

# MEDIABROADCASTER

## MODELS:

SD – SINGLE / DUAL / QUAD CHANNEL

HD – SINGLE / DUAL CHANNEL

Media**CAST**  
by Inventive Technology

MediaCAST MediaBroadcasters are 1U rack-mount hardware-based encoder. They provide live encoding, recording and broadcasting for IPTV applications, client produced channels and for other live events.

## OVERVIEW.

MediaBroadcaster™ is a high-performance encoding and broadcasting device. It is designed to convert analog or digital video/audio into a wide-range of IP streaming formats for live viewing. The video streams are available for on-demand access on the IP network and can be broadcast live while recording. Most commonly it is used for IPTV delivery and with a/v sources like cameras, camcorders, VHS/DVD decks, and videoconference CODECs.

MediaBroadcasters are hardware-based and provide high-quality, real-time conversion of live video streaming formats. They are designed using non-proprietary, Intel x86 based hardware to provide the best performance and flexibility with upgradability to keep current as video technologies evolve. Models are available that will encode and live broadcast multiple formats and multiple quality-levels simultaneously. The SD versions are upgradable to offer a cost-effective path for high-definition (HD) video encoding. All models have built-in storage for capturing/recording and can record centrally on MediaCAST Media Appliances™.

## WEB CONTROL & SCHEDULING

MediaCAST Web Control & Scheduling™ provides remote MediaBroadcaster control for scheduled broadcasts and recording. It is available from the MediaCAST Live TV interface and allows “authorized” users to control one or more encoders from anywhere on the LAN/WAN/Internet. Scheduling supports multiple recording jobs for one-time or recurring events. MediaBroadcasters support IR and RS-232 remote control of a/v equipment. This is used for remotely controlling VHS/DVD decks, cable/satellite receivers, and stand-alone NTSC/ATSC/QAM tuners. It provides a unified end-user experience through the Web-browser for management of live broadcasts and event capture.



## SUPPORTED FORMATS.

MediaBroadcaster models are available to support the full-range of industry-standard video and audio formats. Many models support multiple formats and all models are field upgradable through swappable encoding cards for future-proofing of hardware investments.

### Video/Audio Live Broadcasting/Recording

- H.264/AVC
- Windows Media
- Flash
- Mpeg 1/2/4
- WebM (VC8) coming soon

### Live Protocols

- Multicast and unicast
  - http, mms, UDP, RTSP, RTP, RTMP
- \*protocol used depends on format*

MediaCAST MediaBroadcasters are commonly used for IPTV, live broadcasting, and recording of events for on-demand viewing. They are field upgradable to support new video technologies and formats.



MediaBroadcasters are typically installed in a head-end rack connected to video sources. They provide live IP broadcasting and recording from VHS/DVD decks, television tuners, cable/satellite and cameras.



### MediaBroadcaster Models:

MCAST-MB-S (Single channel SD - Windows

Media/Flash/H.264)

MCAST-MB-PRO (Single channel SD - Windows

Media/Flash/H.264/MPEG1/2/4)

MCAST-MB-DUAL (2 SD channels - Windows

Media/Flash/H.264)

MCAST-MB-QUAD (4 SD channels - Windows

Media/Flash/H.264)

MCAST-MB-HD (HD - Windows Media/Flash or H.264 w/multicast)

MCAST-MB-HD-DUAL (2 HD channels, H.264 w/multicast)

## SPECIFICATIONS.

### Stream Performance

-SD: 480p, 720x480/640x480, 30fps, 128kbps up to 4Mb/s bit rates for broadband to DVD-quality viewing  
-HD: 1280x720 (720p) to 1920x1080 (1080p), 4Mbps to 8Mbps for HD quality. Supports SD resolutions at lower bit-rates. Dual HD at 720p x 2 channels.

### Hardware

-1U Rack-mount chassis with slide-out rails  
-Intel quad-core Xeon CPUs (2 quad-core for Quad and HD models, upgradable to six-core)  
-146GB SAS hard drive with hot-swap carrier

### Video/Audio Inputs

-SD: Composite, S-video Y/C (BNC/mini-DIN), Component (BNC) w/balanced stereo audio (2xXLR), unbalanced stereo (2xRCA)  
-SD QUAD: Composite (4xBNC), S-video Y/C (1xBNC/mini-DIN), unbalanced audio (4xRCA pairs)  
-HD: SDI/HD-SDI (BNC) w/embedded 16 ch audio  
-HD Dual: SDI/HD-SDI (2xBNC) w/embedded 8 ch audio, Composite/S-Video (2xRCA/DIN), Component  
-SD/HD (2xYPbPr), balanced audio (4xXLR)

### Outputs

-VGA for console display  
-RS-232 serial port for control  
-Dual Ethernet 100/1000MB, static/DHCP  
-USB Ports: 2 rear, 2 front

### Dimensions/Weight

1.69" (H) x 17.09" (W) x 24.69" (D), Approx. 15 lbs

### Power

AC Power adapter 480W (100-240v)

### Optional Accessories

Single, Dual or Quad IR control kit with emitters  
RAID1 or RAID5 control kit and up to 4 hot-swap HDD  
Redundant 500W Power Supplies