

AVerMedia

AVerCaster Premium RS7130

Live IP/TS Transcoder



Highlights

- Diverse Input Signal Options
 - IP/TS and 1x HD-SDI/SD-SDI inputs supported
- Ideal High Quality Encoding
 - H.264, AAC and MP3 video and audio codecs supported
- Intuitive user interface
 - Browser-based web interface for functional and easy user control
- Cost-effective solution for OTT and IPTV services
 - Encode single source into multi-screen streams
- Proven Platform Resiliency
 - 1U rack-mounted server
 - Power, network and channel redundancy

Video capturing, encoding and streaming for OTT and IPTV require live broadcasting capabilities of TV programs and HD video to a wide viewership over available networking environments. The AVerCaster Premium RS7130 meets the stringent requirements and extends the function offerings by including bit rate and resolution configuration, and multiple encoding options to fully optimize the viewing quality as demanded by a wide range of applications. Additionally, AVerCaster Premium RS7130 supports Adobe® Flash, Apple's HTTP Live Streaming (HLS) and the 3rd Generation Partnership Project (3GPP) standard to increase the broadcasting reach to computer and mobile device viewers.

In order to enhance the RS7130 convenience as a head-end device, AVerMedia has developed an intuitive management webpage with remote monitoring functions, easy to use with no additional technical skills required. The AVerCaster RS7130 is designed to keep managerial costs to a minimum without sacrificing high video quality, extensibility and durability.

Single Source to Multi-screen Streams

- Supports single source to be encoded to multiple output streams for various client devices
- Compatible with standard video streaming protocols for OTT and IPTV applications

High-quality Encoding and Transcoding

- Capable of transcoding video to H.264 and MPEG-4, the major formats for OTT and IPTV industries
- Allows resolution and output data rate configurations to meet varying requirements
- Supports H.264/ AAC, H.264/ MP3, MPEG-4 , H.263/ AMR, AAC and MP3 video and audio codecs
- Integrates H.264 and Flash formats, allowing end users to watch high quality video over the web

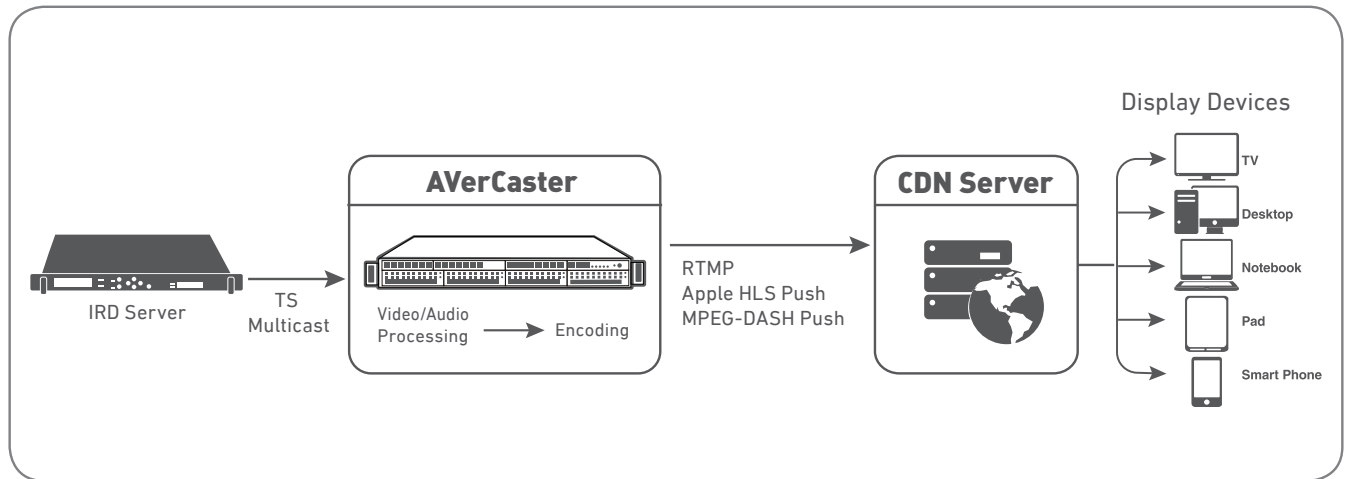
Proven Reliable Technology

- Built-in web-based server for cross-platform remote control
- AVerMedia's capture expertise and quality technical support ensures reliable streaming even over extended periods of time

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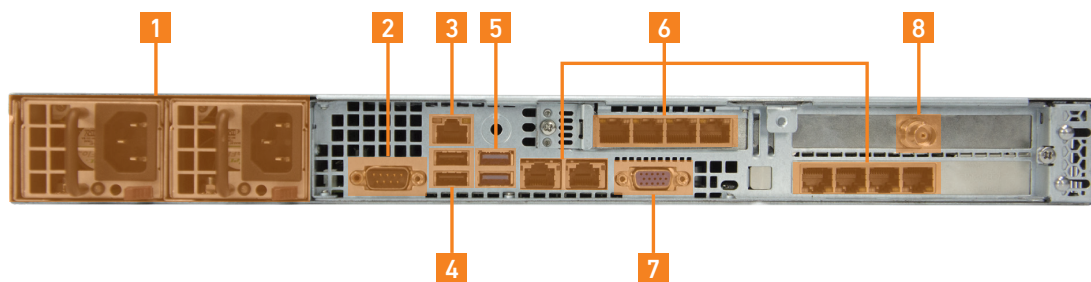
Workflow



Platform Specification

Input Signal	Input Interface	HD-SDI / SD-SDI / IP / TS / File
	Max. Input Channels	HD-SDI / SD-SDI
Physical	Dimension (H x W x D)	437 x 43 x 650 mm / 17.2" x 1.69" x 25.6"
	Weight	10.7 kg / 23.59 lbs.
Power	Voltage	00V-240V, 63-47 Hz, 4-2 A
	Power Consumption	Redundant Power 500 W
Environment	Operating Temperature	10°C ~ 35°C (50°F ~ 95°F)
	Storage Temperature	-40°C ~ 70°C (-40°F ~ 158°F)
	Humidity Tolerance	5% ~ 95% @ 40°C (Non-condensing)

Appearance



- 1** Power
- 2** RS232
- 3** IPMI
- 4** USB 2.0
- 5** USB 3.0
- 6** LAN Port
- 7** VGA
- 8** SDI

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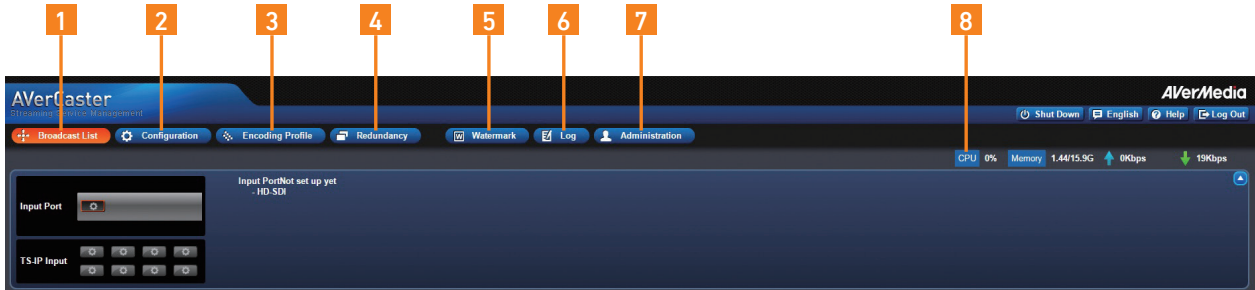
Input Source	Media container	.ts
	IP/TS input	TS RTMP RTP over UDP RTP over TCP HTTP
Codecs	Video Codecs	MPEG-4 AVC/H.264 high profile, main profile, baseline profile MPEG-2 main profiles, simple profile
	Audio Codecs	MPEG-1 Layer II MPEG-2 AAC-LC, HE-AAC v1, HE-AAC v2
Preprocessing	Video Preprocessing	De-interlacing De-noising Logo insertion with fade-in/out* Watermark Image cropping/resizing Frame rate conversion Frame rate decimation File concatenation and frame trimming BT.601/BT.709/BT.2020 color space conversion Full/Head range conversion Picture-in-Picture*
	Audio Preprocessing	Resampling Loudness Correction WAV files aggregation*
	Ad Management	Insertion* Replacement* Scheduling*
Video Encoding Mode	Rate Control	CBR VBR ABR
	Frame control	IDR-Frame strategy control
	Data Rate	H.264: 10Kbps-20Mbps MPEG-2: 10Kbps-40Mbps
	GOP	GOP Fixed Variable
	Key Frame	5-300
Scene Cut Detection	Automatic	
Audio Encoding Mode	Rate Control	CBR
Output Stream	Resolution	1080i60,1080p30, 720p and below
	IP Version	IPv4 IPv6
	Protocol	HTTP MPEG2-TS RTSP RTMP RTP over UDP (Unicast & Multicast) RTP over TCP (Unicast & Multicast) Apple HLS Adobe HTTP Dynamic Streaming* Microsoft Smooth Streaming* MPEG-DASH Push
Redundancy	Components	Server Channel Network Power N+M*
Alerts	Server	System Status Alert* Power Redundant Alert* Network Redundant Alert*
	Channel	Channel Status Alert* Channel Redundant Alert*
CDN	Compatibility	Akamai Wowza Amazon Web Service

* All product specifications are subject to change without notice.

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AVerCaster Web UI



1	Broadcast List	Manage streaming status
2	Configuration	Configure video source inputs and streaming outputs
3	Encoding Profile	Preset encoding profiles for easy streaming control
4	Redundancy	Manage server redundancy and channel redundancy
5	Watermark	Overlay specific watermark on screen
6	Log	Log management
7	Administration	Account management
8	System Status	Monitor CPU, memory and throughput statuses

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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