



Features

- Real-Time Compression and Streaming Appliance
- Support for H.264, Flash®
- HD/SD-SDI, HDMI, Analog Video Input Options
- Embedded and Analog Audio Inputs
- Built-in Live Stream Capture and Storage

Applications

- Live Webcasting for Concerts, Sports, News, Conferences and many other real-time applications
 - Direct, Live output to most popular Streaming Services, or Communtek.tv CDN
 - HD or SD Internet Broadcasting for any Television or Radio Station
 - High-Performance Video Conferencing and Archiving
 - Video Stream Compression and Recording for High-Quality Video on Demand (VoD) Applications
- ... all in a compact, 2RU, half-rack chassis designed for professional broadcast users

Product Description

The Minicaster™ is a portable, 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 MPEG4/H.264, and Adobe Flash® encoding, the Minicaster can produce video streams at bit rates from 100 kbps to 15 Mbps, delivering premium performance for all types of streaming applications.

Three main functions are performed by this unit: Video and Audio Switching/Capture/Compression, Stream Formatting/Output, and Archiving.

• Video and Audio Switching/Capture/Compression

The Minicaster™ transforms a wide range of input signals into a variety of compressed signal formats that 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 MPEG-4/H.264.

• **Stream Formatting/Output** wraps the compressed video and audio signals inside IP packets that can be transmitted over public and private networks. Care is taken to ensure that each stream is well behaved to avoid bit rate peaks and valleys, and to ensure compatibility with a wide selection of PC player software. Multicast output is enabled for operation on private networks. Minicaster output streams can also be configured to work with many different reflecting servers and Content Distribution Networks (CDNs) to allow live, simultaneous stream viewing by hundreds or thousands of Internet users.

• **Archiving** records a copy of the compressed video and audio signals on the Minicaster's built-in hard drives while the stream is being generated. The resulting files can be burned directly to a DVD or uploaded to a Web server for playback in Video on Demand (VoD) mode.

Communtek also provides a full suite of web hosting and development services, by means of our Tier1 hosted servers and through partners that provide CDN services around the globe.

Specifications

Versions

Mincaster™ configurations are available in single or multiple HD/SD SDI, HDMI, or Analog video inputs:

Mincaster HD, HD2, and HD4 – HD-SDI inputs that support up to eight channels of embedded audio. Available with 1, 2, or 4 HD-SDI Inputs.

Mincaster HDMI, HDMI4 – HDMI single or Quad Inputs with embedded audio and analog audio. Single input version, includes additional analog video input.

Mincaster SDI – Standard Definition Serial Digital NTSC, PAL, plus an additional analog composite or S-Video input. Support for 4 embedded digital audio channels or two channels of balanced analog audio.

Mincaster SD, SD4 – Standard Definition analog composite or S-Video input with 2-channel audio inputs. Also available with 4 composite video inputs.

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, AAC

Physical/Environmental

Dimensions: 8.5" W, 14" L, 3.5" H (2RU high by ½ rack wide)

Weight: 15 lbs.

Operating Temperature Range: 20 to 25 C

Power Consumption: 250 W

Input Power: 110/220VAC, 50/60Hz (Auto Sensing)

Optional DC Input Power (12V)

Front Panel Connections

2 ea. Removable Hard Drives, Up to 4 TB Total Storage

Multi-function Optical Drive with DVD Burning Capability

Compact Flash Slot

IEEE 1394 Firewire I/O – Optional

2 ea. USB 2.0 Connectors

Left and Right Audio Monitor Outputs, 1/8 in. mini-jack

Rear Panel Connections

Mincaster HD, Single HD-SDI/SD-SDI Input

Mincaster-HD2, Dual HD-SDI/SD-SDI Inputs

Mincaster HD4, Quad HD-SDI/SD-SDI Inputs

Mincaster-HDMI, Single HDMI Input plus Composite/S/Component Input

Mincaster-HDMI4, Quad HDMI Inputs

Mincaster-SD, Single Composite/S-Video Input

Mincaster-SD4, Quad Composite Video Inputs

Mincaster-SDI, Single SDI Input plus Composite/S-Video Input

All HD-SDI/SD-SDI and Analog Inputs are 75 ohm BNC

Left, Right Balanced Audio Inputs via XLR Break-Out Cable

2x USB 3.0 and 4x USB 2.0

2x RJ-45 Gigabit Ethernet Data

2x HDMI Outputs, 1x DVI Output

Stereo Audio Monitor Output, 1/8 in. mini-jack

Included Accessories and Cables

Keyboard w/Mouse Pad (USB)

BNC-BNC Video Cable (10 ft.)

Audio Breakout Cable with 2 XLR Connectors

AC Power Cord (US)

Included Software

Adobe FME 3.2 Live Encoder

Optional Software

VidBlasterX™ Studio, or Broadcast Editions

vMix™ - All Versions

Telestream Wirecast™

SofTV™ Presenter w/PowerPoint

Optional Hardware

HD or SD Video Switcher

Audio Mixer

Wireless Video/Audio Transmitters & Receivers

Rack-Mount Road Case w/wheels

Video Source Monitor

Video/Audio In/Out Connector Panel

Microphones, Cameras and Support Equipment

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