



# Release Notes

Presentation Recorder HD  
Versions 6.10.1, 7.10.1 & 8.1.1  
*(Software Updates)*  
April 12th, 2017

## NCast Support

Web site	<a href="http://www.ncast.com">www.ncast.com</a>	Phone	+1 408-844-9080 x247
Email	<a href="mailto:support@ncast.com">support@ncast.com</a>	FAX	+1 408-844-9091

*Thank you for purchasing NCast products*

## **Introduction**

This note covers the changes to software in the NCast Presentation Recorder products.

The fastest way to get support for your product is to open a support ticket on our website. Go to the Contact page on our site to get started. It is often helpful to include the downloaded logs with your ticket. Logs may be downloaded from the Status page on the recorder.

## **Software Updates**

You may obtain the most current software by clicking the UPDATE icon in the Presentation Recorder web page.

- 8.1.x Releases – PR-HD Products (Basic, Extreme, Ultra)
- 7.10.x Releases – PR-720 Extreme Products
- 6.10.x Releases – PR-720 Basic Products

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## **Version 8.1.1 changes**

**June 26th, 2017**

### *New features*

Redirect http to https when https is in use.

### *Bug Fixes*

No bugs.

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## **Version 8.1.0 changes**

**January 16th, 2017**

### *New features*

Switched to HTML5 video player.

### *Bug Fixes*

Google Calendar fix.

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## **Version 8.0.30 changes**

**November 14th, 2016**

### *New features*

Added support for channel RTMP options to serial interface.

### *Bug Fixes*

No bugs!

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## **Version 8.0.29 changes**

**October 28th, 2016**

### *New features*

This is a maintenance release only.

### *Bug Fixes*

FAT file time stamps fix - use local time instead of UTC.

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**Version 8.0.28 changes**

**September 1st, 2016**

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*New features*

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RTMP memory leak workaround.

Added stability fix - restart media process every 3 days.

Manual archive upload fix.

Fill overrun audio samples with silence in MP4 files.

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**August 10th, 2016**

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*New features*

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*Bug Fixes*

No bugs!

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Opencast connection test fix.

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**Version 8.0.25 changes**

**March 9th, 2016**

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*New features*

Added upload to Google Drive.

Added upload to YouTube.

Added Media Gallery.

Added license key for Media Gallery.

*Bug Fixes*

No bugs!

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**Version 8.0.24 changes**

**February 4th, 2016**

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*New features*

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Google calendar fix - only IP address was supported in Where field.

OSD fix - update IP address.

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*New features*

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*Bug Fixes*

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**July 23rd 2015**

*New features*

Added Kaltura Drop Folder XML file option to FTP and SSH upload.

*Bug Fixes*

No bugs.

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This is a maintenance release only.

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iCalendar scheduler fix - iCalendar checkbox couldn't be set to on.

Auto window mode fix - window size was not set correctly for 1920x1200 inputs.

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*New features*

Added PB serial command (start session).

Added UP serial command (upload progress).

Added C<num>,N serial command. This command selects channel <num> without starting session.

Added network iCalendar support - scheduler downloads iCalendar file from remote location (for example from Google Calendar).

Added Google Calendar API v3 support to scheduler.

*Bug Fixes*

VGA signal detection fix - fixed IFM measurements of vfreq and vtotal.

Serial interface fix - fixed streaming status for record only session type.

Upload start on slave unit fix - fixed rpc params and json encoding.

Audio capture fix - increased size of capture buffer, increased number of audio encoder buffers.

RTPM streaming channels fix - unit was using multicast addresses in RTMP streaming mode.

RTP library fix - process could crash because local source was removed (large number of RTP receivers).

VGA picture freeze fix - for some cases VGA auto positioning was setting negative hstart value.

Audio encode start fix - flush audio buffer on encode start to avoid large offset between audio and video in recordings.

Slave upload to Matterhorn fix - fixed broken id.

Disabled M0 and M1 serial commands.

HTTPS protocol fix - updated lighttpd server to fix issues with HTTPS on some browsers.

Quick Start page fix - allow coordinator to get /configuration/slave REST endpoint.

Fixed broken VGA image and resolution detection.

- Slave upload fix - on RTMP channels master unit sometimes would not initiate upload on slave unit.
- H.264 and MPEG-4 encoder pixel range fix - pixel range flag was incorrectly set to 16-235 instead of 0-255.
- Bigger OSD window - increased OSD window width and IP address font size.
- Automatic archive remove fix - archives were not moving to trash after successful upload.
- H.264 decoder speed up - enabled closed loop decoder mode.
- Tuned video decoding and buffering - on 1080 products receiver video was distorted.
- ST8028 lockup fix - if chip is not responding for 1 min reset it.
- ST8028 communication fix - send commands to ST8028 at slower rate. ST8028 can ignore commands which are sent one after another - for example setting PIP window.
- Overlays loading fix - unit was not loading new overlay if its mod time was the same as old overlay.
- Recording auto start fix - don't auto start recording if it's already running (for example it was started manually earlier).
- Faster RTSP reconnection - try to reconnect to RTSP server every 10 secs instead of every 1 min.
- Slave unit configuration dialog fix - save configuration before Connection Test.
- Architecture name fix - architecture name was cut on Status tab.
- Minimum window size fix - don't set window size smaller than 2x2, setting width or height to 0 could result in unexpected behaviour.
- Signal detection status fix - signal status could be wrong if HDMI signal is detected.
- iCalendar fix - fixed recurrent event start time.
- iCalendar fix - never-ending recurrent event fix. Parsing never-ending recurrent event was saturating CPU.
- iCalendar fix - CPU usage was 100% when old Google Calendar state was left enabled.
- VGA signal fix - reset capture chip on VGA signal misdetection.
- Async RTMP connection start - RTMP start could block media process in some cases (if server was not available).
- Is serial command fix - removed new line from architecture.
- Session start fix - make sure recording has stopped before starting new session.
- Video capture fix - capture thread could block in some configurations.

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**Version 8.0.16 changes****September 2nd, 2014*****New features***

Changed RTMP/RTSP Channel Start – The Session will always start even if there is no connection to the server (the unit tries to reconnect every 1 minute). You can check on the server connection status via the web page (in the bottom status bar) or by using a serial interface status command.

Updated NTP client version.

Factory defaults set NTP on.

Faster channel start - optimized overlays loading and reduced RTMP/RTSP connection time.

Updated factory SSL certificate and private key – the old certificate was no longer valid.

Added upload retry on failure. There will be 3 attempts of re-upload every 30 minutes.

Extended /rest/configuration/settings to import/export channels.

Master/Slave mode: recording pause button hidden at Master.

Added the possibility to load the system's configuration with a USB stick with settings.json and settings.json.password files.

### ***Bug Fixes***

Video decoder fix - reserved more memory for video decoder.

1080P signal capture fix - eliminated frame stitching.

System logs fix - with Remote Logging enabled logs are saved to the SD card too.

Fixed Kaltura API creator entry.

Kaltura authorized KMC users upload fix - removed partner ID.

Added additional Kaltura error messages in logs.

Upload progress to Matterhorn fix. It was showing constant value of 0%.

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## **Version 8.0.15 changes**

**June 30th, 2014**

### ***New features***

Added minimum fan speed option to the Custom tab. Automatic fan control will never go below this speed. Required to manage some fan types.

Added /configuration/settings REST endpoint. This endpoint exports & imports all configuration settings except files like overlays or SFTP keys.

Added custom SSH public keys upload from USB stick.

### ***Bug Fixes***

Software update from USB fix. Update from USB was looking for wrong release filename (for example dm368\_a.b.c.bin instead of basic\_a.b.c.bin).

Matterhorn scheduler fix. Scheduler was not retrieving new events after 24h.  
Suppressed REST API JSON error message. POST call with empty body was printing warning message in logs.

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**Version 8.0.14 changes****June 5th, 2014**

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*New features*

This is a maintenance release only.

*Bug Fixes*

Matterhorn scheduler fixes: Fixed scheduler crash on configuration update. Fixed condition for finding an in-progress recording.

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**Version 8.0.13 changes****May 29th, 2014**

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*New features*

Added "Remove archives automatically" option. When this option is enabled the unit will automatically remove the oldest archives to free space for a new recording.

Presentation Server/Matterhorn dynamic scheduling. Schedule is updated every 30 seconds.

*Bug Fixes*

Software update notification fix.

Channel layout editor fix.

Adjusted audio & video synchronization.

Settings import fix.

Scheduler overlapped events fix.

Fixed setting main window size. In some cases main window vertical size was not set correctly.

Tuned I/O flush to minimize audio frame drops.

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**Version 8.0.12 changes****April 29th, 2014**

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*New features*

Added remote logging. System logs can be redirected to a PC host running a syslog service.

Increased max log file size to 10240kB.

*Bug Fixes*

Fixed reported input signal resolution.

Fan speed is adjusted more frequently on unit startup (every 10 secs).

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**Version 8.0.11 changes****April 1st, 2014**

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### *New features*

This is a maintenance release only.

### *Bug Fixes*

Changed ADC settings for VGA and Component inputs. With old settings the captured image was dark.

Changed RGB to YCbCr conversion for image and text overlays to use full 8-bit range.

Reset ST8028 chip on unit reboot.

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## **Version 8.0.10 changes**

**March 14th 2014**

### *New features*

Coordinator can shutdown and reboot unit.

Added good bye message to unit shutdown page.

Automatically resize or empty trash can to free disk space. If disk near-full threshold is reached unit will try to go below threshold by automatically removing oldest recordings from the trash can.

Report processes status in logs every 12h.

### *Bug Fixes*

Fixed dc<0|1> serial command.

Changed fan speed control method. New method aims to keep board temperature in 45C-47C range.

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## **Version 8.0.9 changes**

**March 7th, 2014**

### *New features*

Changed search function on web page (archives, events and logs) to use regex syntax and made it case sensitive.

### *Bug Fixes*

Report correct recording duration in paused state.

PIP Full mode fix - sometimes main window was visible.

Fixed upload to Matterhorn in master/slave configuration. Upload recordings in sequence and report correct status if upload from slave fails.

Fixed serial interface uploader status.

Fixed fan speed control support detection.

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## **Version 8.0.8 changes**

**February 25th, 2014**

### *New features*

Changed upload start time granularity to 1 hour.

Added fan speed control.

Added board temperature monitoring.

***Bug Fixes***

Presentation Server upload fix.

Master/Slave connection fix.

Kaltura connection test fix.

**Version 8.0.7 changes**

**January 21st, 2014**

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***New features***

Added main and PIP window full screen modes.

Added disk configuration options.

Added support for SDI input.

***Bug Fixes***

No bugs in this release.

**Version 8.0.6 changes**

**December 2nd, 2013**

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***New features***

This is a maintenance release only.

***Bug Fixes***

STDP8028 reset workaround.

Export settings fix.

Software update from USB fix.

**Version 8.0.5 changes**

**November 26th, 2013**

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***New features***

Added OSD options.

Enabled STDP8028 log messages

***Bug Fixes***

Automatic recording start fix.

Manual recording start fix.

Updated STDP8028 firmware update script.

Fixed udev init script.

Fixed software update from USB disk.

**Version 8.0.4 changes**

**October 30th, 2013**

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***New features***

This is a maintenance release only.

***Bug Fixes***

Matterhorn scheduler fix.

**Version 8.0.3 changes**

**October 24th, 2013**

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***New features***

This is a maintenance release only.

***Bug Fixes***

JSON memory leak fix.

Added support for special characters in capture agent name.

**Version 8.0.2 changes**

**September 20th, 2013**

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***New features***

This is a maintenance release only.

***Bug Fixes***

Serial interface upload status fix.

Fixed RL serial command.

Fixed memory leaks.

HDMI & DVI signal detection fix.

Auto adjust fix.

Scheduler event location fix.

PPS encoding fix.

**Version 8.0.1 changes**

**September 6th, 2013**

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***New features***

This is a maintenance release only.

***Bug Fixes***

Fixed REST endpoints for getting scheduler events.

Scheduler ICalendar parser fix.

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**Version 7.10.1 changes**

**June 26th, 2017**

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*New features*

Redirect http to https when https is in use.

*Bug Fixes*

No bugs.

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**Version 7.10.0 changes**

**January 16th, 2017**

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*New features*

Switched to HTML5 video player.

*Bug Fixes*

Google Calendar fix.

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**Version 7.9.32 changes**

**November 14th, 2016**

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*New features*

Added support for channel RTMP options to serial interface.

*Bug Fixes*

No bugs.

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**Version 7.9.31 changes**

**October 28th, 2016**

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*New features*

This is a maintenance release only.

*Bug Fixes*

FAT file time stamps fix - use local time instead of UTC.

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**Version 7.9.30 changes**

**September 1st, 2016**

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*New features*

This is a maintenance release only.

*Bug Fixes*

RTMP memory leak workaround.

Added stability fix - restart media process every 3 days.

Manual archive upload fix.

Fill overrun audio samples with silence in MP4 files.

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**Version 7.9.29 changes**

**August 10th, 2016**

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*New features*

Updated Nginx server to version 1.8.1.

***Bug Fixes***

No bugs!

**Version 7.9.28 changes**

**June 22nd, 2016**

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***New features***

This is a maintenance release only.

***Bug Fixes***

Rotate the Opencast log file. The last release 8.0.25 introduced very serious issue. A new Opencast log file was added but it was not rotated so after time the filesystem was full. This release will fix it. We recommend immediate update for all Opencast users who are running 8.0.25.

Opencast connection test fix.

**Version 7.9.27 changes**

**March 9th, 2016**

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***New features***

Added upload to Google Drive.

Added upload to YouTube.

Added Media Gallery.

Added license key for Media Gallery.

***Bug Fixes***

No bugs!

**Version 7.9.26 changes**

**February 4th, 2016**

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***New features***

This is a maintenance release only.

***Bug Fixes***

Memory leak fix - RTMP streaming leaked memory on each connection failure.

**Version 7.9.25 changes**

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Network iCalendar fix - added URL redirect.

Google calendar fix - only IP address was supported in Where field.

OSD fix - update IP address.

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**Version 7.9.24 changes****September 25th, 2015**

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***New features***

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***Bug Fixes***

Fixed scheduler issue when using Opencast 2.0 server.

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**Version 7.9.23 changes****July 23rd, 2015**

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***New features***

Added Kaltura Drop Folder XML file option to FTP and SSH upload.

***Bug Fixes***

No bugs.

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**Version 7.9.22 changes****July 1st, 2015**

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***New features***

This is a maintenance release only.

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iCalendar scheduler fix - iCalendar checkbox couldn't be set to on.

Auto window mode fix - window size was not set correctly for 1920x1200 inputs.

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Scheduler fix - forbidden chars in UTF-8 string could crash scheduler.

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RTMP streaming fix - reconnect to RTMP server on connection timeout.

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**Version 7.9.19 changes****May 29th, 2015**

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***New features***

This is a maintenance release only.

***Bug Fixes***

Video framerate fix - framerate was fixed to 25.

Fixed Is serial command - Genesis code version was followed by new line.

## **Version 7.9.18 changes**

**March 16th, 2015**

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### *New features*

Added PB serial command (start session).

Added UP serial command (upload progress).

Added C<num>,N serial command. This command selects channel <num> without starting session.

Added network iCalendar support - scheduler downloads iCalendar file from remote location (for example from Google Calendar).

Added Google Calendar API v3 support to scheduler.

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Upload start on slave unit fix - fixed rpc params and json encoding.

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RTMP streaming channels fix - unit was using multicast addresses in RTMP streaming mode.

RTP library fix - process could crash because local source was removed (large number of RTP receivers).

Audio encode start fix - flush audio buffer on encode start to avoid large offset between audio and video in recordings.

Slave upload to Matterhorn fix - fixed broken id.

Disabled M0 and M1 serial commands.

HTTPS protocol fix - updated lighttpd server to fix issues with HTTPS on some browsers.

Quick Start page fix - allow coordinator to get /configuration/slave REST endpoint.

Slave upload fix - on RTMP channels master unit sometimes would not initiate upload on slave unit.

H.264 and MPEG-4 encoder pixel range fix - pixel range flag was incorrectly set to 16-235 instead of 0-255.

Bigger OSD window - increased OSD window width and IP address font size.

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Faster RTSP reconnection - try to reconnect to RTSP server every 10 secs instead of every 1 min.

Slave unit configuration dialog fix - save configuration before Connection Test.

Architecture name fix - architecture name was cut on Status tab.

iCalendar fix - fixed recurrent event start time.

iCalendar fix - never-ending recurrent event fix. Parsing never-ending recurrent event was saturating CPU.

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Factory defaults set NTP on.

Faster channel start - optimized overlays loading and reduced RTMP/RTSP connection time.

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Channel layout editor fix.

Settings import fix.

Scheduler overlapped events fix.

Tuned I/O flush to minimize audio frame drops.

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## **Version 6.9.13 changes**

**April 29th, 2014**

### ***New features***

Added remote logging. System logs can be redirected to a PC host running a syslog service.

Increased max log file size to 10240kB.

### ***Bug Fixes***

Fixed reported input signal resolution.

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## **Version 6.9.12 changes**

**March 14th, 2014**

*New features*

Coordinator can shutdown and reboot unit.

Added good bye message to unit shutdown page.

Automatically resize or empty trash can to free disk space. If disk near full threshold is reached unit will try to go below threshold by automatically removing oldest recordings from the trash can.

Report processes status in logs every 12h.

*Bug Fixes*

Fixed dc<0|1> serial command.

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**Version 6.9.11 changes**

**March 7th, 2014**

*New features*

Changed search function on web page (archives, events and logs) to use regex syntax and made it case sensitive.

*Bug Fixes*

Report correct recording duration in paused state.

PIP Full mode fix - sometimes main window was visible.

Fixed upload to Matterhorn in master/slave configuration. Upload recordings in sequence and report correct status if upload from slave fails.

Fixed serial interface uploader status.

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**Version 6.9.10 changes**

**February 24th, 2014**

*New features*

Changed upload start time granularity to 1 hour.

*Bug Fixes*

Presentation Server upload fix.

Master/Slave connection fix.

Kaltura connection test fix.

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**Version 6.9.9 changes**

**January 21st, 2014**

*New features*

Added main and PIP window full screen modes.

Added disk configuration options.

*Bug Fixes*

No bugs in this release.

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**Version 6.9.8 changes**

**November 26th, 2013**

*New features*

Added OSD options.

*Bug Fixes*

Automatic recording start fix.

Manual recording start fix.

Fixed udev init script.

Fixed software update from USB disk.

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**Version 6.9.7 changes**

**October 30th, 2013**

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*New features*

This is a maintenance release only.

*Bug Fixes*

Matterhorn scheduler fix.

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**Version 6.9.6 changes**

**October 24th, 2013**

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*New features*

This is a maintenance release only.

*Bug Fixes*

JSON memory leak fix.

Added support for special characters in capture agent name.

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**Version 6.9.5 changes**

**September 12th, 2013**

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*New features*

This is a maintenance release only.

*Bug Fixes*

Serial interface upload status fix.

Fixed RL serial command.

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**Version 6.9.4 changes**

**September 6th, 2013**

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*New features*

This is a maintenance release only.

*Bug Fixes*

Fixed REST endpoints for getting scheduler events.

Scheduler ICalendar parser fix.

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**Version 6.9.3 changes**

**August 16th, 2013**

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*New features*

This is a maintenance release only.

*Bug Fixes*

Serial interface fix.

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**Version 6.9.2 changes**

**August 7th, 2013**

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*New features*

This is a maintenance release only.

*Bug Fixes*

Status tab refresh fix. Time listed on the Status tab now updated.

Web page reload fix. Updated when javascript changes.

Serial interface overrun condition fixed.

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**Version 6.9.1 changes**

**August 2nd, 2013**

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*New features*

Added archive playback to web page. Use the “Play” button to view archives.

*Bug Fixes*

Matterhorn SSL protocol fix.

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**Version 6.9.0 changes**

**July 15th, 2013**

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*New features*

Added slave unit feature. Allows Master/Slave pairing for dual hi-def recording.

Kaltura connection test now checks credentials.

*Bug Fixes*

OSD window position.

Display mode change.

HDMI PAL signal position.

HTTP resume header.

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**Version 6.8.4 changes**

**June 15th, 2013**

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*New features*

This is a maintenance release only.

*Bug Fixes*

Gm1601 auto adjust fix. Caused VGA component input to fail.

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**Version 6.8.3 changes**

**June 12th, 2013**

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***New features***

Archive processing & uploading can start when session is active.

Added "Upload XML file" option.

Added Presentation Server events & notifications.

***Bug Fixes***

Auto stop session after recording auto stop on recording only channel.

Web page hiding on load fix (for Google Chrome on Windows 7).

REST API etag and modtime fix.

Matterhorn scheduler fix.

Matterhorn upload when Series not specified fix.

Kaltura password fix.

**Version 6.8.2 changes****May 31st, 2013**

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***New features***

Added audio input delay option. Allows fine tuning of audio-video synchronization.

***Bug Fixes***

Fixed rest process configuration update.

Added channel preview refresh on web page.

Import settings fix.

**Version 6.8.1 changes****May 9th, 2013**

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***New features***

Added software update notes. Provides information on new features and fixes.

Added RE serial command (empty archive trash).

Added audio only mode.

***Bug Fixes***

New software update check fix.

Fixed progress indicator on Uploads tab.

Web page audio level fix.

Fixed Matterhorn events buffer overflow.

Fixed Matterhorn start session sleep.

Fixed upload to Matterhorn (files with non-existent ID).

Recording's Title and Presenter set according to Matterhorn XML.

Matterhorn XMLs stored in archive's info file.

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## **Version 6.8.0 changes**

**April 18th, 2013**

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### *New features*

Added secondary archive upload option, e.g., upload to USB and a server.  
Changed third and fourth text overlays to time-of-day counters (time-stamps).

### *Bug Fixes*

None.

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## **Version 6.7.3 changes**

**April 16th, 2013**

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### *New features*

Dynamic text overlays added to text windows. Allows time-stamp burn-in.  
Presentation Server/Matterhorn upload without using a zip file.  
Added RTMP server reconnect.

### *Bug Fixes*

SFTP upload fix.  
Archives download fix.  
Safari capture preview fix.

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## **Version 6.7.2 changes**

**March 6th, 2013**

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### *New features*

Added SSL support to Presentation Server.  
Presentation Server scheduler improvements.

### *Bug Fixes*

Kaltura authentication fix.

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## **Version 6.7.1 changes**

**February 20th, 2013**

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### *New features*

This is a maintenance release only.

### *Bug fixes*

Disabled "Verify user password" option.  
Removed web page logout function.

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## **Version 6.7.0 changes**

**February 15th, 2013**

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### *New features*

Added Main & PIP window mode option.  
Added support for RTMP authentication.

Added SNMP support.  
Implemented "Verify user password" option.  
Added web page logout function.

***Bug Fixes***

RTMP performance fix (set out chunk size to 4096).  
Changed "Archive ready" event to "Archive create" event.  
Presentation Server events update fix.  
Validated HTML files.

**Version 6.6.0 changes**

**January 24th, 2013**

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***New features***

Added RTMP streaming protocol support. Connects with Adobe FMS, CDNs.  
Set DHCP hostname to a user friendly value.  
Added UPS support. Allows programmed power shutdown.  
Disabled limited auto adjust.  
Enabled auto adjust for video modes and on video channel.

***Bug Fixes***

Web page audio meter fix.  
Firmware factory reset fix.  
Fixed recovery access.

**Version 6.5.1 changes**

**December 7th, 2012**

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***New features***

Support for automatic upload to Kaltura servers.  
Added RTSP support for Evostream Media Server.  
Added PIP enable/disable and text overlays edit in Quick Start.  
No network functionality added (i.e. network connection not required).  
New default settings (Auto) for video and graphics inputs.  
Added SDP session name.  
Updated info screens.  
Network packet sending optimization.  
Reimplemented image overlays.

***Bug Fixes***

Recording auto-start fix.  
Subtitle uploads to Presentation Server.

Video decoder status fix.

REST API archive description encoding fix.

Logs sorting fix.

## **Version 6.5.0 changes**

**October 1st, 2012**

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### *New features*

Initial release.

### *Bug Fixes*

N/A.