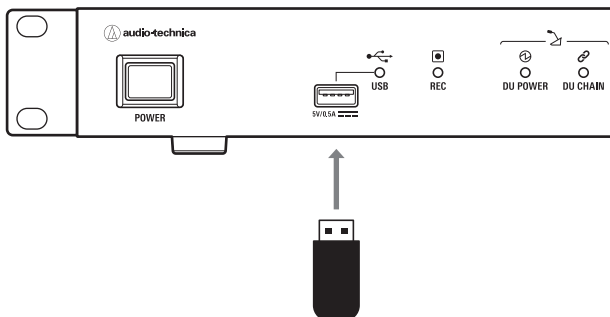
- The version update tool used here is a Windows application. Use a computer running a Windows 10 or later operating system.
- Check the network settings at "Settings & Maintenance" → "System Info" on your web browser or at "Set" → "Administrator" → "[2] System Info" to enable control by the IP Remote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

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

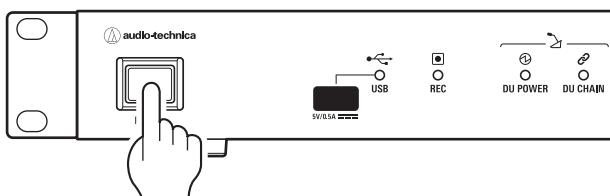
- The following folders are created.



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.

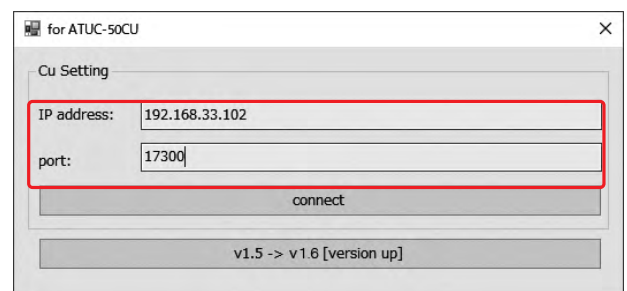
- Do not turn off the 50CU during update.

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

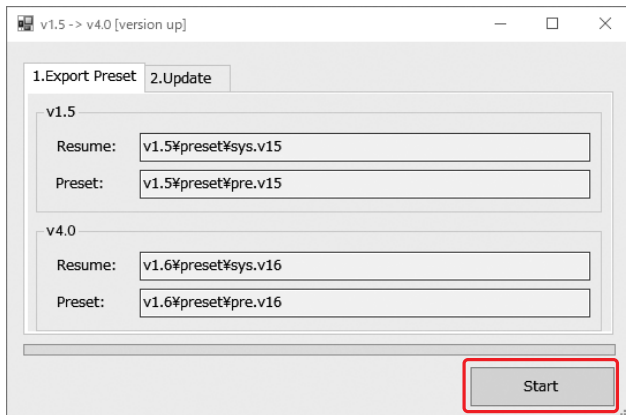


17. Click [v1.5 -> v1.6 [version up]].

- The version update screen opens.

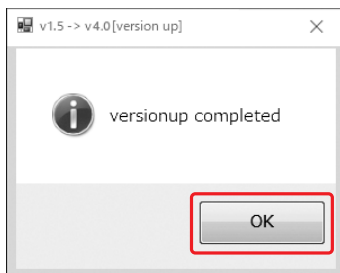
About the Firmware Update

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 1.6.0 and later format and saved in the tool/v1.6/preset folder.
- After converting the data, the firmware is updated to version 1.6.0.

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



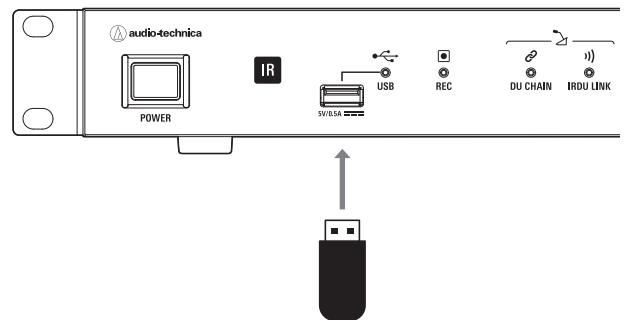
20. Restart the 50CU manually.

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

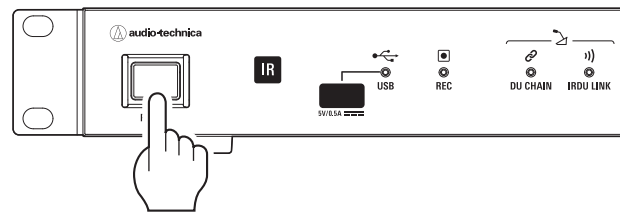
- Confirm that the firmware version after updating is version 1.6.0.

Updating the IRCU CUFW

1. Download the latest firmware from our website and extract the compressed file.
2. Copy the extracted firmware to the root directory of your USB memory device (FAT16/32).
File name of the firmware
IRCUCUFW : ATUCIRFW.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
XX.XX.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

```
XX.XX.XX >> 02.01.03
Push ENTER
```

About the Firmware Update

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".

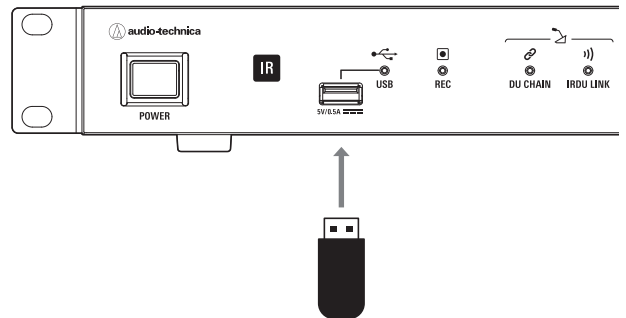
- Check that the firmware version after updating is the latest.

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

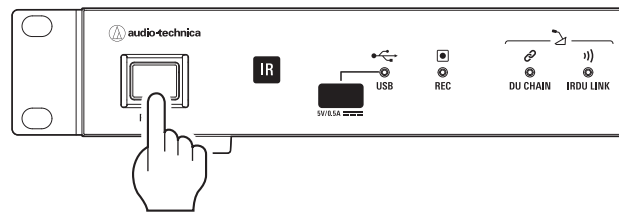
- You may need to clear your web browser's history and cache if the Web Remote is not correctly functioning after the firmware update.

Updating the IRCU IRFW

- Download the latest firmware from our website and extract the compressed file.
- Copy the extracted firmware to the root directory of your USB memory device (FAT16/32).
File name of the firmware
IRCUCIRFW : ATUCIRSUBFW.BIN
- 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 IRFW", and then press the ENTER button.

```
FW Update mode
>IR IRFW :Version Up
```

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

```
ATUC-IR IRFW Version
01.XX.XX
```

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

```
ATUC-IR IRFW Version
▶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 >> 01.00.08
Push ENTER
```

9. The firmware update begins.

- Do not turn off the IRCU during update.

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


About the Firmware Update

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



11. Remove the USB memory device.
12. Turn on the power of the IRCU.
13. Select "Set" > "Administrator" > "[2] System Info" > "04 ATUC-IR IRFW Ver".
- Check that the firmware version after updating is the latest.
14. Delete the firmware that you saved to the USB memory device.

- You may need to clear your web browser's history and cache if the Web Remote is not correctly functioning after the firmware update.

Updating the IRDU

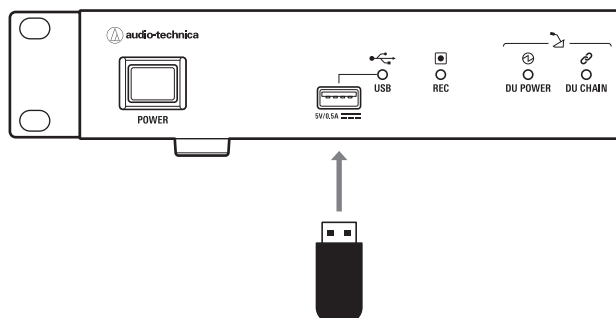
Contact your local Audio-Technica dealer for how to perform an update.

About the Forced Update

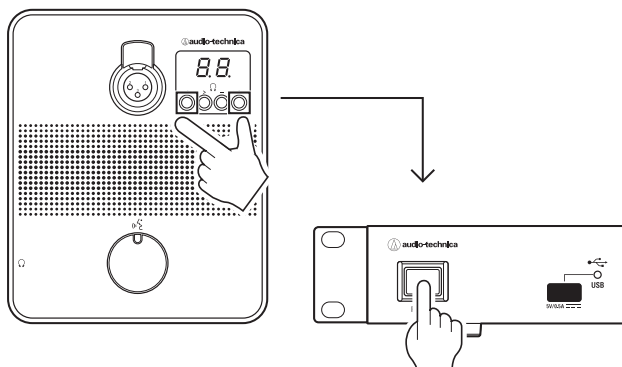
If some interference occurs, such as a power outage, while the firmware is updating and causes the update to not finish correctly, the device may not operate normally. If this happens, you can usually recover the device by doing a forced firmware update, as explained below.

Forced Updates for the 50DUs

1. Check that the 50DUs 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 pushing the outer two selection buttons of the 50DUs to which you want to do a force update, turn on the power of the 50CU / IRCU.



4. Select "50DU", and then press the ENTER button.

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

5. After checking the post-update firmware version, press ENTER.

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

Firmware version

6. The forced firmware update begins.

- This updates all of the connected 50DUs. When the update is complete, the number of devices is displayed.
- Do not turn off the 50CU / IRCU during update.

```
Updating! DU:01/03
Don't Power OFF!
```

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

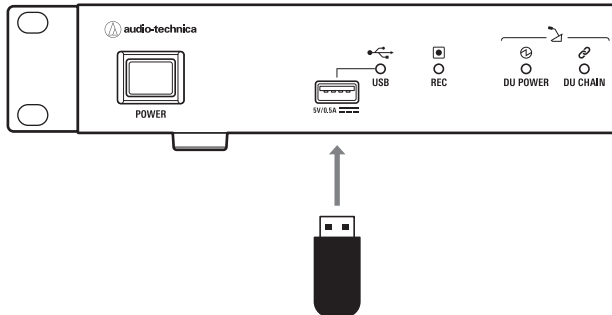
```
Completed!
Please Power OFF
```

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

About the Forced Update

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 50CU / IRCU during update.

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

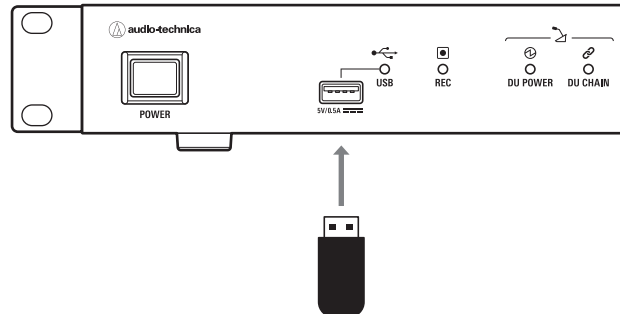
7. Once the forced update has finished, turn off the power of the 50CU / IRCU.

```
Completed!
Please Power OFF
```

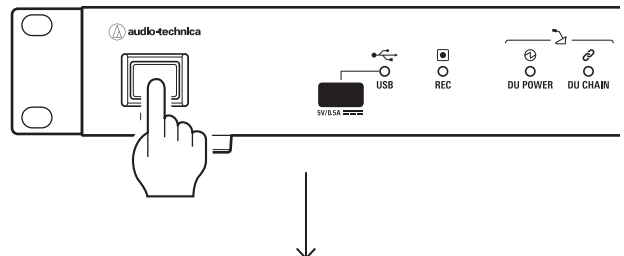
8. Remove the USB memory device.
9. Turn on the power of the 50CU / IRCU.
10. Check the version of the 50IUs on Web Remote.
 - Check the firmware version after updating.
11. Delete the firmware that you saved to the USB memory device.

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.



3. The forced firmware update begins.
 - Do not turn off the 50CU 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
```

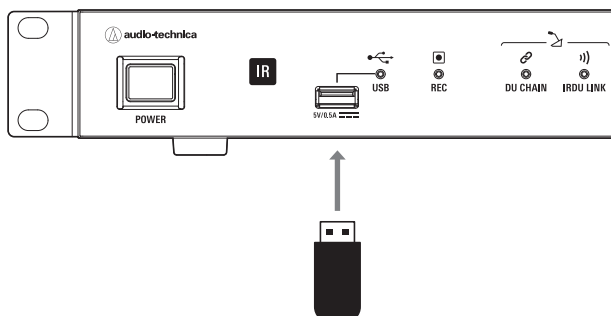
5. Remove the USB memory device.
6. Turn on the power of the 50CU.
7. Select "Set" > "Administrator" > "[2] System Info" > "03 FW Version".
 - Check the firmware version after updating.
8. Delete the firmware that you saved to the USB memory device.

• You may need to clear your web browser's history and cache if the Web Remote is not correctly functioning after the firmware update.

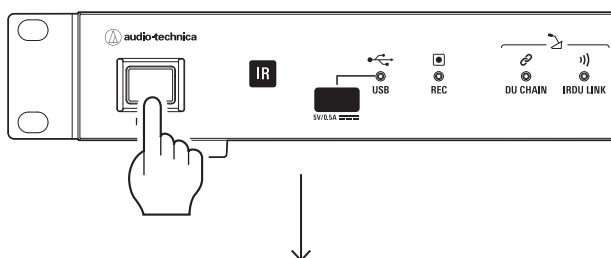
About the Forced Update

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.



Forcible FW Update

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.

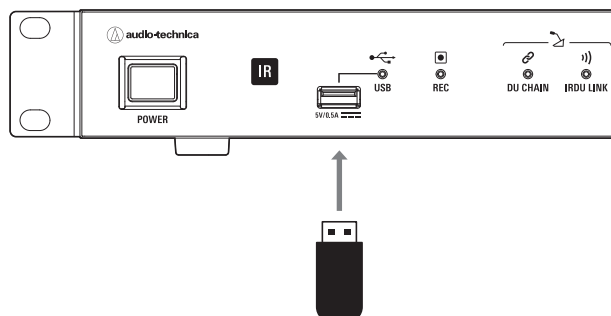
Completed!
Please Power OFF

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.

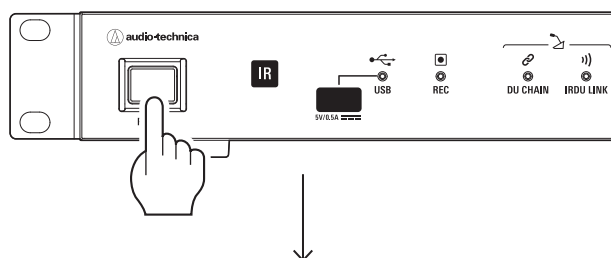
- You may need to clear your web browser's history and cache if the Web Remote is not correctly functioning after the firmware update.

Forced Updates for the IRCU IRFW

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.



Forcible FW Update

3. The forced firmware update begins.

- Do not turn off the IRCU during update.

Now Updating IR IRFW
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" > "04 ATUC-IR IRFW Ver".
 - Check the firmware version after updating.
8. Delete the firmware that you saved to the USB memory device.

- You may need to clear your web browser's history and cache if the Web Remote is not correctly functioning after the firmware update.

Forced Update of the IRDU

Contact your local Audio-Technica dealer for how to perform a forced update.

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 Model of connected device	1.0.0 to 1.1.0	1.5.0 to 1.5.5	1.6.0 to 1.6.5	2.1.0 to 4.1.3
50DU 1.0.1	✓	-	-	-
50DU/50INT 1.5.0/1.5.0	- / -	✓ / ✓	✓ / ✓	✓ / ✓
50IU 1.5.0 to 1.5.7	-	-	✓	✓
50DUa/50INT 1.1.0/2.1.0	- / -	- / ✓	- / ✓	✓ / ✓

When using multiple CU, all of the CU must be the same version.

ATUC-IR

IRCU Ver Model of connected device	CUFW: 1.0.1 IRFW: 1.0.3	CUFW: 1.0.6 IRFW: 1.0.6	CUFW: 1.1.0 to 2.1.3 IRFW: 1.0.6 to 1.0.8
50DU 1.0.1	-	-	-
50DU/50INT 1.5.0/1.5.0	✓ / ✓	✓ / ✓	✓ / ✓
50DUa/50INT 1.1.0/2.1.0	- / ✓	- / -	✓ / ✓
50IU 1.5.0 to 1.5.7	✓	✓	✓
IRDU 1.0.6 to 1.0.15	✓	✓	✓
50CU 1.0.0 to 1.5.5	-	-	-
50CU 1.6.0 to 1.6.5	✓	-	-
50CU 2.0.0 to 4.1.3	-	✓	✓

IP Control Protocol Specifications Cross-reference Table

Specifications	Specifications version	50CU FW version																		IRCU FW version											Modification
		1.0.0	1.5.0	1.6.0	1.6.1	1.6.3	1.6.4	1.6.5	2.0.0	2.1.0	2.1.1	2.1.2	3.0.0	4.0.1	4.0.5	4.1.0	4.1.1	4.1.2	4.1.3	1.0.0	1.0.6	1.1.0	1.1.1	1.1.2	1.1.3	2.0.0	2.1.0	2.1.1	2.1.2	2.1.3	
50CU	1.0.0	✓	✓	✓	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-	-	-	-	-	
	1.5.0	-	✓	✓	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-	-	-	-	Added 50INT	
	1.6.0	-	-	✓	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-	-	-	-	Added 50IU	
	1.6.1	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-	-	-	-	Added BNE function	
	1.6.4	-	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-	-	-	-	Changed to support batch changes, etc.	
	2.0.0	-	-	-	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-	-	-	-	Supported IRCU, various corrections	
IRCU	1.0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	
	1.0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	
50CU/IRCU	1.0.5	-	-	-	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	Integrated 50CU and IRCU specifications	
	1.0.6	-	-	-	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	Added notes	
	1.0.7	-	-	-	-	-	-	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	✓	✓	✓	✓	✓	✓	Added 50DUa	
	1.0.8	-	-	-	-	-	-	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	✓	✓	✓	✓	✓	✓	Added battery commands	
	1.0.9	-	-	-	-	-	-	-	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	✓	✓	✓	✓	✓	Added Floor Filter Setting Request command	
	1.1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	✓	✓	-	-	-	-	-	-	✓	✓	✓	✓	Added IU GPO and VU LED ALL LED OFF Request Command	
	1.1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	✓	-	-	-	-	-	-	-	✓	✓	✓	Added Topology Weight Time Change/Acquisition Request	
	1.1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	✓	-	-	-	-	-	-	-	✓	✓	✓	Added processing sequence / modified recording time ranges	

Notes on the Past Firmware Releases

Additional Functions

50CU Ver 4.1.1 / IRCU CUFW Ver 2.1.1

- We have added items to the CU startup settings.

50CU Ver 4.1.0 / IRCU CUFW Ver 2.1.0

- We have added commands to the IP controls that can turn off LEDs on a group of multiple voting units (ATUC-VU).
- We have added commands to the IP controls that can open GPO pins on a group of pins on multiple integration units (ATUC-50IU).

50CU Ver 4.0.1

- The firmware update is due to changes on the circuit board.
- We have unified the firmware file format for compatibility between older and newer versions.

50CU Ver 3.0.0 / IRCU CUFW Ver 2.0.0

- ATUC-50 system update will support a revision of the audio board. This version is backward-compatible with the previous audio board.
- We have added EQ ON/OFF function for floor audio to IP control protocol commands.

IRCU CUFW Ver 1.1.3 / IRCU IRFW Ver 1.0.8

- We have added IP control commands for IRDU battery status changes.

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).

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.

Notes on the Past Firmware Releases

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 4.1.2 / IRCU CUFW Ver 2.1.2

- We have solved the problem that 50CU/IRCU freezes when USB recording is started and stopped repeatedly.

50CU Ver 4.1.1 / IRCU CUFW Ver 2.1.1

- We have solved the problem in which normal startup was not possible due to the system configuration.
- We have solved the problem in which the DU display was corrupted due to settings in the IRCU.
- We have solved the problem of freezing caused by reception of an illegal IP control command in the IRCU.

50CU Ver 4.1.0

- We have solved the problem in which operation problems occurred with the Auto relative to Mic2 Input function.

IRCU CUFW Ver 2.1.0

- We have solved the rare problem in which the IRDU's Boot up and the Talk ON function did not operate.
- We have solved the problem in which operation problems occurred with the Auto relative to Mic2 Input function.

IRDU Ver 1.0.15

- We have solved the problem, caused by usage conditions, in which the battery level was not correctly displayed in the Web Remote screen.

50CU Ver 4.0.5

- We have solved minor problems.

IRDU Ver 1.0.14

- We have solved a rare problem with detecting microphones.

50CU Ver 3.0.0 / IRCU CUFW Ver 2.0.0

- We have solved the rare problem that the extension unit would not notify the primary unit of the change in status when the status of a DU connected with an extension unit changes.

IRDU Ver 1.0.13

- We have solved minor problems.

IRDU Ver 1.0.12

- We have solved minor problems.

IRCU CUFW Ver 1.1.3 / IRCU IRFW Ver 1.0.8

- We have solved minor problems.

IRDU Ver 1.0.11

- We have solved the rare problem in which the IRDU's TALK ON/TALK OFF status did not match the IRDU's LED status when Voice Trigger was set.
- We have solved the problem of the audio from the IRDU speaker being output at unintended timing.
- We have solved the problem that the monitor CH display on the IRDU and the audio from the headphone monitor differ when the monitor CH lock is set.
- We have solved minor problems in the automatic Device ID assignment mode.

IRCU CUFW Ver 1.1.2 / IRCU IRFW Ver 1.0.7

- We have solved the problem of recognition failure by the Locate application after extended use.
- We have solved the problem of failure to receive IP control commands, caused by traffic conditions on the IP control network, after extended use.
- We have solved the rare problem of noise occurring on audio from IRDU and ATIR series microphones.
- We have solved the problem of the output levels of channels 2 to 4 not being reflected in the Dante output.
- We have solved the problem of IRDU audio being output to unintended systems during TALK ON.
- We have solved the problem of the infrared channel setting used for ATIR microphones not being reflected correctly by performing Recall Preset.
- We have solved the rare problem of audio from ATIR microphones not being output after performing Recall Preset.
- We have solved the rare problem of poor matching during IRDU Talk ON after performing Recall Preset.
- We have solved the rare problem of being unable to turn IRDU Talk ON/OFF control after performing Recall Preset.
- We have solved other minor problems also.

IRDU Ver 1.0.10

- We have solved the rare problem of audio not being output after starting.
- We have solved the rare problem of recognition failure by the IRCU when voltage is low.

50CU Ver 2.1.2

- We have solved the problem of recognition failure by the Locate application during extended periods of use.
- We have solved the problem of failure to receive IP control commands, caused by traffic conditions on the IP control network, during extended periods of use.
- We have solved the rare problem of trouble with talk operations when a USB memory is selected as the location to which to write the internal log.

Notes on the Past Firmware Releases

IRCU Ver 1.1.1

- We have solved the rare problem of noise occurring, after extended use, on audio from IRDU and ATIR microphones.
- We have solved the rare problem of IRDU not performing Talk ON when an infrared transmission error occurs while trigger mode is set to "Voice".
- We have solved the rare problem of IRDU not performing Talk ON due to the number of people speaking, NOM settings, or open infrared channel conditions while trigger mode is set to "Voice".
- We have solved the problem of the "Remote Talk On" icon on DUs/IUs set to Talk ON changing when sort on the DU list is changed from "Active" to "Wired"/"Wireless".

50CU Ver 2.1.1

- We have solved the problem of audio, on rare occasion, not being output from DUs during TALK ON operation.

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.

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.

Notes on the Past Firmware Releases

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.

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.

Software License Agreement

Software License Agreement of Audio-Technica Corporation

This Software License Agreement (hereinafter referred to as the "Agreement") is a legal agreement between you, the customer, and Audio-Technica Corporation ("Audio-Technica") with respect to the software downloaded from the website of Audio-Technica (hereinafter referred to as the "Software"). You shall, when downloading the Software from the Audio-Technica website, installing the downloaded Software, or using it, carefully read the following provisions without fail. You shall be considered to agree to this Agreement when you use the Software. You may not install and use the Software in the case where you do not agree to all the provisions of this Agreement.

Article 1. License and Copyright etc.

- (1) Audio-Technica shall grant to you the right to use the program and data file consisting of the Software and the upgraded programs and data file thereof, which can be provided to you with certain conditions in the future (hereinafter referred to as the "Licensed Program") within the scope specified in this Agreement.
- (2) The Licensed Program is protected by the copyright and treaty concerning the copyright and other laws and treaties concerning the intellectual property right. The ownership, copyright, and any and all other intellectual property rights to and in the Licensed Program shall vest in Audio-Technica or Audio-Technica's licensor.
- (3) The right to and in the data generated by using the Licensed Program shall vest in you.

Article 2. Scope of Use

The scope of your use of the Licensed Program shall be as stipulated below.

- (1) You may use the Licensed Program in your computer.
- (2) You may reproduce the Licensed Program only for the purpose of backing up the data input by you; provided, however, that the reproduction shall not be used simultaneously in any other computer, whether possessed by you or any third party, except when used to recover the backup data.

Article 3. Restriction of Use

You shall, when using the Licensed Program, comply with the following matters.

- (1) You may transfer the Licensed Program to any other computer possessed by you; provided, however, that in such a case the Licensed Program shall be completely removed from the computer from which the Licensed Program is transferred.
- (2) You shall not distribute or transmit the Licensed Program.
- (3) You shall not lend, lease, or pledge collateral on the Licensed Program.
- (4) You shall neither reverse-engineer, decompile, disassemble, modify, or alter the Licensed Program nor make software derived from the Software.

Article 4. Limitation of Warranty

- (1) Audio-Technica shall in no event warrant, explicitly or implicitly, the Licensed Program's merchantability, fitness for a particular purpose, or non-infringement of third-party rights. Furthermore, Audio-Technica shall in no event warrant that the Licensed Program operates properly and shall in no event warrant that any failure or defect in the Licensed Program can be modified.
- (2) Any and all information or advice provided by Audio-Technica, orally or in writing, etc., shall not be considered to provide a new warranty or expand the scope of the warranty specified in this article in any sense whatsoever.

Article 5. Limitation of Liability

- (1) You shall be liable for any and all direct and indirect damages (such as loss of data, computer failure, cessation of business, and complaints from any third party) and risks arising out of the use of the Licensed Program.
- (2) Audio-Technica shall, in no event, be liable to you or any other third party for any direct, indirect, special, incidental or consequential loss or damage including but not limited to any loss of business values, suspension of business, loss or damage arising out of computer failure, or any other commercial loss or damage.

Article 6. Assignment of Licensed Program

You may assign the right to use the Licensed Program to any third party; provided, however, that in this case you shall completely delete the Licensed Program from the recording media of your computer and shall not possess any reproduction of the Licensed Program, and the assignee shall agree to any and all provisions of this Agreement.

Article 7. Cancellation and Termination of This Agreement

- (1) In the case where you violate any of the provisions of this Agreement, Audio-Technica may cancel this Agreement with immediate effect without demand.
- (2) In the case where this Agreement is canceled, you shall completely delete the Licensed Program from the recording media of your computer and destroy the reproduction of the Licensed Program.
- (3) Audio-Technica shall be exempt from any and all responsibilities for any damage, etc. which you or any third party suffer because it becomes impossible to use the Licensed Program as a result of the cancellation of this Agreement.

Article 8. Governing Law and Miscellaneous Provisions

- (1) This Agreement shall be governed by the laws of Japan.
- (2) It is agreed that any dispute arising in relation to this Agreement or the Licensed Program shall be subject to the jurisdiction of the Tokyo District Court or Tokyo Summary Court in the first instance, depending on the amount sued for.

