

Firmware Update Procedures

PTC-305/PTC-305T/PTC-305G

This document provides procedures for updating the PTC-305 4K Tracking PTZ Camera, PTC-305T 4K HDBaseT Tracking PTZ Camera and PTC-305G 4K 20X 12G Tracking PTZ Camera. The PTC-305, PTC-305T and PTC-305G use the same firmware. This document will take the PTC-305T as an example.

Updating the PTC-305/PTC-305T/PTC-305G Camera Firmware(V1.2.05)

What items you should prepare before updating the firmware

- The latest PTC-305, PTC-305T or PTC-305G firmware update zip file x1(PTC-305, PTC-305T & PTC-305G use the same firmware).

For PTC-305

The latest firmware zip file can be downloaded from the PTC-305 product page
<https://www.datavideo.com/product/PTC-305> of the Datavideo official website.

For PTC-305T

The latest firmware zip file can be downloaded from the PTC-305T product page
<https://www.datavideo.com/product/PTC-305T> of the Datavideo official website.

For PTC-305G

The latest firmware zip file can be downloaded from the PTC-305G product page
<https://www.datavideo.com/product/PTC-305G> of the Datavideo official website.

After the downloaded firmware zip file is unzipped, you can see one firmware file.

➤ **Camera firmware file:** VX20DA_A10.D_V1.2.05_24M_20260812.img

For PTC-305& PTC-305G

- PTC-305 or PTC-305G camera x 1
- 12V power adapter x 1
- Laptop or PC x 1 (When updating by web UI)
- USB Flash Drive x 1 (When updating by the USB flash drive)
- Monitor x 1
- Ethernet Cable x 1
- HDMI Cable x 1

For PTC-305T

- PTC-305T camera x 1
- HBT-16/HBT-18/HBT-30/HBT-11/HBT-12/HBT-50/HS-1600T x 1
- Power: For HBT-16/HBT-18/HBT-30/HBT-11/HBT-12/HS-1600T: 48V or 56V power adapter x 1 depending on different models respectively. For HBT-50: AC IN Power x 1
- Laptop or PC x 1(When updating by web UI)
- USB Flash Drive x 1 (When updating by the USB flash drive)
- Ethernet Cable x 2
- HDMI Cable x 1
- Monitor x 1

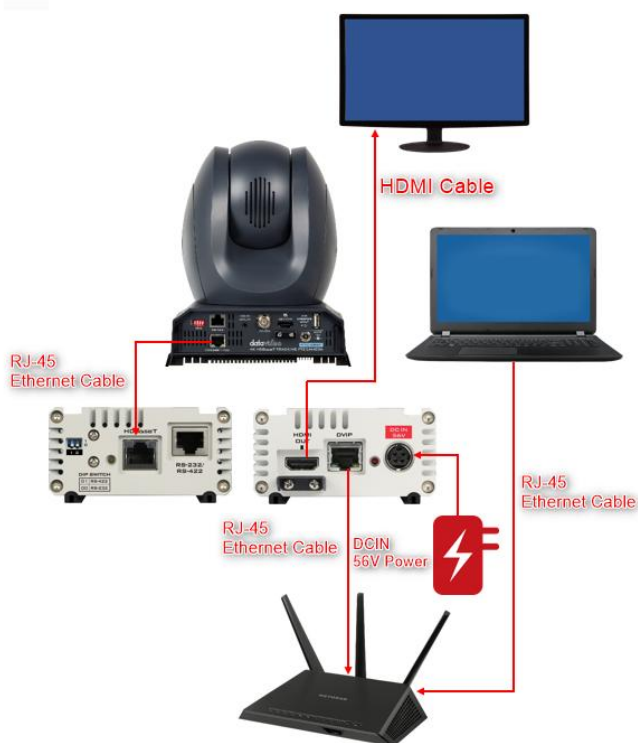
This document describes how to perform firmware update on a **Windows** computer.

System Connection Diagram

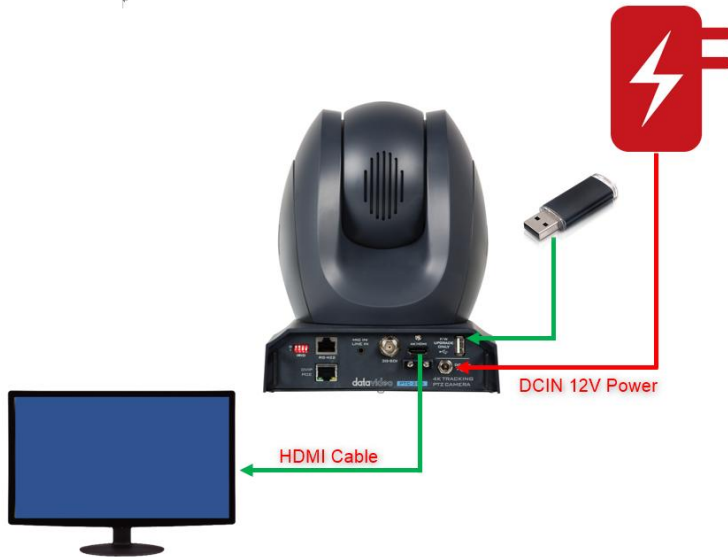
For PTC-305& PTC-305G (Take PTC-305 as an example)(Firmware Update by PTC-305 Series Web UI)



For PTC-305T (Firmware Update by PTC-305 Series Web UI)



For PTC-305& PTC-305G (Take PTC-305 as an example) (Firmware Update by USB Flash Drive)



For PTC-305T (Firmware Update by USB Flash Drive)



[Checking the Firmware Version](#)

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[Updating the Firmware-By PTC-305 Series Web UI](#)

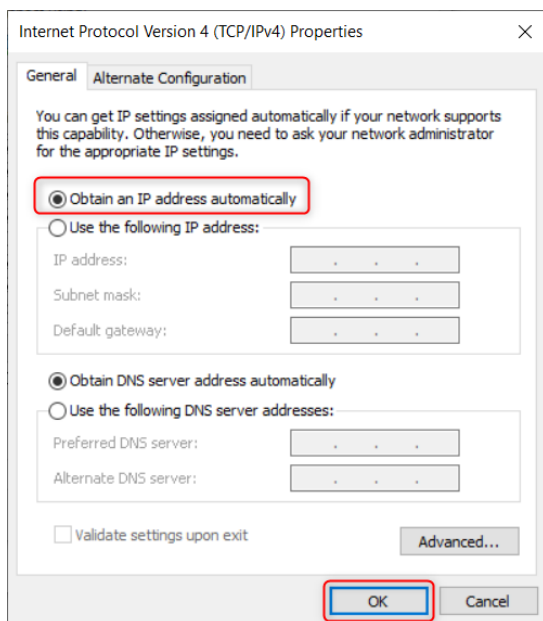
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[Updating the Firmware-By USB Flash Drive](#)

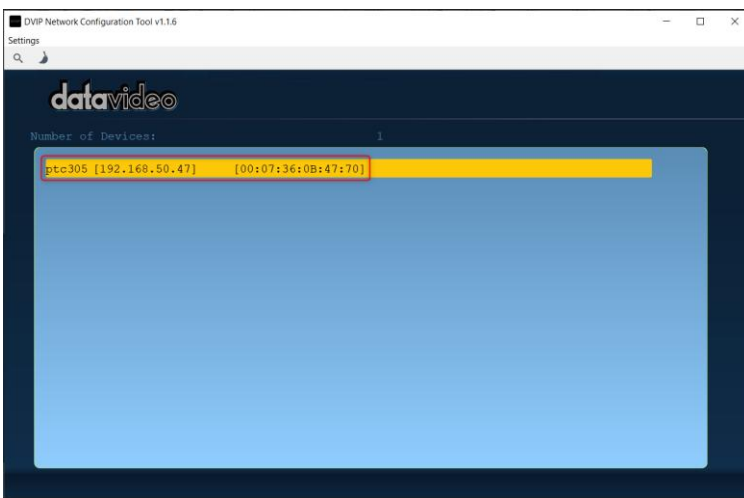
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Checking the Firmware Version

1. Please connect your PTC-305, PTC-305T or PTC-305G according to the diagram in the [System Connection Diagram](#).
2. The factory default for the PTC-305, PTC-305T or PTC-305G is in DHCP mode. So, please make sure that your laptop or PC is set in DHCP mode. In this document, we will use the PTC-305T as an example.



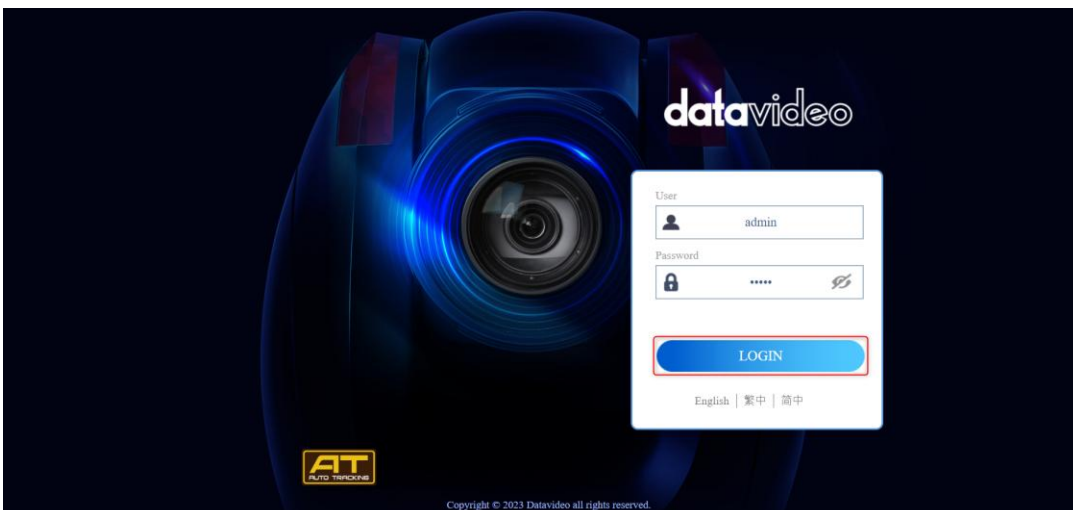
3. Please download Datavideo DVIP Network Configuration Tool from the product page of Datavideo official website <https://www.datavideo.com/product/PTC-305>. After that, please use the DVIP Network Configuration Tool to find the DHCP IP address of your PTC-305, PTC-305T or PTC-305G. In this example, the DHCP IP address is 192.168.50.47.



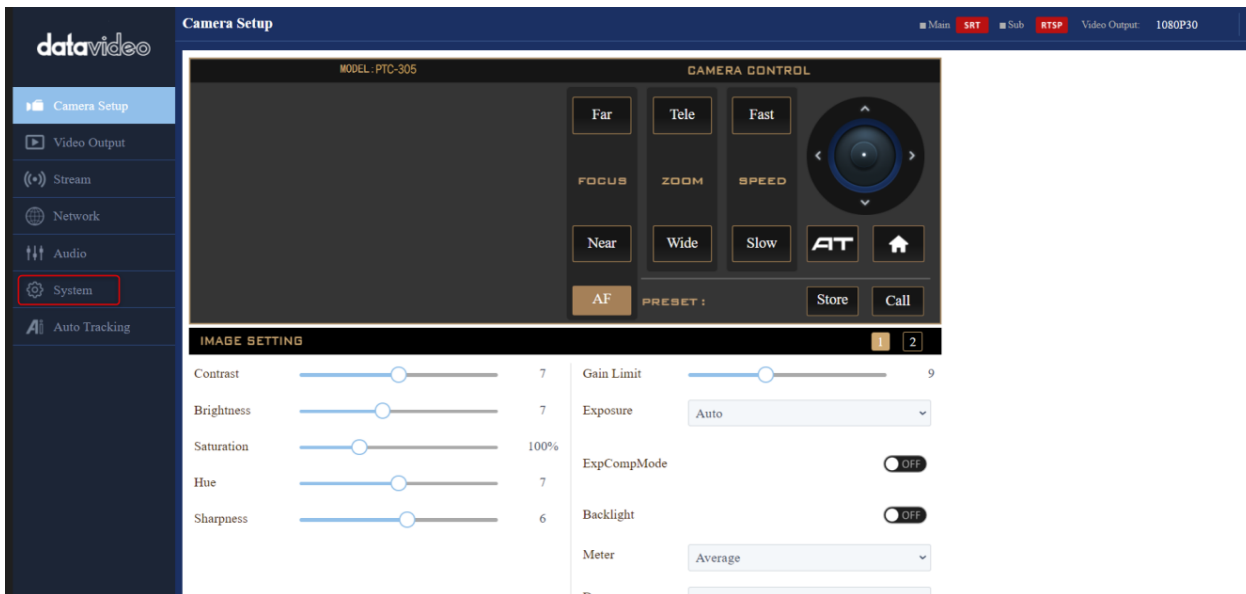
4. Please enter the detected DHCP IP address of your PTC-305, PTC-305T or PTC-305G into the address bar of your web browser to open the PTC-305, PTC-305T or PTC-305G's web UI(**Note: This new version Web UI is available from the firmware version v1.1.39 or above**). After that, please enter the default "User Name" and "Password" to enter the web UI.

User Name: admin

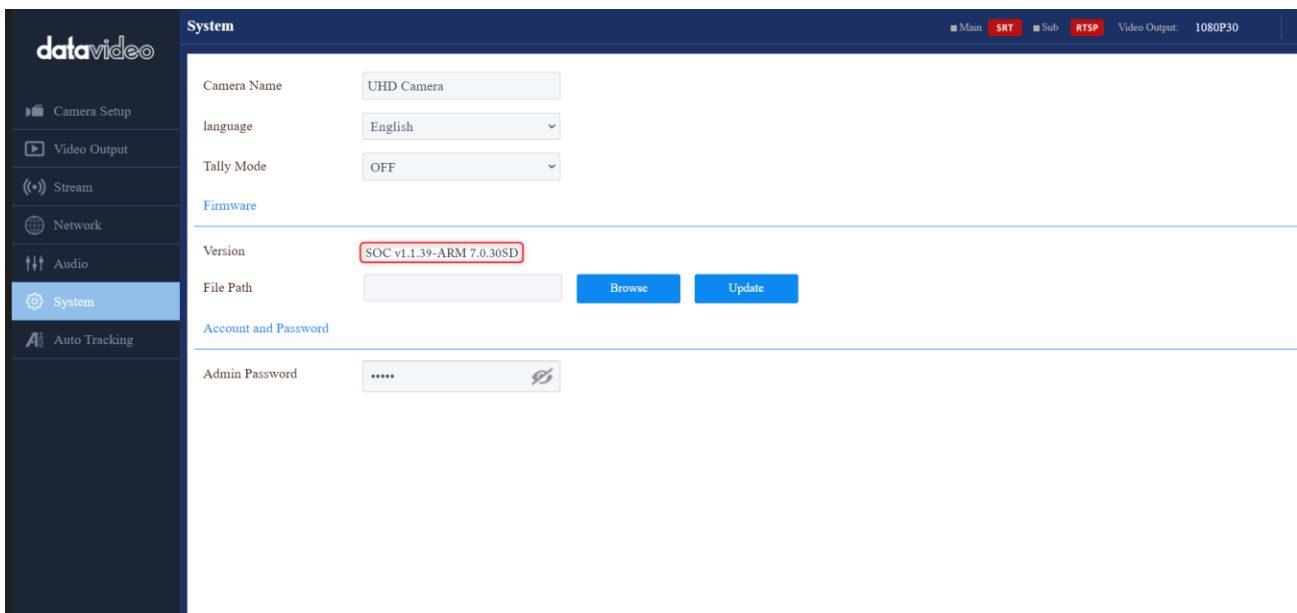
Password: admin



5. After that, you can see the main interface of the PTC-305, PTC-305T or PTC-305G's web UI which is shown in the following diagram. Please click the "System" option.



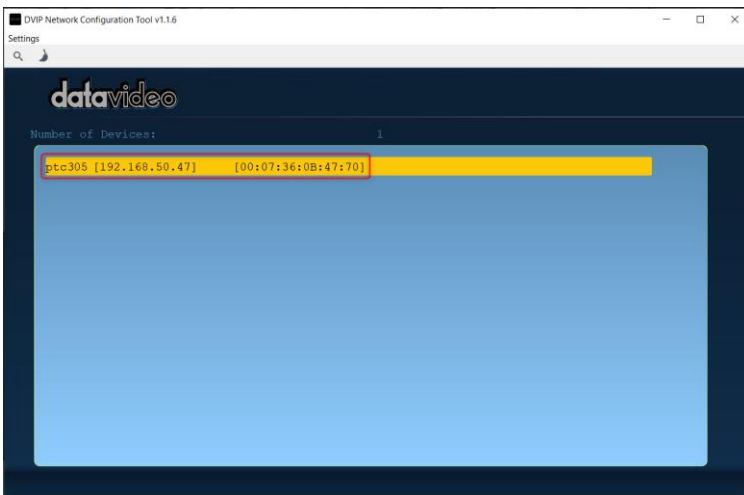
6. After entering into the "System" page, you can see the current firmware version which is shown in the following diagram.



Note: For the PTC-305 series camera which the firmware version is before v1.1.39, please use the firmware update tool or USB flash drive to update the firmware. For the PTC-305 series camera which the firmware version is v1.1.39 or later(v1.1.39 is included), you can use the Web UI or USB flash drive to do the firmware update.

Updating the Firmware-By PTC-305 Series Web UI

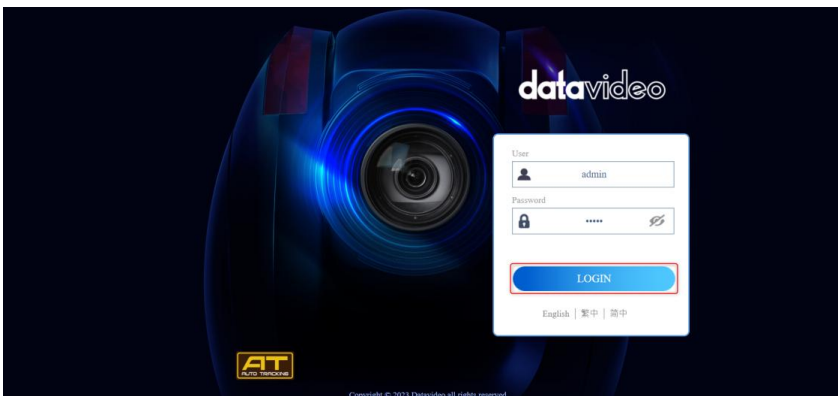
1. Before updating the firmware, please make sure that your PTC-305, PTC-305T or PTC-305G is connected correctly according to the [System Connection Diagram](#)
2. Please make sure that the current firmware version of your PTC-305, PTC-305T or PTC-305G is **v.1.1.39 or above**.
3. Please use the DVIP Network Configuration Tool to find the DHCP IP address of your PTC-305, PTC-305T or PTC-305G. The DVIP Configuration Tool can be downloaded from the product pages of the PTC-305 series cameras from Datavideo official website.



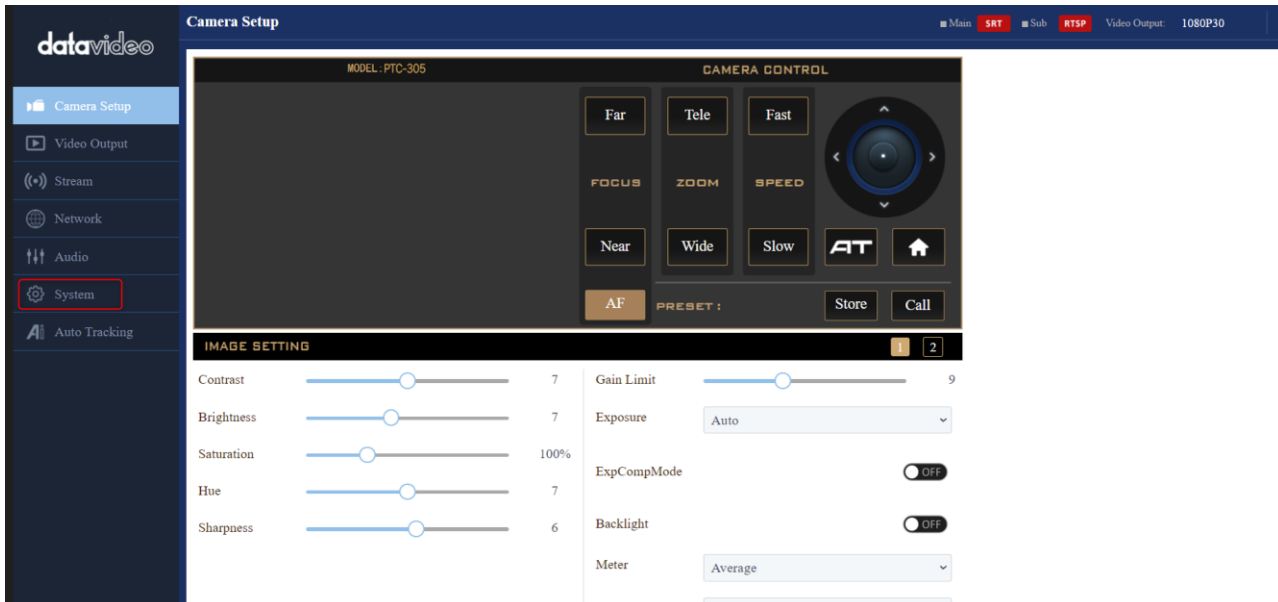
4. Please enter the detected DHCP IP address of your PTC-305, PTC-305T or PTC-305G into the address bar of your web browser to open the PTC-305, PTC-305T or PTC-305G's web UI(**Note: This new version Web UI is available from the firmware version v1.1.39 or above**). After that, please enter the default "User Name" and "Password" to enter the web UI.

User Name: admin

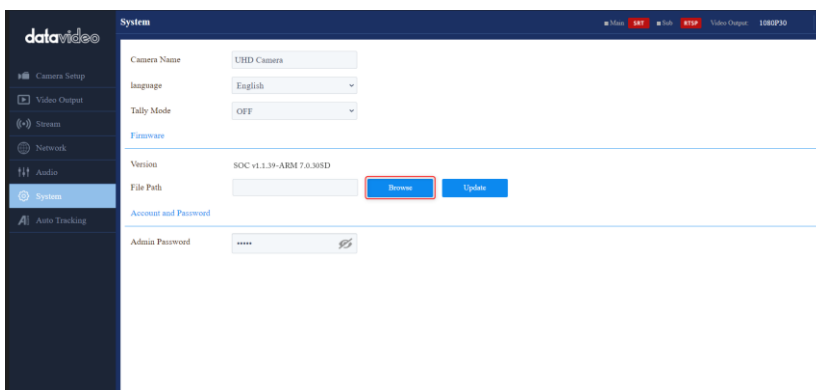
Password: admin

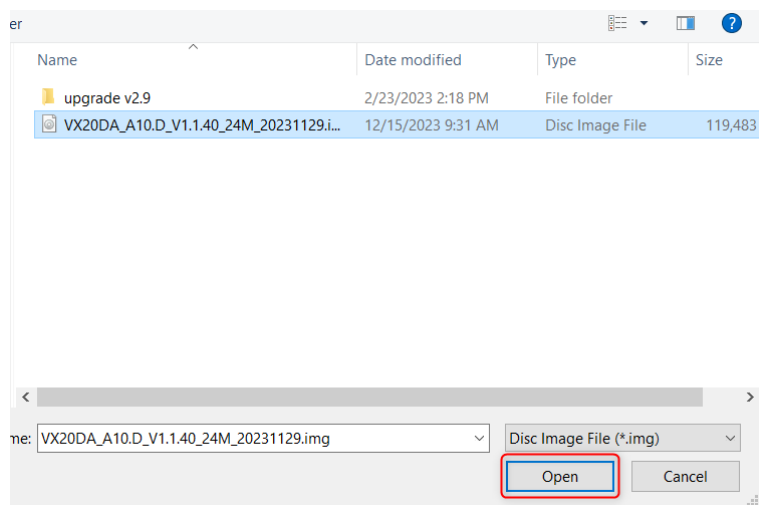


5. You can see the main interface of the PTC-305 series Web UI which is shown in the following diagram. Please click the “System” option.

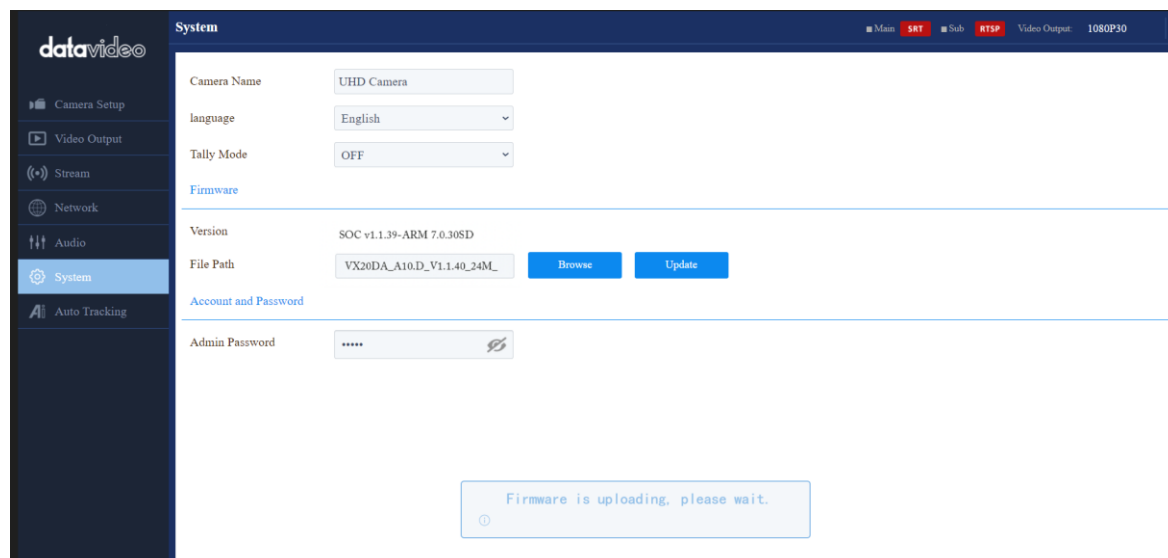
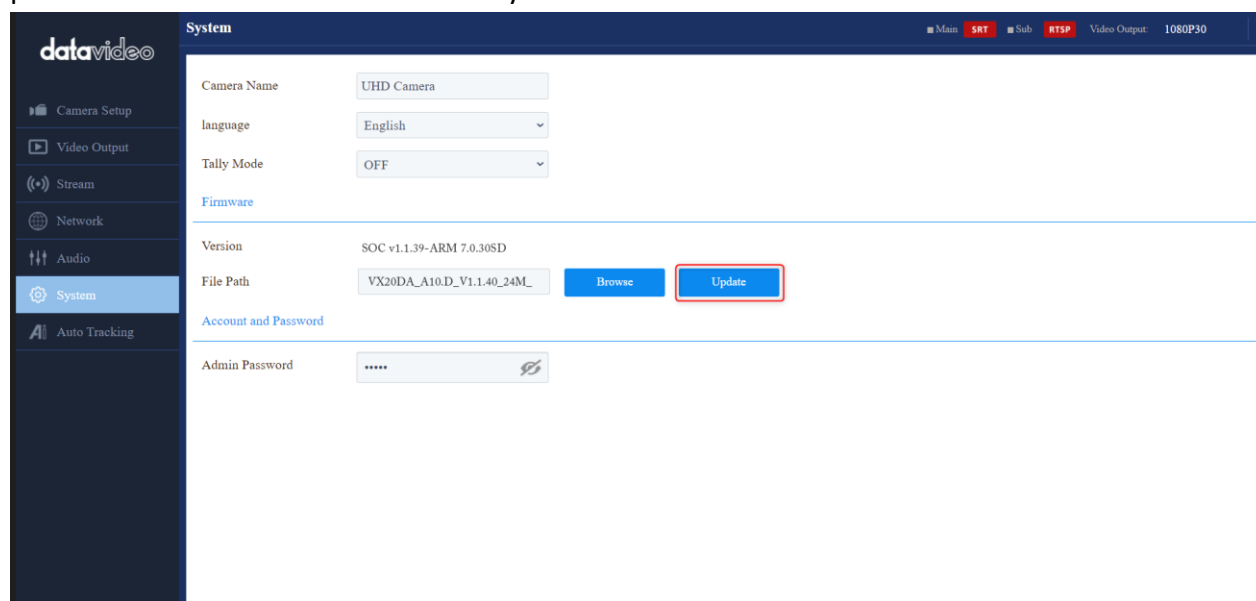


6. After entering the “System” page, please click the “Browse” button to select the latest downloaded and unzipped firmware from your laptop or PC which is shown in the following diagram. We will use the firmware version v1.1.40 as an example in this section.

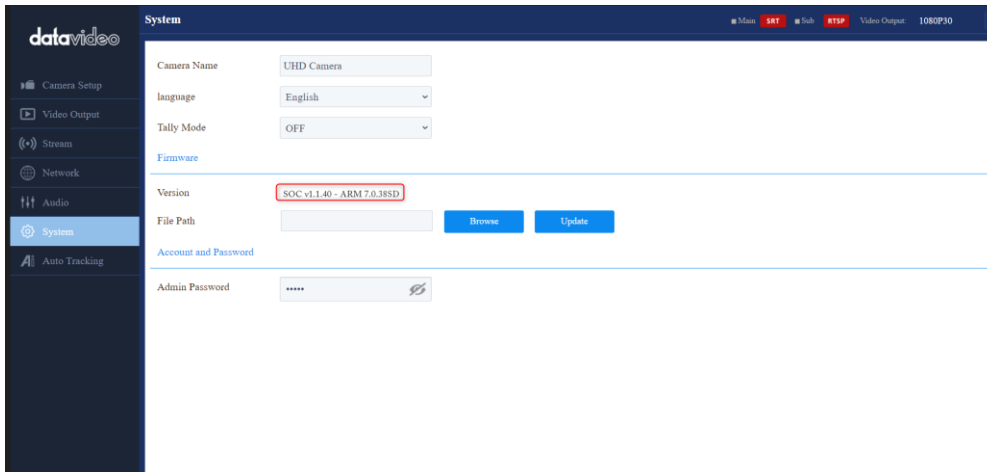




7. After the latest firmware is selected, please click the “Update” button, and then the firmware update procedure will be started automatically.



8. After the firmware update procedure is done, the PTC-305 series camera will reboot automatically, and then the whole firmware update procedure is done successfully. After logging into the Web UI>System, you can see that the new firmware version is shown in the following diagram.



Updating the Firmware-By USB Flash Drive

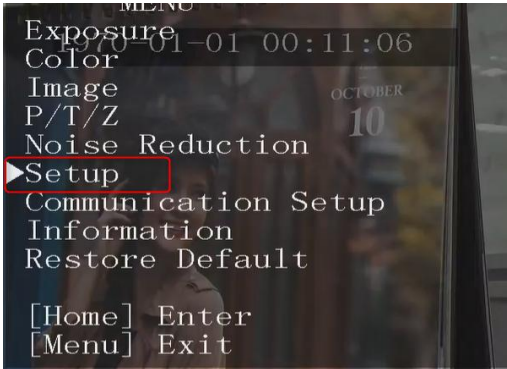
1. Please make sure your PTC-305, PTC-305T or PTC-305G is connected correctly according to the [System Connection Diagram](#) (Firmware Update by USB Flash Drive).
2. Please make sure the latest PTC-305, PTC-305T or PTC-305G firmware is downloaded from its product page from Datavideo official website.
3. Please format your USB flash drive as the FAT32 format.
4. Please unzip the downloaded firmware file and then save the firmware file "VX20DA_A10.D_V1.2.05_24M_20260812.img"  VX20DA_A10.D_V1.2.05_24M_20260812.img into the root directory of your USB flash drive.
5. Please insert the USB flash drive with the latest firmware file into the "F/W UPGRADE ONLY" USB interface which is located on the rear panel of the PTC-305, PTC-305G or the PTC-305T.



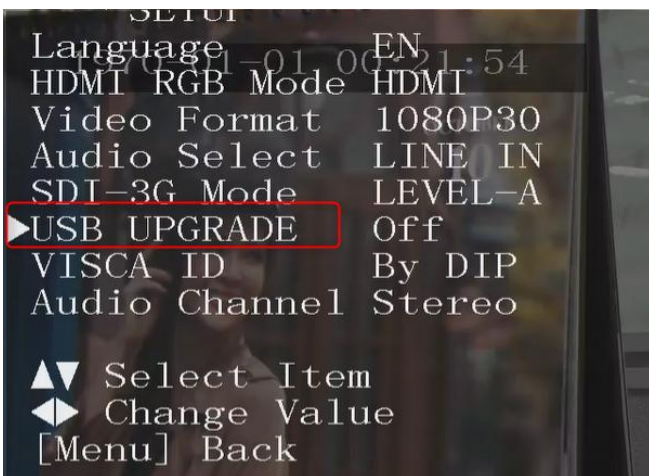
6. Please press the "MENU" button from the PTC-305, PTC-305T or PTC-305G's remote controller to open the camera OSD menu.

7. Please use the “Micro Joystick”  of the PTC-305, PTC-305T or PTC-305G’s remote controller to move to the “Setup” option.

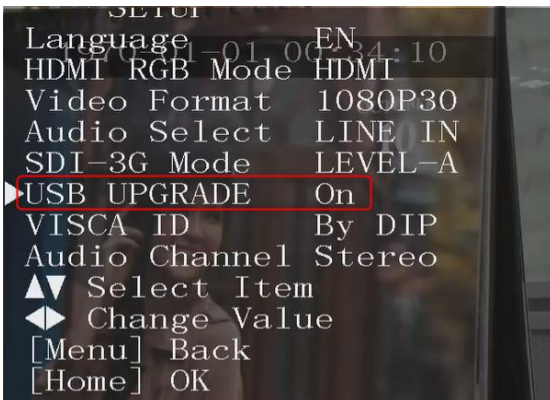
8. After the “Setup” option is selected, please press the “Micro Joystick”  to enter the “Setup” page.



9. Please use the “Micro Joystick” of the PTC-305, PTC-305T or PTC-305G’s remote controller to move to the “USB UPGRADE” option in the “Setup” page.



10. Please move the “Micro Joystick” of the PTC-305, PTC-305T or PTC-305G’s remote controller to the left or right side to turn the “USB UPGRADE” option to “ON”. After that, please press the “Micro Joystick” to confirm the selection, and then the firmware update procedure will be started automatically. During the update procedure, the “**Updating! Please Wait!**” reminder will be shown on the external screen. When the firmware update is done, the PTC-305, PTC-305T or PTC-305G will reboot automatically and the firmware update is done successfully.



Note: No image will be shown on the external screen during a period of time of the firmware update procedure, please do not turn off the camera at this time. After the firmware update is done successfully, the camera will reboot automatically.