

### 3.10 Update firmware and/or bootloader



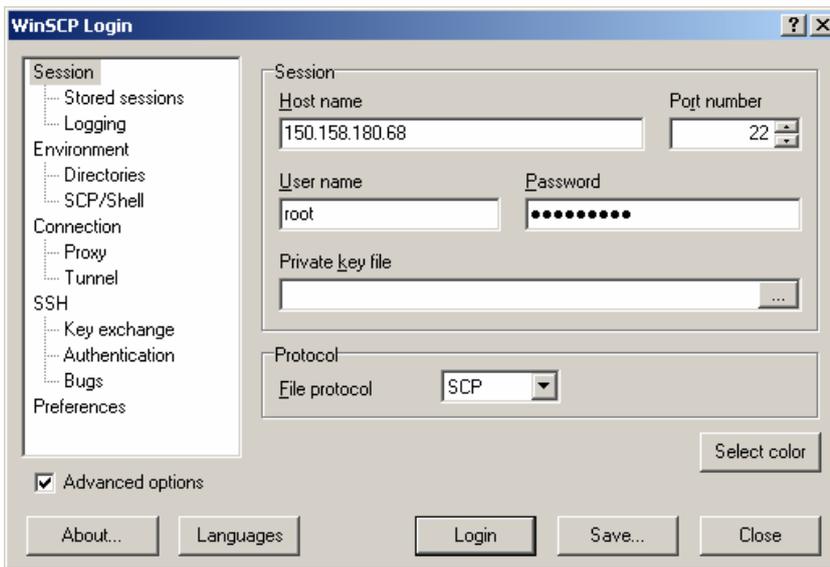
**The following firmware versions have to be updated by saving additional files to the projector using the WinSCP application: build 58 to 67!**

**These files are packed into a zip-file GH2\_fmwapgrade.zip. Make sure to get this file!**

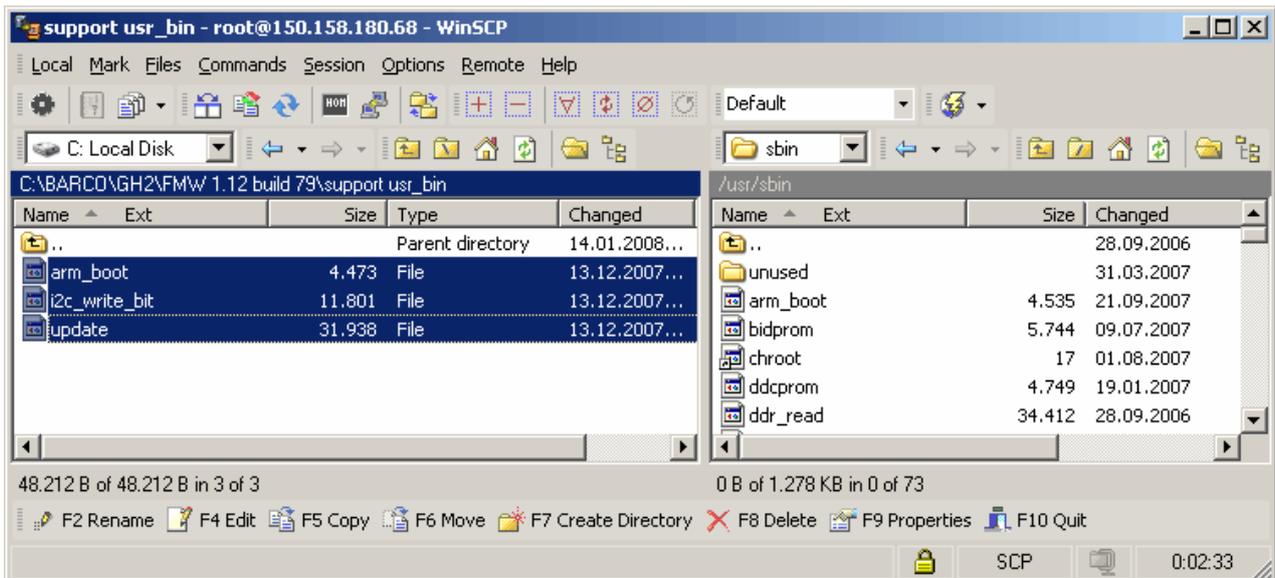
To save these additional files to the projector proceed as follows:

Unzip GH2\_fmwapgrade.zip to a local folder.

Start Winscp, and connect to the projector by entering its IP address into the host field and using the scp protocol. Click on **Login**.



A dialog opens. On its left side, the file system of the PC is displayed, on the right side the one of the projector.



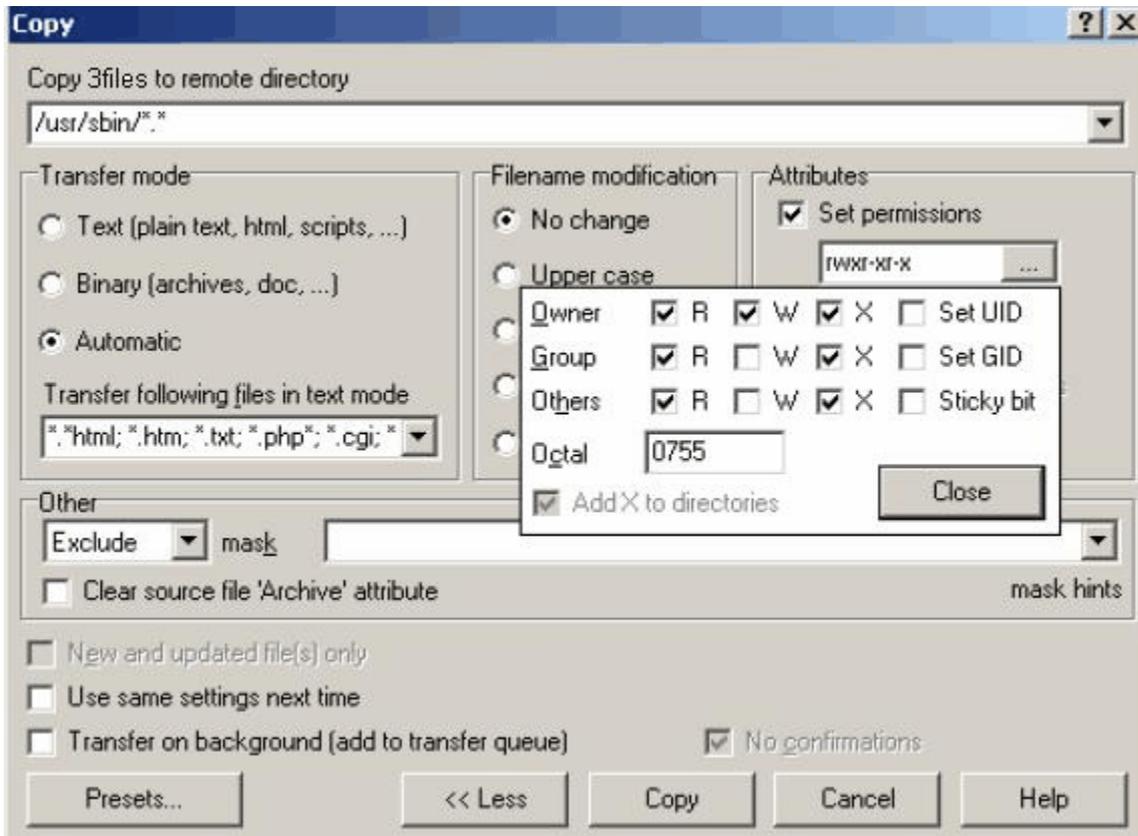
On the left side (local PC) navigate to the folder the zip-file GH2\_fmwapgrade.zip has been unpacked to.

On the right side, navigate to the folder ... /usr/sbin

Select the files arm\_boot, I2C\_write\_bit, and update

To copy the files to the projector, click on F5 (see explanation of the function keys at the bottom of the WinSCP window)

The following dialog opens where the permissions have to be set to be allowed copying and replacing files:



Adjust the permission settings according the picture above and click on **Copy**. In case files with identical file names already exist on the projector you are asked to overwrite these files. Confirm overwriting with OK.

Now you can start with updating the firmware.

The update of the bootloader requires expert privileges. If only a firmware update has to be done, service privileges are sufficient.

Enter the IP Address of the respective projection system into a web browser. The home page of the web application is displayed.

Log in with the required privileges.

On the navigation bar, navigate to and click on **Firmware**.

The following page shows up.

The screenshot shows the Barco | OverView D2 web interface. At the top, there is a red navigation bar with 'Barco Security & Monitoring' on the left and 'You are currently logged in at service level. Log in' on the right. Below the navigation bar, the main content area is titled 'Barco | OverView D2' and 'Firmware'. On the left side, there is a sidebar menu with the following items: Home, Projector, Lamps, Inputs, Color & Brightness, Runtimes, System Health, Firmware, Hardware, and Maintenance. The main content area is divided into three sections: 'Firmware Version Details', 'Software Integrity Status', and 'Software Update'. The 'Firmware Version Details' section contains a table with the following data:

Firmware Version Details	
Firmware	01.03
Build Info	0060
FPGA	00CB
Ramdisk	2.4.28
Kernel	2.4.32-2.6
iIU	AA.21
U-Boot	1.1.4.1.3
OV2 Disk	00.72
OEM Flash	not available
API	0.6.0
Web GUI	00.39

The 'Software Integrity Status' section shows 'Software Integrity Status' with a checked checkbox and the text 'ok'. The 'Software Update' section contains the following text: 'For updating firmware or u-boot, the projector needs to be switched to a updating mode. This includes shutting down the projector to standby and preparing the firmware for updating. To switch the projector to updating mode, press 'Prepare Updating' button.' Below this text is a 'Prepare Updating' button. At the bottom right of the interface, there is a red Barco logo with the tagline 'Visibly yours'.



**Make sure that you have a valid firmware and/or bootloader file (\*.bin file)**

Click on the button **Prepare Updating**.

If the projector is running, it switches to standby. All firmware processes are stopped. These sequences are indicated (make sure that the checkbox **Keep this page alive** is ticked)

Carefully read the information on the page and act accordingly (be patient, do not switch off or reboot, etc.)

The screenshot shows the Barco | OverView D2 web interface. At the top left, the URL 'barco.com' is displayed. A red navigation bar contains 'Barco Security & Monitoring' on the left and 'You are currently logged in at **service level**. [Log in](#)' on the right. The main content area features a header 'Barco | OverView D2' and a status message 'Projector is busy...'. Below this is a checkbox labeled 'Keep this page alive' which is checked. A message states: 'Projector is busy... This page will keep updating, until the projector is ready again. Please be patient...'. On the left side, there is a sidebar menu with the following items: 'Home', 'Projector', 'Lamps', 'Inputs', 'Color & Brightness', 'Runtimes', 'System Health', 'Firmware', 'Hardware', 'Maintenance', and 'Logging'. The 'Maintenance' item is expanded. At the bottom right, the Barco logo is visible with the tagline 'Visibly yours'.



## Barco | OverView D2

### Firmware

*Keep this page alive*

Firmware processes are being stopped. Please hold on....

Do not switch off or reboot the projector! It will reboot automatically after updating. Refreshing the webpage can take some time during update, so please be patient! You might even see an error message from your browser, that the host, the projector, is unreachable. This is because of the projector already rebooting.

### Barco | OverView D2

- › Home
- › Projector
- › Lamps
- › Inputs
- › Color & Brightness
- › Runtimes
- › System Health
- › Firmware
- › Hardware
- › Maintenance



Subsequently (in the expert mode) the following page pops up



## Barco | OverView D2

- > Home
- > Projector
- > Lamps
- > Inputs
- > Color & Brightness
- > Runtimes
- > System Health
- > Firmware
- > Hardware
- > Maintenance
  - > Logging
- > Command Line

## Barco | OverView D2

## Firmware

## Firmware Update

Do not switch off or reboot the projector! It will reboot automatically after updating. Refreshing the webpage can take some time during update, so please be patient!

You might even see an error message from your browser, that the host, the projector, is unreachable. This is because of the projector already rebooting.

To **update Firmware**, locate the proper update file on your harddisk and press 'Update Firmware' button.


## U-Boot Update

**Attention! Updating U-Boot is a risky procedure! A failed U-Boot update can cause the projector to refuse starting!**

To **update U-Boot**, locate the proper update file on your harddisk and press 'Update U-Boot' button.


## Cancel Software Update

If you don't want to upgrade any software, you need to reboot the projector now.

Press 'Cancel Software Update' button to Reboot and reboot the projector now.



**In service mode, the section of the U-Boot Update (bootloader) is not visible**

Click on the respective button to perform the required update or to abort the procedure.

If the (firmware or bootloader) update is continued, the standard Windows dialog to choose for a file is displayed.

Browse to and select the update file. The update continues.



## Barco | OverView D2

### Firmware

Keep this page alive

Update is still running....

### Barco | OverView D2

- › Home
- › Projector
- › Lamps
- › Inputs
- › Color & Brightness
- › Runtimes
- › System Health

Do not switch off or reboot the projector! It will reboot automatically after updating. Refreshing the webpage can take some time during update, so please be patient! You might even see an error message from your browser, that the host, the projector, is unreachable. This is because of the projector already rebooting.



You are informed about a successful update. Subsequently the projector automatically reboots.



## Barco | OverView D2

### Firmware

Update succeeded.

### Barco | OverView D2

- › Home
- › Projector
- › Lamps
- › Inputs
- › Color & Brightness
- › Runtimes
- › System Health





## Barco | OverView D2

Projector is booting...

*Keep this page alive*

Projector is booting...  
This page will keep updating, until the projector is completely up.

Please be patient....

### Barco | OverView D2

- › Home
- › Projector
- › Lamps
- › Inputs
- › Color & Brightness
- › Runtimes
- › System Health



Depending if **Autostart** is enabled or not, the projector will start or remain in standby until started manually.

## 4 Graphical user interface

To address a projection system, proceed as follows:

Enter the IP address of the projection module into a web browser.

The home page of the projector will be displayed with operator privileges. To log in as e.g. service use the link on the red top bar.

The screenshot displays the Barco | OverView D2 web interface. At the top, a red navigation bar contains the text 'barco.com' on the left and 'Barco Security & Monitoring' and 'You are currently logged in at operator level. Log in' on the right. Below this bar, the main content area is titled 'Barco | OverView D2' and 'Home'. A welcome message reads 'Welcome to Barco OverView D2. You are currently logged in at operator level. Log in'. A login form is present with a 'Name' field containing 'service' and an empty 'Password' field. Below the form are 'Log in' and 'Reset' buttons. On the left side, a navigation menu lists: Home, Projector, Lamps, Inputs, Color & Brightness, Runtimes, and System Health. The Barco logo and 'Visibly yours' tagline are located in the bottom right corner.

In the following chapter the individual pages of the service (expert) mode are introduced and explained. Entries which are not visible or editable in the operator mode are written in italics.

The pages are opened via a click on the respective entry on the navigation bar. The content of the selected and activated page is displayed in the right part of the window; the name of the page shows up as read heading.