

Advanced Compact Multiscreen Video HD Encoder

Caster-T312

★ Newly added LCD touch screen function



Version 1

VS



Version 2

Caster-T312 is combined with years of developing experience in video encoders of network. It is an portable encoder comply with MPEG-4 AVC encoding and broadcast level of High Profile 5.1. Also it adopts embedded operating system, guarantee the stability of the work, support selectable SDI\HDMI inputs adaptive, Provides a high Performance -to-price ratio for live, easy operate solution for IPTV.

Caster-T312 can push /pull H.264, MPEG-4 encoding video streams deliver to various servers, such as Adobe Flash Server, Wowza Server, Windows Media Server, Apples HTTP Live Streaming, and some other servers base on UDP/RTSP/RTMP/HTTP/RTP protocols.

As electronic products have being intellengentize today, we also strive for a easier operation device, and give customer a wonderful user experience. The new version of Caster-T312 has colored appearance, LCD touch screen, making the small box cool enough besides its power performance.

Highlights

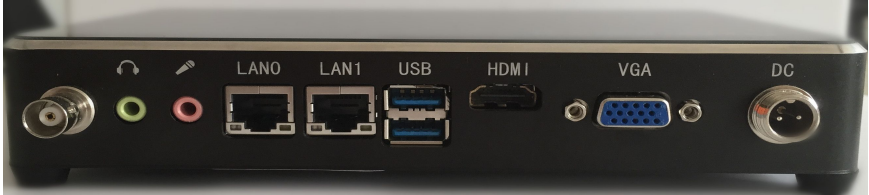
- ✓ Two version: version with touch screen and no screen.
- ✓ Single channel HDMI or HD-SDI per chassis.
- ✓ Creates simultaneous High, Medium, and Low bitrate streams.
- ✓ Optimized for 500 Kbps for 480i/576i, 1.5 Mbps for HD 720p, 2.5 Mbps for HD 1080i and 3.5 Mbps for HD 1080p.
- ✓ external +12V power source, easy to carry and suitable for bussiness trip.
- ✓ Multiple output streams per input service to support Broadcast, VOD, IPTV and

- OTT, mobile/ web, Set top box applications
- ✓ HD MPEG4/H.264 to any resolution encoding
- ✓ Multiple Codec, Protocol, Bitrate, Resolution, Profile per channel.
- ✓ GbE IP outputs – UDP, RTSP, RTMP, HTTP, HTTP Live Smooth(HLS), FTP
- ✓ M3u8 playlist files
- ✓ Audio support: AAC, MPEG, MP3, AMR or Dolby Digital AC-3 passthrough
- ✓ High quality pre-processing including filtering, Deinterlacing, cross scaling, image insertion
- ✓ Based on embedded ubuntu Linux
- ✓ Selectable any resolution from QSIF to 1080P
- ✓ Easy-to-Use System Management via web
- ✓ Real time and lower delay IP network video transmission: <800ms
- ✓ Support words and icons dynamic stacking, output with pictures stacked, and no signal automatically shimed function.

Main Application

- Digital broadcast and Multi-screen headend
- IPTV, Over-the-air TV distance learning
- Mobile, Broadcast, Internet TV/Web TV
- VOD content encoding
- Global eyes IP video camera transcoding





Technical Specifications

Interfance	
INPUTS	
Baseband input	1x HDMI
	1x HD-SDI
OUTPUTS	
IP Output type	Two Gig Ethernet Ports
Streaming format	Mpeg-2/H.264/H.263/MPEG4 SP/MPEG4 ASP; MPEG-1 Layer II, AAC, AC3, AMR, WM A , MP3 TS Over UDP/RTP/HTTP 3GP Over RTP FLV Over HTTP/RTMP HTTP Live streaming Apple HLS (m3u8)
File Output	

Encoding	3GPP/3GPP2/WMV/FLV/TS			
	File output support timing and capacitive record			
Pre-processing				
Image setting	Video adjustments（Brightness, contrast, Saturation, Hue）			
Frame rate	from 2fps to 60fps			
Aspect ratio	4:3 and 16:9, WSS control			
Image insertion	LOGO insertion			
Subtitle Overlay	Static or roll subtitle,up to 3 way (optional)			
PID Configuration	Depending on the configuration, it forwards selected programs via IP datacasting; PAT, PMT, video PID, audio PID(s) and PCR information are transmitted.			
Video encoding				
Bitrate mode	VBR,CBR			
Resolutions	80x64 •176x120•128x96 (4:3)• 176x128•144x80•176x144 144x140•220x176 •160x90 (16:9) •240x176•320x240 352x288•400x300•480x360 •720x576 • 854x480(16:9) 1280x720p • 1920x1080p			
Max channels per RU	Singal Input	H.264 Out	Channels	Notes
	HDMI HD-SDI	SD in 1.5Mbps	Up to 4 streams	Those information as reference ,For details contact us
		720p in 2Mbps	Up to 2 streams	
		1080p,720p,480p	Up to 3 streams	
		1280x720,960x540 640x360,480x270	Up to 4 streams	
	Up to multiple concurrent(1xFull HD,1xHD, 1xSD) outputs per one stream input			
Video codec	H.263 Profile0, Levels 10,20,30 MPEG-4 SP, Levels 0,0b, 1,2,3 H.264 Baseline Levels 1,1b,2,3; H.264 Main Profile/High Profile 3.0- 5.1 MPEG-2 MP@ML 4:2:0			
GOP Size	I-Frame Time Interval; B-Frame Number; Reference Frame			
Video Bitrate	32kbps to 6Mbps			
Enhancement filter	Deinterlacing; MABFF CABAC; Noise reduction; Sharpening; Visual Optimizing			
Audio encoding				
Audio encoding	LC-AAC,HE-AAC and HE-AACv2 (including Parametric Stereo) MPEG-1 Layer, AC3,MP3,AMR			
Sample rate	32khz,44.1khz,48khz			
Data rate	8kbps to 384kbps			
Environment				
Power Supply	+12 VAC			
Power consumption	50W			
Operation temperature	0 -50°C (32 -122°F)			

Storage temperature	-40-70°C (-40-158°F)
Dimensions	147mm×208mm×45mm
Weight	1.1kg

Order information:

Multiscreen SD Encoder	
Caster-T300H	Up to 6,12,18,24x RCA inputs 
Caster-T305H	Up to 4,8x SDI inputs 
Multiscreen HD Encoder	
Caster-T310	Up to 1,2,4x HDMI inputs
Caster-T315	Up to 1,2,4x HD-SDI inputs
Caster-T322	Two ports GigE IP in/ out: up to 25x SD or 10Xhd or 6xFull HD streams out 
Caster-T328	Up to 200+SD,80xHD,48xFull HD streams out 
According to client's requirements.We can offer flexible configuration	

DIBSYS Technologies

DVB Broadcast Headend and IPTV Systems

OFFICE: (+86) 571-89714581

FAX: (+86) 571-89714580

SKYPE: DIBDVB

EMAIL: sales@dibvision.com

support@dibvision.com

service@dibvision.com

WEB: www.dibvision.com

