DSx H.264 CODECS

VIDEO & GRAPHICS OVER IP

DSx SD/HD Video Codec
DSx 200 Graphics Codec

- Encoding or decoding
- High profile H.264 compression
- Video and graphics over IP
- 4 SD video channels
- 1 HD or graphics channel
- Power-over-Ethernet
- Signal monitoring
- On-screen display
- Time code

RGB Spectrum offers DSx™ codecs with advanced H.264 compression. The codecs provide an unmatched combination of outstanding image quality, performance and feature-rich capability, using H.264 high profile compression technology to optimize bandwidth efficiency.

Two models are offered. The DSx SD/HD codec encodes and streams 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.

Both codec models can be used as either encoders or decoders. As a decoder, the DSx SD/HD 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 DSx SD/HD offers several video monitoring options: displaying a live image or a processed (encoded/decoded) image full screen or in a quad mode.

The DSx 200 codec encodes graphics at 1280 x 1024 resolution or HD video at 1080p, 1080i, or 720p and streams out at 30 fps.

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.

DSx codecs offer a choice of external power or Power-over-Ethernet (PoE). Units are freestanding. A single/dual unit rackmount tray is also available.

The combination of superb image quality, rich feature set, compact size, robust packaging, and 24/7 reliability makes DSx codecs the ideal solution for mission-critical application.

RGB SPECTRUM®
visual resource management™
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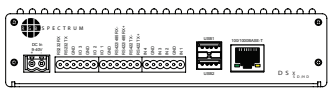
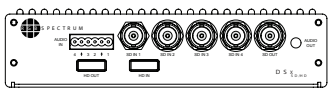
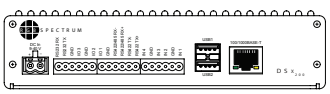
Specifications

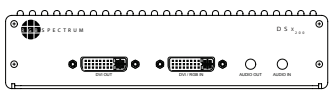
Order #	DSx SD/HD	DSx 200
SD Video Inputs		
SD Video		
Channels	4	• • •
Connector type	BNC	• • •
Resolution	720x480, 720x576 interlaced	• • •
HD Video		
Channels	1	1
Connector type	HDMI	DVI-I
Resolution	1080p, 1080i, 720p	1080p, 1080i, 720p
Graphics	• • •	1
Channels	• • •	DVI-I
Connector type	• • •	1280x1024 @ 60 Hz
Resolution		
Audio Inputs		
SD Analog		
Number	4 mono	• • •
Sample rate	Up to 48 kHz	• • •
Connector type	Terminal block	• • •
Graphics/HD Video		
Number	1 stereo	1 stereo
Sample rate	Up to 48 kHz	Up to 48 kHz
Connector type	HDMI	3.5 mm Audio mini-jack
Encoding/Streaming/Decoding		
Encode/Stream format	H.264 High Profile (Level 4.1), RTSP	H.264 High Profile (Level 4.1), RTSP
Decode format	H.264	H.264
Bit stream bandwidth	User selectable from 250 Kbps to 10 Mbps	User selectable from 4 Mbps to 10 Mbps
Audio compression	A AC	A AC
Resolution	HD, SD @ 30 fps	1280x1024, HD, SD @ 30 fps
Output & Monitoring		
Format	Unprocessed or processed (encoded/decoded) images	Unprocessed or processed (encoded/decoded) images
SD Video		
Connector type	BNC (single channel); HDMI (quad image)	• • •
Resolution	1080i, 720p	1080i, 720p
Display capability	Input signal loop, display of any single channel full screen	• • •
	(BNC) or a quad image of all four channels (HDMI)	• • •
Graphics/HD Video		
Connector type	BNC (single channel); HDMI (quad image)	DVI-D
Display capability	Input signal loop, display of any single channel full screen (BNC) or a quad image of all four channels (HDMI)	Display full screen
External Time Code Synchronization		
Source	Network Time Server	Network Time Server
Format	Network Time Protocol (NTP) embedded time code in video stream	Network Time Protocol (NTP) embedded time code in video stream
Audio Outputs		
SD Analog		
Number	1 mono	• • •
Connector type	3.5mm audio mini-jack	• • •
HD Video		
Number	1 stereo	1 stereo
Sample rate	Up to 48 kHz	Up to 48 kHz
Connector type	HDMI	3.5mm audio mini-jack
Graphics/HD Video		
Number	1 stereo	1 stereo
Sample rate	Up to 48 kHz	Up to 48 kHz
Connector type	HDMI	3.5mm audio mini-jack
Control		
Network connection	10/100/1000 Base-T Ethernet, RJ 45 connector	10/100/1000 Base-T Ethernet, RJ 45 connector
Command line	Internal telnet server	Internal telnet server
Graphical interface	Internal web server for browser based control software	Internal web server for browser based control software
Additional Features		
On screen display (OSD)	Display time code and titling	Display time code and titling
Future upgrades	RS-485/RS-422/RS-232/USB	RS-485/RS-422/RS-232/USB
Physical		
Enclosure size	6.6" W x 7.3" D x 1.6" H	6.6" W x 7.3" D x 1.6" H
Weight	3.0 lbs. 3.2 lbs.	3.2 lbs. 3.2 lbs.
Power	Power over Ethernet (PoE) (802.3af)	Power over Ethernet (PoE) (802.3af)
	or external 9 to 40 VDC power supply	or external 9 to 40 VDC power supply
	Power consumption: <8W (typical)	Power consumption: <8W (typical)
Rackmount option	1 RU tray for mounting 1 or 2 DSx units	1 RU tray for mounting 1 or 2 DSx units





DSx SD/HD





DSx 200