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Product Name: <FD816CA-HF2>  
Release Version: <0120c\_SA2019002>  
Date: <2019/09/02>  
Product Type ☒ Camera ☐ NVR ☐ Software

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## New Feature:

- Support Bonjour.
- Support Trend Micro event.
- Support Trend Micro refund.
- Support showing hostname on DHCP server.

## Changed Feature:

- Upgrade VADP version to 1.4.2.0.
- Upgrade ONVIF version to 18.12.
- Support setting multiple languages for host name, video title, etc.
- Users can download a specific time interval recording from SD card.
- Embedded Genetec protocol.
- Removed Genetec package.
- Removed DDNS forget key button.
- Change the default authentication of streaming protocol from basic to digest.

## Bugs Fixed:

- Fixed CVE-2019-14457, Stack-based buffer overflow via a crafted HTTP header.
- Fixed CVE-2019-14458, Allow a denial of service via a crafted HTTP header.
- Fixed CVE-2019-14477 SACK Panic (Linux >= 2.6.29)
- Fixed CVE-2019-11478 SACK Slowness (Linux < 4.15) or Excess Resource Usage (all Linux versions)
- Fixed CVE-2019-11479 Excess Resource Consumption Due to Low MSS Values (all Linux versions).
- Fixed no streaming via multicast issue when using Genetec Security center.
- Fixed an issue in which SD card playback on multiple web clients could cause playback fail.
- Fixed an issue in which formatting SD card could cause other service fail.
- Fixed an issue in which users can set http port to empty by CGI commend.
- Enhanced the stability of firmware upgrade.
- Fixed wrong fps information display in 3rd party software.

## Known Issue:

- If the snapshot and log file is sent when the event trigger type is set to smart SD, users will not able to search them in Content management page.
- In digest mode, users will need to login more than one time and may need to re-login when switching page.
- If sending a file to the NAS event action, the NAS will not receive the file and the mounting

status might become Error.

**Release Version: <0113b>**

**Date: <2019/07/17>**

**New Feature:**

- N/A

**Changed Feature:**

- Upgrade ONVIF version to 18.06.
- Upgrade Web API to 0311c.
- Change the default access name for HTTP/RTSP stream format.
- Upgrade Genetec package to 1.0a.a0.3.2.
- Upgrade Standard VCA to 3.2.1.

**Bugs Fixed:**

- Fixed CVE-2019-10256, an authentication bypass vulnerability.
- Fixed camera IP change to 127.0.0.1 issue after reboot when Stratocast is enabled.
- Fixed Genetec package crash issue when smart motion is enabled.

**Release Version: <0109a>**

**Date: <2018/12/04>**

- **New Feature:**N/A

**Changed Feature:**

- Upgrade Web API to 0311b
- Upgraded smart SD card version to 1.0.1.4.
- Remove "Customsafe100" from Configuration > Network > DDNS > Provider list.
- Change from pop-up window to notification when uploading configuration file.
- Disable CSRF mechanism after reset to factory mode and will be enable after setting password in factory mode.

**Bugs Fixed:**

- Fixed CVE-2018-18244, persistent XSS via HTTP Referer header.
- Fixed CVE-2018-18005, DOM-Based XSS vulnerability in camera event\_script.js
- Fixed CVE-2018-18004, a notification will show on camera home page when hidden service has been enabled.
- Fixed an issue in which firmware upgrading gets stuck if turn on Trend Micro.
- Fixed Trend Micro display incorrect status in package management page.
- Fixed Trend Micro IoT Security incorrect status in Trend Micro setting page.
- Fixed Trend Micro current version become invisible after upgrade signature issue.
- Fixed failed to upload VADP package issue.