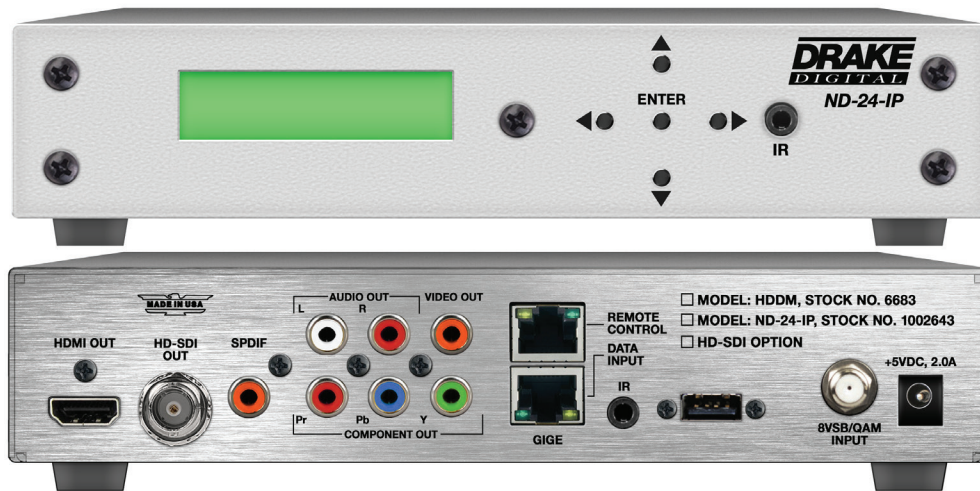


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PRODUCT DESCRIPTION

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 outputting simultaneously 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 (PEG-NE24-IP-CZ), along with 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.

The ND-24-IP features a Liquid Crystal Display (LCD) for front panel setup and easy to use management controls through IR, expansion port or an IP web-based GUI.

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
- Pass-through of dolby encoded embedded audio (Future firmware release)

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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) Expansion Port for RS-232 Control (Requires Opt. Adapter Cable #6671) IR input: 3.5 mm stereo input for external IR remote |

| OUTPUT | |
|------------------------------|--|
| 3G/HD/SD-SDI | |
| Connectors: | 1x BNC |
| Standards: | SMPTE 259M (3G), SMPTE 292 (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) |
| Weight: | 3.0 lbs (1.36 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 | |
| Power: | 5 VDC External Power Supply |
| Dissipation: | 10 W |