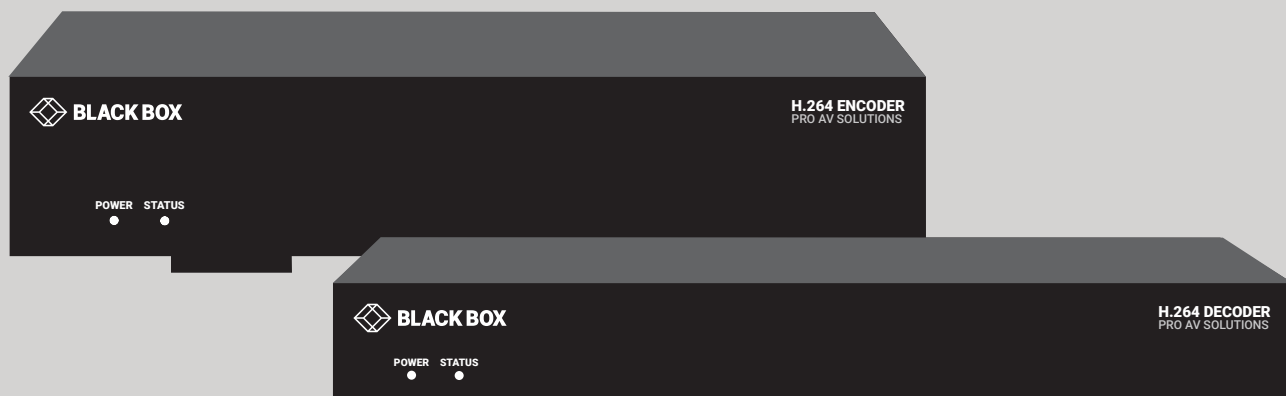


DATA SHEET

VS-2000-ENC, VS-2000-DEC

H.264 ENCODER AND DECODER

24/7 TECHNICAL SUPPORT AT 877.877.2269 OR VISIT BLACKBOX.COM



OVERVIEW

H.264 ENCODER AND DECODER DATA SHEET

INTRODUCTION

VS-2000-ENC is a live streaming media encoder that interfaces with HDMI signals for delivering media over IP networks. VS-2000-ENC can be used with the VS-2000-DEC Decoder to deliver an A/V signal over a LAN or WAN.

The Encoder also works with a third-party decoder such as a set-top box, VLC or Kodi media player on PCs to provide complete end-to-end streaming systems. It features one HDMI input and one Ethernet output for simplified integration into AV systems.

FEATURES (ENCODER)

- USES STANDARDS-BASED H.264/MPEG-4 AVC VIDEO COMPRESSION
- SUPPORTS HDMI INPUT SIGNALS UP TO 1920 X 1200 @ 60 HZ,
- OFFERS FULL HD 1080P @ 60 HZ RESOLUTIONS
- SUPPORTS ONE 10/100/1000BASE-T ENET POE LAN OUTPUT SIGNAL
- CONTROL VIA LAN (WEB GUI AND TELNET).
- SELECTABLE AUDIO ENCODING CONTROL FROM LPCM AND AAC
- WORKS WITH VS-2000-DEC OR THIRD-PARTY DECODERS

FEATURES (DECODER)

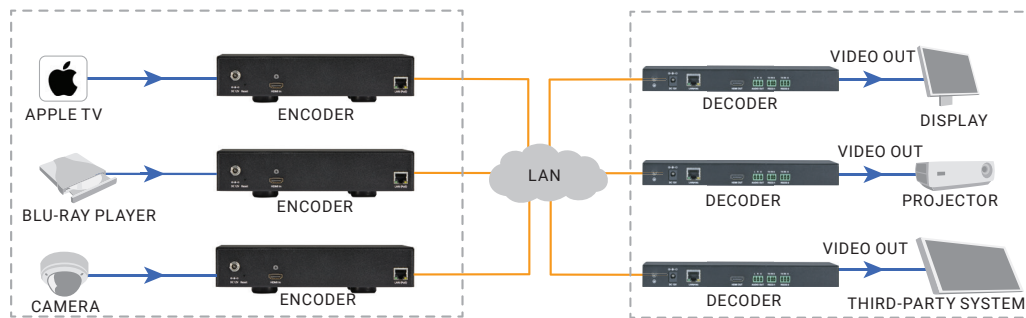
- USES H.264 AND AAC CODEC FOR HIGH VIDEO/AUDIO QUALITY
- CONSUMES LOW BANDWIDTH
- RECEIVES UNICAST OR MULTICAST VIDEO STREAMS
- SUPPORTS UDP AND RTP PAYLOAD AND RTP OVER RTSP
- OUTPUT RESOLUTION MATCHES INPUT

FEATURES (ENCODER AND DECODER)

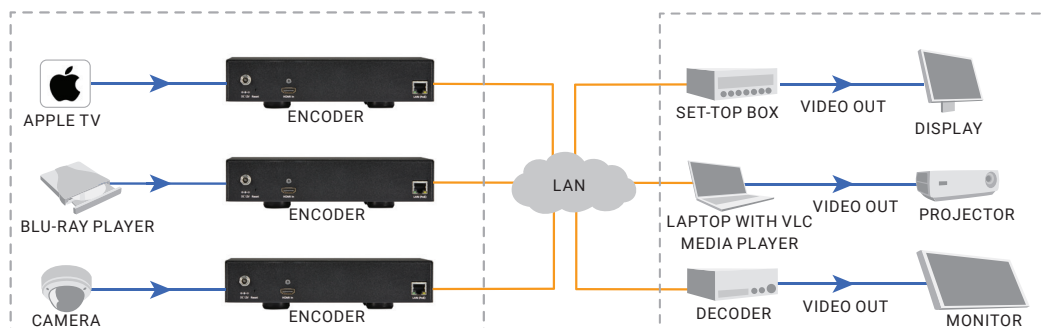
- STREAMS HDMI SIGNALS OVER IP NETWORKS
- ENCAPSULATES A/V OUTPUT DATA INTO MPEG-2
- DELIVERS TS DATA THROUGH UDP OR TRP
- SUPPORTS BOTH UNICAST AND MULTICAST
- SUPPORTS RSTP
- USES POE
- PROVIDES BONJOUR AUTOMATIC DISCOVERY

APPLICATION DIAGRAMS

TYPICAL APPLICATION USING VS-2000-ENC ENCODERS WITH VS-2000-DEC DECODERS



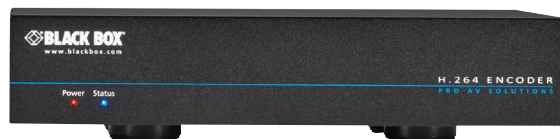
TYPICAL APPLICATION USING VS-2000-ENC ENCODERS WITH THIRD-PARTY DECODER



SPECIFICATIONS

ENCODER (VS-2000-ENC)

FRONT VIEW



BACK VIEW



WHAT'S INCLUDED WITH THE ENCODER

- (1) VS-2000-ENC ENCODER
- (1) 12-VDC, 1-A POWER SUPPLY
- (2) MOUNTING EARS

H.264 ENCODER (VS-2000-ENC)	
APPROVALS	FCC, CE, RoHS,
CONNECTORS	Video: Input: (1) HDMI IN, Output: (1) LAN (PoE), 10/100/1000BASE-T Audio: Input: (1) HDMI IN, Sampling Rate: 48 kHz, Compression and Bit Rate: LPCM (Fixed 1.6 Mbps), AAC (Configurable, 32 kbps, 48 kbps, 64 kbps, 96 kbps, 128 kbps, 192 kbps, 240 kbps) Output: (1) LAN (PoE), 10/100/1000BASE-T
VIDEO TYPE	Input: HDMI 1.4; Output: H.264/MPEG-4 AVC
VIDEO BIT ENCODING RATE	2 to 30 Mbps (configurable)
RESOLUTIONS (INPUT)	Input Video: HDMI Input: 640 x 480, 800 x 600, 1024 x 768, 1280 x 768, 1280 x 800, 1280 x 1024, 1360 x 768, 1366 x 768, 1440 x 900, 1400 x 1050, 1600 x 1200, 1680 x 1050, 1920 x 1200, 720 x 480 (480P), 720 x 576 (576P), 1280 x 720 (720P@30Hz), 1280 x 720 (720P@50Hz), 1280 x 720 (720P@60Hz), 1920 x 1080 (1080P@24Hz), 1920 x 1080 (1080P@25Hz), 1920 x 1080 (1080P@30Hz), 1920 x 1080 (1080P@50Hz), 1920 x 1080 (1080P@60Hz)
RESOLUTIONS (OUTPUT)	Output Video: Ethernet output: 640 x 480, 800 x 600, 1024 x 768, 1280 x 768, 1280 x 800, 1280 x 1024, 1360 x 768, 1366 x 768, 1440 x 900, 1400 x 1050, 1600 x 1200, 1680 x 1050, 1920 x 1200, 720 x 480 (480P), 720 x 576 (576P), 280 x 720 (720P@30Hz), 1280 x 720 (720P@50Hz), 1280 x 720 (720P@60Hz), 1920 x 1080 (1080P@24Hz), 1920 x 1080 (1080P@25Hz), 1920 x 1080 (1080P@30Hz), 1920 x 1080 (1080P@50Hz), 1920 x 1080 (1080P@60Hz)
CONTROL METHOD	LAN (Web GUI and Telnet)
WEB BROWSER SUPPORTED	Internet Explorer, Microsoft Edge, Firefox, Chrome (Recommended)
OPERATING TEMPERATURE/ HUMIDITY	32 to 113° F (0 to 45° C), 10 to 90%, non-condensing
STORAGE TEMPERATURE/ HUMIDITY	-4 to 140° F (-20 to 70° C), 10 to 90%, non-condensing
POWER	12 VDC, 1 A
POWER CONSUMPTION	10.5 W (Max.): powered by a power adapter; 15.4 W: powered by an 802.3af power source
ESD PROTECTION	Human body model: ±8kV (air-gap discharge) ±4kV (contact discharge)
SURGE PROTECTION	±1 kV
DIMENSIONS	Product: 1.7"H x 14.2"W x 10.2"D (4.4 x 22 x 17.9 cm); Shipping Box: 3.3"H x 14.2"W x 10.2"D (8.5 x 36 x 26 cm)
WEIGHT	2.6 lb. (1.2 kg)

SPECIFICATIONS

DECODER (VS-2000-DEC)



WHAT’S INCLUDED WITH THE DECODER

- (1) VS-2000-DEC DECODER
- (2) PHOENIX CONNECTORS
- (1) 12-VDC, 1-A POWER SUPPLY
- (2) MOUNTING EARS

H.264 DECODER (VS-2000-DEC)	
APPROVALS	FCC, CE, RoHS,
CONNECTORS	Video: Input: (1) LAN, Output: (1) HDMI Audio: Input: (1) LAN, Output: (1) Phoenix connector; Audio Format: Input: Audio embedded in streaming media: Output: Unbalanced stereo audio
VIDEO TYPE	Input: H.264/MPEG-4 AVC Output: HDMI 1.4
RESOLUTIONS (INPUT)	Input Video: 480p @ 60Hz – 1920 x 1200 @ 60 Hz
RESOLUTIONS (OUTPUT)	Output Video: HDMI Input: 640 x 480, 800 x 600, 1024 x 768, 1280 x 768, 1280 x 800, 1280 x 1024, 1360 x 768, 1366 x 768, 1440 x 900, 1400 x 1050, 1600 x 1200, 1680 x 1050, 1920 x 1200, 720 x 480 (480P), 720 x 576 (576P), 1280 x 720 (720P@30Hz), 1280 x 720 (720P@50Hz), 1280 x 720 (720P@60Hz), 1920 x 1080 (1080P@24Hz), 1920 x 1080 (1080P@25Hz), 1920 x 1080 (1080P@30Hz), 1920 x 1080 (1080P@50Hz), 1920 x 1080 (1080P@60Hz)
CONTROL METHOD	LAN (Web GUI and Telnet)
WEB BROWSER SUPPORTED	Internet Explorer, Microsoft Edge, Firefox, Chrome (Recommended)
OPERATING TEMPERATURE/ HUMIDITY	32 to 113° F (0 to 45° C), 10 to 90%, non-condensing
STORAGE TEMPERATURE/ HUMIDITY	-4 to 140° F (-20 to 70° C), 10 to 90%, non-condensing
POWER	12 VDC, 1 A
POWER CONSUMPTION	DC Adapter: 6 W (Max.) PoE: 10 W (Min.) for safe operation
ESD PROTECTION	Human body model: ±8kV (air-gap discharge) ±4kV (contact discharge)
SURGE PROTECTION	±1 kV
DIMENSIONS	Product: 3.0”H x 12.2”W x 7.1”D (7.6 x 31 x 18 cm)
WEIGHT	3.86 lb. (1.75 kg)

ORDERING INFORMATION

ITEM	CODE
H.264 Encoder	VS-2000-ENC
H.264 Decoder	VS-2000-DEC

DISCLAIMER

Black Box Corporation shall not be liable for damages of any kind, including, but not limited to, punitive, consequential or cost of cover damages, resulting from any errors in the product information or specifications set forth in this document and Black Box Corporation may revise this document at any time without notice.

ABOUT BLACK BOX

Black Box is a world leading technology solutions provider specializing in complete high-performance KVM, professional A/V signal distribution and extension and switching solutions for mission-critical applications. Black Box is dedicated to delivering superior project engineering, technical support, and 24/7 customer service you can rely on for your most critical operations.

Every day, our customers trust us to design, integrate, and maintain reliable control room solutions for broadcasting, post-production, stadiums & arenas, medical, air traffic control, oil & gas, government & military, and utility industries. Leave the tech to us and our comprehensive technology solutions will deliver secure connections, fast-response times, real-time collaboration and more.

FILENAME: VS-2000-ENC_VS-2000-DEC_DS_REV1
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