

PRESENTATION RECORDER PR-720-P



PRESENTATION RECORDING AND STREAMING

The PR-720-P is a content production and distribution system for digital networks. Designed for recording and streaming high-quality presentations, the unit 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.

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 PR-720-P fully automates this process by offering a dedicated hardware solution with a powerful set of features.

The PR-720-P allows users to:

- ◆ Capture—several multimedia feeds: graphics, video, and audio,
- ◆ Compose—these feeds with PiP into a single multimedia stream,
- ◆ Encode—the stream into a standard H.264 (MPEG-4) file,
- ◆ Cast—that file on the Internet using realtime streaming protocols,
- ◆ Archive—the stream for on-demand viewing.

The PR-720-P introduces support for up to WUXGA (1920x1200) input resolutions with up to WXGA (1280x720) capture resolutions and PiP (Picture In Picture) video and graphics overlay. The unit 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 unit is easy to operate, simply plug in RGB (laptop, document camera, etc), DVI, video, and audio sources. Start and stop sessions using the web interface, serial commands or the ubiquitous Google calendar. The input signals will be automatically detected by the system and combined dynamically in a PiP (Picture in Picture) format. At the start of a session, this combined signal will be encoded as an H.264 file, and will then be available for streaming, recording and collaborating.

APPLICATIONS

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

FEATURE HIGHLIGHTS

• INTEGRATED VIDEO AND GRAPHICS

PR-720 technology integrates high resolution graphics and video sources into a PiP (Picture in Picture) or Picture-by-picture format for H.264 playback

• PiP CUSTOMIZATION

Robust control set available for Picture-In-Picture technology, logo insertion and textual description. Graphical and dynamic text overlays add details.

• CHANNEL/SESSION TEMPLATES

User-defined preset templates simplify session setup

• SCHEDULING

Schedule one or more Recorders using Google Calendar or other iCalendar based tools

• ROBUST

Embedded Linux kernel for secure, crash-free operation. Diskless operation for ultra-reliability. Green design, very low power.

• SCALABLE

NCast technology allows for maximum scalability with remote users if streamed through multicast.

• GRAPHICS RESOLUTION

Supports up to WUXGA (1920x1200) input and WXGA (1280x720) capture and streaming capabilities

• GRAPHICS QUALITY

Retain full integrity of original image using motion adaptive de-interlacing

• RECORD CAPABILITIES

Archiving feature captures any source to the PR-720-P for later download or remote viewing.

• AUDIO CAPABILITIES

Audio input is fully synchronized with the video and graphics presentation for flawless playback

• PLAYBACK OPTIONS

Recorded archives auto-upload to a VOD server. H.264 encoding is compatible with Flash Media players.

• DESKTOP PLAYERS

Anyone connected to the network can view a presentation via a web browser or media player (Flash, Quicktime, Real, etc.)

PR-720-P



TECHNICAL SPECIFICATIONS

GRAPHIC AND VIDEO INPUTS

DVI-I (Laptops, HD Video)
RGB (DB15), Y-Pr-Pb
HDMI
S-Video (Y/C)
Composite Video



GRAPHICS RESOLUTIONS & PERFORMANCE

WXGA, 1280x720, 30 fps
XGA, 1024x768, 30 fps
SVGA, 800x600, 30 fps
Video, 720x480, 300x240, 720p (HD) - 30 fps

GRAPHICS OUTPUTS

WXGA(1280x720) / SD(720x480)
Y-Pb-Pr only (DB15) 16.7 M colors, wide-screen displays
VGA loopback output connector

GRAPHICAL OVERLAYS

Add .jpg, .png, and .gif images to the final screen composition
Dynamic text overlays add real-time titles and text

GRAPHICS COMPRESSION

H.264 (ISO/IEC 14496-10)

AUDIO

MPEG-4, AAC (ISO 14496-3), Low Complexity Profile
Input Sampling, 16 Bits, 44.1 kHz
Input, Stereo, Line-In & Mic-In on 3.5mm Jack (PC Audio type)
Output, Stereo, Line Out, 3.5mm Jack (PC Audio type)
XLR Audio Input Support, Mono only

NETWORK INTERFACE

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

COMMUNICATION PROTOCOLS

Multicast, Unicast, HTTP, HTTPS, UDP, TCP/IP, RTP, RTCP, RTSP,
DHCP, NTP, FTP, SFTP, Telnet, Auto Announce

EXTERNAL INTERFACES

Serial RS-232 port on DB-9 connector, USB (2), Power Connector

ENCODING BITRATES

128 Kbps. to 5.0 Mbps.

PR-720 Series Models

PR-720-P Podium Recorder (Flange mount, any orientation)
PR-720-M Mobile Recorder
PR-720-R Rackmount Recorder (1U)
PR-720-D Rackmount Dual Stream Recorder (1U)

ENTERPRISE SYSTEM MANAGEMENT

Serial Crestron/AMX compatibility (Serial, Telnet, HTTP)
iCalendar support (Google Calendar)
Optional Java or Python Systems Manager

ARCHIVE FEATURES – SOLID STATE DISK

Archive and record options – 32/64 GB storage
Archives stored as H.264 files (ISO 14496-14)
Audio using MPEG-4 AAC (ISO 14496-3)
Metadata index files with title, author, and subject
FTP and Secure FTP file push

SETUP

USB Stick for IP Settings

USER INTERFACE CONTROLS

Capture size, Resolution and Aspect ratio
Graphics overlay positioning (vertical, horizontal)
PiP size, location (Overlap or Side-by-side)
Brightness, contrast, sharpness, saturation, hue
Audio Input Gain, Audio Output Volume
Dynamic text overlays, Closed Caption controls and Chapters
User-defined channel preset templates

STREAMING CAPABILITIES

Multicast, Auto-Announce Unicast to a Streaming Server
Flash Player, Quicktime, Real, DivX, VLC, and others supported

SECURITY - SSL

Embedded Linux OS, HTTPS, SSL Certificate, SSH-FTP

POWER – GREEN DESIGN

Power Consumption: 30 Watts, 12V DC In
Power Supply: External AC Adapter 100-240V 50/60 Hz—60W

DIMENSIONS - ENVIRONMENTAL

Dimensions: 10.2”(259.0mm) x 2.3”(58.5mm) x 7.3”(186.0mm)
Weight: 3 lbs (1.4 kg)
Operating Temperature: 10° to 35°C (50° to 95°F)
Non-operating Temperature: -40° to 70°C (-40° to 158°F)
Operating Relative Humidity: 8% to 90% (non-condensing)
Non-operating Relative Humidity: 5 to 95% (non-condensing)

REGULATORY

FCC Part-15 Class A
EMC Directive 2004/108/EC
EMD Low Voltage Directive 2006/95/EC
RoHS Compliant 2002/95/EC



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