

AVerMedia

AVerCaster Premium RS7170

4-CH 1080p60 HDMI Encoder



Highlights

- **Highly flexible input signals**
 - Supports up to 4x HDMI 1080p60 signal inputs
- **High quality encoding capability**
 - Supports H.264, AAC, and MP3 video and audio codecs
- **Intuitive user interface**
 - Visualized WebUI for capture devices to handle signal inputs
- **Cost-effective solution for OTT and IPTV services**
 - Single source encoded to multi-screen streams
- **Reliable platform**
 - 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 RS7170 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 RS7170 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 RS7170 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 RS7170 is designed to keep managerial costs to a minimum without sacrificing high video quality, extendibility and durability.

Single source to multi-screen streams

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

High-quality encoding capability

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

Proven reliable technology

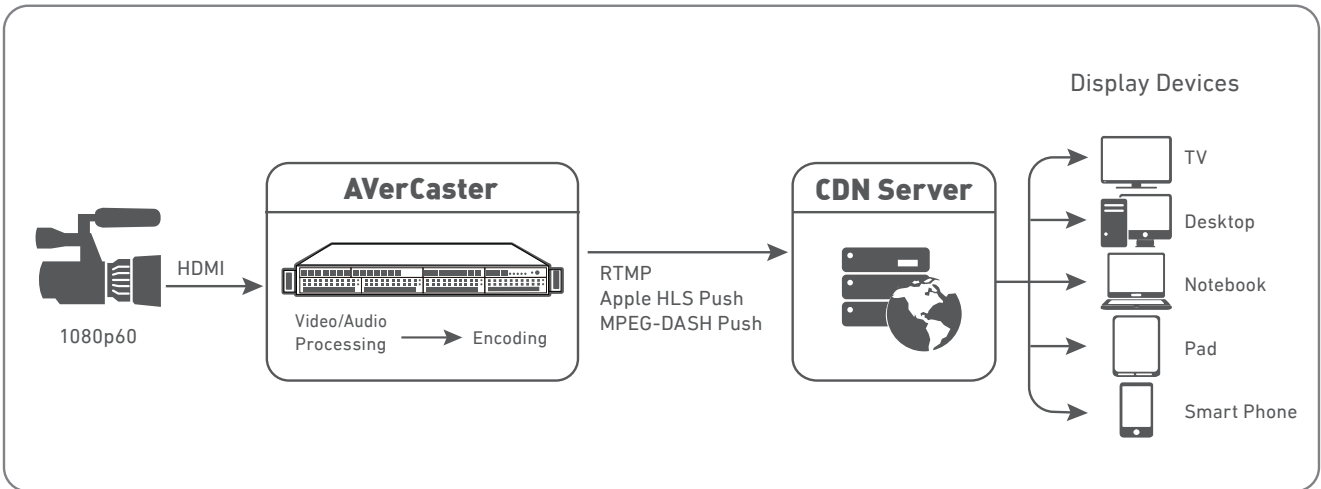
- Built-in web-based server for cross-platform remote control
- AVerMedia's capture expertise and quality technical support ensures the device reliability during long-term video streaming

SW backup solution

- Server and channel redundancies to avoid contingencies
- Recovery disk and configuration reset can return the server to default settings
- All profile, streaming and server settings can be exported for backup

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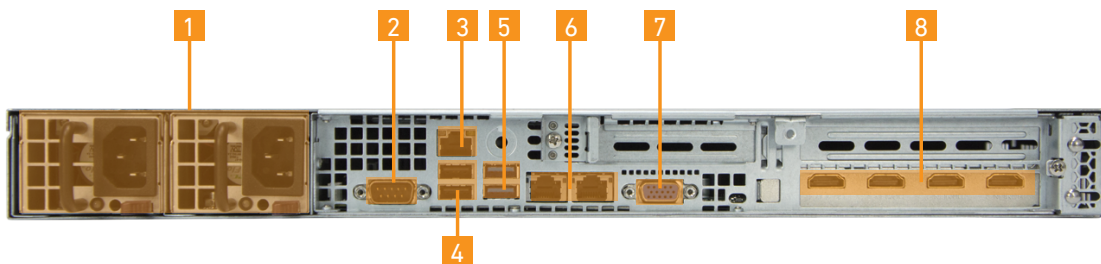
Workflow



Platform Specification

Input Signal	Input Interface	HDMI
	Max. Input Channels	4 x FHD
Physical	Dimension (W x H x D)	437 x 43 x 650 mm / 17.2" x 1.69" x 25.6"
	Weight	10.7 Kg / 23.6lbs
Power	Voltage	100V-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 HDMI

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Encoder Specifications

Input Source	Video Input	1080p60, 1080i60, 1080p50, 1080i50, 1080p30, 1080p25, 720p60, auto sensing			
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 Watermark Image Cropping/Resizing Frame Rate Conversion Frame Rate Decimation BT.601/BT.709 Color Space Conversion Picture-in-Picture*			
	Audio Preprocessing	Resampling Loudness Correction			
	Ad Management	Insertion* Replacement* Scheduling*			
Video Encoding Mode	Rate Control	CBR VBR ABR			
	Data Rate	H.264: 10Kbps-20Mbps MPEG-2: 10Kbps-40Mbps			
	GOP	Fixed Variable			
	Key Frame	5-300			
	Scene Cut Detection	Automatic			
Audio Encoding Mode	Encode Mode	Progressive MBAFF CABAC CAVLC			
	Rate Control	CBR			
Output Stream	Encode Stream	Up to Full HD 1080p60			
	Resolution	1920x1080,1760x990, 1600x900, 1440x810, 1280x720, 1024x576, 864x486, 720x576, 704x576, 640x576, 544x576, 480x576, 352x576, 960x540, 852x480, 720x480, 704x480, 640x480, 544x480, 480x480, 352x480, 480x360, 640x360, 352x288, 384x288, 480x270, 320x240, 320x180, 240x160, 176x144, 128x96, 96x96, 120x90, 160x90			
	IP Version	IPv4 IPv6			
	Protocol	HTTP MPEG2-TS (Support TR 101 290) 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*			
Alert	Server	System Status Alerts* Power Redundant Alert* Network Redundant Alert*			
	Channel	Channel Redundant Alert*			
CDN	Compatibility	Akamai Wowza AWS	Ustream Youtube live Facebook live	Twitch Livehouse.in CDNVideo	Mona Kaltura

* 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	Visualized Video Inputs	Intuitive UI to manage capture interfaces
9	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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