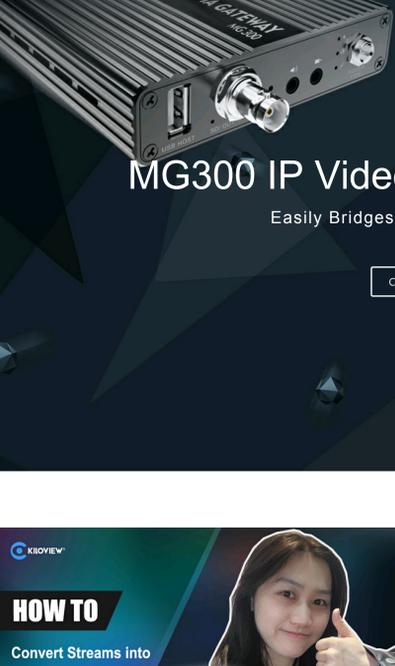


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MG300 IP Video Media Gateway

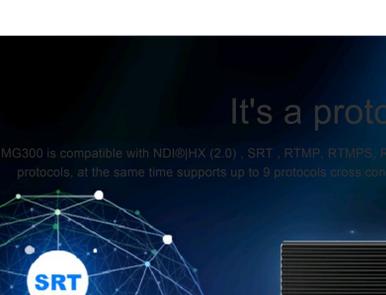
Easily Bridges Most IP Protocols

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HOW TO

Convert Streams into NDI@HX With MG300



Brief Introduction

Kiloview MG300 media gateway is a high-performance embedded multi-functional device. It integrates functions such as multi-channel video decoding between NDI@HX, SRT, RTMP, RTSP, TS-UDP, and HLS to SDI and HDMI. It can do so with the same or different content, multi-view output and streaming, video image segmentation, protocol cross conversion, stream media and distribution services.

It's a protocol converter

MG300 is compatible with NDI@HX (2.0), SRT, RTMP, RTSP, TS-UDP, and HLS, etc. It supports the decoding with all those different protocols, at the same time supports up to 9 protocols cross conversion. Each input stream is converted into 4 same or different protocols output.




Powerful IP Stream Function

Multi-channel video streams can be re-published as a Multiview video source with free layout;

Up to 9 channels of IP streaming distribution (including the Multiview video source) and each stream can be pushed to up to 4 same or different targets simultaneously.

It's a Media Server

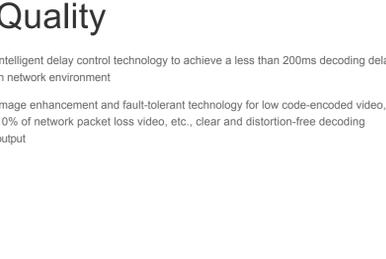
Supports up to 20 concurrent access for stream distribution live streaming.

(Note: The actual concurrent access capability depends on the specific network bandwidth, video format and other factors. The device transmission limit is 600Mbps.)



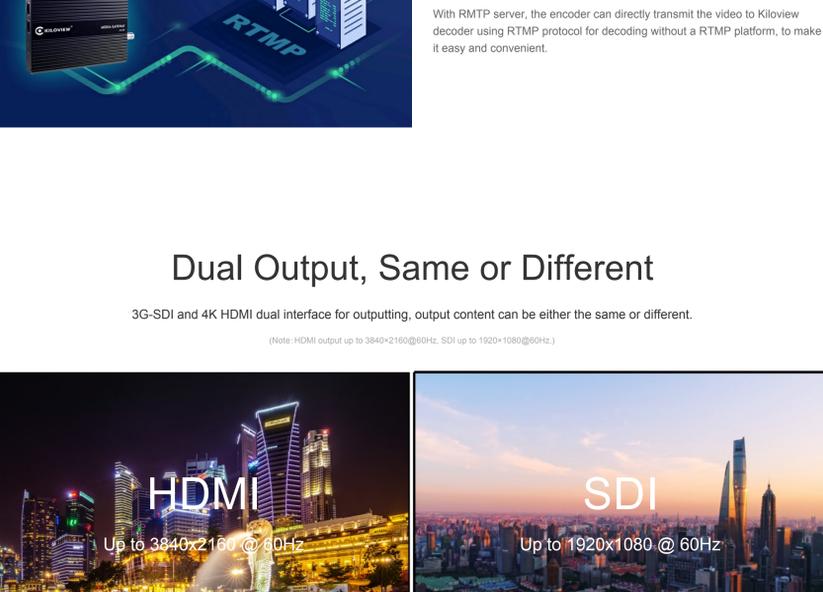
It's a Transcoder

Kiloview MG300 highlights video transcoding between H.264 and H.265. It can also combine multiple video streams into a merged video and push it to the live broadcast platforms.




It's Also a Decoder

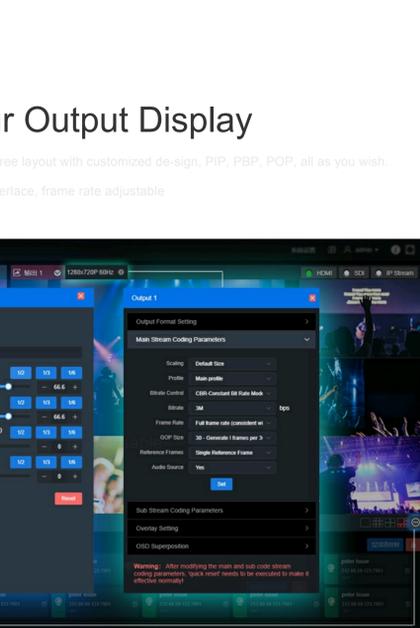
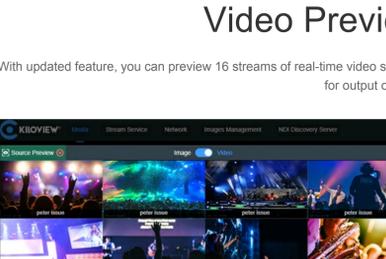
It supports decoding up to 4K H.264/H.265 IP streams and decode the streams to output 3G-SDI and 4K HDMI. It supports decoding up to 9 channels of videos simultaneous. Note: 9 channels with 1080P30, or 8 channels of 1080P60, or 4 channels of 4KP30.



Low Latency and High Quality

Intelligent delay control technology to achieve a less than 200ms decoding delay in network environment

Image enhancement and fault-tolerant technology for low code-encoded video, 10% of network packet loss video, etc., clear and distortion-free decoding output

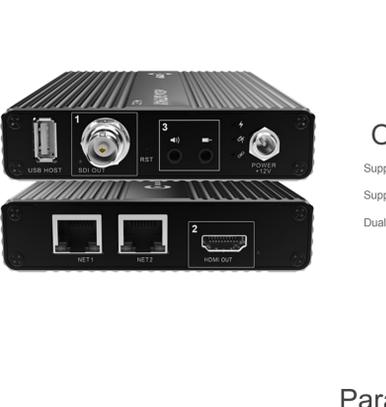
RTMP Server Supported

With RTMP server, the encoder can directly transmit the video to Kiloview decoder using RTMP protocol for decoding without a RTMP platform, to make it easy and convenient.

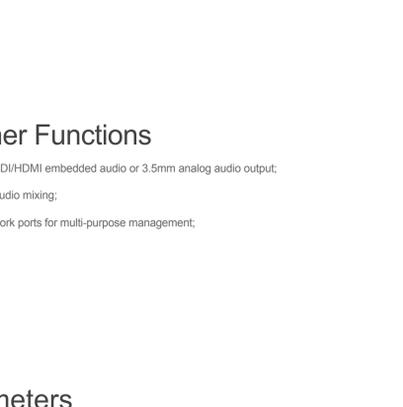
Dual Output, Same or Different

3G-SDI and 4K HDMI dual interface for outputting, output content can be either the same or different.

(Note: HDMI output up to 3840*2160@60Hz, SDI up to 1920*1080@60Hz.)



Up to 3840x2160 @ 60Hz



Up to 1920x1080 @ 60Hz

Customize Your Output Display

Free Layout: The output display can be either in grids or a free layout with customized de-sign, PIP, PBP, POP, all as you wish.

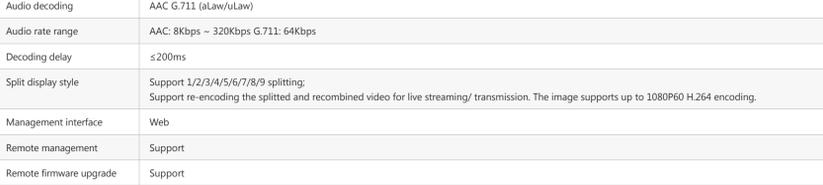
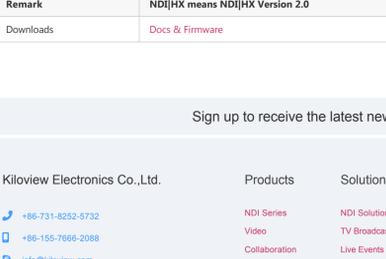
Free Resolution: The output resolution is adjustable, de-interface, frame rate adjustable

Free output background and OSD



Video Previewing Function

With updated feature, you can preview 16 streams of real-time video streams or images on its web page, from which you can choose 9 of the streams for output on displaying screen.

Other Functions

- Support SDI/HDMI embedded audio or 3.5mm analog audio output;
- Support audio mixing;
- Dual network ports for multi-purpose management;

Parameters

Model	MG300
Network	2*100M/1000M RJ45 adaptive Ethernet
Decoding output	1*SDI/HD/3G-SDI, up to 1080P 60Hz 1*HDMI, up to 3840*2160@60Hz
Analog 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	Docs & Firmware

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