ND-24-IP · Network Decoder with HD-SDI, HDMI & Component Outputs

The **ND-24-IP** is a low cost professional MPEG-2 and H.264 decoder that is capable of receiving content from off-air, clear QAM, and IP sources. The ND-24-IP is capable of simultaneously outputting video content in SDI, HDMI and component formats. SDI outputs are available in 3G-SDI, HD-SDI, or SD-SDI formats.

The unit can be used as a stand-alone high quality decoder, or used in conjunction with other IP encoders, to provide an end-to-end IP video delivery solution over a managed network.

When the ND-24-IP decoder is used with Drake's PEG encoder (with Zixi option) and a Zixi Link License, it can provide a point-to-point reliable IP video transport from anywhere in the world with an internet connection. The ND-24-IP can also be used in a point-to-multipoint application, where the ND-24-IP would decode the IP based Zixi protocol stream from a Zixi Broadcaster.

FEATURES

- Simultaneous SDI/HDMI/Component HD + Composite SD Outputs
- Decoding content from Off-Air, Clear QAM, and IP sources
- Supports both MPEG-2 and H.264 content
- LCD screen
- Closed Captioning
- VBR or CBR
- IGMPv2 and IGMPv3
- IP Security Camera Decoding (VLC Compatible)

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INPUT

IP Mode

Connectors:	RJ-45
Standard:	100/1000Base-T Ethernet
UDP/RTP:	Supported
Protocols:	IGMPv3/IGMPv2 Supported

Stream Portfolio

SPTS and MPTS:	Null Packet Deletion
Bit Rate:	Variable and Constant

8VSB Mode

Connectors:	1x "F" Female
Standard:	ATSC Digital Television A/53E
Tuning Range:	UHF (Ch.14-69), VHF (Ch.2-13)
Data Rate:	19.392 MHz
Bandwidth:	6 MHz
Power Level:	-20 to +20 dBmV
Impedance:	75 Ω

QAM Mode

Connectors:	1x "F" Female
Standard:	ITU-T J.83; Annex A and B (64 & 256 QAM)
Tuning Range:	CATV Ch. 2-158 (STD, HRC, IRC)
Data Range:	38.8 Mbps (QAM 256); 26.97 Mbps (QAM 64) – Auto Detect
Bandwidth:	6 MHz
Power Level:	-15 to 20 dBmV (@ QAM 256), -20 to 20 dBmV (@ QAM 64)
Impedance:	75 Ω

ALARMS/MONITORING/CONTROL

Local

Monitoring:	Front-panel LCD screen
Control:	Front-panel Navigational Key-pad

Remote

Monitoring/ Control:	GUI-based menu via Web browser (1x RJ45 rear-panel connector; 10/100Base-T)

OUTPUT

3G/HD/SD-SDI

Connectors:	1x BNC
Standards:	SMPTE 424M (3G), SMPTE 292M (HD) & SMPTE 259M (SD)
Video Resolution:	480i, 720p, 1080i, & 1080p
Audio:	Embedded PCM

HDMI

Connectors:	1x HDMI
Video Resolution:	480i, 720p, 1080i, & 1080p
Audio:	Embedded PCM

Composite

Connectors:	1x RCA for Video
Video Resolution:	480i
Audio:	2x RCA for Analog Audio (L,R)

Component

Connectors:	3x RCA for Video (Y, Pb, Pr)
Video Resolution:	480i, 720p, & 1080i
Video Aspect Ratio:	4:3 & 16:9
Audio:	2x RCA for Analog Audio (L,R)

Digital Audio (SPDIF)

Connectors:	1x RCA

GENERAL

Mechanical

Dimensions:	8.69 x 8.0 x 1.97 inches (220.7 x 203 x 50.0 mm)
Unit Weight:	1.87 lbs (0.85 kg)
Unit & Power Transformer Weight:	2.18 lbs (0.99 kg)
Ship Weight:	2.6 lbs (1.18 kg)
Operating Temperature:	32 to 122 °F (0 to 50 °C)
Storage Temperature:	-13 to 158 °F (-25 to 70 °C)
Operating Humidity:	0 to 95% RH @ 35 °C max, non-condensing
Storage Humidity:	0 to 95% RH @ 35 °C max, non-condensing

Power

External Power Supply:	5 VDC @ 2.5 amp