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# RELEASE NOTES

R100 SERIES – FIRMWARE 4.5.4.6

*(BUILD 15864)*

*August 11th, 2017*

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**IONODES INC.**

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[www.ionodes.com](http://www.ionodes.com)

**IONODES**

The **smart** appliance of media.

## FIRMWARE 4.5.4.6

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### RESOLVED ISSUES

- Improved switching time when changing a P2P url.
- Improved the Connection Lost event detection.

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### NEW FEATURES

- No new feature.

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### KNOWN ISSUES

- The connection status for the BNC connector always returns a connected status regardless if a cable is connected or not.
- In rare case, switching a P2P connection could cause a reboot of the device.

## FIRMWARE 4.5.4.2

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### RESOLVED ISSUES

- No new resolved issue.

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### NEW FEATURES

- Improved switching time when disactivating and reactivating a P2P connection.

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### KNOWN ISSUES

- The connection status for the BNC connector always returns a connected status regardless if a cable is connected or not.
- In rare case, switching a P2P connection could cause a reboot of the device.

## FIRMWARE 4.5.4.1

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### RESOLVED ISSUES

- Updated the OSD dynamic field (%s) which display the P2P stream connection state.

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### NEW FEATURES

- No new feature.

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### KNOWN ISSUES

- The connection status for the BNC connector always returns a connected status regardless if a cable is connected or not.
- In rare case, switching a P2P connection could cause a reboot of the device.

## FIRMWARE 4.5.4.0

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### RESOLVED ISSUES

- Updated the OSD dynamic field (%s) which display the P2P stream connection state.

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### NEW FEATURES

- No new feature.

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### KNOWN ISSUES

- The connection status for the BNC connector always returns a connected status regardless if a cable is connected or not.
- In rare case, switching a P2P connection could cause a reboot of the device.

## FIRMWARE 4.5.3.9

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### RESOLVED ISSUES

- Optimizes the time required for switching between layout sequences.
- Fixed an issue preventing an exported configuration to be imported on another device.

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### NEW FEATURES

- Added a new OSD dynamic field (%s) to display the P2P stream connection state.
- Added the P2P connection state to the ION API and the SNMP MIB.

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### KNOWN ISSUES

- The connection status for the BNC connector always returns a connected status regardless if a cable is connected or not.
- In rare case, switching a P2P connection could cause a reboot of the device.

## FIRMWARE 4.5.3.7

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### RESOLVED ISSUES

- Fixed an issue when using a P2P active connection through the Windows Firewall if the stealth mode is enabled. The issue may cause the connection to not close properly and thereby may block the reconnection.

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### NEW FEATURES

- No new feature.

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### KNOWN ISSUES

- The connection status for the BNC connector always returns a connected status regardless if a cable is connected or not.
- In rare case, switching a P2P connection could cause a reboot of the device.

## FIRMWARE 4.5.3.6

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### RESOLVED ISSUES

- Fixed an issue when switching a P2P connection over a long period of time.

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### NEW FEATURES

- No new feature.

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### KNOWN ISSUES

- The connection status for the BNC connector always returns a connected status regardless if a cable is connected or not.
- In rare case, switching a P2P connection could cause a reboot of the device.



## FIRMWARE 4.5.3.5

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### RESOLVED ISSUES

- Fixed an issue when switching a P2P connection over a long period of time.

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### NEW FEATURES

- No new feature.

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### KNOWN ISSUES

- The connection status for the BNC connector always returns a connected status regardless if a cable is connected or not.
- In rare case, switching a P2P connection could cause a reboot of the device.

## FIRMWARE 4.5.3.3

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### RESOLVED ISSUES

- Enabled the audio input management in the web page.
- Fixed an issue with the audio decoding if the audio source comes from an IONODES device.
- Fixed an issue when switching a P2P connection over a long period of time.

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### NEW FEATURES

- No new feature.

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### KNOWN ISSUES

- The connection status for the BNC connector always returns a connected status regardless if a cable is connected or not.

## FIRMWARE 4.5.3.1

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### RESOLVED ISSUES

- Optimized operations when switching a 2x2 and a sequence layout.
- Changing the sequence order is applied immediately and no longer waits until the next sequence switch.

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### NEW FEATURES

- No new feature.

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### KNOWN ISSUES

- The connection status for the BNC connector always returns a connected status regardless if a cable is connected or not.

## FIRMWARE 4.5.3.0

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### RESOLVED ISSUES

- Fixed an issue when the getting a malformed or missing SPS/PPS.
- Fixed an issue when handling a malformed SDP RTSP response.

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### NEW FEATURES

- No new feature.

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### KNOWN ISSUES

- The connection status for the BNC connector always returns a connected status regardless if a cable is connected or not.

## FIRMWARE 4.5.2.9

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### RESOLVED ISSUES

- Fixed an issue when changing the displayed layout from 2x2 to 1x1 (sequence or not) and vice versa.
- Fixed an issue where the OSD wasn't updated when changing a stream in sequence mode.

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### NEW FEATURES

- No new feature.

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### KNOWN ISSUES

- The connection status for the BNC connector always returns a connected status regardless if a cable is connected or not.

## FIRMWARE 4.5.2.8

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### RESOLVED ISSUES

- API: Fixed an issue with the reported status for the digital video output connection. This also fixes the reported SNMP value for the digital output connection status.

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### NEW FEATURES

- No new feature.

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### KNOWN ISSUES

- The connection status for the BNC connector always returns a connected status regardless if a cable is connected or not.

## FIRMWARE 4.5.2.7

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### RESOLVED ISSUES

- System: Fixed an issue with the reported date time for some time zones.

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### NEW FEATURES

- No new feature.

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### KNOWN ISSUES

- See section below.

## FIRMWARE 4.5.2.6

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### RESOLVED ISSUES

- System: Improved diagnostics information.
- System: Fixed an issue where the network information could be reset to its default values.

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### NEW FEATURES

- No new feature.

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### KNOWN ISSUES

- See section below.



## FIRMWARE 4.5.2.5

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### RESOLVED ISSUES

- System: Improved diagnostics information.

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### NEW FEATURES

- No new feature.

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### KNOWN ISSUES

- See section below.

## FIRMWARE 4.5.2.4

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### RESOLVED ISSUES

- Video: Fixed an issue when switching a point-to-point connection from an HTTP mjpeg source to another HTTP mjpeg source.
- OSD: Fixed OSD issue when configured in sequence.

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### NEW FEATURES

- No new feature.

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### KNOWN ISSUES

- See section below.

## FIRMWARE 4.5.2.3

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### RESOLVED ISSUES

- Network: Fixed an issue where a wrong IP address could be sent when sending IGMP reports.

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### NEW FEATURES

- No new feature.

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### KNOWN ISSUES

- See section below.

## FIRMWARE 4.5.2.2

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### RESOLVED ISSUES

- Configuration: Fixed an issue where the “Send RTCP Reports” parameter wasn’t visible in the web page.

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### NEW FEATURES

- No new feature.

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### KNOWN ISSUES

- See section below.

## FIRMWARE 4.5.2.1

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### RESOLVED ISSUES

- Decoding: Fixed an issue with MJPEG decoding when set at 4 fps or lower. It would cause the video decoder in and out of starve mode every few seconds.

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### NEW FEATURES

- Decoding: Added a new configuration parameter to optimize H.264 performance. If activated, this parameter disables MJPEG and audio decoding.
- OSD: Added support for OSD.
- Decoding: Added a protection that reboots the device if a stall is detected by the decoder.

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### KNOWN ISSUES

- See section below.

## FIRMWARE 4.5.0.1

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### RESOLVED ISSUES

- Web Server: Fixed an issue with HTTPS.
- System: IGMP packets are properly sent again when the device joins or leaves multicast groups.
- FWU: Improved the resource usage during a firmware update. In the future, consecutive full firmware updates should no longer report an error.
- RTSP: The device now resets all point-to-point connections when the IP address of the device changes.
- RTSP: The TEARDOWN command now includes the stream's full URI.
- MJPEG: Fixed a compatibility issue with some MJPEG streams over HTTP.
- Network: Fixed an issue when changing the IP address from the Config Tool.

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### NEW FEATURES

- WEB: In the web interface, the page Diagnostics has been renamed Inputs / Outputs. The page has been extended to display the status of the Output relays and let the user control them.
- Command console: Added a new utility command (httpstat) to display the current HTTP connections.

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### KNOWN ISSUES

- See section below.

## FIRMWARE 4.5.0.0

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### RESOLVED ISSUES

- Ion API: Fixed an issue with the GMT offset attribute which didn't take into account the DST.
- SNMP: Fixed an issue when querying the connection status of a video output.
- RTSP: RTSP Receiver reports for multicast video streams are no longer sent from the device's APIPA network address.
- Security: Fixed an issue with the deletion of a user account when the username is «admin» spelled with at least one uppercase letter.

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### NEW FEATURES

- The web interface now displays the device-local time.
- RTSP: Added a new RTSP parameter to select whether or not to send RTCP Receiver reports.

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### KNOWN ISSUES

- See section below.

## FIRMWARE 4.4.0.0

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### RESOLVED ISSUES

- No new resolved issue.

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### NEW FEATURES

- Video: Optimization of the H264 video decoding.

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### KNOWN ISSUES

- The optimization applies only for an H264 video source.
- See section below.



## FIRMWARE 3.4.2.2

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### RESOLVED ISSUES

- Video: Fixed a problem of packet lost between the source and the decoder causing pixelization.

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### NEW FEATURES

- Web page: Added a cpu usage indicator to the side box.

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### KNOWN ISSUES

- See section below.

## FIRMWARE 3.4.2.1

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### RESOLVED ISSUES

- Video: Fixed jumpy video with some resolutions.
- Security: Fixed an issue when creating a duplicate user account.

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### NEW FEATURES

- No new feature.

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### KNOWN ISSUES

- See section below.

## FIRMWARE 3.4.2.0

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### RESOLVED ISSUES

- Production: Fixed an initialization problem that could prevent the production.

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### NEW FEATURES

- No new feature.

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### KNOWN ISSUES

- See section below.

## FIRMWARE 3.4.0.8

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### RESOLVED ISSUES

- DNS vs P2P: Fixed an issue where the RTSP connection fails when a hostname was used.

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### NEW FEATURES

- No new feature.

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### KNOWN ISSUES

- See section below.

## FIRMWARE 3.4.0.7

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### RESOLVED ISSUES

- Discovery: Fixed an issue when assigning a new ip address from the IonConfig Tool when the device is on apipa.

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### NEW FEATURES

- No new feature.

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### KNOWN ISSUES

- See section below.

## FIRMWARE 3.4.0.6

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### RESOLVED ISSUES

- No new resolved issue.

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### NEW FEATURES

- Video: Updated the decoding software that fixes some H264 decoding problems.

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### KNOWN ISSUES

- See section below.

## FIRMWARE 3.4.0.5

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### RESOLVED ISSUES

- Video: Fixed an issue with jpeg decoding in 4:2:2 format.
- Video: Reject resolutions that are not multiples of 8, because this could cause a decoding error.

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### NEW FEATURES

- No new feature.

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### KNOWN ISSUES

- See section below.

## FIRMWARE 3.4.0.4

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### RESOLVED ISSUES

- Video: Fixed an issue with jpeg decoding if resolution is greater than 4CIF.

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### NEW FEATURES

- P2P: Added new attribute to force unicast for P2P (enabled by default).

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### KNOWN ISSUES

- See section below.



## FIRMWARE 3.4.0.3

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### RESOLVED ISSUES

- Video: Fixed rendering issue with interlaced video decoding.

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### NEW FEATURES

- Video: Display a message when detecting invalid resolution.

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### KNOWN ISSUES

- See section below.

## FIRMWARE 3.4.0.2

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### RESOLVED ISSUES

- Firmware compatible with the Field Update Tool.

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### NEW FEATURES

- No new feature.

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### KNOWN ISSUES

- See section below.

## FIRMWARE 3.4.0.0

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### RESOLVED ISSUES

- System: Fixed a potential problem with the flash memory management.

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### NEW FEATURES

- No new feature.

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### KNOWN ISSUES

- See section below.

## FIRMWARE 3.0.1.7

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### RESOLVED ISSUES

- Point-to-Point: Fixed a problem of packet lost between the source and the decoder causing pixelization.

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### NEW FEATURES

- No new feature.

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### KNOWN ISSUES

- See section below.

## FIRMWARE 3.0.1.6

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### RESOLVED ISSUES

- Point-to-Point: Support for Bosch VideoJet device.

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### NEW FEATURES

- No new feature.

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### KNOWN ISSUES

- See section below.

## FIRMWARE 3.0.1.4

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### RESOLVED ISSUES

- System: Fixed an issue when changing the date / time of a device when the time zone is different as UTC.
- Serial port: Fixed an issue when reading data on the serial port.

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### NEW FEATURES

- No new feature.

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### KNOWN ISSUES

- See section below.

## FIRMWARE 3.0.1.3

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### RESOLVED ISSUES

- RTSP: Fixed an issue with the RTSP session timeout causing a disconnection of the live stream.
- RTSP: Fixed an issue with the RTSP GET\_PARAMETER command if the camera doesn't support a requested parameter.

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### NEW FEATURES

- No new feature.

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### KNOWN ISSUES

- See section below.

## FIRMWARE 3.0.1.2

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### RESOLVED ISSUES

- Streaming: Fixed an issue with RTSP. Added the “Accept” header field in the RTSP response.

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### NEW FEATURES

- No new feature.

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### KNOWN ISSUES

- See section below.



## FIRMWARE 3.0.1.1

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### RESOLVED ISSUES

- No new resolved issue.

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### NEW FEATURES

- Video: Added 1080p30 video output format.

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### KNOWN ISSUES

- See section below.

## FIRMWARE 3.0.1.0

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### RESOLVED ISSUES

- P2P: Changed the timeout of active HTTP P2P connection from 30 to 5 seconds.

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### NEW FEATURES

- No new feature.

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### KNOWN ISSUES

- See section below.

## FIRMWARE 3.0.0.9

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### RESOLVED ISSUES

- Decoder: Fixed a decoding issue with Samsung cameras.

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### NEW FEATURES

- No new feature.

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### KNOWN ISSUES

- See section below.

## FIRMWARE 3.0.0.8

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### RESOLVED ISSUES

- No new resolved issue.

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### NEW FEATURES

- Video: Added frame rate throttling for a mjpeg video source .

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### KNOWN ISSUES

- See section below.

## FIRMWARE 3.0.0.7

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### RESOLVED ISSUES

- System: Fixed an issue that could reboot the device after a long period of time.

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### NEW FEATURES

- No new features.

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### KNOWN ISSUES

- See section below.

## FIRMWARE 3.0.0.6

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### RESOLVED ISSUES

- Streaming: Fixed a problem with a point-to-point active RTSP connection that could reboot the device.

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### NEW FEATURES

- Streaming: Added RTCP receiver report to a point-to-point active RTSP client.

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### KNOWN ISSUES

- See section below.

## FIRMWARE 3.0.0.3

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### RESOLVED ISSUES

- System: Fixed a problem when reading the internal temperature causing a device reboot.

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### NEW FEATURES

- No new feature.

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### KNOWN ISSUES

- See section below.

## FIRMWARE 3.0.0.2

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### RESOLVED ISSUES

- Point-to-Point: Improve the connection management for an RTSP client when configuring an active connection.

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### NEW FEATURES

- No new feature.

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### KNOWN ISSUES

- See section below.



## FIRMWARE 3.0.0.1

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### RESOLVED ISSUES

- No new resolved issue.

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### NEW FEATURES

- System: Added support for SNMP (basic package).
- System: Improve boot up time.
- Video: Added support for the 1080i video resolution.

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### KNOWN ISSUES

- See section below.

## FIRMWARE 2.4.1.5

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### RESOLVED ISSUES

- Point-to-Point: Fixed some issues when decoding an H-264 video stream.

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### NEW FEATURES

- No new feature.

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### KNOWN ISSUES

- See section below.

## FIRMWARE 2.4.1.4 GA

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### RESOLVED ISSUES

- Point-to-Point: Fixed some issues when decoding an H-264 video stream.

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### NEW FEATURES

- No new feature.

---

### KNOWN ISSUES

- See section below.

## FIRMWARE 2.4.1.2 GA

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### RESOLVED ISSUES

- No new resolved issue.

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### NEW FEATURES

- Audio: Added support for audio over HDMI.

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### KNOWN ISSUES

- See section below.

## FIRMWARE 2.4.1.1 GA

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### RESOLVED ISSUES

- Point-to-Point: Fixed some issues when setting an RTSP active connection for an invalid URI.

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### NEW FEATURES

- No new feature.

---

### KNOWN ISSUES

- See section below.

## FIRMWARE 2.4.1.0 GA

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### RESOLVED ISSUES

- No new resolved issue.

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### NEW FEATURES

- Point-to-Point: Added support for an RTSP active connection.

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### KNOWN ISSUES

- See section below.

## FIRMWARE 2.4.0.9 GA

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### RESOLVED ISSUES

- Serial Port: Fixed a potential latency when using the serial port.

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### NEW FEATURES

- System: Added support for the export http attributes.

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### KNOWN ISSUES

- See section below.