

BOLIN



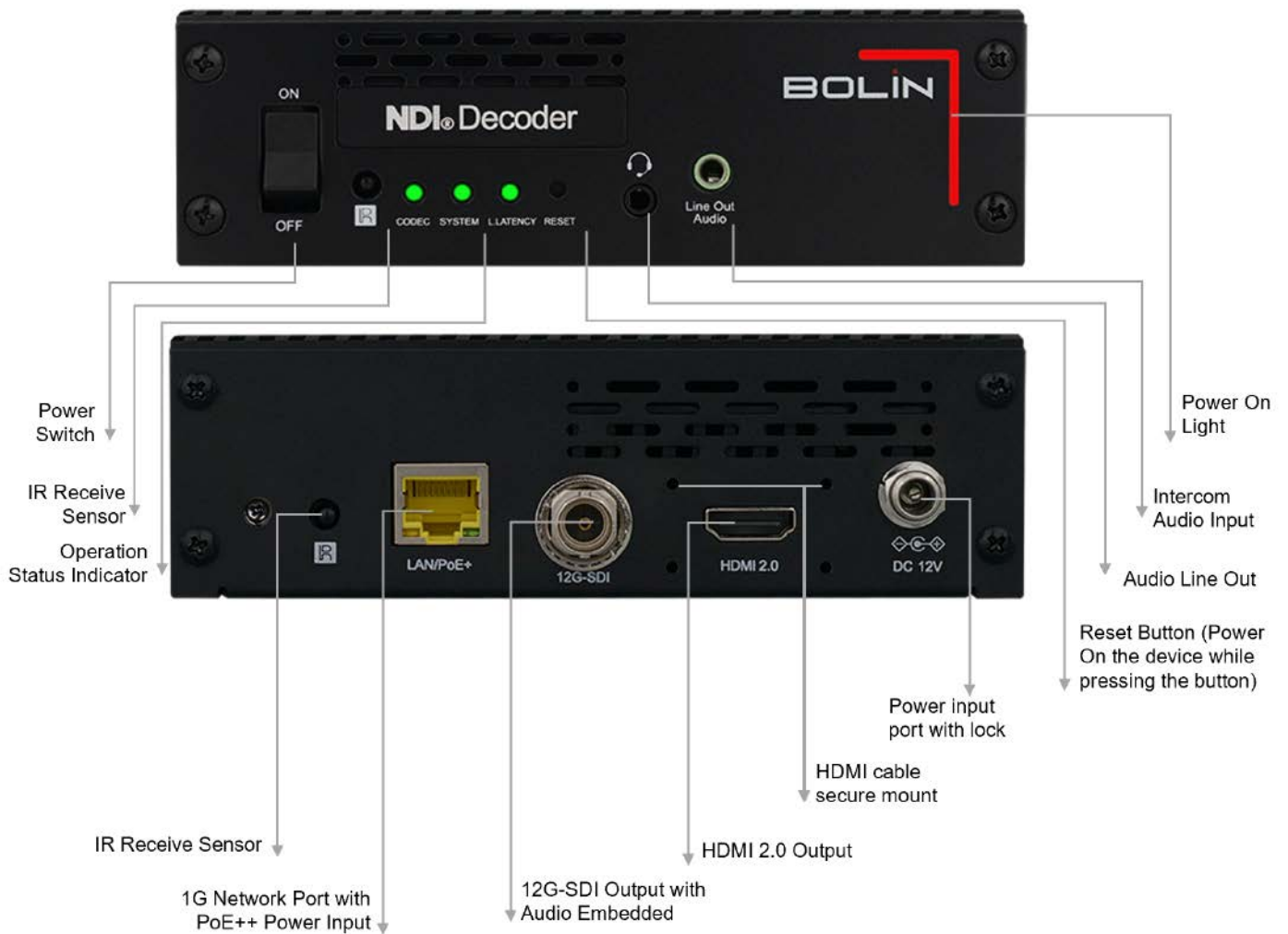
NDI Decoder

Interoperability | Low Latency | High Quality

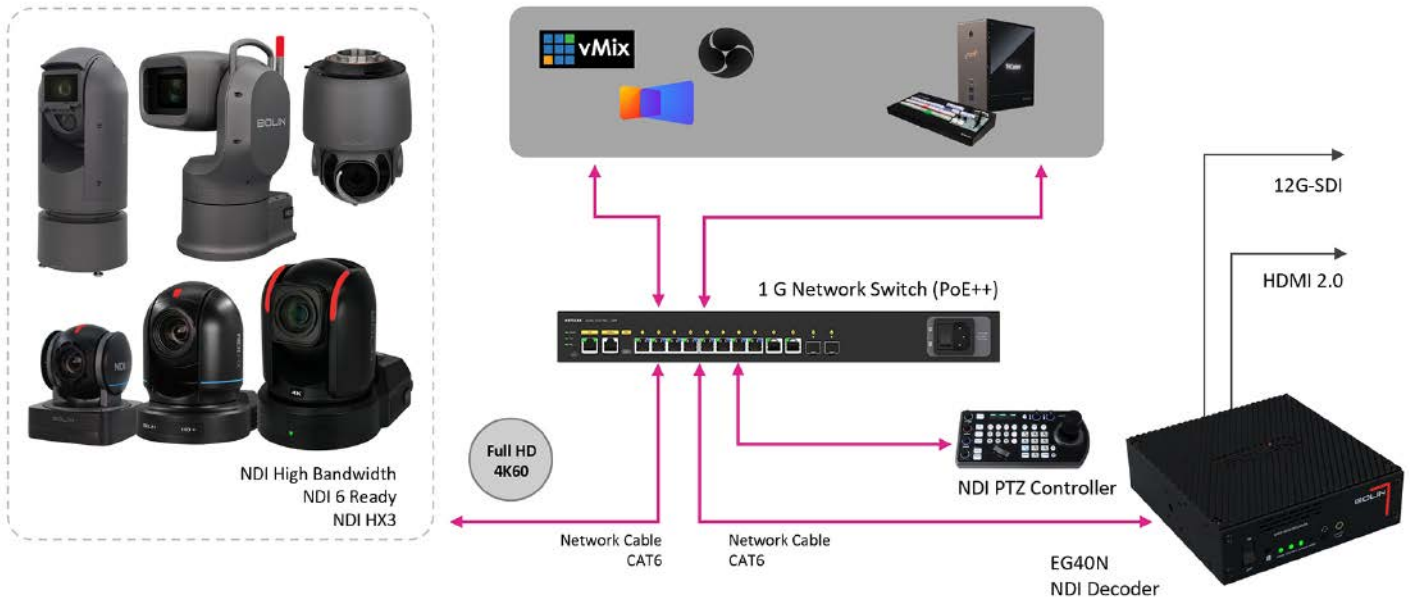


NDI High Bandwidth (NDI 6 Ready), NDI HX3

OUTPUT



EG40N NDI Decoder Workflow



FEATURES

- NDI Decoder
- FPGA base FAST HEVC Codec
- NDI High Bandwidth, NDI 6 ready
- NDI HX3 supported
- Support up to 4K60
- HDMI 2.0 + 12G-SDI video output
- True Dual-Output
- Upscalable from 720P up to 4KP60
- All video with audio embedded
- Audio intercom with frontend device
- On-screen character generator
- All firmware upgrade via IP
- POE+ and 12VDC power input

Video Format and Standard

Full Format

3840 x 2160P 60/59.94/50/30/29.97/25/24/23.98
1920 x 1080P 60/59.94/50/30/29.97/25/24/23.98
1920 x 1080i 60/59.94/50
1280 x 720P 60/59.94/50

SDI Standard

SMPTE 292(1.5Gb/s)
SMPTE 424
SMPTE 425-A(3Gb/s)
SMPTE 2081(6Gb/s)
SMPTE 2082-0/1(12Gb/s) with SMPTE 352 SDI Metadata

Upscalable

Max From 720P Up to 4KP60



SPECIFICATIONS

| | | |
|--|---|---|
| Model No. | | EG40N |
| Decoder (Video Output) | | HDMI & SDI |
| Codec | | |
| Encoder/Decoder | Decoder only | |
| Video Codec | NDI High Bandwidth, NDI 6 ready, NDI HX3, AVC-H.264/HEVC-H.265 | |
| Codec Platform | Hardware FPGA FAST HEVC codec | |
| Video Resolutions | 3840 x 2160P @60/59.94/50/30/29.97/25/24/23.98 1920 x 1080P @60/59.94/50/30/29.97/25/24/23.98 1920 x 1080i @60/59.94/50 1280 x 720P @60/59.94/50/30/29.97/25 | |
| Color Space(HDMI) | 4K60: RGB 8bit, YUV444 8bit, YUV422 12bit, YUV420 8bit/10bit 4K30 & below: RGB 8bit/10bit, YUV444 8bit/10bit, YUV422 12bit | |
| Audio Formats | 3.5mm Jack, analog audio, stereo (unbalanced); Line in/out - audio intercom, Line out - HDMI audio output | |
| Video Streaming | 1 stream | |
| Latency (Results may vary depending on network configuration and management settings) | NDI certified, <100ms | |
| Bandwidth (Results may vary depending on network configuration and management settings) | 4kp60 4:2:2/12bit; 250Mbps 1080p60 4:2:2/12bit; 80-110Mbps | |
| Ecosystem Friendly | NDI Certified, NDI High Bandwidth, NDI 6 ready, NDI HX3 | |
| Video | | |
| Video | Highest Resolution | Up to 4K (3840x2160) |
| | Highest Frame Rate | Up to 60 |
| IP IN | Video Codec | AVC-H.264 / HEVC-H.265 |
| | Video Format | 3840 x 2160P @60/59.94/50/30/29.97/25/24/23.98 1920 x 1080P @120/60/59.94/50/30/29.97/25/24/23.98 1280 x 720P @60/59.94/50/30/29.97/25 |
| | Frame Rates (Hz) | 23.98, 24, 25, 30, 29.97, 50, 59.94, 60 |
| | Application Protocols | RTP, RTSP, MP2TS over UDP, TS over RTP, TS over SRT, HTTP, IGMP v1/v2, DHCP, SSH, 802.1X Authentication |
| | Multi-stream | 1 stream |
| HDMI OUT | Format | HDMI 2.0 |
| | Supported Resolutions | 3840 x 2160P @60/59.94/50/30/29.97/25/24/23.98 1920 x 1080P @60/59.94/50/30/29.97/25/24/23.98 1920 x 1080i @60/59.94/50 1280 x 720P @60/59.94/50/30/29.97/25 |
| | Upscaling | Yes, upscale from 720P up to FHD, and from FHD to 4K60 resolution |
| | Frame Rates (Hz) | 23.98, 24, 25, 29.97, 30, 50, 59.94, 60 |
| | Color Space | 4K60: RGB 8bit, YUV444 8bit, YUV422 12bit, YUV420 8bit/10bit 4K30 & below: RGB 8bit/10bit, YUV444 8bit/10bit, YUV422 12bit |
| SDI OUT | Format | 12G-SDI |
| | Supported Resolutions | 3840 x 2160P @60/59.94/50/30/29.97/25/24/23.98 1920 x 1080P @60/59.94/50/30/29.97/25/24/23.98 1920 x 1080i @60/59.94/50 1280 x 720P @60/59.94/50/30/29.97/25 |
| | Upscaling | Yes, upscale from 720P up to FHD, and from FHD to 4K60 resolution |
| | Frame Rates (Hz) | 23.98, 24, 25, 29.97, 30, 50, 59.97, 60 |
| | Color Space | YUV422 10bit |
| | Standard | SMPTE 292(1.5Gb/s), SMPTE 424, SMPTE 425-A(3Gb/s), SMPTE 2081, SMPTE 2082-0/1 With SMPTE352 SDI Metadata Supported |
| Audio | | |
| Audio Transport Formats | Audio Compression | AAC-LC, MPEG-2 |
| | Audio S/N Ratio | ≥85dB |
| | Audio THD+N | ≤0.05% |
| | Audio Noise (RMS) | ≤-90dB |
| | Bit Depths | AAC-LC, MPEG-2 (sampling rate: 48KHz/44.1KHz, 24bit, 64-256Kbps selectable) |
| Intercom | MIC / Headset | Reserved |
| Output Signal Types | Embedded Audio over HDMI | Stereo 2-channel, Dante AV-H (Audio Flow x 4 Flows / 2 Channels per Flow) |
| | Embedded Audio over SDI | Stereo 2-channel |
| | Format | PCM |
| | Line-out | 3.5mm Jack, analog Line-out |

SPECIFICATIONS

| Communication/Connector | | |
|-------------------------------|--|---|
| Ethernet | Ethernet General | Standard 1Gbps Ethernet |
| | | Auto-switching, auto-negotiating, auto discovery, full/half duplex |
| | ETHERNET with POE | IEEE 802.3at compliant 1000BASE-T Ethernet port IEEE 802.3at Type 3 compliant, PoE+ Class 4 |
| HDMI OUTPUT (Decoder only) | | HDMI 2.0 Type A connector, female; HDMI digital video/audio output |
| SDI OUTPUT | BNC | 75Ω |
| PTZ Camera IR Receiver | | Front and Back, bidirectional |
| LED Indicator | Power | Yes, board powered and active (Bolin Logo corner) |
| | Codec | Yes, video codec active |
| | Low latency | Yes, light up for low latency mode |
| | System | Yes, system status |
| Control | Interface | - |
| | Protocol | Bolin Restful API |
| System Firmware Upgrade | | Upgrade via IP web interface |
| Reset | | Yes, long press for 5 seconds to reset |
| Power | Power Input | 12V DC, 2A |
| | Power butoon | Yes |
| | Connector Type | 5.5mm×2.1mm Male DC Power Plug Connector & Screw Lock Female Panel Socket Mount Adapter |
| Interface | HDMI*1, SDI*1, 12V DC power port*1, Power switch*1, Reset button*1, RJ45*1 (LAN/PoE+), Infrared receiver*2 (front & back), 3.5mm Line in*1 / Line out*2, LED indicator*3 | |
| General | | |
| Power | Power Consumption | 18W |
| | PoE | PoE+, IEEE 802.3at Type 3 class 4 compliant |
| | Power Adaptor | 12V DC, 2A 12V DC IN has priority over Ethernet POE. Ethernet POE will become active a fraction of a second after 12V DC IN is disconnected. |
| Storage Temperature | | -40° to 60° C |
| Operating Temperature | | 0° to 50° C |
| Humidity | | 10% to 90% (non-condensing) |
| Heat Dissipation | | Cooling fan, 3 Level - Automatically adjust the fan speed according to the temperature |
| Acoustic Noise | | NC35 or less, variable with cooling fan speed adjustment |
| Dimension | | 142*150*44mm (LxDxH), 142*150*50.5mm(with feet mats) |
| Net Weight | | 1.05kg (2.31lb) |
| Enclosure | | |
| Chassis | | Metal, black finish, heat dissipation surface, fan cooled; vented front and rear |
| Mounting | Included | HDMI cable secure mount, Base mount |
| | Optional | 19" Single-rack mount, 19" Tri-rack mount, Din rail mount, Surface mount |
| Size of Screw Hole for Tripod | | 1/4" |
| What's Included | | Decoder*1, IR Remote Controller, Power Adapter *1 & Power Cord *3 (US, EU, UK), Thank You Card *1 |

INSTALLATION MOUNT



- Rack Mount
- Base Mount
- Surface Mount
- Pole Mount
- Din Rail Mount
- Tripod Mount

ACCESSORY

Items marked * are optional to purchase



* VCC-RC-2
IR Remote Controller



VCC-P12-2
12VDC 2A Power Adapter



B-BM10
Base Mount Kit



* B-RM23
Tri Rack Mount Kit



* B-RM22
Dual Rack Mount Kit



* B-RM20
Single Rack Mount Kit



* B-DR10
Din Rail Mount Kit



B-SM10
Surface Mount Kit



* BL-PP97
97W POE POWER INJECTOR

ORDER INFORMATION

- EG40N (HDMI 2.0+12G-SDI) Decoder

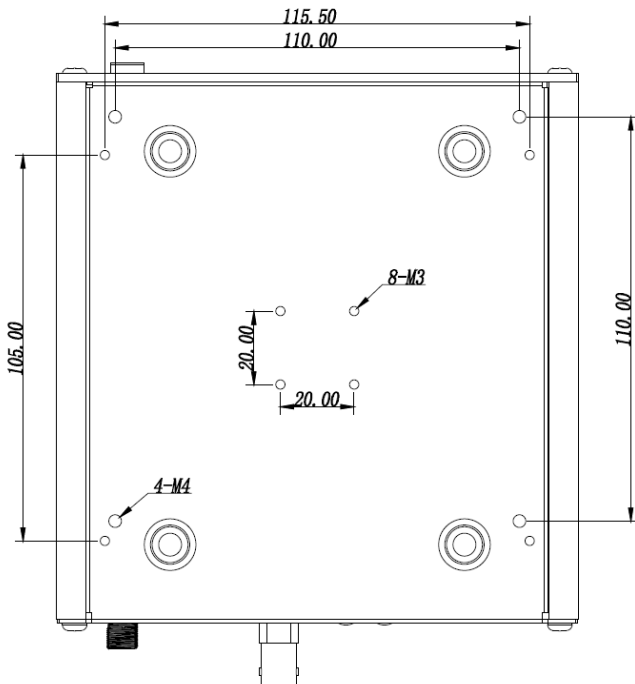
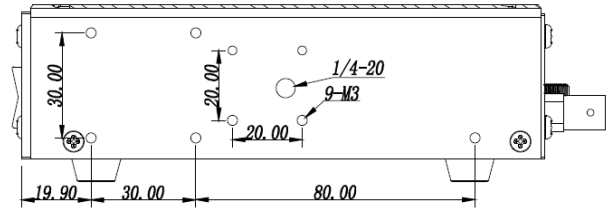
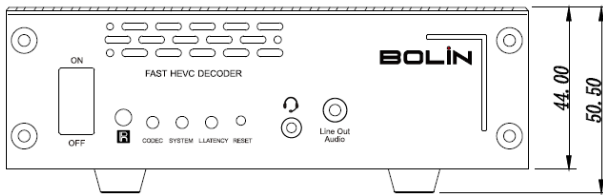
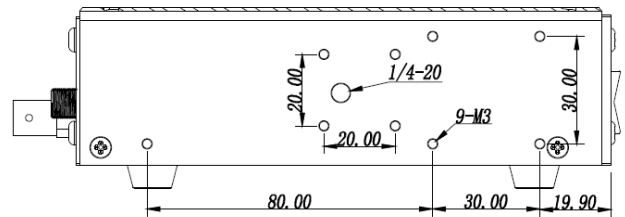
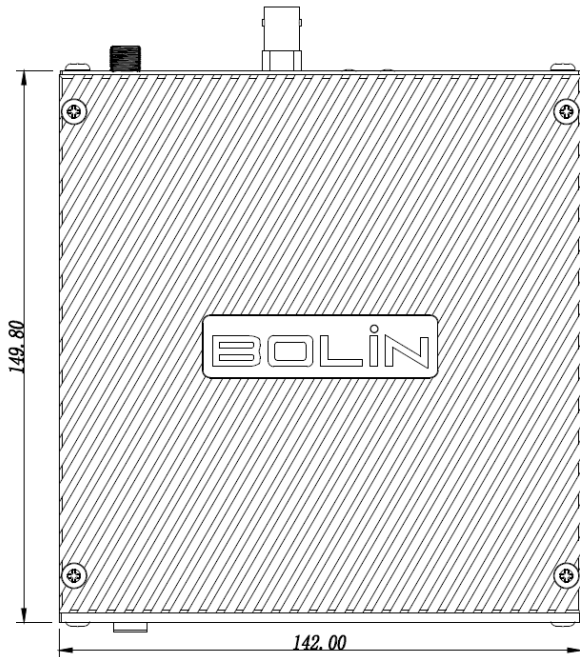
- Included:
- B-BM10 (Base Mount)
 - B-SM10 (Surface Mount)

Optional

- B-RM20 (Single-Rack Mount)
- B-RM22 (Dual-Rack Mount)
- B-RM23 (Tri-Rack Mount)
- B-DR10 (Din Rail Mount)

DIMENSIONS

Unit: mm



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