



Streamer for Professionals

# PREMIO HDSDI™ 4:2:2/H.264/H.265



- Real time, low latency, dual channel SD or HD (SDI), H.265/HEVC and H.264/AVC, 8 or 10 bit 4:2:2 or 4:2:0 Mezzanine TS Encoder with 1-50 Mbps. Supports HDR.
- Quick starting, standards compliant Windows® (residing on an SSD)- manageable from anywhere via web GUI.
- Supports closed captioning and teletext with overlay and SCTE 35 ad marker insertion. Supports most industry standard “protocols” like UDP or RTP and “Wrappers” such as HLS, RTMP, DASH, etc. Audio output is AAC,



MPEG-1 Layer II, and/or optional “SurCode for Dolby Digital” AC-3.

- Encodes one or two high quality H.264 1080p or H.265 1080p streams at popular GOP sizes, frame rates, refresh rates, or aspect ratios. Software is scanned for vulnerabilities and open ports.
- Operators can add logos to the streams, and can add SCTE 35 ad markers via SCTE 104 or embedded analog cue tone detection.

## Overview

The PREMIO 4:2:2/H.264/H.265 is a premium quality low latency H.264 and H.265 encoder, able to encode video to mezzanine quality. It is designed for critical contribution applications and has many redundancy features.

The system can overlay logos, text, and closed captioning. It supports SCTE 35 triggers for ad insertion. A recently added feature is stream archiving.

Ordering options include DVEO’s patented DOZER™ UDP packet recovery technology, for reliable video quality over the public internet and across long distances.

This unit is designed to be affordable, scalable, and reliable. Modifications to video formats are easily created. Remote management and multi level security is built in.

## Applications

- Special events.
- News or sports contribution.

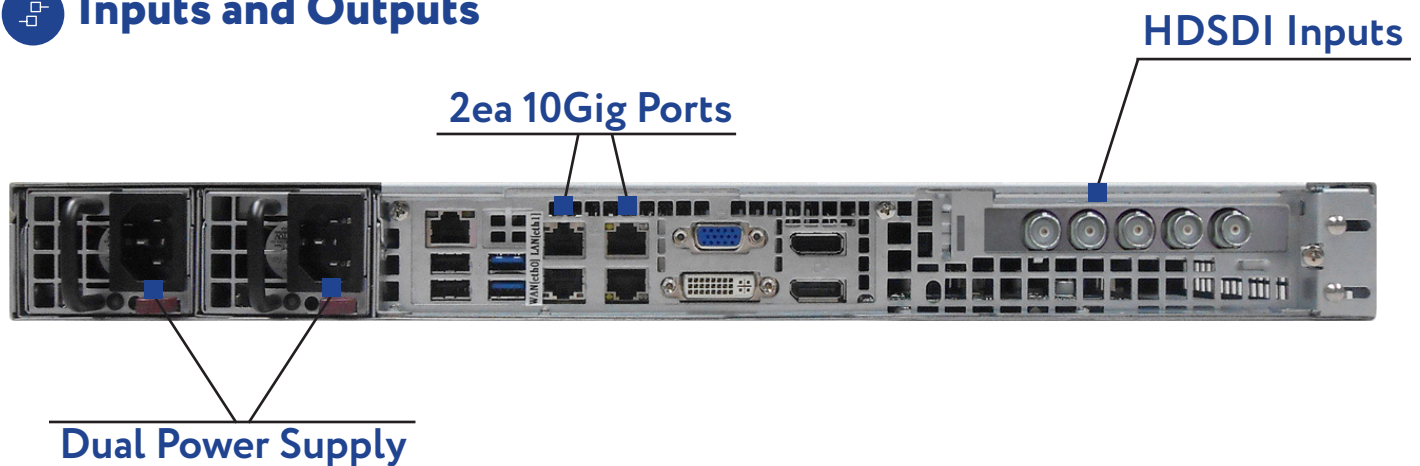


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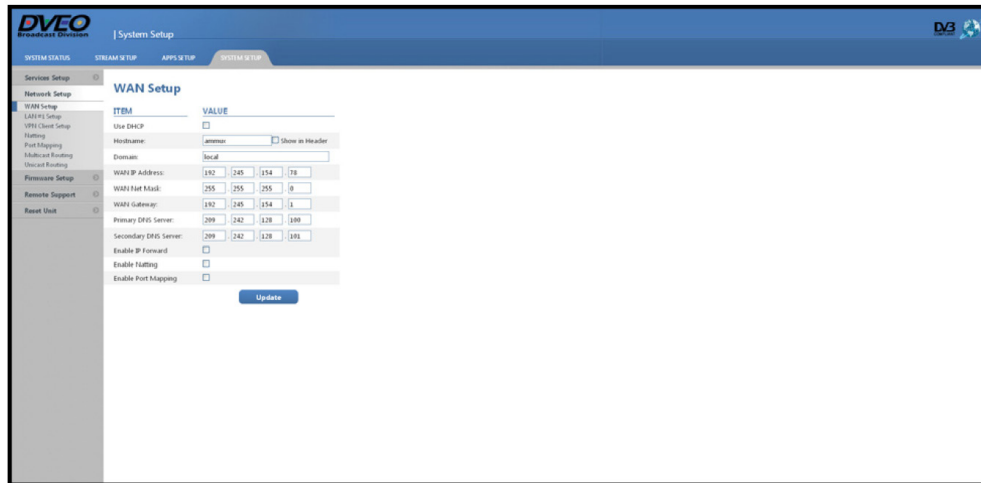
## ★ Features

- Inputs: Two SDI or HD-SDI inputs
- Outputs: Encodes two high quality.1 to 50 Mbps H.264 1080p or H.265 1080p streams
- Supports H.264 High Profile @ Level 4.0 (HP@L4)
- Encoding latency: 150 milliseconds
- 8 or 10 bit encoding with 4:2:2 or 4:2:0 color sampling
- Supports logo insertion, text overlay, and SCTE 35 compliant cue tone insertion (“ad markers”) on outputs (SCTE 104 to SCTE 35)
- Supports DTMF tones and DTMF to SCTE 35 conversion
- Now includes optional stream archiving via 1-4 TB SSDS.
- Able to upconvert incoming SD streams to HD, and scale down
- Web GUI is manageable from anywhere – includes scheduling
- Supports NTSC or PAL
- Supports HEVC main profile
- Encoding bit rates: .1 to 50 Mbps
- Supports 1080i, 1080p, 720p, 576i, 480i, 480p, CIF, QCIF, qHD, H.264up and many others, and custom resolutions
- IP output protocols: UDP, RTP, IGMP, and RTMP
- Expects embedded SDI audio
- Audio Output: AAC, MPEG-1 Layer II, and/or optional AC-3
- Up to 4 audio pairs for support of different languages
- Tested to work with ATLAS™, zXORA™, and Wowza® other industry media servers
- Redundant (dual) power supplies, dual 1 gig Ports.

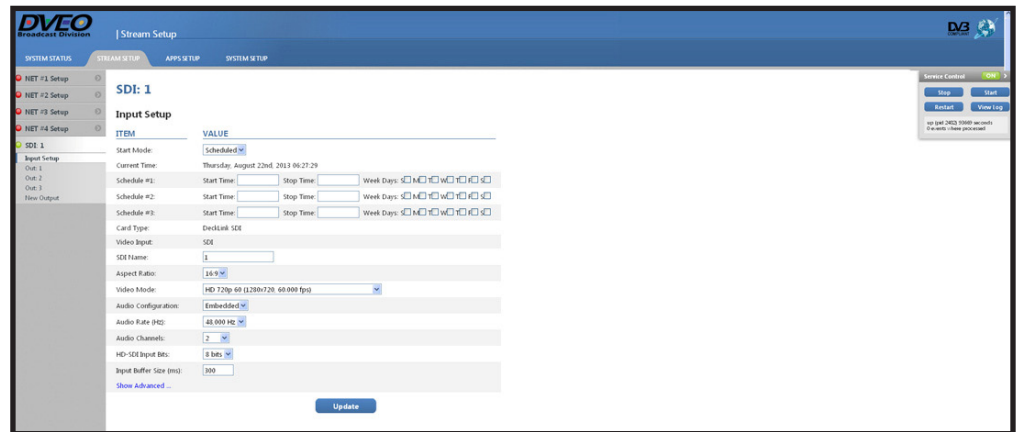
## 🔌 Inputs and Outputs



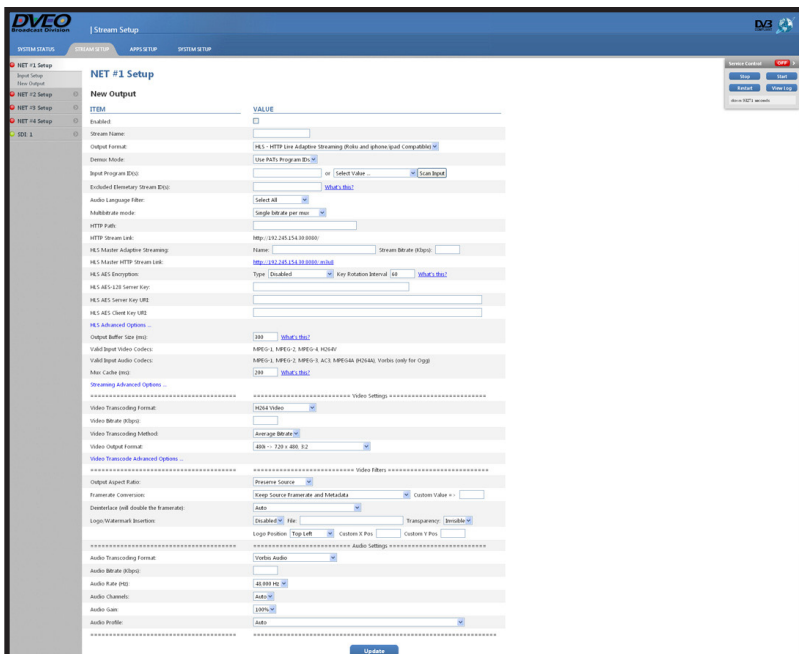
# Sample of GUIs



Network Setup



Scheduled SDI Input Setup



HLS Output Setup

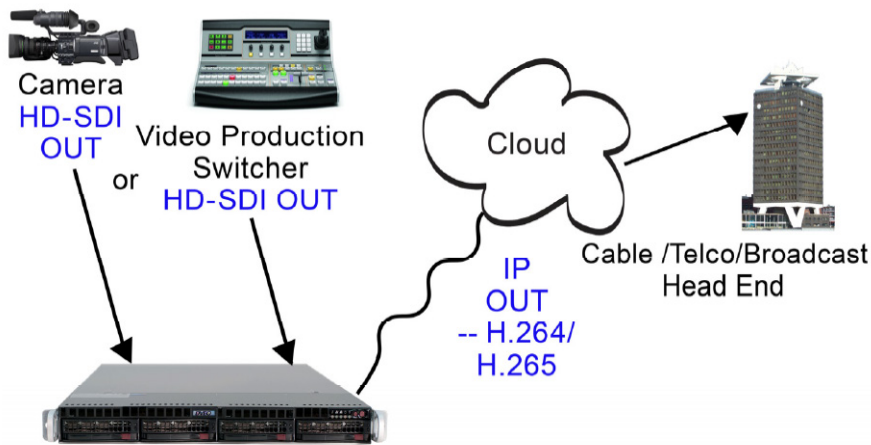
# Specifications

## CPU and Operating System

CPU:	Intel® Xeon® processor + Nvidia GPU
OS:	Windows 10® or Win Server 2016/2018
Hard Drive:	.5 TB SSD: Default
Network	Dual 10Gbe

## Administration

Access:	Web interface, remote desktop
Scheduling:	On, Off support for timeslots
Ad Insertion	SCTE Ad Marker insertion via RS232, USB, IP, Contact closures



## Inputs

Video:	2 SDI or HD-SDI inputs, NTSC or PAL
Audio:	SDI Embedded

## Supported Resolutions - Input and Output

1920x1080	480x480
1280x720	480x320
720x576	320x240
720x480	qHD
704x480	H.264up
640x480	

Also supports any custom resolution not listed here.  
 Note: Does not support 608 closed captioning for SDI input.  
 Only is 708 supported. Note: Supports frame rate conversion.

## Ports Utilized

Protocol	TCP Ports	UDP Ports
HTTP	80, 8000, 8001, 8080, 1-65535 (out)	
HTTPS	443	1935
RTMP		6970-6999, 16384-32767
RTP		1935

## Physical Power

Size:	19 x 20.5 x 1.75 inches (483 x 521 x 44 mm)
Voltage:	00V-240Vac, 47-63Hz, 5-2.5A, 300 watts
Operating Temperature:	0°C ~ 40°C (32°F~ 104°F)
Non-Operating Temperature:	-40°C ~ 70°C (-40°F~ 158°F)
Operating Humidity:	20% to 90% RH non-condensing
Non- Operating Humidity:	5% to 95% RH non-condensing
Weight:	7 lbs. (7.7 kg)
Redundancies:	Dual power supplies, Port redundancies
Memory:	32 GB DDR3
Conformities:	UL, BSMI, CSA, FCC, CE, RoHS



## Video & Audio Compression

Encoding:	H.264/AVC and/or H.265/HEVC
Bit Rates:	Up to 50 mbps
Quality:	8 or 10 bit encoding with 4:2:2 or 4:2:0 color sampling + HDR
Video:	NTSC or PAL
Data Insertion:	Logo insertion and text overlay, RSS crawls SCTE 35 insertion via SCTE 104 triggers
Encoding Latency:	HD-SDI or SDI input: 150 milliseconds (fixed)

## Ordering Information

- PREMIO HDSDI 4:2:2/H.264/H.265



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