



# Release Notes

## Presentation Recorder Hydra

Version 9.3.11

*(Software Updates)*

April 23rd, 2018

### 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.

## **Known Issues Under Active Review**

- Repeated reconfiguration of channel resolution can cause the unit to hang.
- Opencast file upload requires filenames of “xyz” and “xyz-2”.
- Audio from HDMI-1 works only if HDMI-1 is selected as Main or PIP input.
- Video adjustments for HDMI-2 and SDI work only for first capture (Advanced Settings tab).
- Framerate limited to 30 in dual capture mode.
- On dual capture framerate conversion is done on assumption that the signal frequency is 30Hz (interlaced) or 60Hz (progressive). If it's not true the framerate will be incorrect (lower). For example if input is 50Hz and fps is set to 30 you will get  $50/2=25$  instead of  $60/2=30$ .
- No de-interlacing on dual capture.

## **Unimplemented Features Under Development**

- Audio from SDI.
- Audio +/- delay slider adjustment.
- UPS on USB monitoring and reporting.
- Remote logging.

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## **Version 9.3.11 changes**

**April 23<sup>rd</sup>, 2018**

### *New features*

This is a maintenance release only.

### *Bug Fix*

Fix for Opencast 4.x.

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## **Version 9.3.10 changes**

**February 28<sup>th</sup>, 2018**

*New features*

This is a maintenance release only.

*Bug Fix*

Fixed SRT file creation.

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**Version 9.3.9 changes**

**December 15th, 2017**

*New features*

Added upload to Media Gallery.

*Bug Fix*

No bugs.

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**Version 9.3.8 changes**

**November 10th, 2017**

*New features*

Changed SSH port number to 1234.

Monitor streamer process health.

*Bug Fix*

Capture pipeline restart fix.

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**Version 9.3.7 changes**

**June 16th, 2017**

*New features*

Redirect http URL to https URL when https is specified.

*Bug Fix*

No bugs.

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**Version 9.3.6 changes**

**Mat 23rd, 2017**

*New features*

This is a maintenance release only.

*Bug Fix*

Performance fix - limit max capture preview fps to 1/15.

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**Version 9.3.5 changes**

**April 12th, 2017**

*New features*

This is a maintenance release only.

*Bug Fix*

Frame size fix - width must be multiple of 16.

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### **Version 9.3.4 changes**

**March 23rd, 2017**

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#### *New features*

This is a maintenance release only.

#### *Bug Fixes*

FTP connection test fix.

Video swap between HDMI-2 and Composite inputs fix

Rotate events file.

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### **Version 9.3.3 changes**

**February 27th, 2017**

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#### *New features*

This is a maintenance release only.

#### *Bug Fixes*

Scheduler fix - run events in progress.

Scheduler fix - handle IP address change.

Audio channel swap fix.

Video player fix - deinitialise player on window close.

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### **Version 9.3.2 changes**

**February 13th, 2017**

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#### *New features*

This is a maintenance release only.

#### *Bug Fixes*

HDMI-2 input capture fix.

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### **Version 9.3.1 changes**

**February 1st, 2017**

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#### *New features*

Added support for Box upload.

#### *Bug Fixes*

HDMI-2 input hotplug fix.

Opencast series count fix - up to 20 series were retrieved from the server.

Minor web page changes - renamed Custom tab to Miscellaneous etc.

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### **Version 9.3.0 changes**

**January 16th, 2017**

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#### *New features*

Switched to HTML5 video player.

Added support for channel RTMP options to serial interface.

Added support for new modes on HDMI-2 input.  
Updated EDID on HDMI-2 input.

***Bug Fixes***

Google Calendar fix.  
HDMI-2 input detection fix.

**Version 9.2.5 changes**

**November 2nd, 2016**

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***New features***

Added key frame interval option.

***Bug Fixes***

FAT file time stamps fix - use local time instead of UTC.  
Set pixel aspect ratio in H.264 stream.  
DaCast compatibility fix - added VUI header to H.264 stream.

**Version 9.2.4 changes**

**August 30th, 2016**

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***New features***

This is a maintenance release only.

***Bug Fixes***

Fixed high CPU usage.  
Manual archive upload fix.  
Ignore initial spaces in scheduler command list.

**Version 9.2.3 changes**

**August 2nd, 2016**

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***New features***

This is a maintenance release only.

***Bug Fixes***

Fixed archive upload to Opencast server.

**Version 9.2.2 changes**

**June 24th, 2016**

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***New features***

Added dual archive player.

***Bug Fixes***

No bugs.

**Version 9.2.1 changes**

**April 29th, 2016**

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***New features***

Added recording id.  
Added live dual player.  
Added support for second RTMP server.

**Bug Fixes**

Fixed PPS dual upload.  
Fixed live player window size.  
Fixed serial interface dual capture size status.  
RTMP server security fix.

**Version 9.2.0 changes****March 10th, 2016**

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***New features***

Added Media Gallery.

**Bug Fixes**

Fixed L[0|1] serial command.  
Opencast upload encoding fix.

**Version 9.1.0 changes****January 18th, 2016**

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***New features***

Optimized video performance (use 1 encoder per capture).  
Added watchdog timer.  
Added license key (for optional features such as the Media Gallery).  
Software update reports serial number to update server.  
Session start takes parameters from Channel.

**Bug Fixes**

Restore unit session state after hard reset.

**Version 9.0.2 changes****December 11th, 2015**

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***New features***

Added support for graphic modes on HDMI-2.  
Added support for 1360x768 and 1400x1050 modes on HDMI-2.

**Bug Fixes**

HDMI-2 signal detection fix - report no signal for unsupported modes.

**Version 9.0.1 changes****December 8th, 2015**

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***New features***

Added RTMP live player.

Added YS serial command - it reports dual input status.

***Bug Fixes***

Main & pip window size fix - limit window size to capture size.

Video quality fix - scaler produced poor quality when cropping was enabled.

**Version 9.0.0**

**November 25th, 2015**

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***New features***

Added video upload to Google Drive.

Added video upload YouTube.

***Bug Fixes***

Limited second capture frame rate to 30.

Changed frame rate conversion method (use frame skip at firmware level).

**Version 9.0.0-Beta 14 changes**

**November 17th, 2015**

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***New features***

Added GS and VS serial commands.

***Bug Fixes***

XLR audio loopback fix.

HDMI audio input delay fix (receive mode).

REST endpoint /status/encoder fix.

Fixed dual channel video profile in audio only mode.

**Version 9.0.0-Beta 13 changes**

**November 3rd, 2015**

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***New features***

Enabled live RTMP streaming on internal streaming server.

***Bug Fixes***

Changed RTMP chunk size to 4096.

OSD performance fix.

Audio loopback fix.

Disabled audio input delay option on web page.

Recording auto start fix (RTMP streaming channel).

**Version 9.0.0-Beta 12 changes**

**October 23rd, 2015**

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***New features***

This is a maintenance release only.

***Bug Fixes***

HDMI-2 detection fix on startup (first capture).

Audio loopback fix.

Recording and streaming stop fix.

RTMP authentication fix.

Media process crash on start fix.

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**Version 9.0.0-Beta 11 changes**

**October 21st, 2015**

***New features***

This is a maintenance release only.

***Bug Fixes***

Changed RTMP connection timeout to 3 secs.

Updated RTMP library to the latest version.

RTMP streaming stop fix.

Fixed right channel audio delay from ST8028 (HDMI-1 audio input).

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**Version 9.0.0-Beta 10 changes**

**October 16th, 2015**

***New features***

This is a maintenance release only.

***Bug Fixes***

Streaming and recording start & stop fixes.

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**Version 9.0.0-Beta 9 changes**

**October 15th, 2015**

***New features***

This is a maintenance release only.

***Bug Fixes***

Streaming and recording start & stop fixes.

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**Version 9.0.0-Beta 8 changes**

**October 13th, 2015**

***New features***

Added LS[0|1] serial commands. Controls loopback display swap.

Added display swap to serial status ("s").

Added audio input to channel configuration.

***Bug Fixes***

RTMP connection status fix.



USB disk status fix.  
Update IP address in OSD.  
Media process stability fixes.  
Added memory usage dump to logs.

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**Version 9.0.0-Beta 7 changes**

**October 6th, 2015**

*New features*

Implemented blackout on pause & resume option.  
Added board temperature.

*Bug Fixes*

Dual capture video framerate fix.  
Dual capture SDI input detection fix - detects correct vfreq and hfreq.  
Broken display.conf fix - fix display.conf file on media process start.  
Removed fan speed option.

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**Version 9.0.0-Beta 6 changes**

**September 25th, 2015**

*New features*

Added dynamic text overlays.  
Added MP4 processing options (hint tracks, optimization and Final Cut fix).  
Added SDI input signal detection.  
Added Cnum,N serial command.

*Bug Fixes*

Fixed SDI input dual capture (supports interlaced modes and resolutions other than 1920x1080).  
SDI input dual capture fix - when SDI signal is not active fallback to HDMI-2.  
Added Cnum,N serial command.

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**Version 9.0.0-Beta 5 changes**

**September 18th, 2015**

*New features*

This is a maintenance release.

*Bug Fixes*

Dual capture stability fix - capture was sometimes stopping on cable connect/disconnect, interlaced input frames were sometimes out of order.  
Ethernet speed fix - 1000 Mb/s mode was not reported correctly on web page.

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**Version 9.0.0-Beta 4 changes**

**September 15th, 2015**

***New features***

Added setting manual ethernet mode.

***Bug Fixes***

RTMP disconnect on session start fix.

RTMP URL fix (media was aborting on invalid RTMP URL).

Fixed display swap (screens were not swapped).

Matterhorn upload fix (compatibility with 2.0).

Removed RTSP channel type.

OSD network fix (it was reporting no network when network was available).

Changed V and G serial commands to be backward compatible with PR.

Updated default image and text overlays (removed old NCast address).

**Version 9.0.0-Beta 3 changes**

**September 4th, 2015**

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***New features***

Line-In loopback.

***Bug Fixes***

STDP reset - after firmware update ST was not pulled from reset

1000 Mbps entry

Removed hald - faster boot

Audio meter db scale thicker (VGA out)

Lowered ssh log level

Media crash on startup

sshd shadow and passwd files

Smaller www statusbar icons

**Version 9.0.0-Beta 2 changes**

**August 28th, 2015**

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***New features***

Implemented Receive channel.

Added info screens.

Added display swap option.

Added setting serial number.

***Bug Fixes***

Reboot fix.

Fixed default channel names.

Audio level fix.

Dual capture web page changes.

## **Version 9.0.0-Beta 1 changes**

**August 14th, 2015**

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### *New features*

Dual capture support.

RTMP streaming.

Audio from HDMI.

Updated serial commands.

### *Bug Fixes*

N/A