



Kiloview Cradle Series

1RU/3RU Rackmount Codec

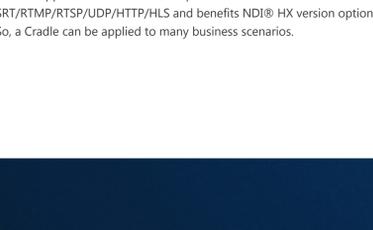
A Free Mixture of 4/16/32 Channel

The Kiloview Cradle Series include 1RU or 3RU rack-mounted frame, freely mixed with 4 channels (1RU), 16 channels/32 channels (3RU) codec modules. It comes with redundant power modules, centralized heat dissipation, ensuring longtime stable operation, and benefits your IP video deployments of any size and complexity.

High Density

You may need to use multiple devices in a workflow, and sources may change over time or from day-to-day. With Cradle, you can design 4 encoder and decoder modules in a 1RU chassis, 16x or even 32x in a 3RU chassis to make them work perfectly in your environment.

All inserted encoding and decoding module support SDI/HDMI+3.5mm audio, and the decoding module supports HD or 4K video output.



4 encoding decoding modules in 1RU chassis



16 encoding decoding modules in 3RU chassis

High Flexibility

SDI? HDMI? All in, all out

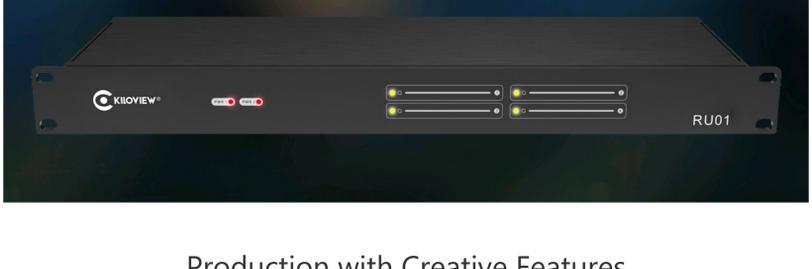
No matter what video sources you have, SDI or HDMI, the Cradle is your ideal choice. 1RU/3RU is compatible with SDI and HDMI of both input and output; freely insert encoding and decoding modules in a chassis.

Cradle supports the most IP media protocols like SRT/RTMP/RTSP/UDP/HTTP/HLS and benefits NDI® HX version optional. So, a Cradle can be applied to many business scenarios.



High Reliability

Cradle is equipped with redundant power as standard, effectively preventing power failure. At the same time, dual cooling fans give Cradle Intelligent temperature control for automatic heat dissipation, ensuring stable and 24h continuous operating. For convenient use, Cradle offers power indicator light and operation indicator light to monitor working status.



Numerous Protocols Covered

All codec modules support SRT, RTMP, RTSP, UDP, HTTP, HLS and other protocols, and you can also choose to customize NDI® HX function.



Easy to use

Cradle adopts a plug-in card structure to make sure card installation and replacement as easy as possible. You are free to mix and insert encoding and decoding modules with flexible application and replacement.

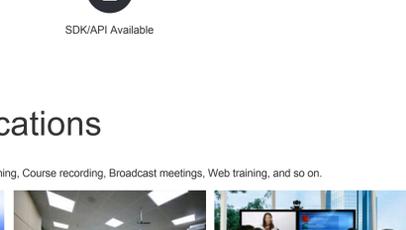


Production with Creative Features

Cradle Series support 3.5mm audio input, H.264 encoding, image and text overlay, video cropping, NAS network storage and other professional functions.



SDI Encoding Module: 3G-SDI Input/Loop



HDMI Encoding Module: HDMI Input/Loop

Decoding with HD/4K Output



H.264 HD Decoding Module: 3G-SDI + DVI Dual Output, 3.5mm Independent Audio, with RTMP Service



H.265/H.264 4K Decoding Module: 3G-SDI + 4K HDMI Dual Output, Splitting Display, with RTMP Service

Streaming with Multiple Protocols

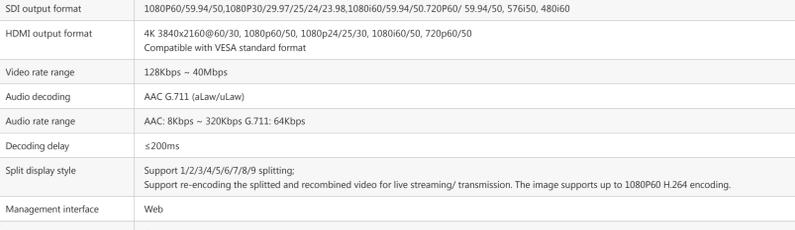


Media Gateway Module: Easily bridges most IP protocols, multi-channel video decoding between NDI HX, SRT, RTMP, RTSP, TS-UDP, and HLS

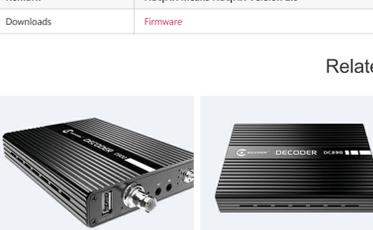
- NDI® SRT
- Dual Power
- Mixed Modules
- Video Intercom
- Portrait Live
- Image Text Overlay
- Analog Audio
- 7*24h Operation
- Multi-platform Live
- SDK/API Available

Applications

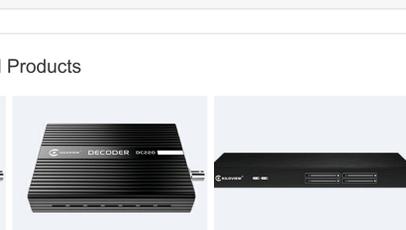
TV programming, Lecture capture, Online courses, Distance learning, Course recording, Broadcast meetings, Web training, and so on.



Parameters (Encoding Module)



RE-1 Encoding Module



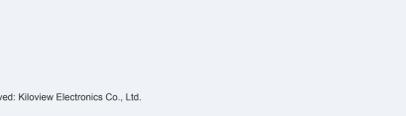
RE-2 Encoding Module

Model	RE-1	RE-2	REN-1 (NDI)	REN-2 (NDI)
Video Interface	1*BNC SDI	1*HDMI	1*BNC SDI	1*HDMI
Video Loop	1*BNC SDI	1*HDMI	1*BNC SDI	1*HDMI
NDI HX	/	/	NDI HX 1.0 and 2.0	/
Video Encoding Algorithm	H264/AVC, Motion-JPEG			
Audio Interface	1*3.5mm			
Audio Encoding Algorithm	AAC/G.711			
Transmission	Ethernet			
Image/Text Overlay	Custom defined text and picture overlay supported, which can be set to any position on the screen			
Video Rotate/Crop	Supported			
Resolution	Up to 1080P60Hz			
Protocols Supported	SRT/RTMP/RTMPS/HLS/TS over UDP/RTSP/Onvif			
Management Portal	Web			

Parameters (Decoding Module)



RD-230 Decoding Module



RD-300 Decoding Module

Model	RD-230	RD-300
Network	1 * 100M/1000M RJ-45	2 * 100M/1000M RJ-45
Video Output	3G-SDI+DVI Dual Output, with Different Content	3G-SDI+HDMI Dual Output, with Different Content
Video Encoding Algorithm	H.264	
Decoding Capacity	Up to 4 Channels Decoding (4*1080P30 or 2 * 1080P60 and below)	Up to 9 Channels Decoding (9*1080P30 or 8*1080P60)
Protocols Supported	SRT/RTMP/RTMPS/RTMPServer/HLS/TS over UDP/RTSP	NDI HX2.0/SRT/RTMP/RTMPS/RTMPServer/HLS/TS over UDP/RTSP
Audio Decoding Algorithm	AAC/G.711	
Audio Output	SDI/HDMI Embedded, or 3.5mm Analog Output	
Video Preview	Supported	
Image/Text Overlay	Supported	
Management Portal	Web	

Parameters (Media Gateway Module)

RMG-300 Media Gateway Module

Model	RMG300
Network	2*100M/1000M RJ45 adaptive Ethernet
Decoding output	1*SD/HDMI/3G-SDI, up to 1080P 60Hz 1*HDMI, up to 3840*2160@60Hz
Analog audio output	1*3.5mm Line out
Analog audio input	1*3.5mm Line in
USB	1*USB 3.0 Type-A
Access protocol	NDI HX/SRT/RTSP/RTMP/TS-UDP/HTTP, (NDI HX means NDI HX Version 2.0. SIP/ONVIF (customize)
Output protocol	NDI HX 2.0/SRT/RTSP/RTMP/TS-UDP
Protocol conversion	9 channels 1080P video conversion
Streaming distribution	50 channels of RTSP, 36 channels of RTMP/SRT (Not more than 800Mbps)
Live streaming	9 channels*4 channel 1080P
Number of decoding	4K 30Hz H.264/H.265, up to 4 simultaneous channels 1080P 50Hz/60Hz H.264/H.265, up to 8 simultaneous channels 1080P 30, 1080i 50/60Hz, 720P and below H.264/H.265 up to 9 channels simultaneously
Video decoding standard	H.264, H.265
SDI output format	1080P60/59.94/50, 1080P30/29.97/25/24/23.98, 1080i60/59.94/50, 720P60/59.94/50, 576i50, 480i60
HDMI output format	4K 3840x2160@60/30, 1080p60/50, 1080p24/25/30, 1080i60/50, 720p60/50 Compatible with VESA standard format
Video rate range	128Kbps - 40Mbps
Audio decoding	AAC G.711 (aLaw/uLaw)
Audio rate range	AAC: 8Kbps - 320Kbps G.711: 64Kbps
Decoding delay	≤200ms
Split display style	Support 1/2/3/4/5/6/7/8/9 splitting; Support re-encoding the splitted and recombined video for live streaming/ transmission. The image supports up to 1080P60 H.264 encoding.
Management interface	Web
Remote management	Support
Remote firmware upgrade	Support
Operating temperature	-25 - 60°C
Dimension & weight	140*105*28mm (5.5" * 4.1" * 1.1"/380g/13.4oz)
Power consumption	≤6W
Power supply	12V/1A
Remark	NDI HX means NDI HX Version 2.0
Downloads	Firmware

Related Products

D300 4K Decoder 4K Resolution, up to 9 Channels	DC230 Decoder 4 Video Channels, SDI + DVI out	DC220 Decoder SDI+DVI Dual Output, 1080P60	Rackmount Codec 4/8/16 Channels, Dual Power
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Quick Comparison of our Decoders

Product Type	Product Model	Output Interface	Resolution	Decoding Performance
H.265 4K Video Decoder	D300	3G-SDI + HDMI	SDI: up to 1080P60Hz; HDMI: up to 4KP60;	Up to 9 Video Streams Simultaneously Decoding, 1/2/3/4/5/6/7/8/9 Splitting Screen and Dynamic Switching Supported
H.264 HD Video Decoder	DC230	3G-SDI + DVI-I (Compatible with HDMI/VGA)	SDI/HDMI: up to 1080P60Hz; VGA: UXGA Supported;	Up to 4 Video Streams Simultaneously Decoding, 1/2/3/4 Splitting Screen and Dynamic Switching Supported
	DC220	3G-SDI + DVI-I (Compatible with HDMI/VGA)	SDI/HDMI: up to 1080P60Hz; VGA: UXGA Supported; 1920x1080 not supported;	
	1RU-3RU	3G-SDI + HDMI	Encoding Modules: SDI/HDMI/NDI HX input Decoding Modules: H.265/H.264 Video Decoding, 3G-SDI+4K HDMI Dual-Port Output	A Free Mixture of 4/8/16 Channels, Dual-Power Design

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