# VS-PTC-IP Firmware Update Instructions:

Before starting your firmware updates, please check which model controller you are updating (A3 or A4). This can be found by checking your serial# sticker on bottom of the unit.

The serial# will either contain a **A3** or **A4** as identified below. Make sure that you choose the right IP firmware to load (KEYBOARD firmware 0.8.3M will be the same).

MCU firmware version 0.8.3M --- (update by thumb drive)
IP firmware V2.9.0 and VA.1.1 --- (update by VS-PTC-IP webpage)

## Please identify if the unit is A3 unit or A4 unit by S/N:

**A3** IP board has "A3" in serial number (e.g "01040014M<mark>A3</mark> CO07040029")
**A4** IP board has "A4" in serial number (e.g "01040014M<mark>A4</mark> CO07040001")
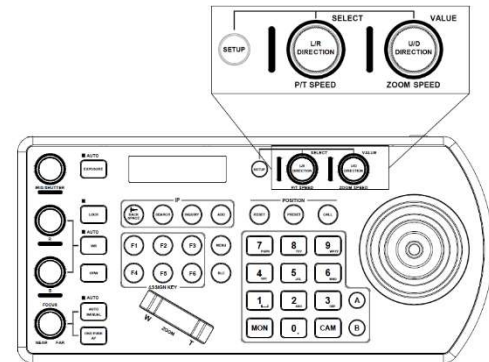
**-** For **A3** unit, install MCU firmware "KEYBOARD" bin file **(Ver. 0.8.3M**) and IP firmware **"20200716_v2.9.0.csf" CSF file.**
**-** For **A4** unit, install MCU firmware "KEYBOARD" bin file **(Ver. 0.8.3M**) and IP firmware **"20200716_VA.1.1" disc image file.**

## Thumb Drive update instructions from "KEYBOARD" & USB stick (bin file update):

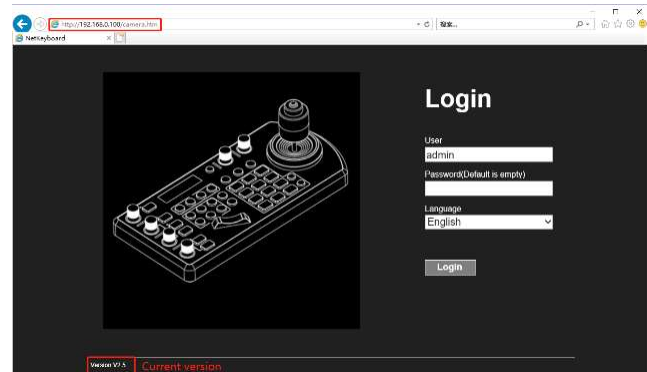This process begins with the keyboard powered OFF.

1. Download and SAVE the ".bin" file contained in "Firmware version Folder" to a USB stick or flash drive with the "KEYBOARD" firmware file in the root directory (not inside of a folder) and insert the flash drive into the USB por<sup>i</sup>t on the back panel of the VS-PTC-IP.
2. Hold down the L/R Direction knob and the U/D Direction Knobs (as seen to the right).
3. While holding the knobs down, power on the keyboard by clicking the power button to "On" position. The keyboard will display a confirmation that the upgrade is taking place.
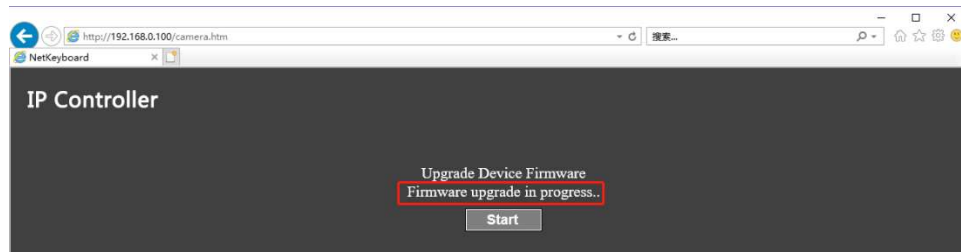4. When the upgrade is finished, power cycle the keyboard

## IP Firmware update instructions through GUI "20190221_V2.6" (CSF file update):

This process begins with the keyboard powered ON.

1. In IP configuration menu, set IP to DHCP. Connect the device IP port to network switcher.
2. Type the IP address from IP configuration menu on Internet Explorer to get to the login page. Enter Username as "admin" and leave password blank. Click "Login".
3. Search and select the IP version firmware file in IP version folder called identified by the firmware to use

(A3 or A4 above) and click "Start" to begin the update. During the update, the interface will show "Firmware upgrade in progress".



4.  A countdown clock will display to indicate the time left until update completion.



5.  After update is finished, check the firmware version inside VS-PTC-IP Setup menu.
    Enter password "0000", go to "Keyboard setting", and go to "Model Info", the FW version will show "**0.8.3M**" and IP will show whichever version corresponds to your unit (A3 or A4 discussed above)