



HD & SD VIDEO OVER IP

DSx Video Codec

- Encoding and decoding**
- 4 SD or 1 HD video channels**
- Video over IP streaming**
- Recording**
- Power-Over-Ethernet**
- Signal monitoring**
- On screen display**
- Time code**
- Storage to USB devices**

RGB Spectrum, the industry-leader in streaming and recording technology, has expanded its codec line with the new DSx™ H.264 video over IP solution. The DSx SD/HD codec provides an unmatched combination of outstanding image quality, performance and feature-rich capability.

The DSx SD/HD codec is capable of encoding and streaming either a single channel of high definition HD 1080p video or four NTSC/PAL video channels simultaneously at up to 30 frames per second each. The codec uses H.264 high profile compression technology to optimize image quality with maximum bandwidth efficiency.

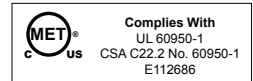
The codec can be used as either an encoder or decoder. As a decoder, the unit can display one HD stream or up to four SD streams in a quad image. Video streams can also be decoded with commercial off-the-shelf PC software. When used for encoding, the unit offers several video monitoring options: displaying a live image or a processed (encoded/decoded) image full screen or in a quad mode.

An on-screen display (OSD) offers titling and time code. External time code synchronization sources time code from a Network Time Server (NTS/NTP) and inserts it into the video stream. Operation is easy and intuitive using the embedded web-based graphical user interface.

The DSx SD/HD offers a number of innovative features, including the ability to record to external USB storage devices, RS-485/RS-422 communication for control of PTZ cameras, and a choice of external power or Power-over-Ethernet (PoE).

The combination of superb image quality, rich feature set, compact size, robust packaging, and 24/7 reliability makes the DSx SD/HD the ideal solution for mission-critical video-over-IP applications, including command-and-control, communications, security, industrial control, and surveillance.

Specifications



CE Tested to comply with CE standards

Specifications subject to change without notice
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HD & SD Video Input

SD Video	
Channels	4
Connector type	BNC
Resolution	720x 480, 720 x 525, 720 x 625, 360 x 240 Interlaced or non-interlaced
Frame Rate	up to 30 fps (per channel)
HD Video	
Channels	1
Connector type	HDMI
Resolution	1080p, 1080i, 720p
Frame Rate	up to 30 fps
Signal Synchronization	Auto sync to SD & HD signals

Audio Inputs

SD Analog	
Number	4 mono
Sample rate	44.1 kHz
Connector type	Terminal Block
HD Digital	
Number	1 stereo
Sample rate	44.1 kHz
Connector type	HDMI

Video Output & Monitoring

Type	Unprocessed ("live") or encoded/decoded images
SD Output	
Connector type	BNC
Display Capability	Input signal loop, display of any single channel full screen or a quad image of all four channels

External Time Code Synchronization

Source	Network Time Server
Format	Network Time Protocol (NTP)

Audio Outputs

SD Analog	
Number	1 mono
Connector type	3.5mm Audio Mini-Jack
HD Digital	
Number	1 stereo
Sample rate	44.1 kHz
Connector type	HDMI

Control

Network Connection	
Type	10/100/1000 Base-T Ethernet
Connector type	RJ 45
Command line	Internal telnet server
Graphical interface	Internal web server for browser based control software

Additional Features

Recording	Capture and record to plug-in USB storage devices
On Screen Display (OSD)	Display time code and titling
Control for PTZ Cameras	RS-485/RS-422 bidirectional communication

Physical

Enclosure Size	6.6"W x 5.7"D x 1.6"H
Weight	approx. 3 lbs.
Power	Power over Ethernet (PoE) option (802.3af) or external 9 to 40 VDC power supply

