



Release Notes

February 2023

Firmware Update for Camera Models V2102D-W313MIR, V2102B-W313MIR, V2102B-W28IR, V2105D-W313MIR, V2105B-W313MIR and V2105B-W28IR

General Description

Vicon has released firmware for production for the cameras listed below.

The accompanying PRONTO Device Manager Software V2.15 is available on Vicon's website.

These cameras and firmware version have been tested and validated with Vicon's Valerus VMS and with ViconNet V8.x.

Camera	Product Code	Older Firmware	Newest Firmware
V2102B-W313MIR	10558-05	VCNT.01.00.0.11.5849	VCNT.01.00.0.11.6176
V2105B-W313MIR	10558-25		
V2102B-W28IR	10558-00		
V2105B-W28IR	10558-20		
V2102D-W313MIR	10557-00		
V2105D-W313MIR	10557-10		

Vicon Production

The latest firmware and discovery tool are available on Vicon's website.

A link is provided in the installation section of this document.

Manufacturing will start using the released firmware for camera production.

Please review the installation instructions described at the end of this document.



Release Notes

New Features

Motion Detection

Motion is now enabled per default for the entire scene for rapid deployment.

Fixed issues

Vulnerability

"FTP Brute Force" vulnerability was reported by OpenVAS scan. This has been addressed.

Zoom issue

An issue was fixed where a zoom command thru ONVIF would get stuck.

HTTP generic event

An incorrect or empty value in the HTTP generic event field can cause a memory leak. A provision has been implemented to avoid incorrect entries.

SSH Weak algorithm

An issue was fixed where the device was reported in vulnerability scanners with an "SSH Weak Key exchange" warning.

SSL Certificate

An issue was fixed where a newly uploaded certificate was not visible in the UI until the page was refreshed.

HLC controls

HLC (High Light Compensation) controls were in the camera UI where they are not applicable. This has been addressed.

Password

In some cases, after the password was changed, the camera would ask for the new password twice. This has been corrected.

SSL encryption

Optimized the SSL encryption tasks with less performance impact.

ONVIF compliance

Some changes have been implemented to maintain ONVIF compliance to the most recent standard.

FPS throughput

The algorithm for VBR (Variable Bit Rate) has been improved to maximize the framerate.

Parsing error

An internal bug was fixed, where a parser would not be able to read certain strings.



Release Notes

Installing the Updated Firmware

The latest firmware is available on Vicon's website from the Software Downloads page. A link is provided below.

<http://www.vicon-security.com/software-downloads-library/vicon-camera-software/>

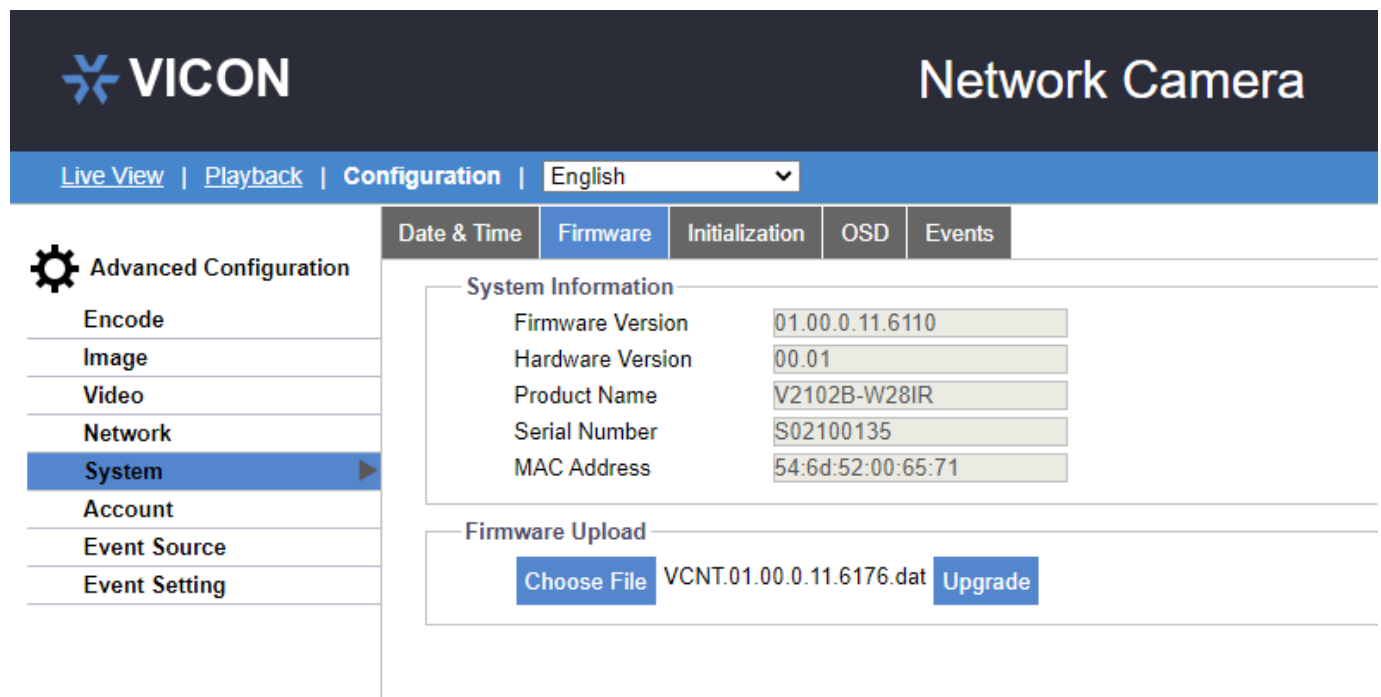
Download the firmware to your PC. Unzip the file.

There are two options to install the new firmware in the camera:

- Using web interface of the camera, uploading the firmware directly into the device.
- With PRONTO Device Manager Software that can be installed on a PC.

Camera Web Interface

In the camera web interface, under Configuration > System > Firmware, press "Choose File" under "Firmware Upload" and select the downloaded firmware file. Then press "Upload" to start the update. The camera will install the update and reboot with the new firmware version:



The screenshot shows the Vicon Network Camera web interface. The top navigation bar includes 'Live View', 'Playback', 'Configuration', and a language dropdown set to 'English'. The left sidebar shows 'Advanced Configuration' with options: Encode, Image, Video, Network, System (selected), Account, Event Source, and Event Setting. The main content area has tabs for 'Date & Time', 'Firmware' (selected), 'Initialization', 'OSD', and 'Events'. Under the 'Firmware' tab, there are two sections: 'System Information' and 'Firmware Upload'. The 'System Information' section displays the following details:

System Information	
Firmware Version	01.00.0.11.6110
Hardware Version	00.01
Product Name	V2102B-W28IR
Serial Number	S02100135
MAC Address	54:6d:52:00:65:71

The 'Firmware Upload' section contains a 'Choose File' button, the filename 'VCNT.01.00.0.11.6176.dat', and an 'Upgrade' button.



Release Notes

Using PRONTO Device Manager Software

PRONTO is Vicon's device manager tool that can be used to discover all Vicon cameras in a network. This standalone single discovery tool running on a PC, allows users to:

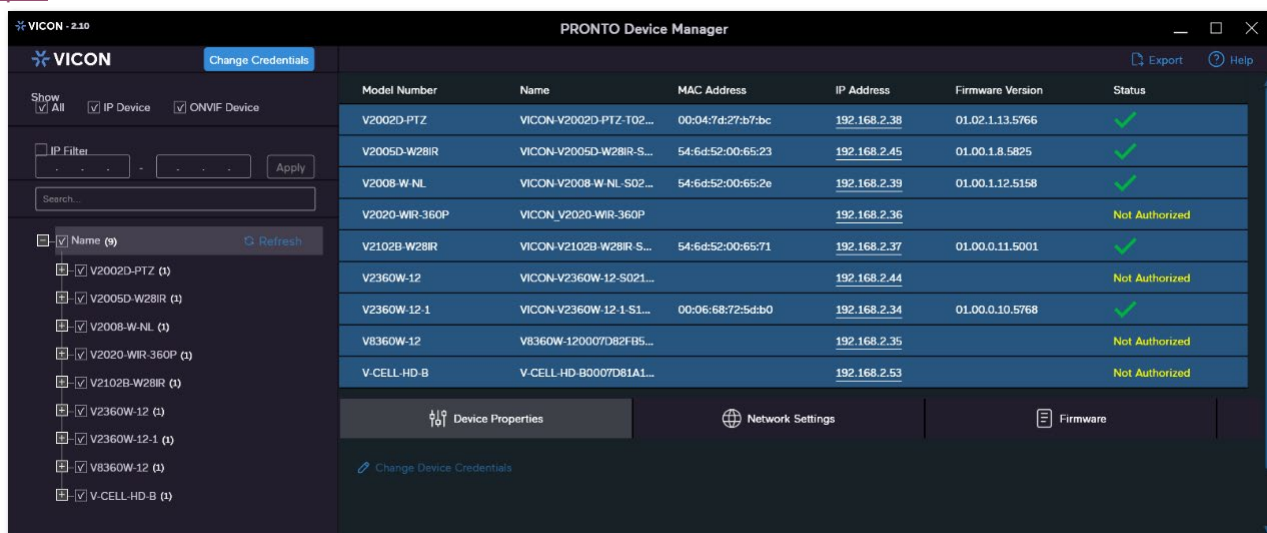
- Discover cameras
- Set up IP addresses: DHCP, manual, batch
- Configure initial passwords
- Launch camera web interface
- Upgrade firmware, single and batch, based on firmware file or device type
- Generate reports for all currently connected cameras, legacy Vicon cameras and other connected ONVIF devices

Pronto Device manager can be downloaded from Vicon's website:

<https://www.vicon-security.com/software-downloads-library/pronto-device-manager-software/>

Pronto Device manager user guide can be found here:

https://www.vicon-security.com/wp-content/uploads/2022/08/Vicon-Pronto-Device-Manager_User-Guide.pdf



- Scan the network and find the camera model that needs a firmware update.
- Enter valid credentials for the camera that needs a firmware update.
- Select camera(s). (More cameras can be selected that use the same firmware file.)
- Press the "Upload Firmware File" button; load the new firmware into Pronto.
- Press "Upgrade Device" and select the new firmware file just loaded into Pronto.
- Press Apply. The new firmware is now uploaded to the selected camera(s).
- Allow some time for the camera(s) to reboot after the firmware is uploaded.
- Press "Refresh" and verify the camera(s) are now listed with the new firmware version.

Note: In some cases, when a new camera model is released, it may be necessary to load a new "FW definition file" into Pronto. This file establishes the correlation between the camera model and the applicable firmware file for the camera model.

When needed, this file will be made available on Vicon's website.