



# DSM COREcoder Series

CORE Media Technologies  
TECHSMART **CORE**  
media

## DREAM STREAM Machine™ DSM Series COREcoders™

There are quite a few companies offering encoder technologies these days. Many of these vendor technologies offer quality, multi-channel streaming capabilities focused on encoding and streaming live video from TV tuners or DVD sources. So what makes DREAM STREAM Series COREcoders stand apart?

DSM Series COREcoders are the most capable and flexible encoder technologies on the market, enabling you to not only stream a high number of concurrent streams per unit from uncompressed video sources but also enable you to produce live video productions, record and transfer all program streams to a media archive system and serve as a digital signage system\* – all from one box!

The many features of DSM Series encoders give you a feature set and a level of flexibility and freedom that is unequalled –  
Allowing the DSM to be called: **“A Uniquely American Technology”**.

### AT A GLANCE

- Up-to four channels of encoding (program streams) with two additional digital signage streams
- Live video production with 1-2 cameras, lower -thirds titling, video playback, Chroma-key effects, PIP effects AND MUCH MORE.
- Supports http, rtsp and mms protocols (**WM**) rtmp, mmsh and rtp protocols (**h.264**) Multicast and Unicast
- Input choices: 4 Composite video with VGA, 4x HDMI inputs
- No fans. No noise. Designed for 24/7 operation – with zero moving parts.

The central component of a well-designed media system is an encoder that can stream to all of your displays and devices. The diagram below illustrates how a DREAM STREAM Machine™ COREcoder™ is the perfect center-piece for all of your media delivery and production needs

### Meetings and Event Broadcasts –

Reach a large audience of customers, constituents, employees and others over the corporate network and the Internet to communicate your message to wide audience

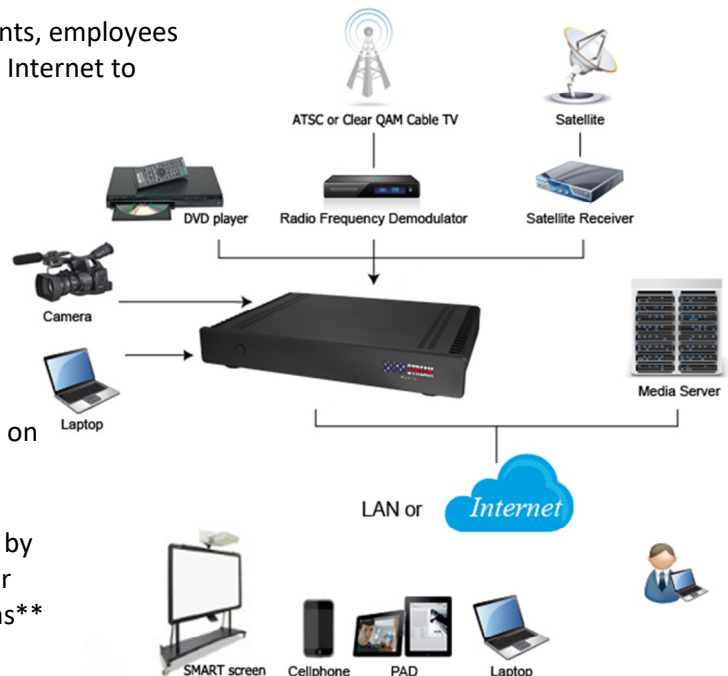
**IPTV** - Encode selected television channels – including news, weather and educational programming or DVD players across your existing LAN, WAN or IP network

**Surveillance and Monitoring** - Monitor roadways, seaports, factory floors and secure borders; maintain situational awareness on the battlefield or other critical locations

**Digital Signage** - Deploy signage economically by encoding the content once and distributing over your network to cost-effective micro-PC systems\*\*

**Telemedicine** - Watch intricate operations and other medical procedures – particularly useful for medical training

**Knowledge Management** – Video Archive important, mission critical processes and procedures and create a knowledge management media database.



Screen shot of the DSM Production interface. Up to 10 sources can be used in your live productions, lower thirds, audio mixer and multiple effects including green screen.

## TECHNICAL SPECIFICATIONS

### Video and Audio Encoding

#### H.264 and WINDOWS MEDIA Encoding

Input format: 1080p25/30/50/60,  
1080i, 720p50/60, 576i, 480i,  
1280x1024, 1024x768

#### 4:3 Aspect Ratio Resolutions: D1

(720x480, 720x576), SIF (NTSC),  
QSIF (NTSC), CIF (PAL), QCIF (PAL),  
400x304, 384x288 (PAL), 640x480,  
320x240, 128x96, 192x144

#### 16:9 Aspect Ratio Resolutions:

960x544, 720p (1280x720p), 1080p  
(1920x1080), 656x368, 512x288  
(PAL), 256x144

#### Video Frame Rates:

15, 29.9, 30, 60fps (NTSC)  
(PAL) 12.5, 25, 50, 60

### Audio Encoding

AAC-LC and AAC-HE Encoding

Sample frequency 8 Khz to 48 Khz

Rates: 8 Kbps - 320 Kbps

Audio Modes: 5.1, Stereo, Mono

Inputs: Stereo Unbalanced at line,  
microphone or high headroom input  
levels, and microphone via analog  
audio inputs. Digital audio can also  
come through the HDMI inputs.

- Multi Bit-rate Encoding capable
- 300 kbps to 5 Mbps each stream.
- 2 simultaneous rates per stream
- Stream-splitting enables you to send to two destinations per stream
- Virtual Studio technologies – Create your own custom virtual studio from something as simple as your favorite image.
- Live productions are able to stream and record WM and h.264 concurrently
- COREtv application included – play your live and archived productions on ANY device.
- Digital signage application includes templated layouts and plug-in components for clocks, RSS scrolling news sources. Live
- 8 channel USB digital audio mixer INCLUDED.
- 24 inch LCD monitor included.
- Secondary 32 inch LCD Monitor and “roll-away” stand INCLUDED. (specifications may change)
- Wireless keyboard and mouse
- External PSU keeps unit cool and quiet. Runs on standard 110-120 AC
- Comprehensive instruction booklet included
- Custom applications and tools for video production, graphic editing and streaming - INCLUDED

### Disclaimers:

This document will be updated from time to time as features change. The documentation and added features will be released as free updates for the warranty period of one-year from the purchase date. Please send any correspondence to:

Digital signage is a form of electronic display that shows information, advertising and other messages. Digital signs (such as LCD, LED, plasma displays, or projected images) can be found in public and private environments, such as retail stores and corporate buildings.

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Dream Stream Machine  
COREcoders are Designed,  
Engineered and Assembled in  
South Carolina.

