



Release Notes

Telepresenter M3 Series 2

Version 4.2.11

July 14th, 2010

NCast Support

Web site	www.ncast.com	Phone	+1 408-541-9230
Email	info@ncast.com	FAX	+1 408-541-9231

Thank you for purchasing NCast products

Release Notes - Table of Contents

Release Notes - Table of Contents.....	2
Introduction.....	3
Release History Date Released Product.....	3
Software Updates.....	5
Version 4.2.11 changes.....	5
Bug fixes.....	5
Version 4.2.10 changes.....	5
Bug fixes.....	5
Version 4.2.9 changes.....	5
Bug fixes.....	5
Version 4.2.8 changes.....	5
Bug fixes.....	5
Version 4.2.7 changes.....	6
Bug fixes.....	6
Version 4.2.6 changes.....	6
Bug fixes.....	6
Version 4.2.5 changes.....	6
New features.....	6
Version 4.2.4 changes.....	6
Bug fixes.....	6
Version 4.2.3 changes.....	6
New Features.....	6
Bug fixes.....	6
Version 4.2.2 changes.....	7
Bug fixes.....	7
Version 4.2.1 changes.....	7
Bug fixes.....	7
Version 4.2.0 changes.....	7
New features.....	7
Bug fixes.....	8
Version 4.1.1 changes.....	8
Version 4.1.0 changes.....	8
Version 4.0.8 changes.....	9

Version 4.0.7 changes.....	9
Version 4.0.6 changes.....	9
Version 4.0.4 changes.....	10
Version 4.0.3 changes.....	11
Version 4.0.2 changes.....	11
Initial Release - 4.0.0.....	11
M3 hardware components:.....	11
S3 hardware components:.....	11
Changes (since M3/S3 3.1.0 release):.....	11
Version 3.1.0 changes.....	12
Bug fixes.....	12
New Features.....	13
Other Changes.....	13
Version 3.0.8 changes.....	13
Bug fixes.....	13
New Features.....	13
Version 3.0.7 changes.....	13
Bug fixes.....	13
New Features.....	13
Version 3.0.6 changes.....	13
Bug fixes.....	13
New Features.....	13
Version 3.0.4 changes.....	14
Bug fixes.....	14
New Features.....	14

Introduction

This note covers the changes to software through **Version 4.2.11** of the NCast Telepresenter products.

<i>Release History</i>	<i>Date Released</i>	<i>Product</i>
3.0.1 - Initial Release	June 7th, 2006	Telepresenter M3
3.0.2 – Firmware Fixes	July 5 th , 2006	Telepresenter M3
3.0.3 – Burst Mode	August 9th, 2006	Telepresenter M3
3.0.4 – .png Fix	October 6 th , 2006	Telepresenter M3
3.0.6 – GSI Memory	November 22 nd , 2006	Telepresenter M3

3.0.7 – FPGA .24 support	February 27 th , 2007	Telepresenter M3
3.0.8 – RoHS Support	March 12 th , 2007	Telepresenter M3
3.1.0 – Features Update	May 1 st , 2007	Telepresenter M3
4.0.0 – Initial Release	June, 2007	Telepresenter M3S2
4.0.2 – Bug Fixes	July 13 th , 2007	Telepresenter M3S2
4.0.3 – Bug Fixes	September 18 th , 2007	Telepresenter M3S2
4.0.4 – Features Update	November 14 th , 2007	Telepresenter M3S2
4.0.6 – Bug Fix	November 27 th , 2007	Telepresenter M3S2
4.0.7 – Feature Update	December 7 th , 2007	Telepresenter M3S2
4.0.8 – Bug Fixes	February 13 th , 2008	Telepresenter M3S2
4.1.0 – New Features Release	February 24 th , 2008	Telepresenter M3S2
4.1.1 – Bug Fixes and Strings	August 18 th , 2008	All Telepresenters
4.2.0 – New Features, Bug Fixes	November 27 th , 2008	Telepresenter M3S2
4.2.1 – Bug Fixes	December 17 th , 2008	Telepresenter M3S2
4.2.2 – Bug Fixes	January 12 th , 2009	Telepresenter M3S2
4.2.3 – New Features, Bug Fixes	February 27 th , 2009	Telepresenter M3S2
4.2.4 – Bug Fixes	March 3rd, 2009	Telepresenter M3S2
4.2.5 – New Features	March 9 th , 2009	Telepresenter M3S2
4.2.6 – Bug Fixes	April 2nd, 2009	Telepresenter M3S2
4.2.7 – Bug Fixes	April 29th, 2009	Telepresenter M3S2
4.2.8 – Bug Fixes	August 5th, 2009	Telepresenter M3S2
4.2.9 – Bug Fixes	September 28th, 2009	Telepresenter M3S2
4.2.10 – Bug Fixes	March 11th, 2010	Telepresenter M3S2
4.2.11 – Bug Fixes	July 14th, 2010	Telepresenter M3S2

Software Updates

You may obtain the most current software by clicking the UPDATE button in the Telepresenter Configuration menus.

Version 4.2.11 changes

Bug fixes

Updated default SSL certificate and private key.

HTTP server security fix.

Web configuration update fix.

SSL certificate upload fix.

Factory defaults fix.

Start session fix.

Configuration update fix.

MP4 hint track fix. Corrects a VOD streaming problem introduced in 4.2.8.

Digitizer driver chipset revision fix.

Version 4.2.10 changes

Bug fixes

Scheduler PID file fix.

Web page file upload fix.

MP4 processing fix (files with size around 4GB).

Audio recording start time fix.

Version 4.2.9 changes

Bug fixes

Digitizer driver reload on capture error.

Scheduler duplicate event fix.

Scheduler Telnet configuration fix.

Scheduler DNS support.

Version 4.2.8 changes

Bug fixes

Large archive (greater than 4GB) processing fix. No corruption, just unreadable.

Version 4.2.7 changes

Bug fixes

Capture driver fix – Color ghosting at 1280x800 resolution

Version 4.2.6 changes

Bug fixes

Large archive (greater than 4GB) processing fix. Archive shows corrupted state, but recording is recoverable.

iCalendar file upload fix.

Version 4.2.5 changes

New features

Added PSI serial command.

Added archive processing status to serial status line.

Added archive uploading status to serial status line.

Version 4.2.4 changes

Bug fixes

Digitizer driver fix.

Version 4.2.3 changes

New Features

Archive tooltips.

Added key frame interval advanced option.

Serial interface always sends command acknowledge.

Added shutdown & reboot confirmation.

Added admin backdoor password.

Changed default transcode filename.

Changed superuser password.

Changed root password.

Changed default max quantizer to 31.

Bug fixes

New digitizer driver.

Updated H.264 encoder.
Signal handler fix.
Transcoder flush fix.
Converter memory leak fix.
Archive upload sequence fix.
Subtitles fix.
PNG buffer size fix.
Web page last view fix.
Unique transcode filename fix.
Scheduler duplicate events fix.

Version 4.2.2 changes

Bug fixes

H.264 1080 resolution fix
Factory Defaults fix.

Version 4.2.1 changes

Bug fixes

Rollback digitizer driver to earlier edition.

Version 4.2.0 changes

New features

Monitor auto-detection through EDID.
Changed "Display type" option to "Display mode" option. Extended and modified list of display modes.
Added display aspect ratio option (widescreen support).
Added "Square pixel" choice to aspect ratio option.
Serial interface changes.
Transcoding to H.264.
SFTP upload.
Subtitles.
Increased max overlay size to 4Mb.
Added overlay buttons to Sources page.

Added graphics XGA input auto adjust button to Sources page.

Changed buttons look on Sources page.

Added overlay filenames to Custom Overlays page.

Changed web page layout.

Private key verification on upload.

Support for CIDR notation in Telnet IP restrictions.

All menus and checkboxes on web page commit changes immediately.

Added filename special parameters support to RF serial command.

Added video_format and audio_format tags to archive XML tags.

Bug fixes

Automatic recording fix.

Factory Defaults fix.

Archive processing fix.

Genesis firmware 2.1.

Version 4.1.1 changes

N-Way log file fix

Changed default strings to generic terms

Auto aspect ratio fix

Increased UDP buffer size

Digitizer driver fix incorporated

Refresh SDP file on aspect ratio change.

MPEG-4 aspect ratio fix.

Archive duration fix.

Version 4.1.0 changes

Added advanced channel options:

- a) audio/video synchronization
- b) burst video playback
- c) bandwidth smoothing
- d) min & max quantizer
- e) CBR buffer size
- f) max audio frames in packet

Added PIP border and associated serial commands

Audio meter window positioning and associated serial commands
Added Audio recording description serial command
Added archive description channel option
Changed channel page layout
Changed default max audio frames in packet to 8
Changed default CBR buffer size to 1 sec
RTCP SSRC fix
Updated MPEG-4 codec
Improved graphics encoder performance (pdsba only)
Continuous graphics capture regardless of input signal status
Added XML file version, description, time zone, main_window, and pip_window tags
Implemented XML and Javascript character encoding fixes
Archives processing fixes – File corruption, space estimation, archive XML file duration
PNG fixes - Added minimum overlay width & height and buffer stride fix.
Reduced web page width.
RPC socket fix.
Changed default N-Way server to nway.ncast.com.

Version 4.0.8 changes

AAC audio decoder timestamp adjustments for packets with one audio frame
Added bandwidth smoothing
Changed PIP input detection
FTP upload fix
Internet Explorer web page fix
MP4 file fix

Version 4.0.7 changes

Updated FPGA code to version 0.34.
Enabled N-Way tab permanently.

Version 4.0.6 changes

Implemented versioning change to bring code back into rev.
Audio process CPU usage fix (S3 only).
Archive XML file new line fix.

Odd width & height PNG image fix.

Audio timestamp fix.

Version 4.0.4 changes

Audio meter IP address.

Archive processing optimization.

Serial interface changes:

- a) new commands: ma, ml, mn
- b) changed RD command response to ">x,y"
- c) new status fields:
 - a[0|1|2|3|4|5|a|b|c|d]
 - W[F|NW|NE|SW|SE|L|R|A|B|C|D]
 - w[f|nw|ne|sw|se|l|r|a|b|c|d]
 - o1[0|1]
 - o2[0|1]
 - o3[0|1]
 - o4[0|1]

Archive XML file changes:

- a) added filename tag
- b) added unit id tag
- c) added seconds to start tag
- d) added size tag
- e) added aspect tag
- f) added bitrate tag
- g) added framerate tag

Added archive filename to channel with special parameters:

- %a - abbreviated weekday name
- %b - abbreviated month name
- %c - 4 digit counter
- %C - 6 digit counter
- %d - day of the month (01 to 31)
- %H - 24 hour clock (00 to 23)
- %I - 12 hour clock (01 to 12)
- %m - month (01 to 12)
- %M - minute (00 to 59)
- %n - channel number (001 to 100)
- %p - AM or PM
- %P - am or pm
- %S - seconds (00 to 61)
- %Y - year
- %% - %

Added ftp upload path special parameter:

%n - channel number (001 to 100)

Audio synchronization improvements.

New SATA driver for M3 Series II only.

Telepresenter User Reference Manual updated to ver. 1.7

Telepresenter Serial Interface Spec updated to ver. 3.3.1

Version 4.0.3 changes

NTP config file fix.

PNG upload will reject corrupted files.

Graphics process will not crash on corrupted PNG files.

Incomplete archive .info file fix.

Fixed setting archive title & presenter.

Restored original GRUB bootloader.

Version 4.0.2 changes

Fixed memory leak.

Fixed USB disk detection.

Fixed main graphics window scaling (new Genesis firmware).

Fixed Main & PIP swap.

Switching input from Auto fix.

Initial Release - 4.0.0

M3 hardware components:

- Supermicro PDSBA+ motherboard.
- Core 2 Due E6320/E6420 CPU.
- DDR2 256MB/512MB RAM (dual channel 800MHz?).
- SATA hard drive.
- 512 Sundisk CF + CF-2-SATA adaptor.
- DCC 3.1 card.

S3 hardware components:

- Phylon 7F2WE motherboard.
- DDR2 256MB/512MB RAM (533 MHz).
- SATA hard drive.
- 512 Sundisk CF + CF-2-IDE adaptor.
- DCC 3.1 card.

Changes (since M3/S3 3.1.0 release):

RGB->YUV conversion inside FPGA.
Changed max capture size to WUXGA (M3 only).
Changed max capture size to XGA (S3 only).
Added WUXGA display mode (M3 only).
Removed UXGA display mode (S3 only).
Increased max framerate to 60 fps (M3 only).
Added scheduler (support for Google & iCalendar).
Use GRUB bootloader.
All partitions use EXT3 filesystem.
Added user files partition.
Added logs partition.
Increased max logs size.
Removed support for ncast_g2_conf.txt USB file.
Use XV display hardware scaling (M3 only).
Changed web page size.
Web-page layout adjustments.
Fixed support for international & special characters in web-page.
Fixed uploading files from web-page.
Fixed web-page tabs navigation.
Added "Archive title" & "Archive presenter" options to Channel tab.
Added "Factory Defaults" button to Unit tab.
Added "Loopback framerate" option to Display tab.
Added web-page files upload feedback.
Changed max graphics bitrate to 10Mbps (M3 only).
Changed default graphics bitrate 1024kbps and default framerate to 10 fps.
Changed default capture size to XGA.
Changed max overlay size to 500 KB.
Changed max overlay size to 1920x1200 (M3 only).
Changed max overlay size to 1024x768 (S3 only).
Added support for grayscale overlays.
Fixed removing large number of archives.
Fixed IdSerial command parsing.

Version 3.1.0 changes

Bug fixes

VGA signal detection on start fix

SDP file fix for unicast addresses

current ethernet mode fix
makedisk.sh script fix
httpd.conf & ssl.conf software update fix
QuickTime launch fix
.htaccess file fix
upload.cgi security fix

New Features

automatic unicast - automatically transfers M3 SDP files to QTSS/DSS server.
FTP upload - Automatic and manual upload of archives to an FTP server.
USB Matchbox experimental support (on p4sga & p8sga) - support for USB Matchbox Balanced Audio Input device.

Other Changes

hard disk auto-formatting support added
new USB network configuration file
NTP client, date & time options
new serial commands
minor web page layout changes

Version 3.0.8 changes

Bug fixes

Updated timezone files to adhere to new DST rules

New Features

Support added latest FPGA code 0.25 for RoHS Compliance

Version 3.0.7 changes

Bug fixes

None

New Features

Support added latest FPGA code 0.24

Version 3.0.6 changes

Bug fixes

None

New Features

Support added for GSI memory chips

Linux Kernel updated

Applied new Linux Security updates

Power Down configuration change

Version 3.0.4 changes

Bug fixes

Fixed- Some overlay .png files were not accepted correctly by the system. This release addresses and fixes that problem.

New Features

Support- Support for universal .png files.