D350 4K Multi-functional Decoder

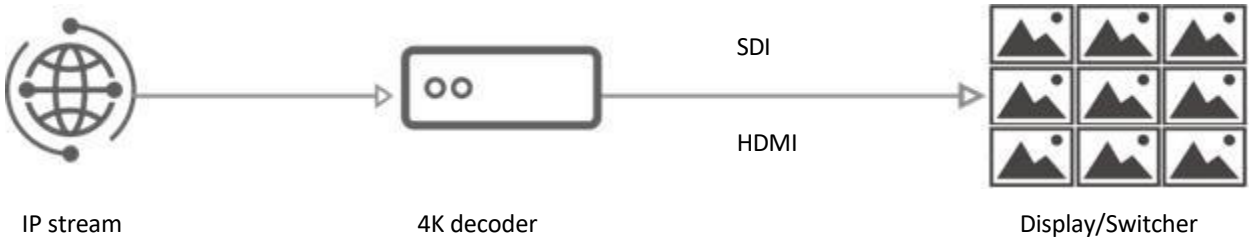
Descriptions

The D350 decoder is a professional hardware decoding device that can simultaneously decode up to 12-ch 1080p60 or 2-ch 4Kp60 and then output them through both 3G-SDI and HDMI interfaces in synchronization. With a built-in LCD screen, users can monitor the IP status and decoding parameters in real-time.

- NDI HB/NDI HX2/NDI HX3
- Adjustable resolution
- Multi-stream switching
- 4K H.265
- Image and text overlay
- 12 channels video split
- Low latency decoding
- API provided
- LCD Display

Application

Simultaneous decoding network streams and split-screen output, network streaming on-screen/into the switcher, SRT video point-to-point transmission, program shooting monitoring, monitoring, video conferencing, audio and video engineering, conference engineering, etc.



Advantages

4k H.265 decoding, up to 12 channels video simultaneous decoding output, split display, dynamic switching

- Supports 4K H.265 (HEVC), H.264 (AVC), and SpeedHQ (NDI High-bandwidth) IP stream decoding.
- Supports simultaneous decoding of up to 12-ch 1080p60, 3-ch 4Kp30, or 2-ch 4Kp60
- Up to 16 channels video decoding and output for 1/2/3/4/6/7/8/9/16 split display, and dynamic switching

SDI and HDMI Three interface output, support image and text overlay output

- Features 1×3G-SDI and 2×4K HDMI outputs; supports independent, combined, or duplication output modes across different ports.
- HDMI output up to 3840×2160@60Hz and SDI up to 1920×1080@60Hz, with adjustable resolution.
- Support SDI and HDMI embedded audio output, or 3.5mm analog audio output
- Support for logo, image and text overlay

LCD Screen Display

- Support users to check the network speed, IP address and output status in real-time display

Full Protocol Support

- Supports NDI HB, NDI HX2/NDI HX3, SRT, RTMP,RTMPS, HLS, TS over UDP, RTP, and RTSP, ensuring full compatibility for diverse workflows.
- SRT: Supports Listener, Caller, and Rendezvous modes.
- RTMP/RTMPS: Supports both Pull and Push (receiving) modes. Features a built-in RTMP Server, allowing video streams to be pushed directly to the decoder for output without an external server.
- HLS/RTSP: Supports HLS and RTSP Pull modes.
- UDP/RTP: Supports TS over UDP (including Multicast) and RTP (RTP/UDP or RTP over RTSP/TCP).

Parameters

Functions & Performance	
Model	D350
Video Decoding Formats	H.264 (AVC): Baseline/Main/High Profile, up to Level 5.2 H.265 (HEVC): Main Profile, up to Level 5.1 SpeedHQ (NDI High-bandwidth)
Video Decoding Capability	H.264/H.265: Up to 12-ch 1080P60, 3-ch 4KP30, or 2-ch 4KP60 simultaneously. NDI High Bandwidth: Up to 4-ch 1080P30, 3-ch 1080P60, or 2-ch 4KP30 simultaneously.
Audio Decoding Formats	AAC/MPEG-4/MPEG2/G.711/Opus/LPCM/NDI, etc. (Software expandable for more formats and channels)
Decoding Latency	NDI HB and NDI HX < 50ms Other protocals : 100~120ms (adjustable)
Streaming Protocols	NDI HB, NDI HX2, NDI HX3, SRT, RTMP, RTMPS, HLS, TS over UDP, RTP, RTSP
Multi-view Layouts	Customizable 1/2/3/4/5/6/7/8/9/16 grid layouts
Voice Intercom	Supported (Integration with Kiloview Intercom Server - KIS)
OSD	Supports background images and overlays for text, images, and logos
General Parameters	
Video Outputs	**2 × HDMI:** 3840×2160p @ 60/59.94/50/30/29.97/25/24/23.98fps 1920×1080p @ 60/59.94/50/30/29.97/25/24/23.98fps 1920×1080i @ 60/59.94/50fps 1280×720p @ 60/59.94/50/30/29.97/25/24/23.98fps **1 × SD/HD/3G-SDI:** 1920×1080p @ 60/59.94/50/30/29.97/25/24/23.98fps 1920×1080i @ 60/59.94/50fps 1280×720p @ 60/59.94/50/30/29.97/25/24/23.98fps
Audio Outputs	HDMI, SDI, and built-in 3.5mm Line Out analog audio interface
Network Interfaces	2 x 10M/100M/1000M RJ45 self-adaptive Ethernet ports (PoE supported)
USB Interfaces	1 × USB Type-A, 1 × USB Type-C

Panel Display & Buttons	0.96" OLED screen and touch buttons
Power Input	12V, 1A
LED Indicators	1 × Power indicator, 1 × Status indicator
Management	Web UI control; remote management via Kiloview KiloLink Server
Firmware Upgrade	Via Web UI or remote upgrade via Kiloview KiloLink Server
Power Consumption	7W (Max)
Dimensions	162.85 × 104.00 × 25.00mm
Weight	340g
Operating Temperature	-20°C ~ 60°C