

# N\*Cast

## Release Notes

### Presentation Recorder

Version 6.4.2

*(Software Updates)*

April 12th, 2012

#### NCast Support

Web site	<a href="http://www.ncast.com">www.ncast.com</a>	Phone	+1 408-541-9230
Email	<a href="mailto:info@ncast.com">info@ncast.com</a>	FAX	+1 408-541-9231

*Thank you for purchasing NCast products*

## Introduction

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

### **Software Updates**

You may obtain the most current software by clicking the UPDATE button in the Presentation Recorder Configuration menu.

---

### **Version 6.4.2 changes**

**April 12th, 2012**

---

#### *New features*

Added channel option get & set serial commands.

Added display colorspace and loopback frame-rate serial commands.

#### *Bug Fixes*

Matterhorn scheduler fixed for multiple events.

SSH private key upload fix.

---

### **Version 6.4.1 changes**

**March 30th, 2012**

---

#### *New features*

This is a maintenance release only.

#### *Bug Fixes*

Matterhorn upload supports large files (> 2GB).

Matterhorn upload series & workflow fix. No conflict with the scheduler now.

Matterhorn upload optimizations.

Matterhorn capture agent url fix.

Matterhorn attachment type fix. Preserves attachments as source flavor.

Google Calendar "where" field fix. DNS resolution was not working.

---

### **Version 6.4.0 changes**

**February 29th, 2012**

---

#### *New feature*

Added Presentation Production Server (Matterhorn Capture Agent API) support.

#### *Bug Fixes*

FTP upload fix (filename shell quote).

Scheduler Google events retrieve fix.

Scheduler Google events remove fix.

Scheduler "where" field fix.

Default channel configuration fix.

---

### **Version 6.3.1 changes**

**January 5th, 2012**

---

## *New feature*

This release adds a "Final Cut compatibility" checkbox. Allows for import of finished mpeg-4 files into this editor. Adds post-processing time for the recording to become ready for download, so leave unchecked if not needed.

---

## **Version 6.3.0 changes**

**December 19th, 2011**

---

### *New features*

All MP4 files are now multiplexed and finished in real-time. The rtpaudio and rtpvideo libraries have been integrated along with the audio and graphics processes. This greatly reduces post-processing time required for a recording to become Ready.

As above, the online MP4 recording and hinting methods have been updated.

The online SRT recording (subtitles) methods have been updated.

Added background "underlay" image.

Removed image overlay max pixels limit.

Added text overlay special codes.

Added text overlay characters limit.

Added upload to USB disk. For transfer of an Archive directly to USB.

Show audio meter for 10 secs on startup. Easier to find the unit's IP address.

Changed default channels. Standard Channel layouts are given as examples.

Redesigned Channels tab for a better iconic look. Displays Channel contents.

Removed "Audio/video synchronization" and "Burst video playback" advanced options.

### *Bug Fixes*

MPEG-4 encoder 0.1 sec CBR & VBR buffer size fix.

Odd height JPEG image fix.

Packet memory overflow fix.

Old frame capture workaround.

Optimized channels configuration.

---

## **Version 6.2.2 changes**

**October 20th, 2011**

---

### *New features*

This release adds a "Final Cut compatibility" checkbox. Allows for import of finished mpeg-4 files into this editor. Adds post-processing time for the recording to become ready for download, so leave unchecked if not needed.

---

## **Version 6.2.1 changes**

**August 23rd, 2011**

---

### *New features*

Changed H.264 CBR algorithm. Greatly improved video quality, especially at lower bit-rates.

## *Bug Fixes*

Google scheduler recurring events fix.  
Text overlays newline fix.  
Import channel fix.  
Import settings fix.  
Factory Defaults fix.

---

## **Version 6.2.0 changes**

**July 19<sup>th</sup>, 2011**

## *New features*

Updated to most recent Linux kernel.  
Updated to DVSDK 4.02.00.0.  
Store serial number in eeprom.  
Align SD card partitions to 4MB.  
Added options to status serial command.  
Reduced logs for less wear on SD memory cards.  
Changed kernel IO scheduler to noop.  
Added Google keyword to scheduler. Allows greater scheduler flexibility.  
Software update improvements (system files, Python .pyo files).

## *Bug Fixes*

Final Cut MP4 file compatibility fix.  
Optimized gm1601 communication.  
Added SD card write retry on CRC error.  
Increased software update wget connection timeout to 60 secs and connection retries to 3.  
Set correct H.264 profile & level.  
Removed Python bytecode files.  
Fixed screen garbage bug after reboot.  
Fixed audio noise problem (H.264).  
MP4 compressor name fix.  
Thread blocking fix.

---

## **Version 6.1.8 changes**

**May 11<sup>th</sup>, 2011**

## *New features*

Support for webcasts to LiveStream. Changes to URL filename encoding.  
Update to the latest RTSP library code. Automatic unicast reconnects on errors.  
Improvements in the Update process with a new cache directory and checksum optimization.

Added web session close message.

### ***Bug Fixes***

Audio mix buffer size fix (only AAC 11 kHz Mono affected).

Fixed serial interface default audio levels report.

Web tab navigation and long filename display fix.

Removed some unneeded log messages.

### ***Known issues***

Audio Gain Controls – When Line-In gain is set to zero, the signal is not muted. Low level amounts of cross-talk are heard from other, non-selected inputs. Engineering is researching this issue and a fix is expected in an update.

Audio Noise – Occasional background noise is heard during video encoding. Engineering is researching this issue and a fix is expected in 6.2.0.

Slow Web Page Response – Several issues with the performance of the ethernet driver have been identified. To be fixed in a future release.

1080i Sync – Some camera 1080i Y-Pb-Pr signals won't sync. This is a hardware issue with early production units. One workaround is to use the DVI-A connector.

Real-time Clock – While the unit is powered down the RTC battery drain is excessive and will deplete the battery after 1-2 months instead of several years. A hardware ECO has been released for this problem. Will not impact units where power is normally on or where NTP will restore the correct time.

## **Version 6.1.7 changes**

**April 6th<sup>th</sup>, 2011**

---

### ***New features***

Added max recording time channel option.

Increased the max number of characters for several text input fields.

Improved boot reliability in sdboot and uboot bootloaders.

Optimized loading for Unit web tab and for the ls serial command.

Improved centering for the output display.

Improved management of log files and reduced the frequency and quantity of log messages to decrease writes to disk and extend disk life. Affects cron, serial sshd, audio task and other syslog messages.

Volatile configuration files moved to the temp filesystem to reduce disk writes.

### ***Bug Fixes***

Remove stale capture files which were filling the temp filesystem.

Fixed audio levels reported by serial interface.

PL serial command fix.

Web logout timeout fix.

Firmware version check fix.

Fixed video signal status after system reconfigure.

---

**Version 6.1.6 changes****March 18th<sup>th</sup>, 2011**

---

*New features*

Added Date & time web tab.

*Bug Fixes*

Recording auto stop event fix.

H.264 and MPEG-4 encoder pixel range fix.

Don't try to decode remote streams on send channel.

Video renderer flush and background fix.

Import settings fix.

Factory defaults fix.

Date & time set, invalid date input fixes.

NTP start & stop and USB configuration update fix.

Scheduler file lock fix.

Web archive download fix.

Check & repair filesystems on startup.

SFTP private key fix.

USB power-off hang fix.

---

**Version 6.1.5 changes****February 11th<sup>th</sup>, 2011**

---

*New features*

Added GL, GR, GU, GD serial commands.

*Bug Fixes*

H.264 encoder IDR frame force fix. Corrects RTP streaming errors.

SSH known hosts fix. Key change at host caused problems.

Web server large files support fix. Download of files >4GB failed.

FTP upload large files support fix. Upload of files >4GB failed.

Date & time change fix. In non-NTP mode time was not settable.

Firmware update improvement.

Frame-rate conversion fix. Non-standard frame-rates now supported.

Switched Gm1601 panel to 60Hz.

Boot loader fix. Improves boot reliability for some hardware units.

---

**Version 6.1.4 changes****January 18th<sup>th</sup>, 2011**

---

*New features*

Added Is serial interface command.

Added GA serial interface command.

---

Added T[A-J] serial interface commands.

Added special parameters %[0-9] to archive title, presenter & description.

***Bug Fixes***

HDMI fix for 720p and 1080i modes.

Added missing list.cgi and remove.cgi scripts.

Codec serialization to eliminate lockup.

---

**Version 6.1.3 changes**

**December 22nd, 2010**

***Bug Fixes***

Notifications fix.

H.264 decoder buffer freeing fix.

Concurrent video & image encoding fix.

H.264 encoder key frames only fix.

MPEG-4 encoder quantizer range fix.

Event logs lock fix.

Removed web server logs.

---

**Version 6.1.2 changes**

**December 6th, 2010**

***Bug Fixes***

Added HDMI input PIP support.

Google calendar fix. Removed repeating events were not handled properly.

"View Google" fix.

Display white line fix.

Overlays fix. Text overlays were too limited. Now same as graphics overlays.

Events and serial logs rotation fix.

Added software update progress bar.

---

**Version 6.1.1 changes**

**November 24th, 2010**

***Bug Fixes***

Disabled adaptive contrast control. Caused some video feeds to look gray.

Audio meter messages fix. Console messages were appearing on the meter.

CMEM buffers fix. An archive would remain in the captured state.

PIP border alignment fix. PIP image would not appear centered.

VGA and DVI-A switching fix. Image would not switch properly.

---

**Version 6.1.0 changes**

**October 25th, 2010**

***New features***

Added capture preview.

Added HTTP API.

Added second SD card support.

Added video encoder rate control option.

***Bug fixes***

Remove all archives fix.

Anonymous FTP upload fix.

Main & PIP window limits fix.

Decoder stream fix.

Video decoder fix.

System logs fix.

USB network configuration fix.

**Version 6.0.0 changes**

**September 23rd, 2010**

---

***New features***

Initial release.

***Bug fixes***

N/A.