

## Firmware Update Procedures

### PTC-145

This document provides procedures for updating the PTC-145 HD Tracking PTZ Camera

### **Updating the PTC-145 Camera Firmware (ARM V2.1.6 2024-04-29/ SOC V2.2.1 2024-04-26/ AF Version V1.0.4 2023-10-27)**

#### **What items you should prepare before updating the firmware**

- The latest PTC-145 firmware update zip file x1.  
The latest firmware zip file can be downloaded from the PTC-145 product page of the Datavideo official website <https://www.datavideo.com/product/PTC-145>. After the downloaded firmware zip file is unzipped, you can see two firmware files.
  - **Camera & AF firmware files:** D-PTC145\_NDI\_SY20X\_V2.2.1\_R\_20240426\_AF\_V1.0.4\_R\_20231027.mrg
  - **MCU firmware:** PTC145\_ARM\_V2.1.6\_20240429.mrg
- PTC-145 camera x 1
- 12V power adapter x 1
- Laptop or PC x 1
- Ethernet Cable x 1

This document describes how to perform firmware update on a **Windows** computer.

## **System Connection Diagram**



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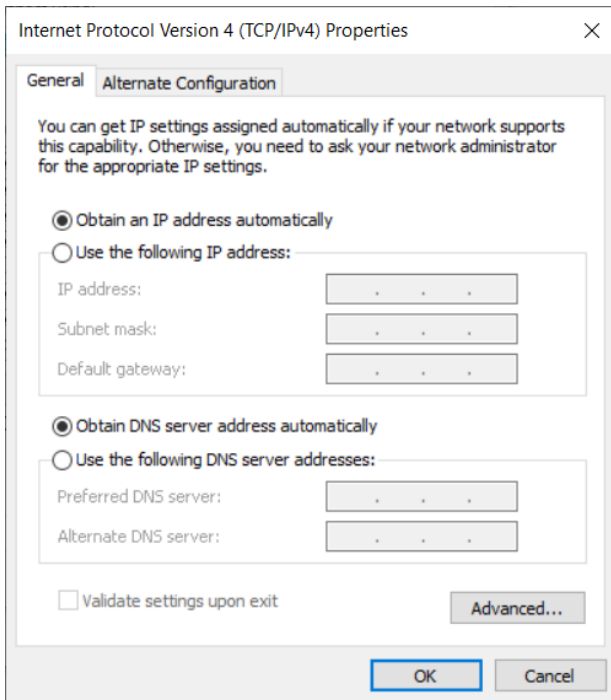
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## **Checking the Firmware Version**

1. Please connect an RJ-45 Ethernet cable from the RJ-45 Ethernet interface of your PC or laptop to one LAN interface of your router.
2. Please connect an RJ-45 Ethernet cable from the “LAN” interface which is located on the rear panel of your PTC-145 to another LAN interface of your router.

3. Please connect a DC 12V power adapter to your PTC-145 camera.

4. The factory default of the PTC-145 is DHCP mode. Please make sure that your laptop or PC is set in DHCP mode.

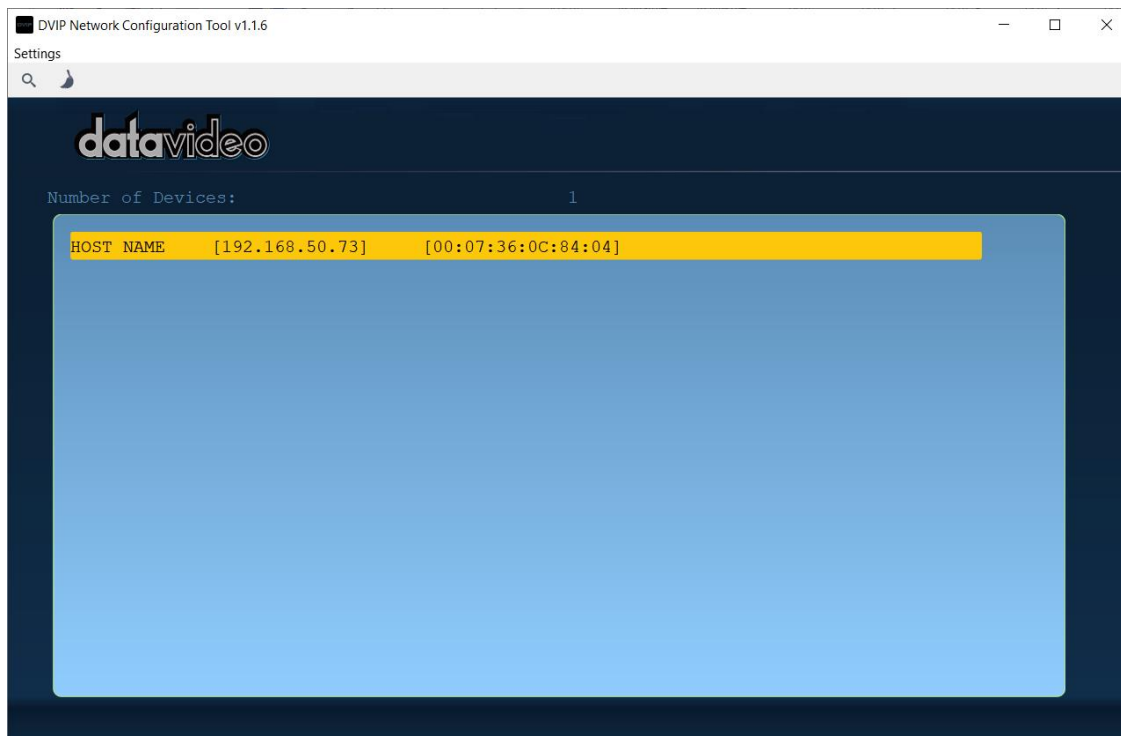


5. Please download “Datavideo Network Configuration Tool” from Datavideo official website’s PTC-145 product page <https://www.datavideo.com/product/PTC-145>

6. Please double-click the DVIP Network Configuration Tool to select your Ethernet Card, and then please click “OK”.



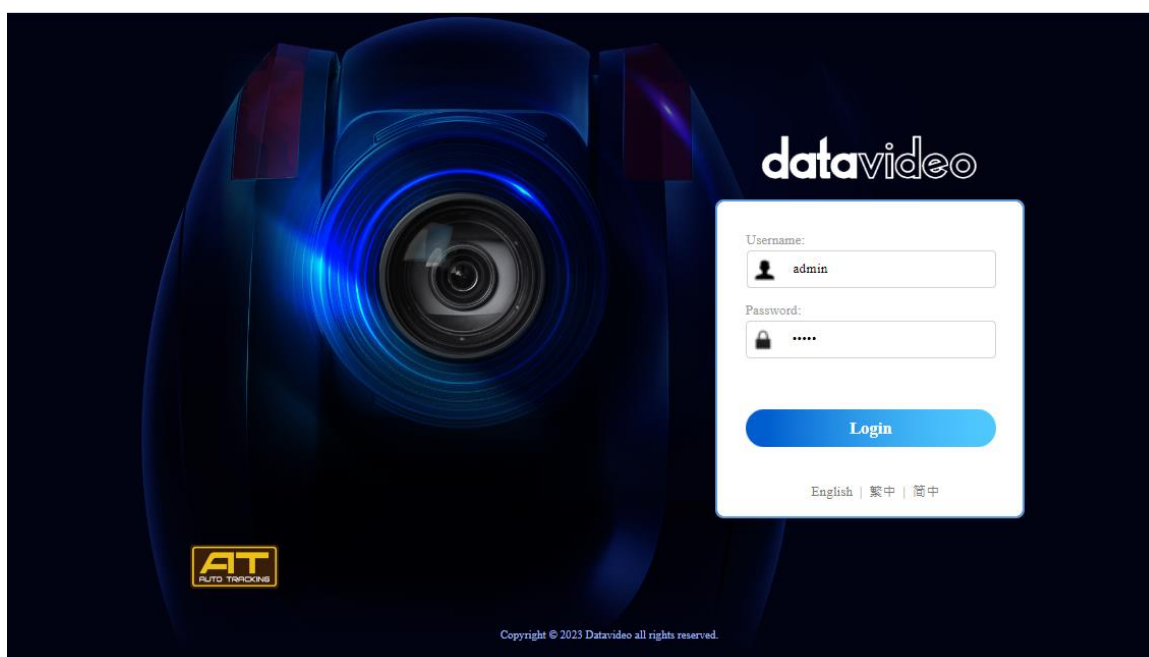
7 You can see the DHCP IP address of your PTC-145. In this example, it is “192.168.50.73”.

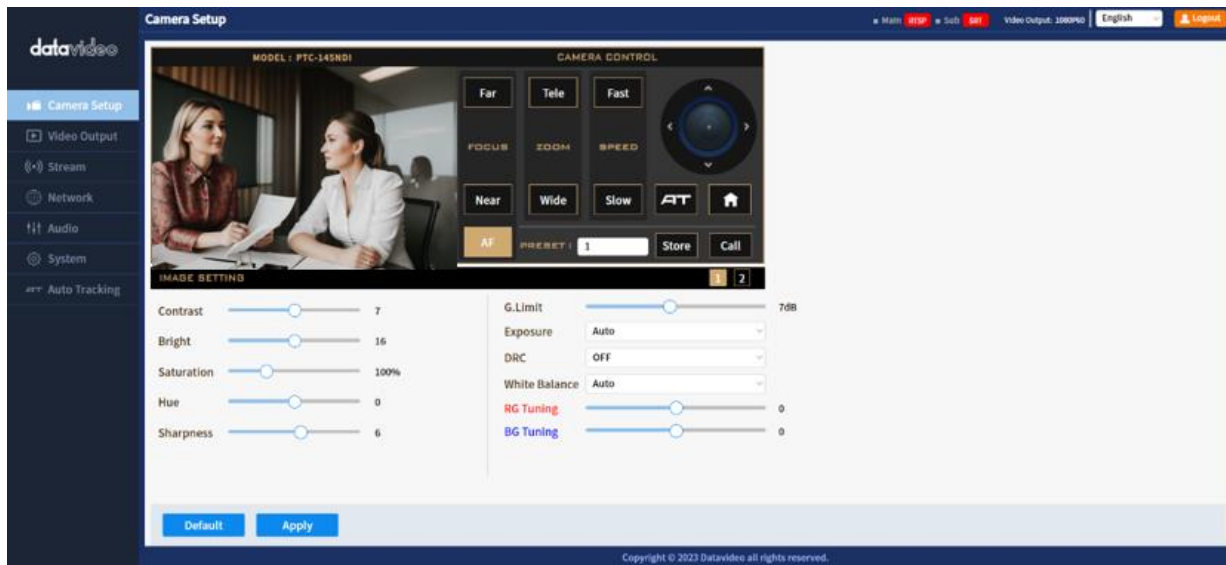


8. After obtaining the IP address of your PTC-145, please enter the IP address in the address bar of your web browser. After that, you will see the login page of the PTC-145 web UI. Please enter the default User Name and Password for logging into the web UI.

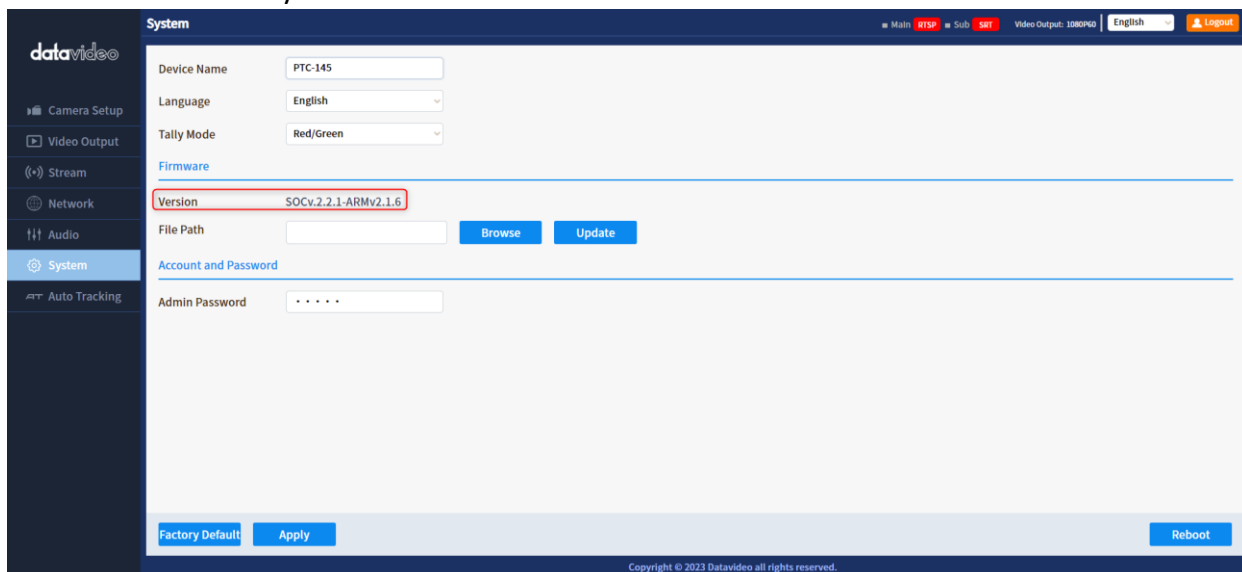
**Default User Name: admin**

**Default Password: admin**



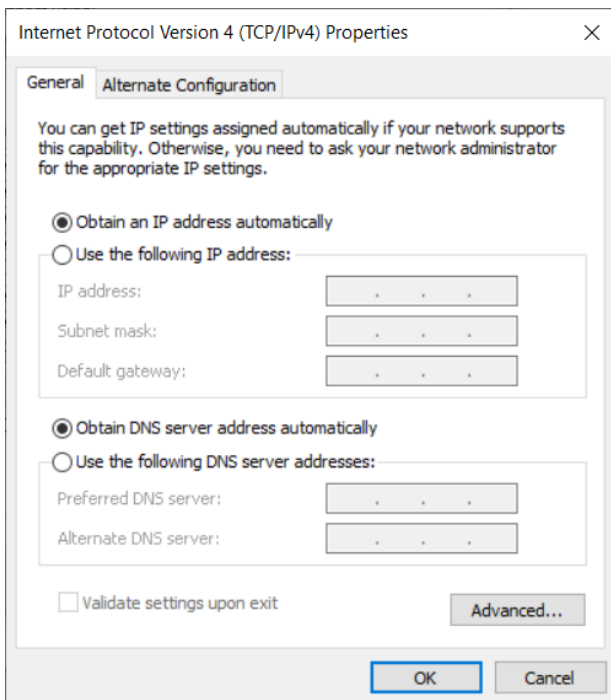


9. Please press the “**System**” option to open the firmware update page. After that, you can see the current firmware version for your PTC-145 camera.



## **Before Updating the Firmware**

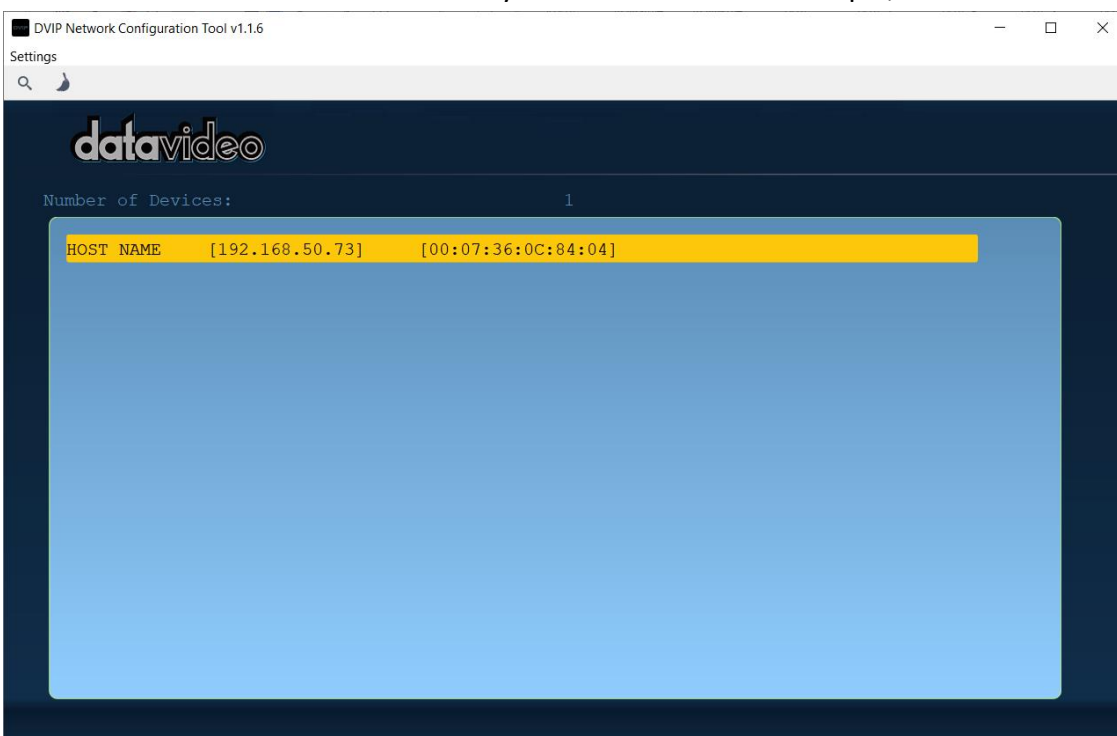
1. Please connect an RJ-45 Ethernet cable from the RJ-45 Ethernet interface of your PC or laptop to one LAN interface of your router.
2. Please connect an RJ-45 Ethernet cable from the “LAN” interface which is located on the rear panel of your PTC-145 to another LAN interface of your router.
3. Please connect a DC 12V power adapter to your PTC-145 camera.
4. The factory default of the PTC-145 is the DHCP mode. Please make sure your laptop or PC is set in the DHCP mode.



5. Please download “Datavideo Network Configuration Tool” from Datavideo official website’s PTC-145 product page <https://www.datavideo.com/product/PTC-145>
6. Please double-click the DVIP Network Configuration Tool to select your Ethernet Card, and then please click “OK”.



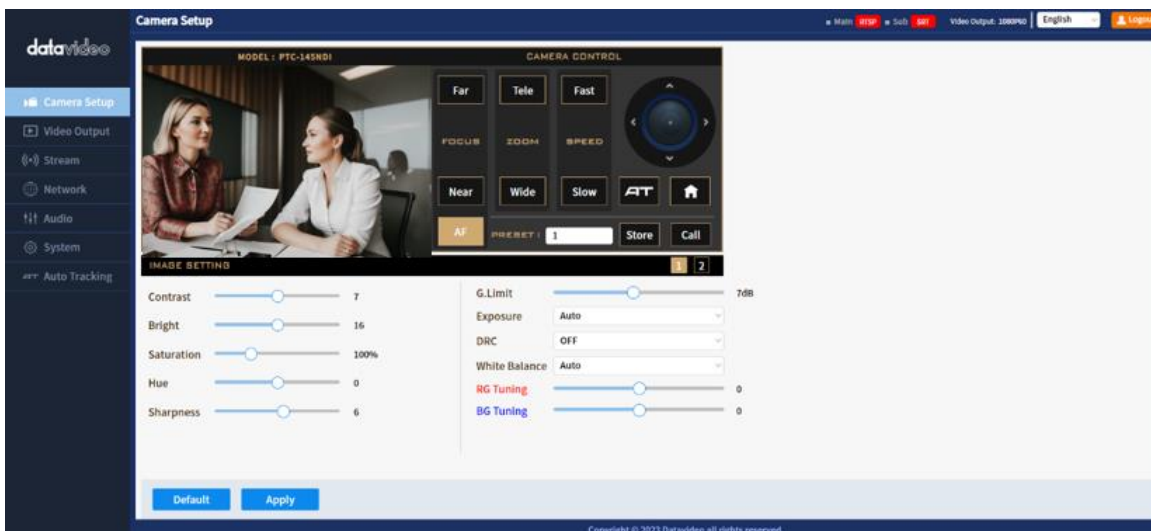
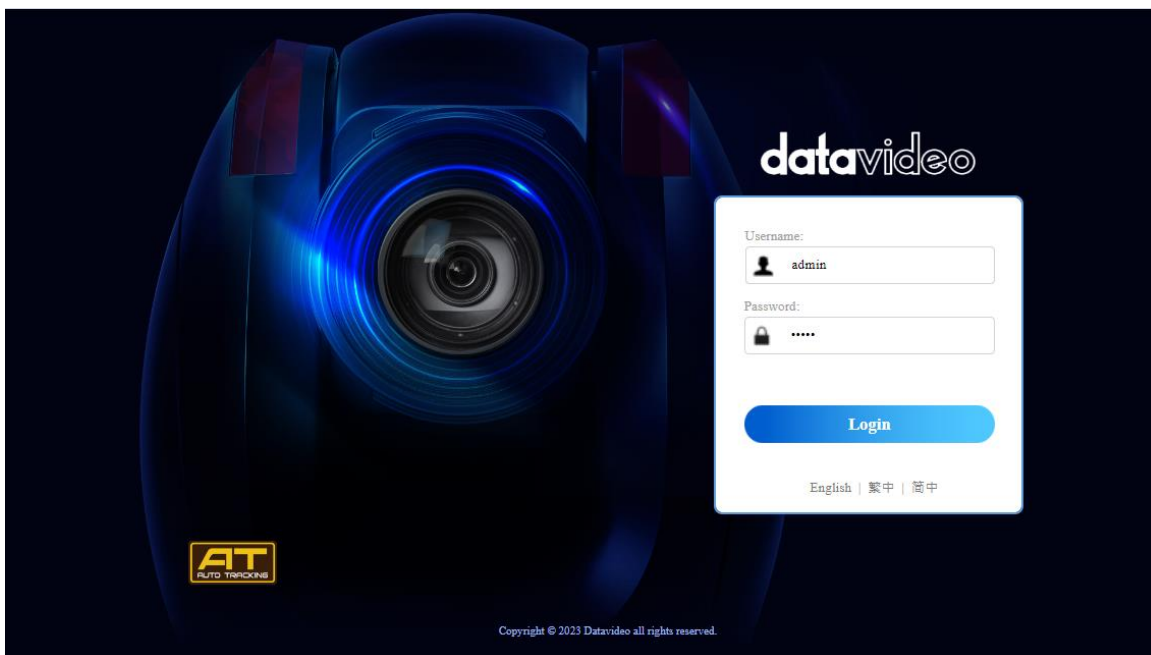
7. You can see the DHCP IP address of your PTC-145. In this example, it is “192.168.50.73”.



8. After obtaining the IP address of your PTC-145, please enter the IP address in the address bar of your web browser. After that, you will see the login page of the PTC-145 web UI. Please enter the default User Name and Password for logging into the web UI.

**Default User Name: admin**

**Default Password: admin**





## Updating the MCU Firmware

1. Please make sure the downloaded firmware is unzipped. After that, please press the **System**-> **Browse** to select the MCU firmware file "PTC145\_ARM\_V2.1.6\_20240429.mrg".

**System**

Device Name: PTC-145

Language: English

Tally Mode: Red/Green

**Firmware**

Version: SOCv.2.2.1-ARMv2.1.6

File Path:  **Browse** **Update**

**Account and Password**

Admin Password:

**Factory Default** **Apply** **Reboot**

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Name	Date modified	Type	Size
PTC145_ARM_V2.1.6_20240429.mrg	4/29/2024 5:17 PM	MRG File	139

File name: PTC145\_ARM\_V2.1.6\_20240429.mrg

File type: All Files (\*.\*)

**Open** **Cancel**

**System**

Device Name: PTC-145NDI

Language: English

Tally Mode: Red/Green

**Firmware**

Version: SOCv.2.2.1-ARMv2.1.6

File Path: PTC145\_ARM\_V2.1.6\_20240429.mrg **Browse** **Update**

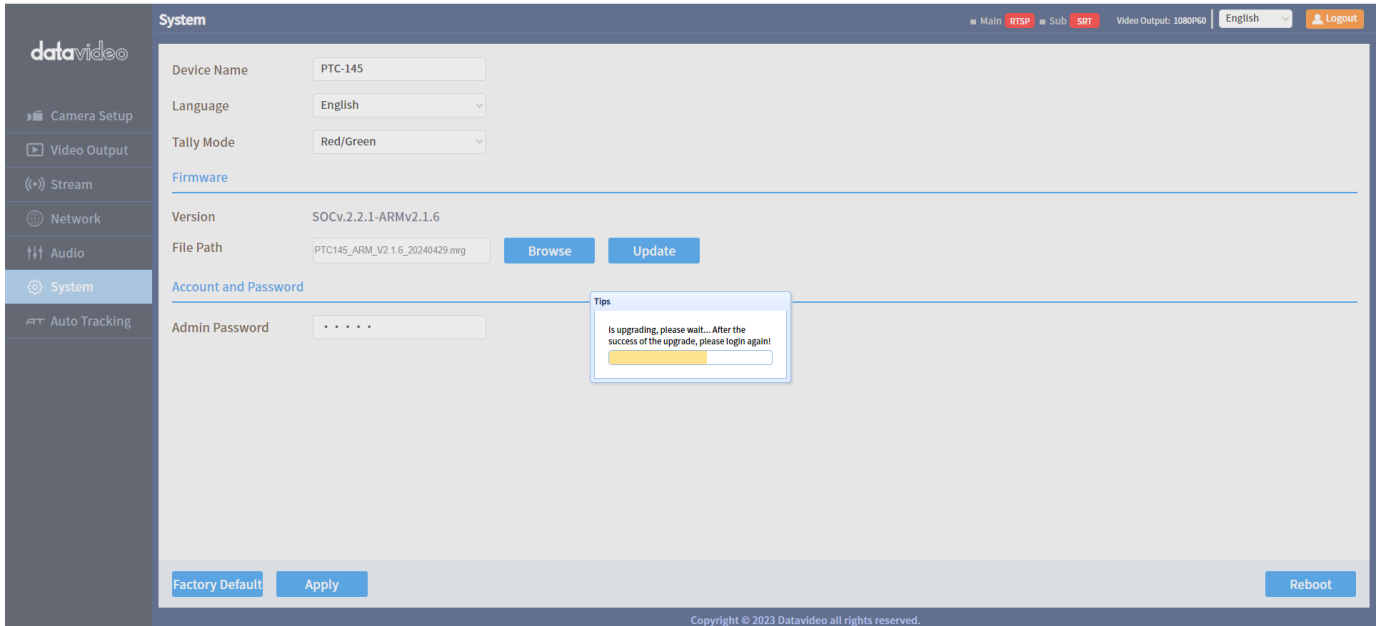
**Account and Password**

Admin Password:

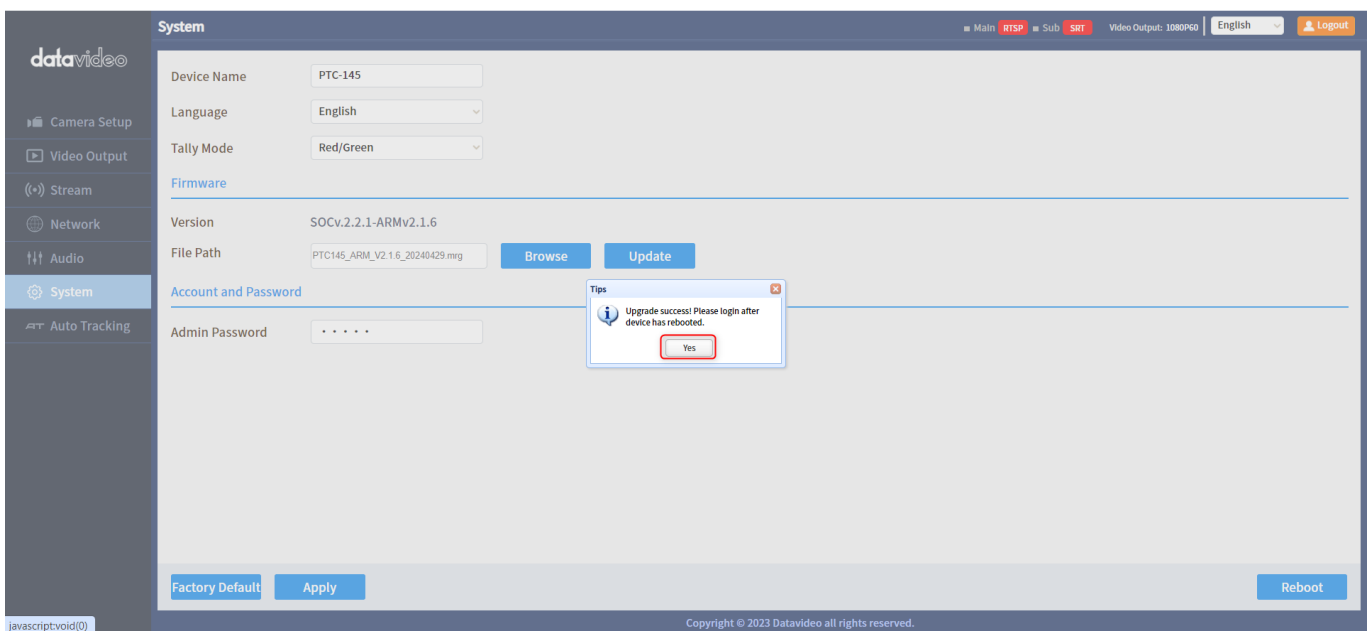
**Factory Default** **Apply** **Reboot**

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2. Please press the “Update” button, and then the firmware update procedure for the MCU will be started automatically.



3. After the MCU firmware update is done successfully, the PTC-145 will reboot automatically. After the rebooting is done, please press the “Yes” button and then login to the PTC-145 Web UI again. After that, the whole MCU firmware update procedure is done successfully.



## Updating the Camera & AF Firmware

1. Please make sure the downloaded firmware is unzipped. After that, please press the **System-> Browse** to select the Camera & AF firmware file

"D-PTC145\_NDI\_SY20X\_V2.2.1\_R\_20240426\_AF\_V1.0.4\_R\_20231027.mrg".

**System**

Device Name: PTC-145

Language: English

Tally Mode: Red/Green

**Firmware**

Version: SOCv2.2.1-ARMv2.1.6

File Path:  **Browse** **Update**

**Account and Password**

Admin Password:

**Factory Default** **Apply** **Reboot**

Name	Date modified	Type	Size
D-PTC145_NDI_SY20X_V2.2.1_R_20240426_AF_V1.0.4_R_20231027.mrg	4/26/2024 4:48 PM	MRG File	33,245

me: D-PTC145\_NDI\_SY20X\_V2.2.1\_R\_20240426\_AF\_V1.0.4\_R\_20231027.mrg

All Files(\*.\*)

**Open** **Cancel**

**System**

Device Name: PTC-145

Language: English

Tally Mode: Red/Green

**Firmware**

Version: SOCv2.2.1-ARMv2.1.6

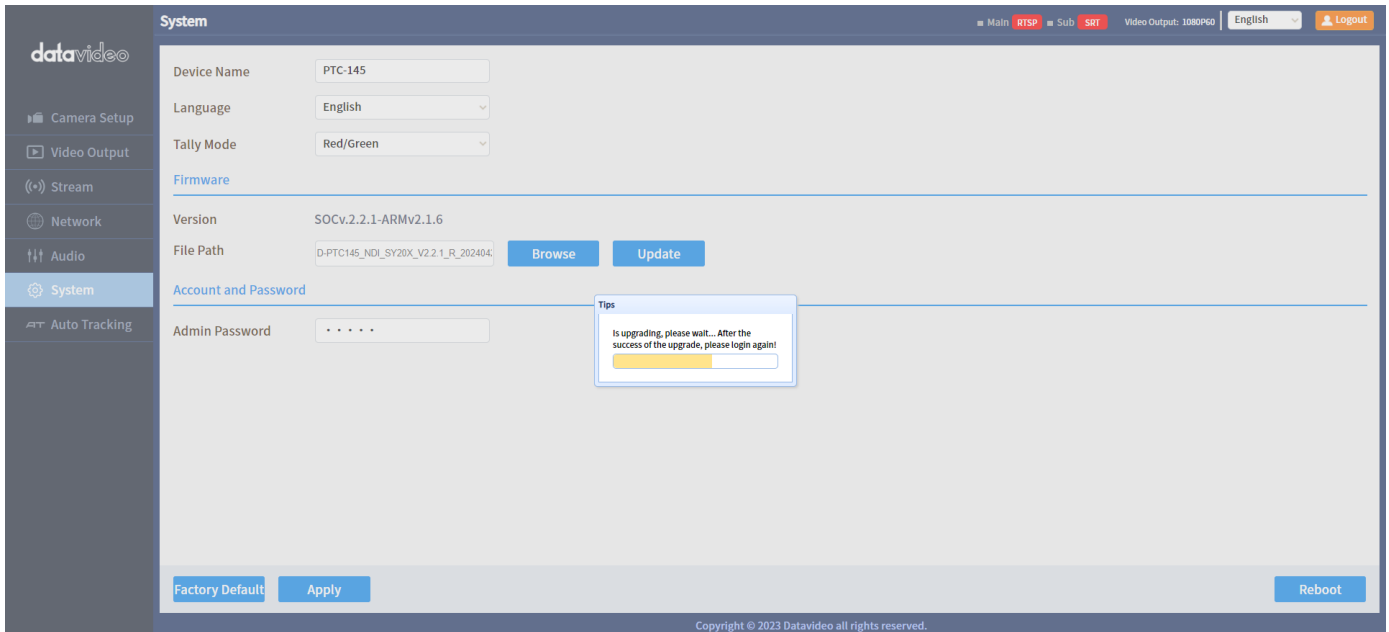
File Path: D-PTC145\_NDI\_SY20X\_V2.2.1\_R\_20240426\_AF\_V1.0.4\_R\_20231027.mrg **Browse** **Update**

**Account and Password**

Admin Password:

**Factory Default** **Apply** **Reboot**

2. Please press the “Update” button, and then the firmware update procedure for the Camera & AF will be started automatically.



3. After the Camera & AF firmware update is done successfully, the PTC-145 will reboot automatically. After the rebooting is done, please press the “Yes” button and then login to the PTC-145 Web UI again. After that, the whole Camera & AF firmware update procedure is done successfully.

