



## Release Notes

Telepresenter M3 Series 2

Version 4.2.11

July 14th, 2010

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*Thank you for purchasing NCast products*

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# 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

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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 <sup>th</sup> , 2006	Telepresenter M3
3.0.3 – Burst Mode	August 9th, 2006	Telepresenter M3
3.0.4 – .png Fix	October 6 <sup>th</sup> , 2006	Telepresenter M3
3.0.6 – GSI Memory	November 22 <sup>nd</sup> , 2006	Telepresenter M3

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3.0.7 – FPGA .24 support	February 27 <sup>th</sup> , 2007	Telepresenter M3
3.0.8 – RoHS Support	March 12 <sup>th</sup> , 2007	Telepresenter M3
3.1.0 – Features Update	May 1 <sup>st</sup> , 2007	Telepresenter M3
4.0.0 – Initial Release	June, 2007	Telepresenter M3S2
4.0.2 – Bug Fixes	July 13 <sup>th</sup> , 2007	Telepresenter M3S2
4.0.3 – Bug Fixes	September 18 <sup>th</sup> , 2007	Telepresenter M3S2
4.0.4 – Features Update	November 14 <sup>th</sup> , 2007	Telepresenter M3S2
4.0.6 – Bug Fix	November 27 <sup>th</sup> , 2007	Telepresenter M3S2
4.0.7 – Feature Update	December 7 <sup>th</sup> , 2007	Telepresenter M3S2
4.0.8 – Bug Fixes	February 13 <sup>th</sup> , 2008	Telepresenter M3S2
4.1.0 – New Features Release	February 24 <sup>th</sup> , 2008	Telepresenter M3S2
4.1.1 – Bug Fixes and Strings	August 18 <sup>th</sup> , 2008	All Telepresenters
4.2.0 – New Features, Bug Fixes	November 27 <sup>th</sup> , 2008	Telepresenter M3S2
4.2.1 – Bug Fixes	December 17 <sup>th</sup> , 2008	Telepresenter M3S2
4.2.2 – Bug Fixes	January 12 <sup>th</sup> , 2009	Telepresenter M3S2
4.2.3 – New Features, Bug Fixes	February 27 <sup>th</sup> , 2009	Telepresenter M3S2
4.2.4 – Bug Fixes	March 3rd, 2009	Telepresenter M3S2
4.2.5 – New Features	March 9 <sup>th</sup> , 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.

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## **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.

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## **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.

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## **Version 4.2.9 changes**

### *Bug fixes*

Digitizer driver reload on capture error.

Scheduler duplicate event fix.

Scheduler Telnet configuration fix.

Scheduler DNS support.

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## **Version 4.2.8 changes**

### *Bug fixes*

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

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## **Version 4.2.7 changes**

### *Bug fixes*

Capture driver fix – Color ghosting at 1280x800 resolution

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## **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.

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## **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.

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## **Version 4.2.4 changes**

### *Bug fixes*

Digitizer driver fix.

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## **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.

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## **Version 4.2.2 changes**

### *Bug fixes*

H.264 1080 resolution fix  
Factory Defaults fix.

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## **Version 4.2.1 changes**

### *Bug fixes*

Rollback digitizer driver to earlier edition.

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## **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.

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### **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.

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### **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.

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### **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

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### **Version 4.0.7 changes**

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

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### **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.

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## 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

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### **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.

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### **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.

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### **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.

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## **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

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## **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

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## **Version 3.0.7 changes**

### ***Bug fixes***

None

### ***New Features***

Support added latest FPGA code 0.24

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## **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

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## **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.