

Firmware Update Procedures

PTC-145T

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

Updating the PTC-145T Camera Firmware (ARM V2.1.3 2024-04-29/ SOC V3.0.5 2024-04-26/ AF Version V1.0.5 2024-01-24)

What items you should prepare before updating the firmware

- The latest PTC-145T firmware update zip file x1.
The latest firmware zip file can be downloaded from the PTC-145T product page of the Datavideo official website <https://www.datavideo.com/product/PTC-145T>. After the downloaded firmware zip file is unzipped, you can see two firmware files.
 - **Camera & AF firmware files:** D-PTC145T_SY20X_V3.0.5_R_20240426_AF_V1.0.5_R_20240124.mrg
 - **MCU firmware:** PTC145T_ARM_V2.1.3_20240429.mrg
- PTC-145T 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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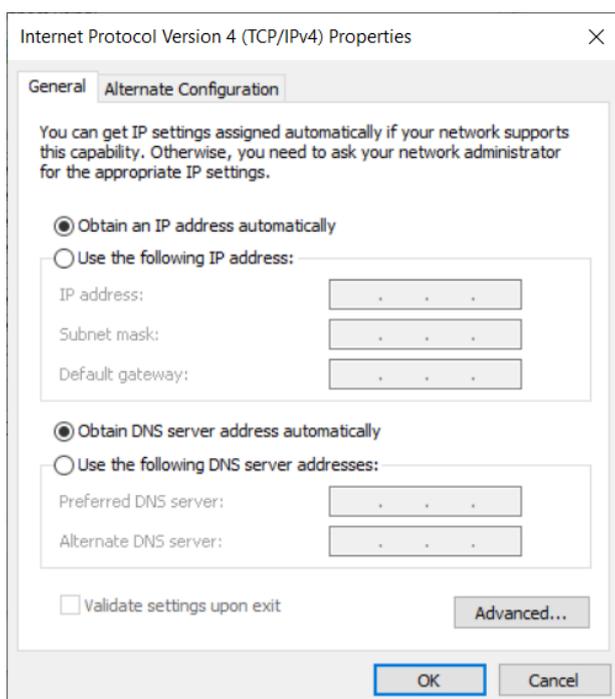
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Checking the Firmware Version

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-145T to another LAN interface of your router.
3. Please connect a DC 12V power adapter to your PTC-145T camera.
4. The factory default of the PTC-145T is DHCP mode. Please make sure that your laptop or PC is set in DHCP mode.

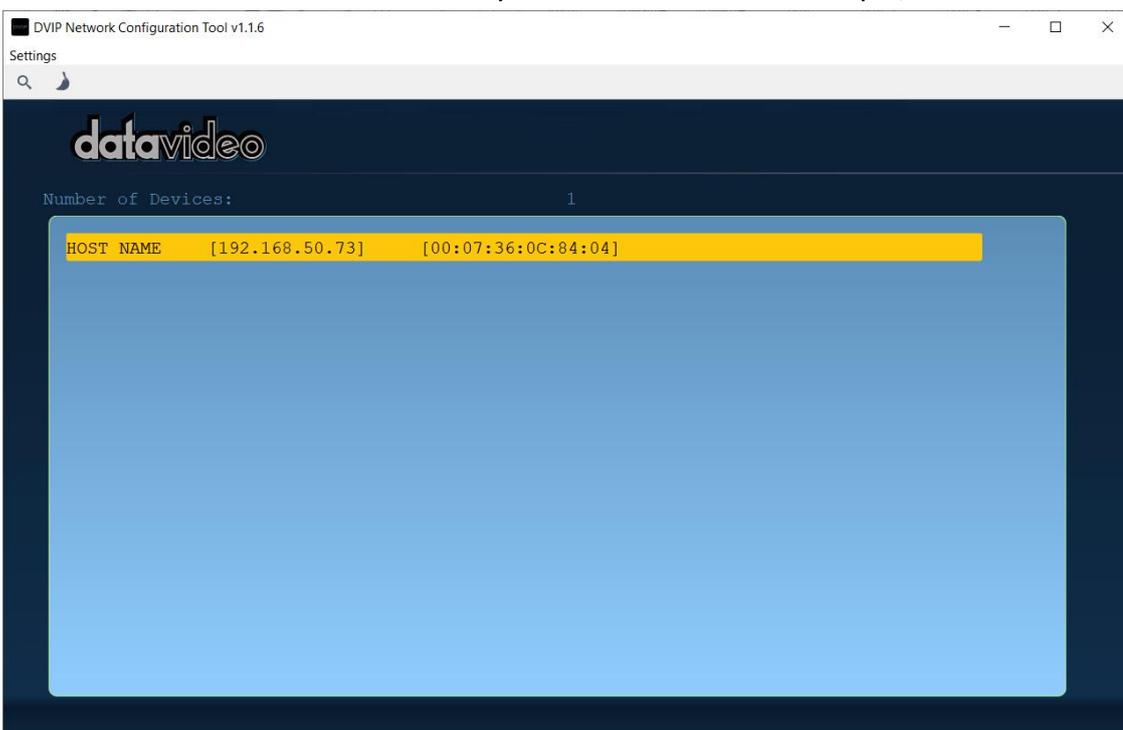


5. Please download “Datavideo Network Configuration Tool” from Datavideo official website’s PTC-145T product page <https://www.datavideo.com/product/PTC-145T>

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



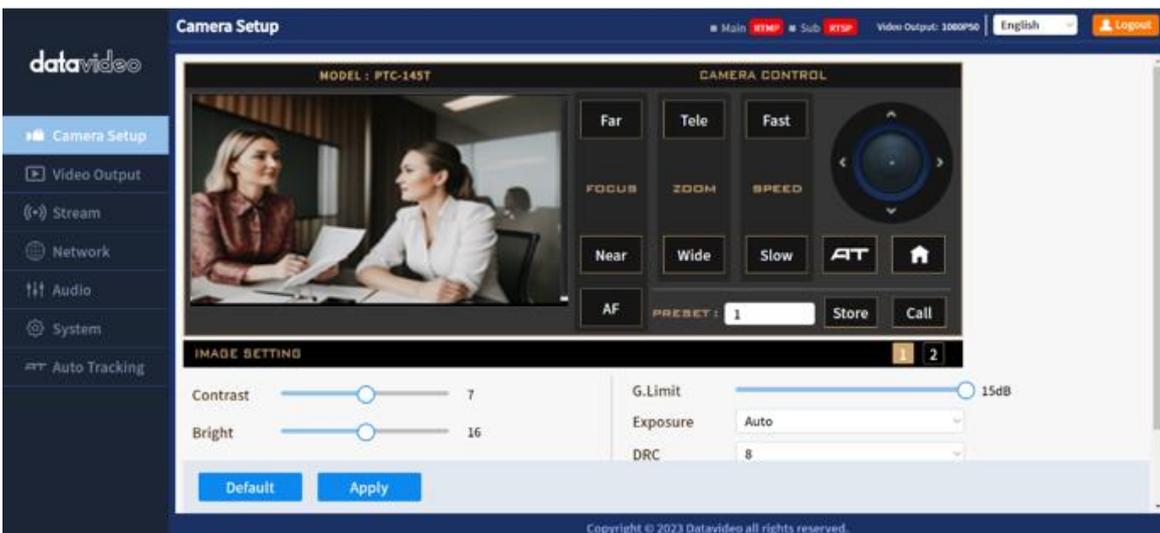
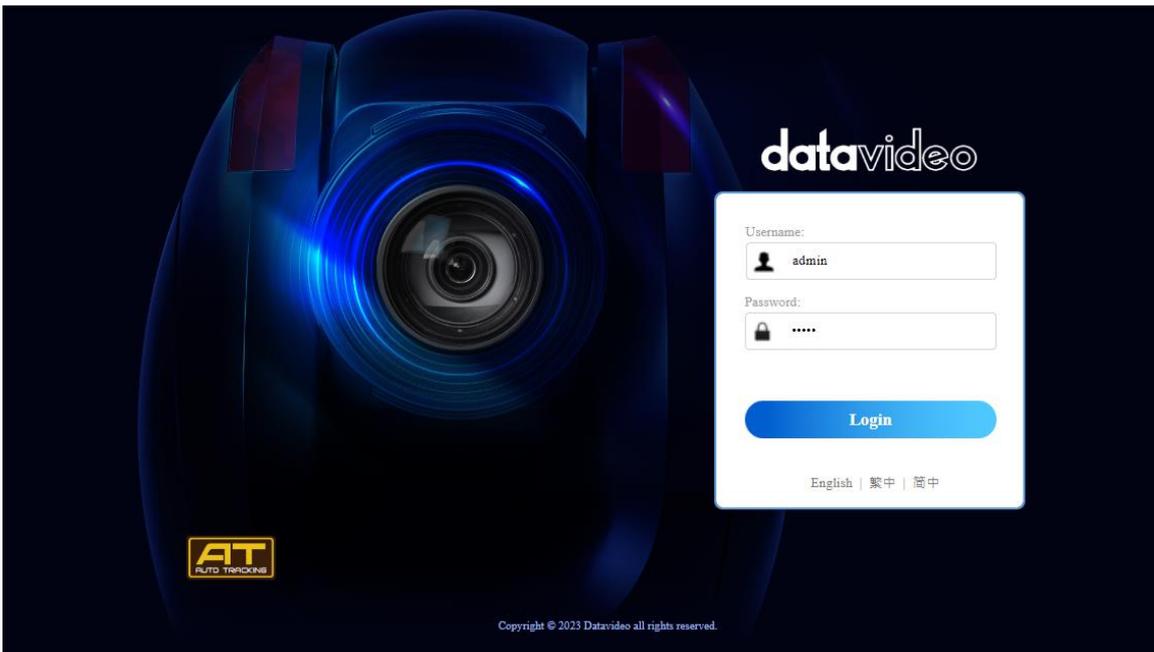
7 You can see the DHCP IP address of your PTC-145T. In this example, it is “192.168.50.73”.



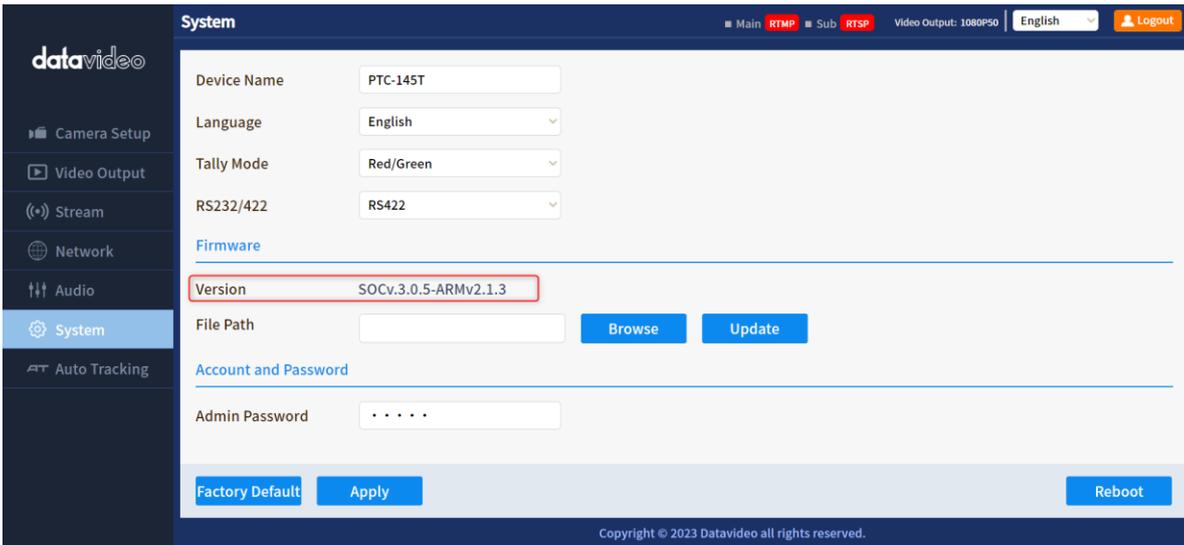
8. After obtaining the IP address of your PTC-145T, please enter the IP address in the address bar of your web browser. After that, you will see the login page of the PTC-145T web UI. Please enter the default User Name and Password for logging into the web UI.

Default User Name: admin

Default Password: admin

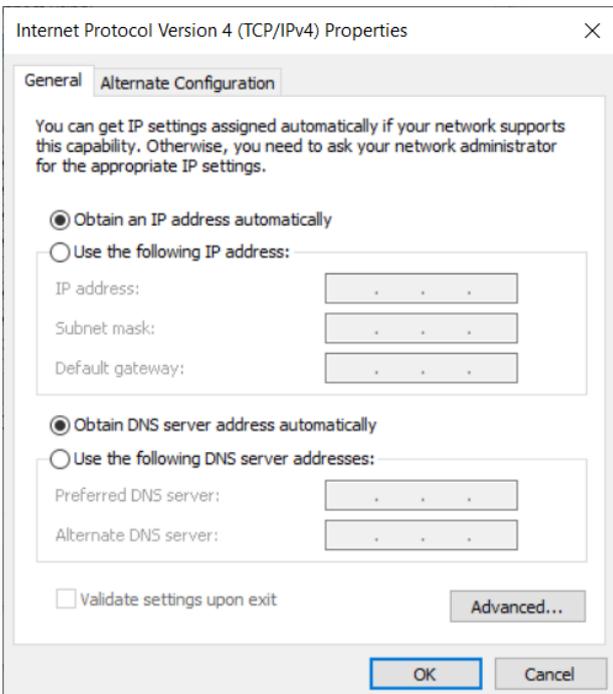


9. Please press the “**System**” option to open the firmware update page. After that, you can see the current firmware version for your PTC-145T camera.



Before Updating the Firmware

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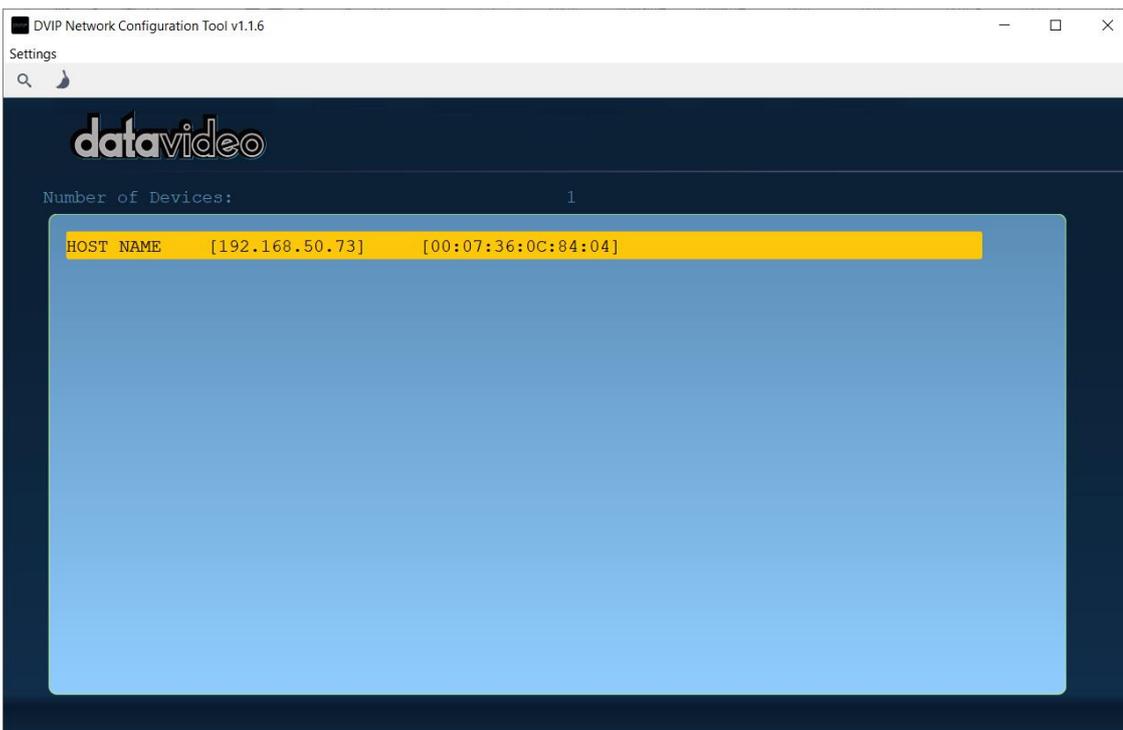


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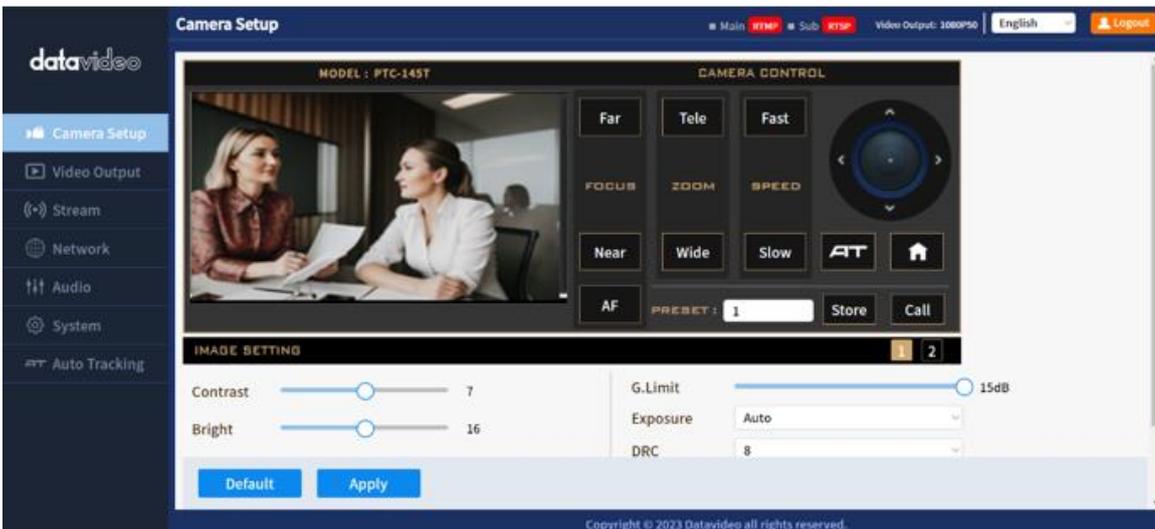
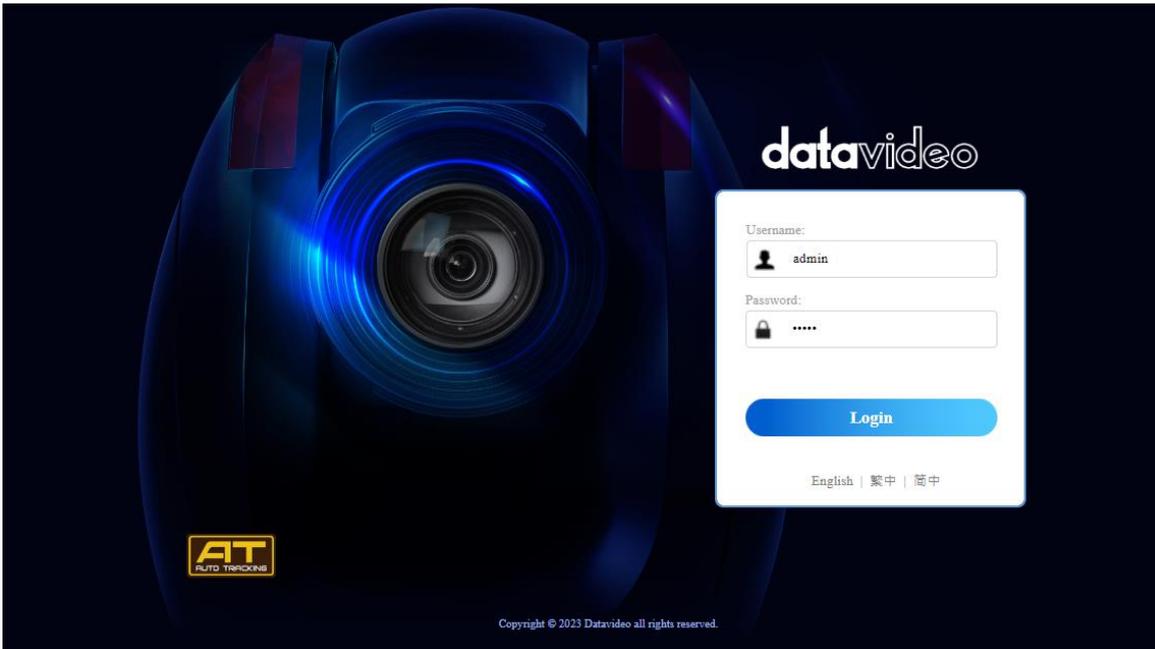
7. You can see the DHCP IP address of your PTC-145T. In this example, it is “192.168.50.73”.



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

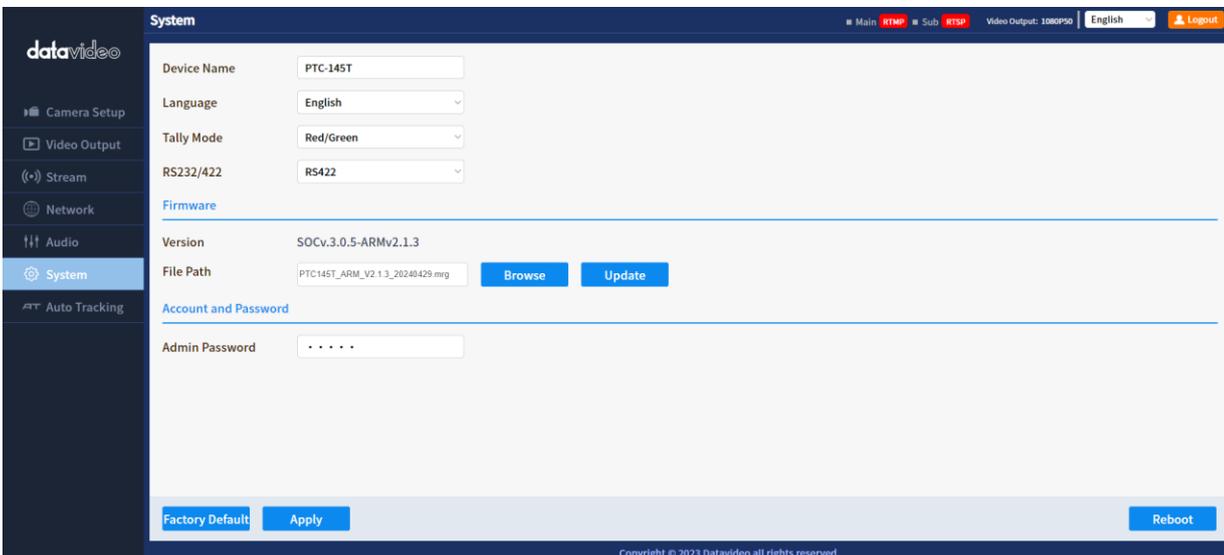
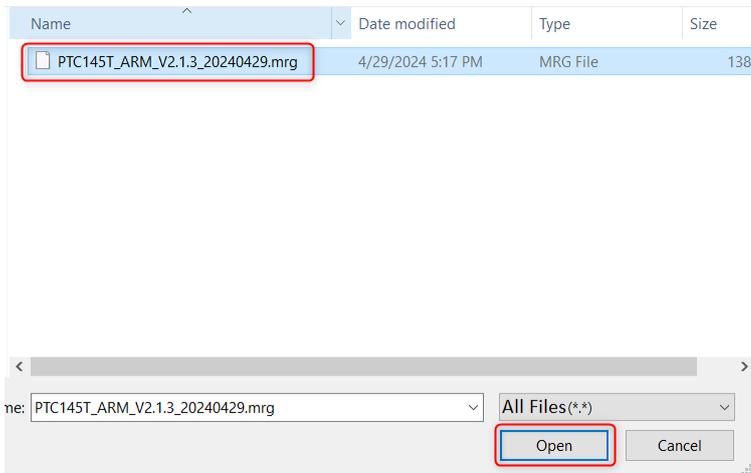
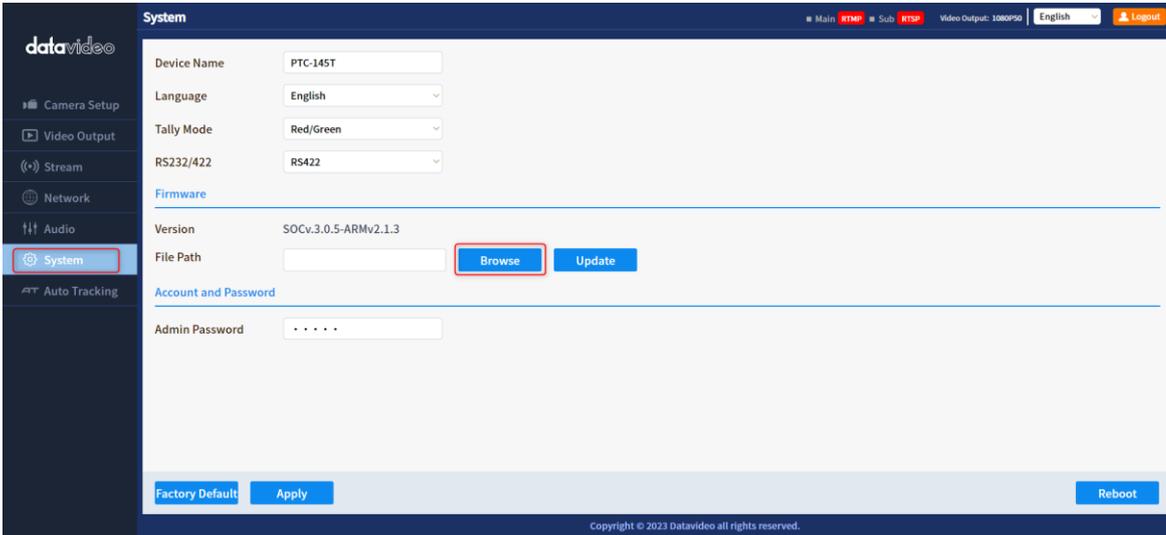
Default User Name: admin

Default Password: admin

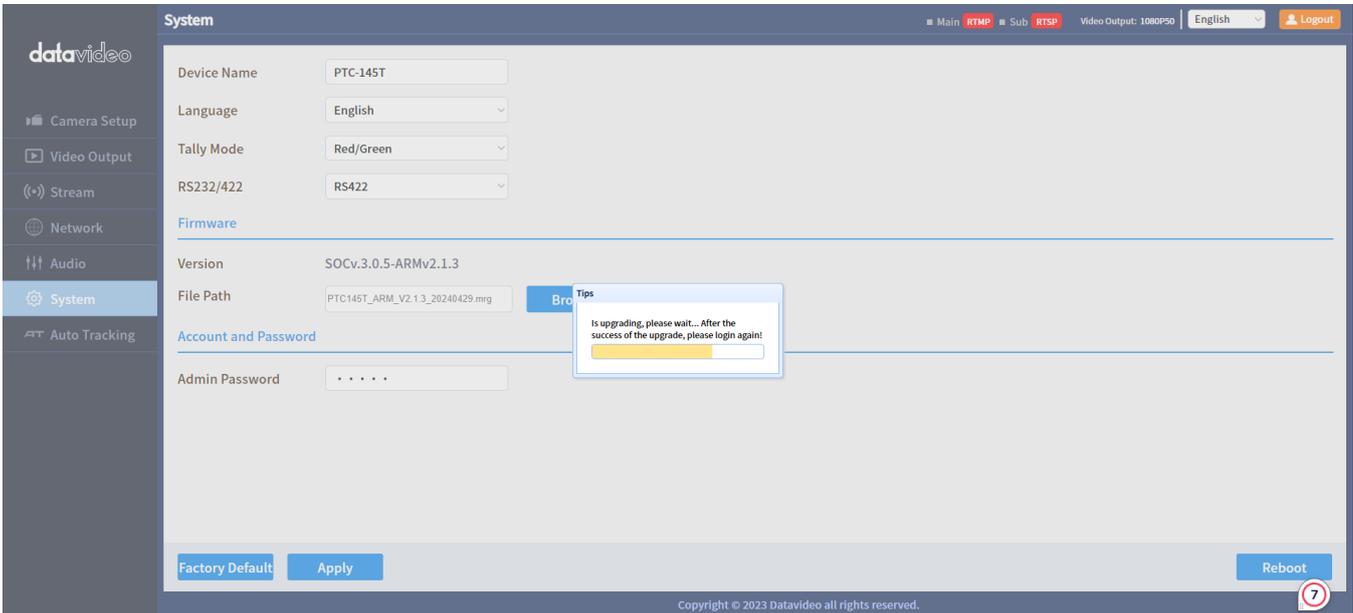


Updating the MCU Firmware

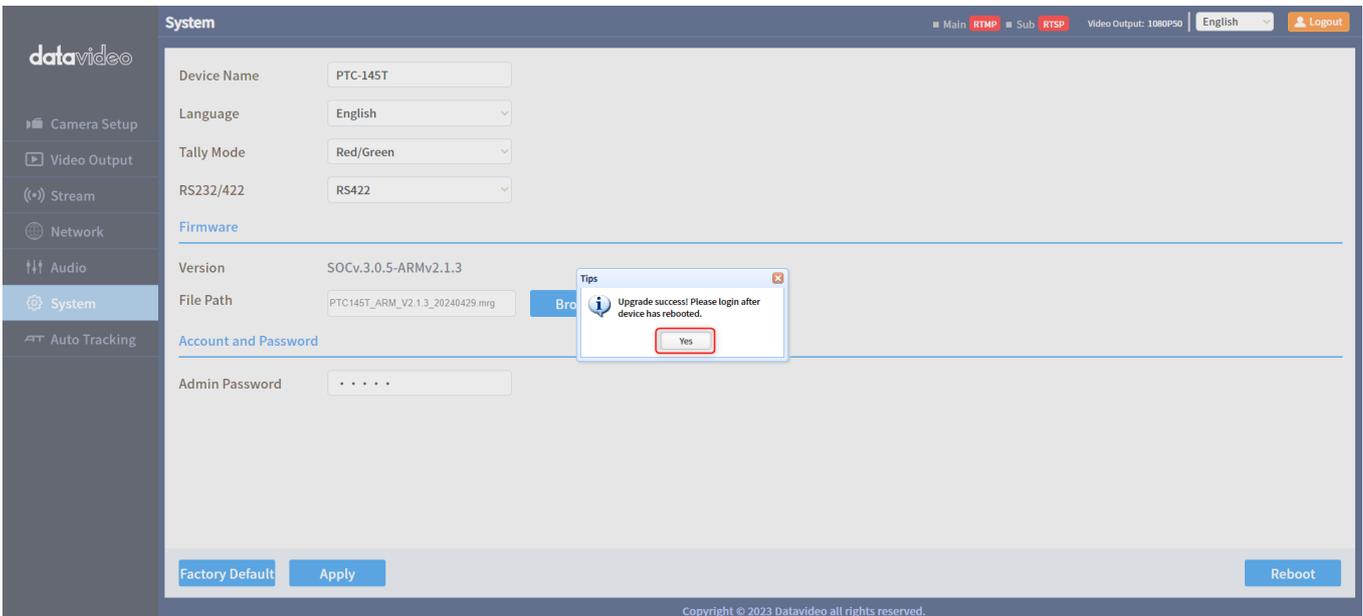
1. Please make sure the downloaded firmware is unzipped. After that, please press the **System**-> **Browse** to select the MCU firmware file "PTC145T_ARM_V2.1.3_20240429.mrg".



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



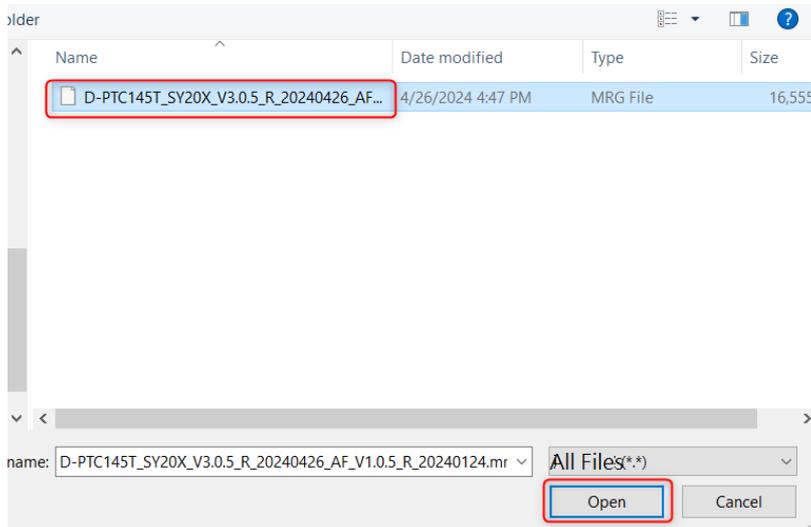
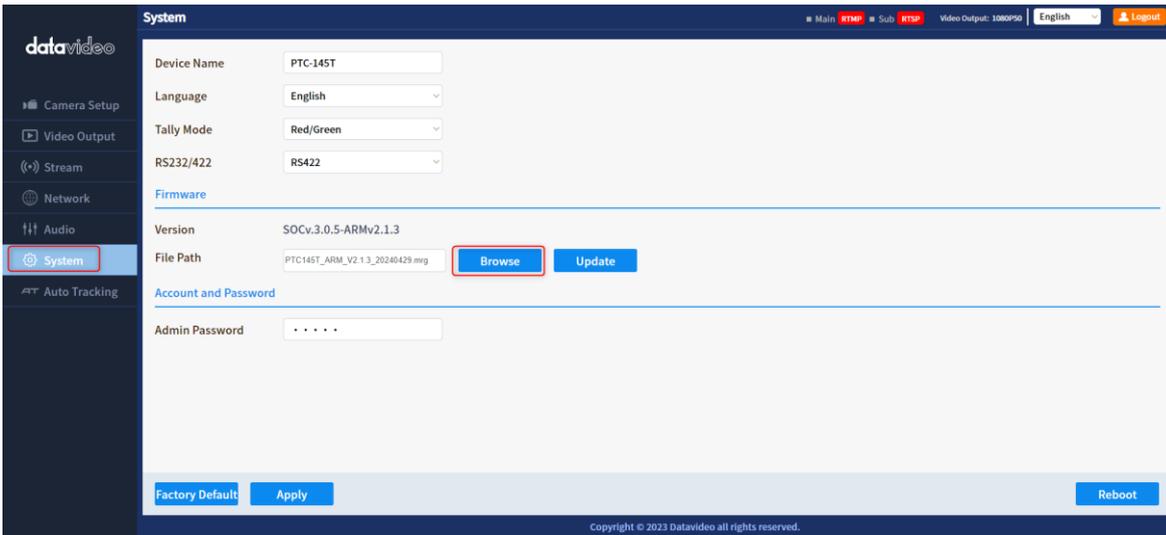
3. After the MCU firmware update is done successfully, the PTC-145T will reboot automatically. After the rebooting is done, please press the “Yes” button and then login to the PTC-145T Web UI again. After that, the whole MCU firmware update procedure is done successfully.

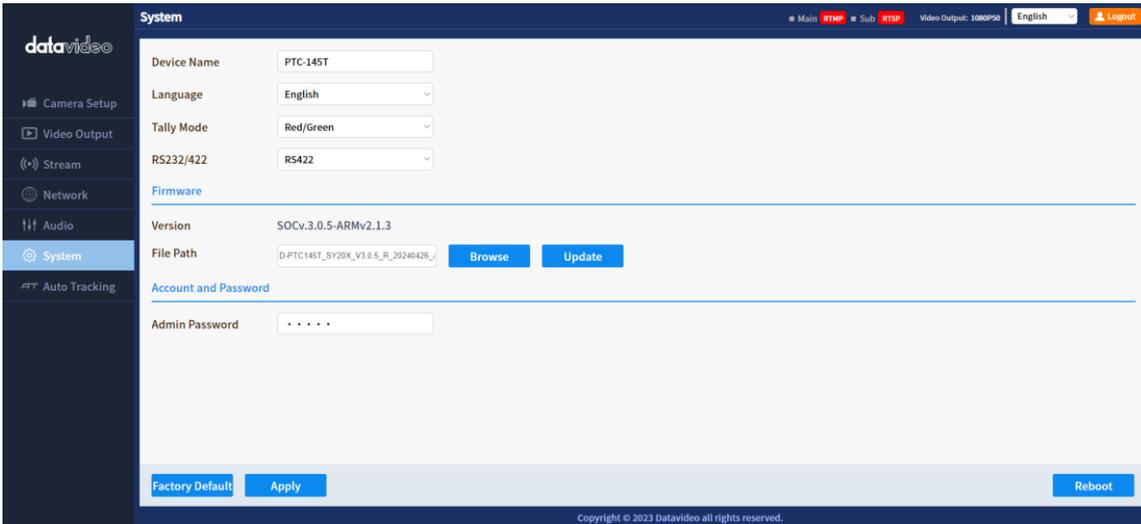


Updating the Camera & AF Firmware

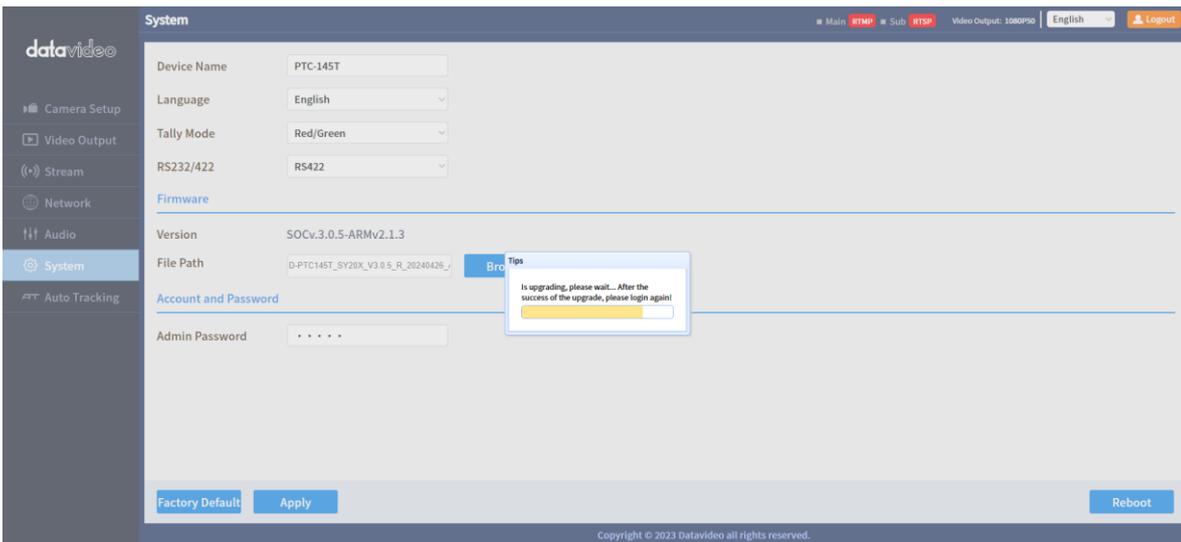
1. Please make sure the downloaded firmware is unzipped. After that, please press the **System**-> **Browse** to select the Camera & AF firmware file

“D-PTC145T_SY20X_V3.0.5_R_20240426_AF_V1.0.5_R_20240124.mrg”.





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

The screenshot displays the 'System' configuration page in the DataVideo web interface. The left sidebar contains navigation options: Camera Setup, Video Output, Stream, Network, Audio, System (selected), and Auto Tracking. The main content area is titled 'System' and includes the following settings:

- Device Name: PTC-145T
- Language: English
- Tally Mode: Red/Green
- RS232/422: RS422

The 'Firmware' section shows the current version as 'SOCv.3.0.5-ARMv2.1.3' and the file path as 'D:\PTC145T_SY20X_V3 0.5_R_20240426...'. A 'Browse' button is visible next to the file path. A modal dialog box titled 'Tips' is overlaid on the interface, containing the message: 'Upgrade success! Please login after device has rebooted.' with a 'Yes' button highlighted by a red box.

At the bottom of the configuration area, there are buttons for 'Factory Default', 'Apply', and 'Reboot'. The footer of the page contains the text: 'Copyright © 2023 Datavideo all rights reserved.'