

# FireBridge™ for HDV

**MPEG-2 Transport Stream  
Converter and Bridge For Real Time  
Conversion of HDV From JVC™  
GY-HD100U and Sony™ Z1U  
High Definition Cameras to DVB-ASI**



Sony Z1U



JVC GY-HD 100U

## Features

- HDV Input, MPEG-2 /DVB-ASI Output
- Captures compressed video via SerialBus IEEE Std. 1394 (FireWire®) in the following HDV formats:
  - 19.75 Mbps 720p MPEG-2 TS (JVC)
  - 25 Mbps 1080i MPEG-2 (Sony)
- Features “FrameX” conversion – converts output from the JVC GY-HD100U camcorder to 60 frames per second
- Features “CBR” conversion – converts 25 to 27 Mbps variable bitrate (VBR) output from the Sony Z1U HDV camcorder to 27 Mbps constant bitrate (CBR)
- 19 inches wide, 10 inches deep
- Designed for 24x7 operation
- Successfully tested to work with:
  - Sony Z1U HDV Camcorder – outputs 27 Mbps
  - JVC GY-HD100U Camcorder – outputs 19 Mbps
  - JVC DVHS HDM 3000 and HDM 4000 tape recorder
  - JVC DM-D4600U HDTV decoder
  - Major brands of transport stream multiplexers such as Terayon Cherry Picker™
  - High definition IRD's (satellite receivers) with ASI inputs from Tandberg, Leitch, and Harmonic
  - DVEO's T-Streamer/ASI™ transport stream recorder

## Applications

- Reality TV
- Transmission of movie or video "dailies"
- Satellite uplinks
- Electronic news gathering (ENG)
- Bridging HDV to ASI where cost effective HD content is desired
- Replacing \$60,000 HD cameras and \$40,000 MPEG-2 encoders

## Overview

HDV is a brand new high-definition open standard video format established by JVC, Sony, Canon and Sharp. DVEO is one of the latest members of the HDV Format Supporters. HDV supports both 19 and 25 megabit-per-second MPEG-2 transport streams that record to existing standard DV format digital videocassettes, including the Mini-DV shell. Transport streams are MPEG-2 streams that are packetized and have a table structure.

**FireBridge™ for HDV** is a format converter for transport streams. Designed for broadcasters and content providers, FireBridge converts high definition video from the new generation of HDV cameras to DVB-ASI, for use in professional environments where DVB-ASI is used as inputs by professional equipment.

FireBridge output is compatible with DVB-ASI equipment from Tandberg, Terayon, and Harmonic. FireBridge is also compatible with DVEO's **T-Streamer/ASI™**, a transport stream recorder/player with a built-in transport stream analyzer.

As a secondary capability, when used with the JVC GY-HD100U camcorder, FireBridge converts the camera's video output to 60 frames per second (60 fps) – twice as fast as the camera's standard video speed of 30 frames per second – making the video fully compatible with standard broadcast equipment (720p).

FireBridge is designed as an appliance that requires no changes or settings.

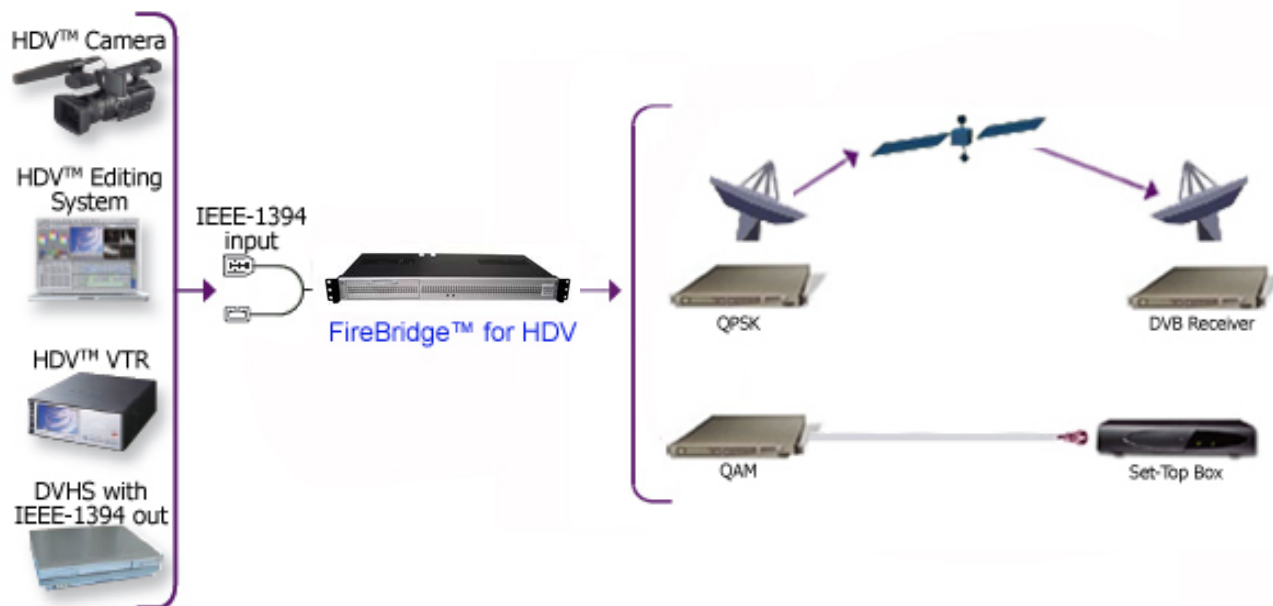
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# FireBridge™ – HDV to DVB-ASI Converter



## Highlights

- Real time HDV to MPEG-2 DVB-ASI transport stream converter
- HDV input via FireWire, MPEG-2 DVB-ASI Output
- Compatible with a wide range of HDV camcorders, tape recorders, and multiplexers
- Designed for 24x7 operation
- Full compliance with the latest DVB standards insures interoperability, high video quality, and exceptional performance

## Ordering Info

- FireBridge for HDV

## Specifications

- Supported management interface
  - IEEE 802.3 100/10 Base-TX Ethernet interface (RJ-45)
- Supported Video Formats
  - 19.75 Mbps 720p MPEG-2 TS (JVC)
  - 25 Mbps 1080i MPEG-2 TS (Sony)
- Quiet, compact, low-powered 1RU rackmount unit
- Reliable embedded Linux® design is always on when powered up