

**BLUSTREAM**  
**BLUARC**  
**HDMI**  
**Bluetooth**  
**Audio**  
**Extractor**  
**and mbedder**



# BLUSTREAM BLUARC HDMI Bluetooth Audio Extractor and Embedder Instruction Manual

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**BLUSTREAM BLUARC HDMI Bluetooth Audio Extractor and Embedder**



## Specifications

- **Product:** BLUARC
- **Features:** MCU, web GUI, Bluetooth chipset
- **Default Username:** bloodstream
- **Default Password:** 1234
- **Default IP Address:** 192.168.0.200
- **Default Domain Name:** <http://bluarc.local/>

## FAQs

- **Q: What should I do if I can't log back into the BLUARC after the firmware update?**
  - **A:** You can perform a reset via Telnet or RS-232 by following the steps provided in the manual.
- **Q: How long does it take for the MCU firmware update to complete?**
  - **A:** The MCU firmware update process takes about 1 minute to finish.

## Introduction

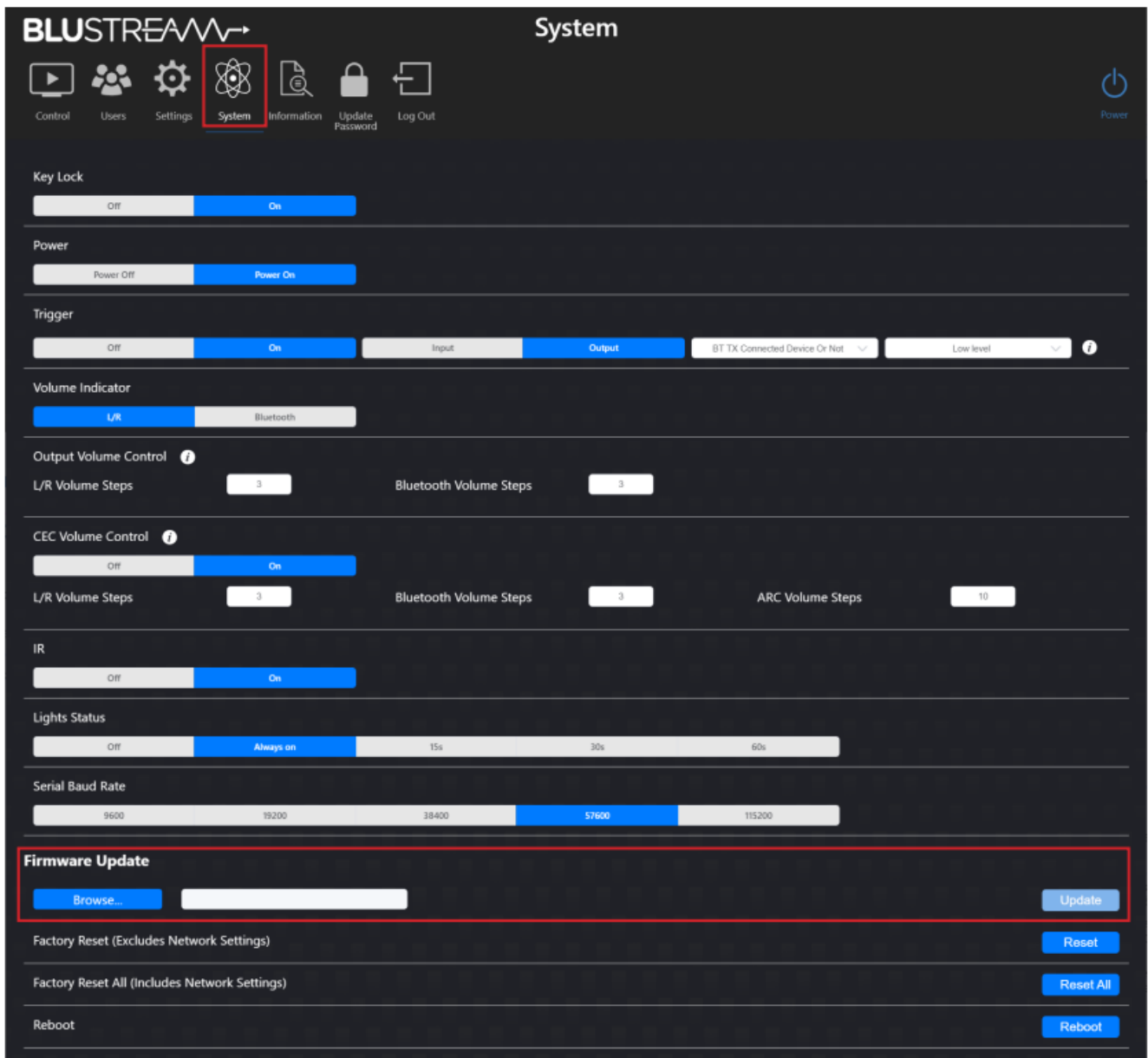
- The following instructions are for updating the MCU, web GUI, and Bluetooth chipset featured in the BLUARC.
- Please follow the process step by step.
- Should any issues arise, please contact Blustream technical support in your region for assistance.

## MCU Firmware Update

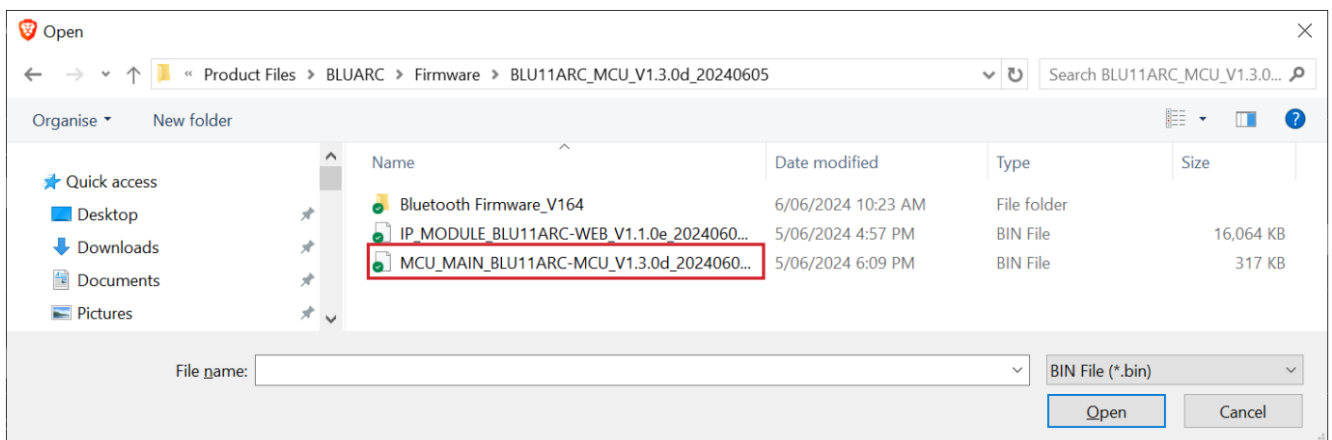
1. The MCU firmware update is carried out via the web GUI of the BLUARC. You will need to connect to the IP address or domain name of the BLUARC in your web browser. By default the BLUARC is set to DHCP in which case your network router will assign it an IP address, however, if a DHCP server (eg: network router) is not installed, the unit IP address will revert to the below details: Default Username is: bloodstream Default Password is: 1234 Default IP Address is: 192.168.0.200 You can also access the BLUARC via its default

domain name: <http://bluarc.local/>

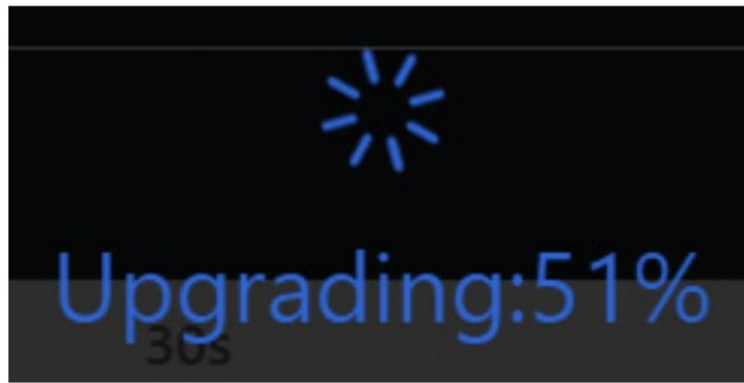
2. Once logged in as the admin, navigate to the system page by pressing the System icon in the top menu bar.



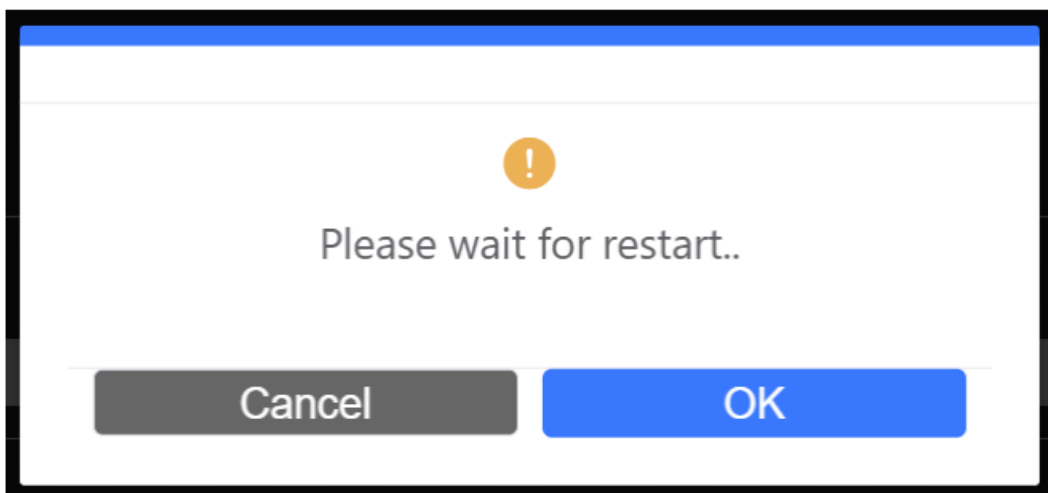
3. Navigate to the Firmware Update section toward the bottom of the page and select the Browser... button:



4. Browse your PC locate the correct BLUARC MCU firmware file and select Open.
5. Select the corresponding Update button to begin the firmware update process.
6. The web GUI will show an upgrading progress percentage. Please do not navigate away from your browser or carry out any other tasks on the BLUARC at this time. Also, ensure power is not disconnected during the firmware update process. The MCU firmware takes about 1 minute to update.



7. Once complete, the web GUI will pop up with a restart message. The pop-up message will disappear after a moment and the device should restart automatically. Once restarted, the web GUI will take you back to the login screen.



- **Reset via Telnet or RS-232** If you are unable to log back into the BLUARC, you will need to carry out a reset procedure via Telnet or RS-232. The following steps take you through this via Telnet. RS-232 is carried out in the same way however using an RS-232 cable to the 3-pin Phoenix port on the BLUARC.

8. Connect to the IP address of BLUARC via Telnet. Any Telnet software should be appropriate (eg: SSCOM, UART Assist, Hercules, etc...). Once connected, you should receive a welcome message as follows:

```
=====
Welcome to BLU11ARC Terminal Control System
FW Version: V1.3.0d

Type "HELP" For More Information
=====
```

9. Send the RESET ALL command via Telnet. Note that you may need to include a carriage return and linefeed at the end of the RESET ALL command. Depending on Telnet software, this may be `\r\n`, `,` or other special control characters. Please note the RESET ALL command will default the network settings so these may need to be reconfigured after the reset is complete.

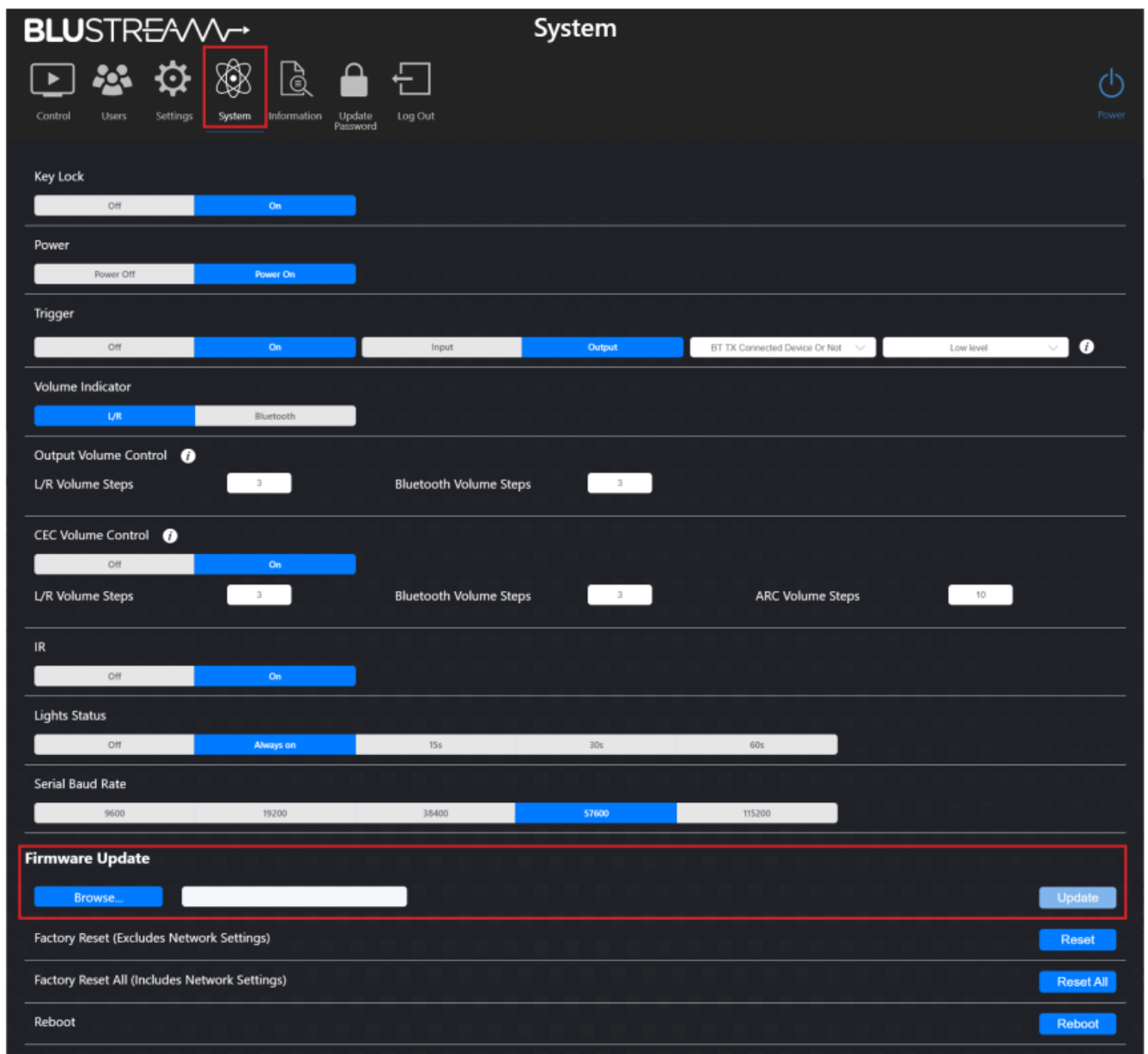
```
RESET ALL
Sure to reset system and network settings to default? Type "yes" after next prompt to confirm...
BLU11ARC>
```

10. You will see the API feedback "Sure to reset system and network settings to default? Type "yes" after the next prompt to confirm...". Send the YES command and the BLUARC will factory reset. Note this will take approximately 2 minutes to factory reset.

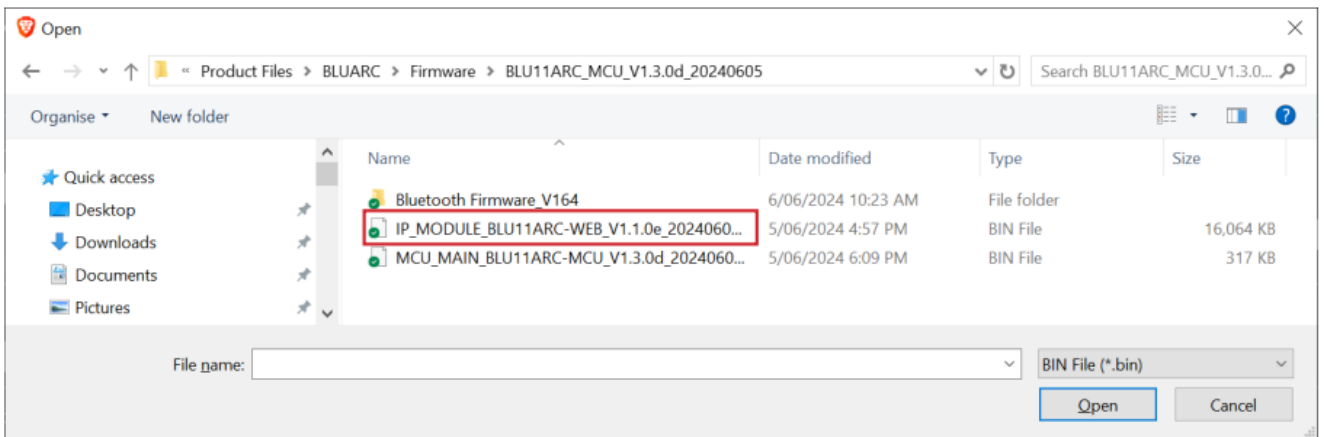
```
BLU11ARC> YES
[SUCCESS]Doing reset, Please wait a moment...
```

## Web GUI Firmware Update

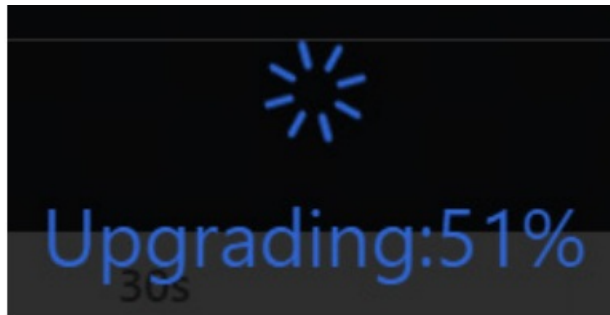
11. The Web GUI firmware update is carried out via the Web GUI of the BLUARC. You will need to connect to the IP address or domain name of the BLUARC in your web browser. By default the BLUARC is set to DHCP in which case your network router will assign it an IP address, however, if a DHCP server (eg: network router) is not installed, the unit IP address will revert to the below details:
  - **The default Username is:** blustream
  - **The default Password is:** 1234
  - **The default IP Address is:** 192.168.0.200
  - You can also access the BLUARC via its default domain name: <http://bluarc.local/>.
12. Once logged in as the admin, navigate to the system page by pressing the System icon in the top menu bar.



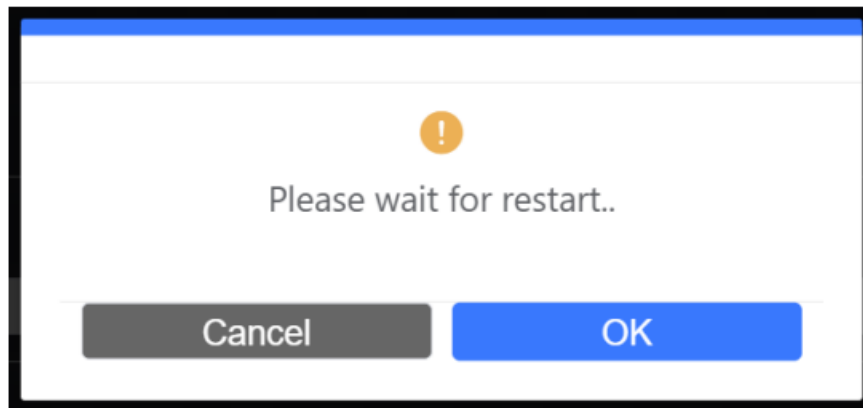
13. Navigate to the Firmware Update section toward the bottom of the page and select the Browse... button:



14. Browse your PC locate the correct BLUARC Web GUI firmware file and select Open.
15. Select the corresponding Update button to begin the firmware update process.
16. The web GUI will show an upgrading progress percentage. Please do not navigate away from your browser or carry out any other tasks on the BLUARC at this time. Also, ensure power is not disconnected during the firmware update process. The web GUI firmware takes about 6 minutes to update.

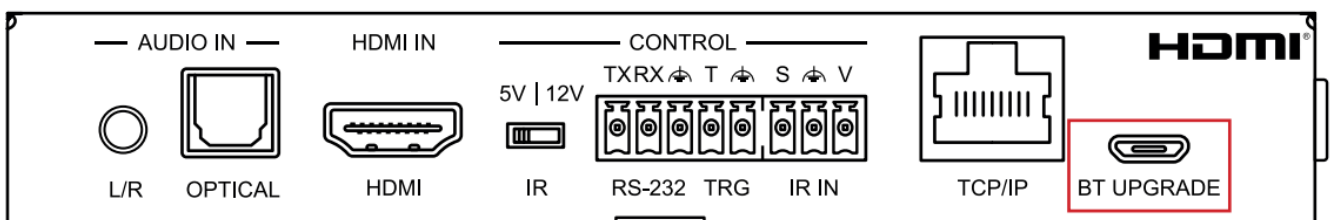


17. Once complete, the web GUI will pop up with a restart message. The pop-up message will disappear after a moment and the device should restart automatically. Once restarted, the web GUI will take you back to the login screen.



### Bluetooth Firmware Update

18. To update the Bluetooth firmware of the BLUARC you will need a Micro USB to USB-A cable. Connect your PC to the micro BT UPGRADE port of the BLUARC with the micro USB cable.



19. After connecting the USB cable, power on the BLUARC.
20. Connect to the IP address of BLUARC via Telnet or RS-232. Once connected, you should receive a welcome message as follows:

```
=====
Welcome to BLU11ARC Terminal Control System
FW Version: V1.3.0d

Type "HELP" For More Information
=====
```

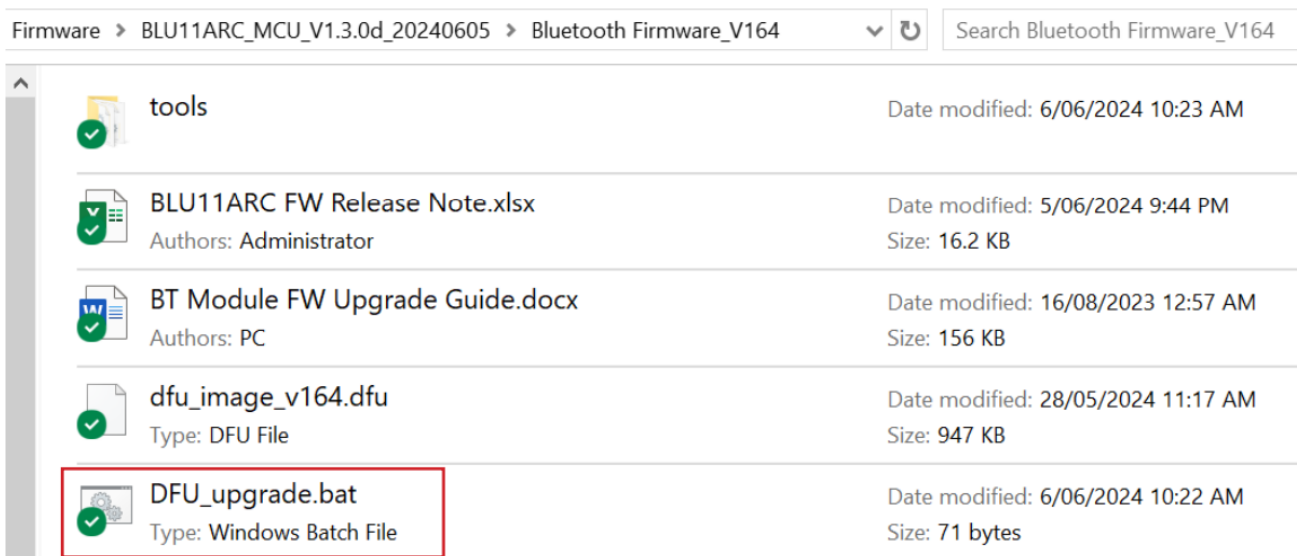
21. Send the following API command via Telnet. Note that you may need to include a carriage return and linefeed at the end of the RESET command. Depending on Telnet software, this may be `\r\n`, `\n`, or other special control characters.

- **DG 8 AT+DU** You will see the API feedback “Waiting for Bluetooth module upgrade.”

```
DG 8 AT+DU
Waiting for Bluetooth module upgrade

BLUARC>
```

22. Browse your PC to the Bluetooth firmware folder and open the file `DFU_upgrade.bat`.



23. The Bluetooth update program will open. Ensure that the last line displays “Found 1 device. Do you want to upgrade all? (y/n):”

```
C:\Windows\system32\cmd.exe

C:\Users\kevin\Downloads\BLU11ARC\Firmware\MCU\BLU11ARC_MCU_V1.3.0d_20240605\Bluetooth Firmware_V164>tools\HidDfuCmd.exe
upgrade 0x0a12 0xffff 0 0 dfu_image_v164.dfu
tools\HidDfuCmd.exe, version 2.6.3.832 Release
Copyright 2012-2016 Qualcomm Technologies International, Ltd.

Found 1 devices. Do you want to upgrade all? (y/n)
```

24. Type “Y” and press enter. The Bluetooth module firmware upgrade will start. The console will show the Bluetooth firmware update progress. This will take around 1 minute.

```
C:\Windows\system32\cmd.exe

C:\Users\kevin\Downloads\BLU11ARC\Firmware\MCU\BLU11ARC_MCU_V1.3.0d_20240605\Bluetooth Firmware_V164>tools\HidDfuCmd.exe
upgrade 0x0a12 0xffff 0 0 dfu_image_v164.dfu
tools\HidDfuCmd.exe, version 2.6.3.832 Release
Copyright 2012-2016 Qualcomm Technologies International, Ltd.

Found 1 devices. Do you want to upgrade all? (y/n) y
62% completed
```

25. After the firmware update finishes, the program will show “upgrade succeeded”.



```
C:\Windows\system32\cmd.exe

C:\Users\kevin\Downloads\BLU11ARC\Firmware\MCU\BLU11ARC_MCU_V1.3.0d_20240605\Bluetooth Firmware_V164>tools\HidDfuCmd.exe
upgrade 0x0a12 0xffff 0 0 dfu_image_v164.dfu
tools\HidDfuCmd.exe, version 2.6.3.832 Release
Copyright 2012-2016 Qualcomm Technologies International, Ltd.

Found 1 devices. Do you want to upgrade all? (y/n) y
upgrade succeeded
Device reset succeeded

C:\Users\kevin\Downloads\BLU11ARC\Firmware\MCU\BLU11ARC_MCU_V1.3.0d_20240605\Bluetooth Firmware_V164>pause
Press any key to continue . . .
```

### Checking Firmware Version

26. You can check the current firmware version by accessing the Information page within the web GUI. The firmware versions listed should match the firmware versions that were updated onto the BLUARC.

**BLUSTREAM**

Information

Control

Users

Settings

System

Information

Update Password

Log Out

Status

Model	BLUARC
MCU Version	V1.3.0d
GUI Version	V1.1.0e
Bluetooth Version	V1.6.4
Domain Name	BLU11ARC
IP Address	192.168.7.27
Subnet Mask	255.255.255.0
Gateway	192.168.7.1
MAC Address	34:D0:B8:27:27:B7
Temperature	35.3°C
Uptime	0000:01:52:03

27. The firmware update process is complete.

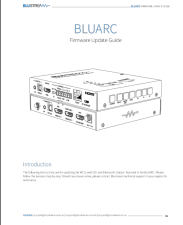
### Contact:

- [support@blustream.com.au](mailto:support@blustream.com.au)
- [support@blustream-us.com](mailto:support@blustream-us.com)



- [support@blustream.co.uk](mailto:support@blustream.co.uk).

## Documents / Resources

 The image shows the cover of a document titled 'BLUARC Firmware Update Guide'. It features a photograph of the BLUARC device, which is a small, rectangular electronic unit with various ports and a display screen. The text 'BLUARC' is prominently displayed at the top, with 'Firmware Update Guide' below it. There is also a small 'Introduction' section visible at the bottom.	<p><a href="#">BLUSTREAM BLUARC HDMI Bluetooth Audio Extractor and Embedder</a> [pdf] Instruction Manual</p> <p>BLUARC HDMI Bluetooth Audio Extractor and Embedder, BLUARC, HDMI Bluetooth Audio Extractor and Embedder, Bluetooth Audio Extractor and Embedder, Extractor and Embedder, Embedder</p>
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## References

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