

# TELEPRESENTER™ M3



## PRACTICAL PRESENTATION AND COLLABORATION

The Telepresenter M3 is a content production and distribution system for digital networks. Designed for recording and streaming high-quality presentations, the M3 combines high-resolution graphics (RGB/DVI) with video feeds and stereo audio into one multimedia file, which is then made available for either real time viewing or on demand playback. The M3 allows for interactive presentations so users can collaborate in real time.

Traditionally, authoring sophisticated media presentations usually required an outside production firm or dedicated staff, which are expensive approaches. Several pieces of costly equipment would be needed to capture the various media sources and combine them in a meaningful way into a multimedia file. Furthermore, encoding these files so they can be streamed on the Internet can be cumbersome and time intensive, and still more hardware is needed for streaming. The Telepresenter M3 fully automates this process by offering a dedicated hardware solution with a powerful set of features.

The Telepresenter M3 allows users to:

- ◆ Capture—several multimedia feeds, like graphics, video, and audio,
- ◆ Compose—these feeds with PiP into a single multimedia stream,
- ◆ Encode—the stream into an industry standard MPEG-4 file,
- ◆ Cast—that file on the Internet using realtime streaming protocols,
- ◆ Archive—the stream for on-demand viewing, and
- ◆ Collaborate—with other Telepresenter or other audience PCs.

The Telepresenter M3 introduces major technological advancements with support for up to UXGA (1600x1200) input resolutions and PiP (Picture In Picture) video and graphics overlay. The M3 is a dedicated hardware solution that combines simple operation with a powerful set of features. Enjoy universal interoperability with any RGB/DVI source: laptops, PCs, MACs, document cameras, diagnostic equipment, etc

The M3 is easy to operate, simply plug in RGB (laptop, document camera, etc), DVI, video, and audio sources. These signals will be automatically detected by the system and combined dynamically in a PiP (Picture in Picture) format. With the start of a session, this signal will be encoded as an MPEG-4 file, and will be available for streaming, recording and collaborating.

## APPLICATIONS

- ✓ Presentation and Lecture Capture
- ✓ Distance Learning
- ✓ Corporate Training
- ✓ Telemedicine
- ✓ Municipal, State and, Federal Government Communications

## FEATURE HIGHLIGHTS

- **GRAPHICS RESOLUTION**  
Supports up to UXGA (1600x1200) output and streaming capabilities
- **INTEGRATED VIDEO AND GRAPHICS**  
M3 technology integrates high resolution graphics and video sources into a PiP (Picture in Picture) format
- **COLLABORATION**  
M3 is optimized for collaboration using floor control and audio mixing mechanisms
- **DESKTOP PLAYERS**  
Anyone connected to the network can view a Telepresentation via a web browser and media player (Quicktime, Real, Windows Media Player)
- **SCALABLE**  
N\*Cast technology allows for maximum scalability with remote users if streamed through multicast. Alternatively, embedded unicast server supports up to 30 users as well
- **PIP CUSTOMIZATION**  
Robust control set available for Picture-In-Picture technology, logo insertion and textual description
- **GRAPHICS QUALITY**  
Retain full integrity of original image using digital motion adaptive interlacing to maintain fonts, color depth, and resolution
- **RECORD CAPABILITIES**  
Archiving feature captures any source to the M3 for later download or remote viewing
- **AUDIO CAPABILITIES**  
The M3 offers audio input and mixing from all sites to provide additional content
- **PLAYBACK OPTIONS**  
Record archives can be streamed or displayed
- **DVI INPUT**  
EDID support included for automatic monitor resolution and detection

# TELEPRESENTER™ M3



## TECHNICAL SPECIFICATIONS

### GRAPHIC AND VIDEO INPUTS

RGB (DB15)  
DVI-D (Laptops, HD Video)  
S-Video  
Composite Video

### GRAPHICS RESOLUTIONS & PERFORMANCE

UXGA, 1600x1200, 15 fps  
SXGA, 1280x1024, 28 fps  
XGA, 1024x768, 30 fps  
SVGA, 800x600, 30 fps  
Video, 720x480, 300x240, 720p (HD) - 30 fps

### GRAPHICS OUTPUTS

UXGA/SXGA/XGA up to 1600x1200  
RGB (DB15) 16.7 M colors

### GRAPHICS COMPRESSION

MPEG-4 (ISO 14496-2)  
Simple Profile @Level 1-3 and non-standard

### AUDIO

MPEG-4, AAC (ISO 14496-3)  
Low Complexity Profile  
Input, Stereo, Line-In & Mic-In on 2.5mm Jack (PC Audio type)  
Input Sampling, 16 Bits, 44.1 kHz  
Output, Stereo, Line Out, 2.5mm Jack (PC Audio type)

### NETWORK INTERFACE

RJ-45 (LAN, DSL, Cable Modem), Ethernet 10/100 Mbps

### COMMUNICATION PROTOCOLS

Multicast, Unicast  
N\*Cast NCCP, RTP, HTTP, UDP, TCP/IP  
RTP, RTCP, RTSP, HTTPS

### EXTERNAL INTERFACES

Serial RS-232 port on DB-9 connector, USB (7), Mic-in, Line-in, and Headphone,

### ENCODING BITRATES

128 Kbps. to 5.0 Mbps.

### COLLABORATIVE FEATURES

Interactive floor control during session  
Audio mixing from all M3 sites to talk simultaneously  
Full duplex mode available

### ENTERPRISE SYSTEM MANAGEMENT

SNMP, Optional Python Systems Manager

### ARCHIVE FEATURES

Archive and record options- hard drive included  
MPEG-4 AAC (ISO 14496-3)  
Archives stored as MPEG-4 files  
Customizable .mp4 files by title, author, and subject

### SETUP

USB Stick for IP Settings



### USER INTERFACE CONTROLS

Aspect ratio, resolution capture size  
Graphics positioning (vertical start, horizontal start)  
PiP size, location, aspect ratio  
Brightness, contrast, sharpness, saturation, hue  
Audio Input Gain, Volume

### LANGUAGES

English

### PHYSICAL

Dimensions  
19" (380mm)x3.46" (68.58mm)x13.9" (254mm)  
Weight: 23 lbs (10 kg)  
Universal 100-240V 50/60 Hz 300W power supply

### ENVIRONMENTAL

Temperature: Operating 0-35 C (32-95 F)  
Humidity: 5% to 95% RH, Non-Condensing

### STREAMING CAPABILITIES

Multi-user Unicast Server up to 30 users  
Quicktime, Real, DivX, VLC, Windows Media Player  
(with plug-in) and others supported



**NC\*CAST CORPORATION** 155 Moffett Park Drive, Suite 103 Sunnyvale, CA 94089 USA

Main: 800-765-7718 Voice: +1 408-541-9230 Fax: +1 408-541-9231 <http://www.ncast.com>