# ServSensor Camera firmware recovery procedure

## 1). Prepare necessary files for the upgrade

Please download the following files to the same directory of your Windows PC:

- `recovery-tools.zip`
- `recovery.pak` (24.6 MB)
  *(md5sum:* `abec82dcb978c69dd4e76ac3993340a8`*)*

Then unzip all files contained in "`recovery-tools.zip`" to the same directory.  The zip file contains 4 files: `kernel.img`, `initrds.img`, `lnuxIPSet.exe` and this document.

## 2). Connection

**Important!**  We recommend that the ServSensor Camera should be connected to a Windows PC used for the upgrade process via a "**cross-over**" cable.

## 3). Run Full System upgrade including low level format

3.1.  Unplug the power of the ServSensor Camera.

3.2.  Run `lnuxIPSet` program on a PC that is connected to the ServSensor Camera via a cross-over cable.  The top label displays "**Press, then release the Reset button on the back of your ServSensor Camera**" with a flashing red background.  Select a "**Full System Upgrade**" mode in the "**Mode**" section.

3.3.  Press and hold the **Reset** button (the red button on the back of the ServSensor Camera), then plug in the power to the ServSensor Camera.  You can release the **Reset** button when the top label of the `lnuxIPSet` changes to "**Press this button to setup your ServSensor Camera**".

**Note**: *the IP address of the ServSensor Camera will be changed to 192.168.0.100 for temporary.  Once the full upgrade process is finished and the ServSensor Camera is rebooted, the IP address will change back to the one that you have assigned to the system.*

3.4.  Next, click on the "**Press this button to setup your ServSensor Camera**" button.  And, leave the `lnuxIPSet` program running.

3.5.  Now, a web browser opens with a "**System Firmware Uploader**" web page.  Click the "**Next**" button to continue.

3.6.  You will be asked for a firmware file.  Click "**Browse**" and navigate to the file "`recovery.pak`". Select "**Yes**" for doing low-level formatting option.  Click "**Next**" to upload the file, and then it will display a message that the file is being uploaded.

3.7.  After the file is completely uploaded, click "**Next**" to confirm, and the recovery process will start.

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*Please note that the process can take up to 3 hours*.

3.8. Once you see a status page with a progress bar of the overall process. That means the setup is in progress.  The red LEDs on the front panel of the ServSensor Camera will be continuously moving from left to right. The green LEDs will show the progress of the overall process.

3.9. When the setup is finished, the options to "**View Log**" of the upgrade process or "**Finish**" the upgrade are displayed on the web interface.  Go back to the `lnuxIPSet` program, and select the "**Automatically Get IP**" mode.  Then, click the "**Finish**" button on the web interface to reboot the ServSensor Camera back to its normal mode.  It can take up to 2 minutes to finish booting up.

3.10. Once the ServSensor Camera starts reboot, it broadcasts the IP and MAC addresses which are captured by and displayed on the `linuxIPSet` program.  The ServSensor Camera should retain its IP address that you have configured.  You can verify that on the `linuxIPSet` program.

3.11. Enter the IP address of the ServSensor Camera to the web browser to open the web interface. Then, click on the "**System**" tab.  On the **System Description** line, it should say the version number of "**CP-MXLV362f**".

**Note:** *You may receive a timeout error message from the web browser while it is reloading a web interface.  Just ignore it, and open the web interface by entering the IP address of the ServSensor Camera to the web browser.*

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