Communitek Video Systems

Webcaster3

Features

- Live Switching and Streaming Appliance
- Support for H.264, Flash® and Windows Media®
- 8 HD-SDI/SD-SDI Inputs Optional HDMI Inputs
- Embedded and Discrete Audio Inputs
- Built-in Live Stream Capture and Storage

Applications

- Live Webcasting for Conferences, Concerts, Sports, News, and many other real-time applications
- HD or SD Internet Broadcasting with Broadcast type Switching Powered by VidBlaster or vMix
- High-Performance Video Streaming to Multiple Publishing Points and formats
- Video Stream Compression and Recording for High-Quality Video on Demand (VoD) Applications
- . . . all in a 3RU rack chassis designed for professional broadcast users

Product Description

The Webcaster3 is a self-contained, stand-alone system for live HD and SD video webcasting. All of the necessary hardware and software resources are included for creating high quality streams from all types of professional video sources. Featuring h.264/MP4 Adobe Flash® encoding. Optional MPEG2 TS and AAC codecs. The Webcaster3 can produce streams at bit rates from 100 kbps to 15 Mbps to deliver premium performance for all types of streaming applications.

Three main functions are performed by this unit: Video and Audio Capture/Compression, Broadcast Style Video Switching, and Live Streaming with Archiving.

- **Capture/Compression** transforms a wide variety of input signals into one of several different compressed signal formats which are compatible with player software commonly found on user PCs and other devices. Inputs can come from video cameras, tape decks, servers, production switchers and PCs. Supported compression formats include Adobe Flash®, and international standard h.264/MPEG4.

- **Broadcast Switcher** with the world renowned vMix or VidBlaster applications. Allows for multiple cameras to be switched live with many features not found on other streaming video appliances.
- Switcher effects, Dissolves, Splits, Picture-in Picture, Chroma-key, Titling, Graphic Layering, Video Roll-ins, are just the start.
- Direct PowerPoint integration, allows your PPT(x) to go live! Any video or graphic file can be live streamed.
- Live Skype integration. Skype participants become live camera sources, with audio, and allow for on-air live interaction. The Webcast3 program stream can be fed back to the Skype, Adobe Connect or Nefsis conferencing users.
- **Live Streaming and Archiving** The Webaster3 streams the VidBlaster switcher output via public or private networks, and can be configured to work with many different reflecting servers and Content Distribution Networks (CDNs) to allow live, large scale simultaneous viewing. Hi quality video recording of the program stream can be done on the Webcaster3, and used for VOD applications, post event.

Specifications

Versions

Webcaster3-HD – High-quality streaming for up to 8 digital video sources, HD-SDI/SD-SDI. Input resolution up to 1920 x 1080. Support for two channels of balanced analog audio, or up to 8 Channels of embedded audio.

Webcaster3-HDMI – Hi-quality streaming for up to 8 HDMI video sources. Support for two channels of balanced analog audio, or up to 4 channels of embedded audio.

Webcaster3-HD/HDMI – Combines 4 HD-SDI/SDI-SDI and 4 HDMI camera inputs into one system. Supports up to eight channels of embedded audio or two channels of balanced analog audio.

Webcaster3-Custom - Combines HD-SDI/SD-SDI, HDMI, and Composite Video Sources.
Inputs are in Groups or 2 or 4, allowing for up to 8 mixed signal formats. With HD-SDI, embedded audio up to 8 channels can be used or two channels of balanced analog audio.

Technical Specifications
Video Formats: 1080i, 720P, NTSC (525 line), PAL (625 line),
16x9 or 4x3 aspect ratio
Frame Rates: 30p, 60i, 59.94i, 50i, 29.97p, 25, 24psf
Compressed Video Stream Rate: 100 kbps to 15 Mbps
Compressed Audio Stream Rate: 20 to 224 kbps
Video Compression Formats: Flash, h.264
Audio Compression Formats: MP3, Optional AAC

Physical/Environmental
Dimensions: 19" W, 18" L, 5.75" H (3RU)
Weight: 35 lbs.
Operating Temperature Range: 20 to 25 C
Power Consumption: 450 W
Input Power: 110/220VAC, 50/60Hz (Auto Sensing)

Front Panel Drives and Connections
2 ea. Removable 2TB Hard Drives (4TB)
1 ea. DVD RW Drive
2 ea. USB 2.0 Connectors

Rear Panel Connections
HD-SDI/SD-SDI/HDMI/Composite Video Input 75 ohm BNC
HD-SDI/SD-SDI Video Outputs 75 ohm BNC
Left, Right Balanced Audio Inputs via XLR Break-Out
PS2 Mouse and Keyboard Inputs
2 ea. RJ-45 Gigabit Ethernet Data
DVI/HDMI/VGA Video Outputs (2 simultaneously viewable)
4 ea. USB 2.0 Connectors, 2 ea. USB 3.0 (not on some earlier models)
Stereo Audio Monitor Output, 1/8 in. mini-jack

Included Accessories and Cables
Full-size Keyboard and Mouse
BNC to BNC Adaptors as needed based on input configuration.
Audio Breakout: XLR Connectors for 2 Channel Analog Audio Inputs/Outputs
AC Power Cord (US)

Included Software
Choice of vMix or VidBlaster Broadcast Edition
Adobe FME 3.2 Live Encoder

Optional Software
SofTV™ Presenter w/PowerPoint
MPEG2 TS Codec
AAC Audio Codec

Optional Hardware
Additional Internal and/or External Storage
External Video Switcher and/or Audio Mixer
Wireless Video/Audio Transmitters & Receivers
Rack-Mount Road Case w/wheels
Dual Channel Audio Processor
Video Source Monitor
Video/Audio In/Out Connector Panel
Microphones, Cameras and Support Equipment

CDN services available @ www.communitek.tv

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