

# Anystream-R325

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## 6G-SDI/12G-SDI 4K HEVC H.264 IPTV Decoder



**Anystream-R325** is a flexible decoder designed to work with the Anystream Series encoders and H.264/H.265 compliant devices. It is a real time H.264/H.265 HEVC or MPEG-2 decoder that receives IP transport streams and displays streams at up to 4K/60fps resolution/ultra high definition (UHD). Embedded Linux Based, Remotely Manageable, SDI H.264/AVC, H.265/HEVC TS Video and Audio Decoder for Receiving Live Streams with Most Any Protocol or Wrapped IP Input coming from IP Cameras or any make and model of encoder.

**Anystream-R325** is a state-of-the-art hardware IP block developed to enable end products with the next generation HEVC (High Efficiency Video Coding) standards. It supports HTTP Live (HLS), UDP, SRT, RTP, RTSP, HTTP, RTMP Multicast, Unicast IP streaming in both dedicated and shared networks and Converts the H.264/H.265 HEVC MPEG-2 Compressed Digital Video and Audio into Professional Digital SDI Output.

Ideal Decoder for Receiving and Professional Decoding of "Poor" Video from IP Cameras, Remote Sites, Content Delivery Networks (CDNs), or IPTV Compatible Appliances or Players. Uses Proprietary Algorithms to Decode Video from Bursty IP Cameras via our "IP CAM Smoother". It allows rendering of high quality video content to deliver high performance digital user experience, and is suitable for applications such as Video on Demand, converged communication, gaming consoles and proliferating smart CE devices.

### Features

- Supports real time 4K@60fps, 4K@30fps, 1080P, 1080I, 720P, 576I@50fps, 480P@60fps decoding
- Supports both Ultra HD/4K, HD and SD H.264/MPEG-4 AVC, H.265/HEVC or MPEG-2 decoding
- Input: Bursty or smooth IP (H.264, MPEG-2, H.265)
- Output: version I: 1\*12G 2\*6G, 4\*3G SDI; version II: HD-MI (2.0)/6G-SDI
- Security scanned for vulnerabilities
- IP Input protocols: RTMP, HTTP Live Streaming and HLS encrypted function, Pull/Push HTTP/RTSP, HTTPS, RTMP, UDP, SDP, SRT protocol
- Picture-in-picture (PIP) operation supported
- DVB subtitles can be included in transcoded streams (burned-in), offers subtitles with 100% compatibility with all existing devices
- Support 4:2:2 input
- Audio Output: AAC, AACV2, AMR, AC3, EAC3, MP2A, MP3A
- Audio Output: Embedded pass-through
- Remote GUI includes some scheduling
- Can be used to store or time-delay incoming stream with optional storage add-on
- Compatible with external MPEG-DASH packager for OTT delivery (option)
- The preview interface adds color control adjustment (CCATM) function (video output brightness, contrast, saturation, aberration).
- TS parameter configuration: The output stream can be edited to change the program number, program name, supplier (for video output part), easy to identify end device.
- Supports logo insertion and text overlay on outputs
- Designed for 24\*7\*365 uninterrupted working
- Dual hot-swappable power supply optional
- Web management

TECHNICAL SPECIFICATIONS

<b>Input</b>	
IP Input protocols	H.265/HEVC/Mpeg-2/H.264/H.263/ MPEG4 SP/MPEG4, ASP; MPEG-1 Layer II, AAC, AC3, AMR, WMA , MP3 TS Over UDP/RTP/HTTP/HTTPS 3GP Over RTP FLV Over HTTP/RTMP HTTP Live streaming Apple HLS (m3u8) AAC, MPEG-1 Layer II, AC3, optional MP3 IP-multicast, IP-unicast 64x64 VBR, CBR, ABR, NearCBR SPTS (IP streaming) MPEG TS Unicast and Multicast TS/RTP/UDP streaming Adobe Flash / RTMP HTTP Live streaming/HLS encrypted Microsoft Smooth streaming Unicast and multicast/SRT HTTPS
<b>Audio Input</b>	
Type	
Min. Resolution:	
Bit rate mode:	
<b>Output</b>	
<b>12G-SDI Single 4K@60fps version</b>	
Uncompressed digital audio/video:	HD-SDI
Resolution	2160P@ 60, 2160P@ 30, 1080P, 1080I, 720P, 576I, 480I
Decoding level	level 1, level 2, level 3, level 4, level 4.1, level 5.1
More Settings	Field mode, GOP Align, Video Delay, Enhance Delay
TS	PIDs (PMT/Video/Audio), PCR delay (ms), disp interval
<b>6G-SDI Single 4K@30fps version</b>	
Uncompressed digital audio/video:	1*HD-MI output, or HD-SDI
Resolution	2160P@ 30, 1080P, 1080I, 720P, 576I, 480I
Decoding level	level 1, level 2, level 3, level 4, level 4.1, level 5.1
More Settings	Field mode, GOP Align, Video Delay,

TS	Enhance Delay PIDs (PMT/Video/Audio), PCR delay (ms), disp interval
<b>Video decoding</b>	
Picture aspect ratio	Smart de-interlacing
decoding Format	Picture resizing
Bit Depth	Logo/graphics overlays
Video Bitrate	Crawling text
Frame Rates	4:3, 16:9, 1:1, automatic mode
	H.265/HEVC Main and Main-10
	H.264/AVC BL/MP/HP up to level 5.2
	8/10-bit
	100k~30Mbps
	Adjust 5-60fps
	Automatic detection of Scene Switching
	GOP adjustable
Number of channels:	1*12G, 2*6G, 4*3G (3840x2160p UHD 4K@HEVC)
<b>Pre-processing</b>	
Image setting	Video adjustments (Brightness, contrast, Saturation, Hue)
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.
GOP	GOP adjustable, B frame adjustable
<b>Audio encoding</b>	
Bitrate	8kbps~448kbps
Encoding Format	LC-AAC, HE-AAC and HE-AAC v2; MPEG-1 Layer, AC3, MP3 EAC3
sampling rate	8KHZ~48KHZ Adjustable
<b>Environment</b>	
Power Supply	AC100 ~ 240V
Power Consumption	500W
Dimensions	437mm (W) x 754mm (L) x 43mm (H)
Net weight	12kg