



Digital Signage MPEG2 Encoder with QAM Output



PRODUCT DESCRIPTION

The DSE24A is a single channel HD encoder with RF QAM and IP outputs. Drake's DSE24A encodes an uncompressed video source from devices with HDMI, high-resolution component, composite or VGA outputs. The DSE24A encodes the incoming video to MPEG2. It is then internally connected to a QAM modulator and low-noise upconverter. The DSE24A comes as a small, modular desktop model but can be rack-mounted in just 1RU of height by using the optional 19" rack mounting panel. Control and access is through a GUI-based menu via Web browser.

Distribution is over legacy coaxial networks. This provides instant access to an extensive network of digital displays capable of viewing valuable ad-based or informational video in a vibrant high-definition format.

FEATURES

- Receives High-Resolution Component, Composite, VGA, or HDMI (non-HDCP content-protection) from one video source
- QAM and IP Outputs
- Digitally Encodes to MPEG2
- Encodes to resolutions of 480i, 720p, or 1080i
- Audio Encoding to Dolby® Digital
- · Supports Closed Captioning
- GUI-based Remote Network Control and Monitoring
- Desktop Model





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INPUT				
Component				
Connector(s):	3x RCA for Video (Y, Pb, Pr)			
Video Resolution:	480i, 720p, & 1080i			
Video Aspect Ratio:	4:3 & 16:9			
Audio:	2x RCA for Analog Audio (L, R) 1x RCA for Digital Audio (PCM)			
HDMI				
Connector(s):	1x HDMI			
Video Resolution:	480i, 720p, & 1080i			
HDCP Encryption:	Not Supported			
Audio:	Embedded PCM & pass-thru Dolby® Digital only			
VGA				
Connector(s):	2x Female VGA (Input + Loop-through Output)			
Video Resolution:	640x480 @ 60 fps 800x600 @ 60 fps 1024x768 @ 60 fps			
Audio:	2x RCA for Analog Audio (L, R) 1x RCA for Digital Audio (PCM)			
Composite				
Connector(s):	1x RCA for Video (Y)			
Video Resolution:	480i			
Audio:	2x RCA for Analog Audio (L, R) 1x RCA for Digital Audio (PCM)			
ENCODING P	ROFILE			
Video				
Output Format:	MPEG-2 HD MP@ML; ISO 13818-2			

Output Format:	MPEG-2 HD MP@ML; ISO 13818-2		
Chroma:	4:2:0		
Resolution:	480i, 720p, & 1080i		
Frame Rate:	29.97 fps (480i); 29.97 fps (1080i); 59.97 fps (720p)		
Aspect Ratio:	4:3 & 16:9		
GOP Structure:	I & P frames (user selectable)		
Transport Rate:	Variable (user selectable)		
Video Bit Rate:	Variable (user selectable)		
Video Pre-filter:	Variable (user selectable)		
Color Space:	YCbCr and RGB		
Audio			
Output Format:	Dolby [®] Digital		
Sampling Rate:	48 kHz		
Bit Rate:	Variable; 96 - 448 Kbps		
Closed Captioning			
Component:	EIA- 608; 1x RCA (CC)		
HDMI:	EIA- 608; 1x RCA (CC)		
VGA:	EIA- 608; 1x RCA (CC)		
Composite:	EIA- 608		

OUTPUT				
RF QAM				
Connector(s):		1x "F" Female (Rear-panel)		
Modulation:		QAM 16, 32, 64, 128, and 256		
Standards:		ITU-T J.83; Annex A and B		
Frequency Range:		5 to 1002 MHz		
Tuning:		CATV Channel Selectable (T7 to T14, 2 to 158)		
Channel Bandwidth:		6 MHz		
RF Level:		+40 dBmV ±1 dB		
RF Level Adjustment:		+35 to +42 dBmV, 0.5 dB increment		
Frequency Stability:		± 5 kHz over 32 to 122 °F (0 to 50 °C)		
Frequency Tolerance:		± 0.5 kHz @ 77 °F (25 °C)		
Phase Noise:		-98 dBc (@ 10 kHz)		
Spurious:		-60 dBc		
Broadband Noise:		-70 dBc (@ +40 dBmV output level, 5.5 MHz bandwidth)		
Impedance:		75 Ω		
Return Loss:		14 dB typical		
Signal-to-Noise Ratio (SNR): 40 dB typical		
MER:		40 dB typical		
I/Q Phase Error:		Less than 1 degree		
I/Q Amplitude Imbalar	nce:	Less than 1%		
IP				
Connector(s):		1x RJ45 (Rear-panel)		
Standard:		100/1000Base-T Ethernet		
UDP/RTP:		Supported (user-selectable)		
GENERAL				
Mechanical				
Dimensions (W x D x H):		8.66 x 9.15 x 1.96 inches (219.9 x 232.41 x 49.784 mm)		
Weight:		2 lbs (0.907 kg)		
Operating Temperature: 3		32 to 122 °F (0 to 50 °C)		
Storage Temperature: -2		-13 to 158 °F (-25 to 70 °C)		
Operating Humidity: 0		0 to 95% RH @ 35 °C max, non-condensing		
Storage Humidity: 0		0 to 95% RH @ 35 °C max, non-condensing		
Power				
		External Power Supply (Input 115-230VAC / Output 12VDC @ 3 Amp)		
Dissipation: 10		16 W		
ALARMS/MONITORING/CONTROL				
Local Monitoring:	1x Power LED 1x Status LED			
Local Control:	1x	IP Reset Button		
Remote Monitoring/ Control:	GUI-based menu via Web browser (1x RJ45 (rear-panel); 100/1000Base-T, also used for IP output)			
Specifications are subject to change without notice or obligation.				

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