

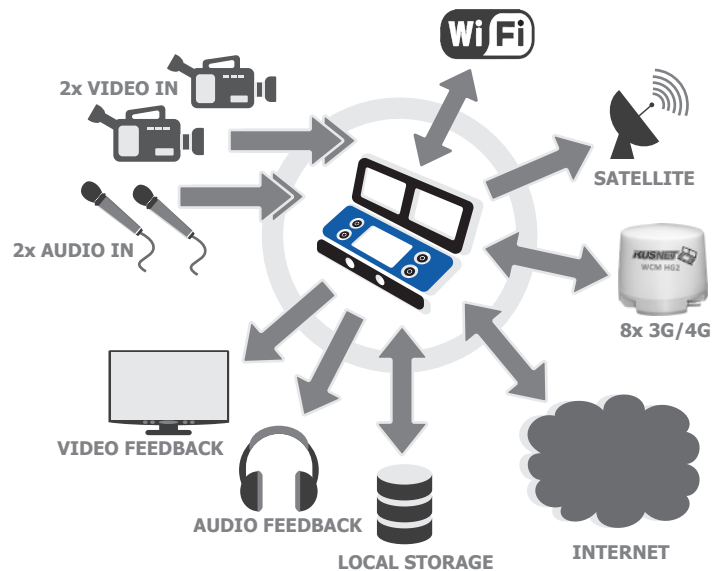
News contribution for Broadcasters Wireless and wired IP and Satellite

Bidirectional Portable Video Codec for Live Broadcast over IP and Satellite

Ikusnet ENG is not only a backpack uplink video encoder. Ikusnet is a highly versatile HD/SD H.264 portable IP video codec that can broadcast live from anywhere, at anytime. Ikusnet ENG is the only portable codec in the market supporting bidirectional live video and audio/talkback streams all in one compact unit, with 2 switchable video inputs (2 cameras) and 2 screens that allow the user to edit recorded files and to monitor inputs, video feedback (cue program) and the quality of locally encoded video.

Ikusnet ENG is able to compress and stream video and audio over satellite (DVB/ASI interface) as well as any standard IP network including 3G, 4G, Wifi, Wimax, BGAN & Ethernet, supporting up to 10 data IP link aggregation with a statistical real-time load-balancing algorithm that assures best possible network utilization, reducing jitter and packet losses.

Prodys experience in optimizing audio and video compression algorithms gives Ikusnet ENG the best quality/compression ratio and makes it the best video codec solution for both narrow and wide bandwidth data links.



Ikusnet ENG Operational Features

- Bidirectional Live video broadcasting+Talkback audio streams over IP and Satellite ✓
- Support multiple 3G/4G/Dual-Ethernet/WiFi link aggregation. Up to 10 IP links ✓
- External wireless communication module with 8 3G/4G modems ✓
- FEC and Error Concealment to mitigate network impairments ✓
- Recording, editing and fast offline FTP uploading via data link aggregation ✓
- Meant for Mobility: custom case and backpack, 12V feed or battery powered ✓
- Remote control of the portable unit from Ikusnet ST codec or ProdysControlPlus ✓
- Auxiliary battery allows hot-swapping of external (V-Mount/Gold Mount) batteries ✓

IKUSNET BP (BackPack): Lightweight Portable Video Uplink Encoder with bonding

Ikusnet BP (BackPack) is a new robust, small and easy to carry unidirectional portable video encoder that is an ideal partner to the new Ikusnet ST Decoder.

Bonding of up to 10 different IP interfaces (2xEthernet, 8x3G/4G, 1xWi-Fi) assures best possible network utilization, reduces delay and secures the connection against packet losses.

Ikusnet BP has been designed to be as easy to use as possible and can be operated either from a detachable touch panel screen connected to the unit by means of a USB cable, or from the web interface. This touch panel allows the user to control and monitor the system whilst still carrying it in its backpack.

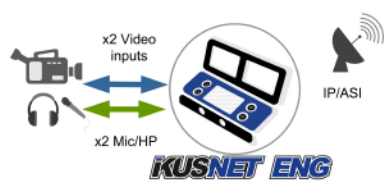
Ikusnet BP can be entirely controlled and monitored remotely via the built-in web server. In addition to this, comprehensive definable presets allow the unit to be setup in advance, so that non-technical users can accomplish live broadcasts quickly and easily. Furthermore, a separate bidirectional IFB/Talkback audio channel allows the reporter to talk to the Studio.

Ikusnet BP Inherits field proven world class IP streaming technology and Video Compression Quality from Ikusnet ENG and Ikusnet ST systems.

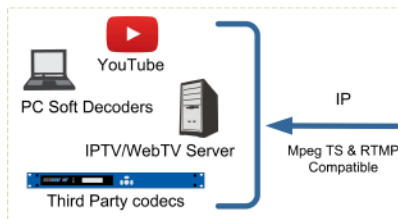


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Wireless and wired IP and Satellite

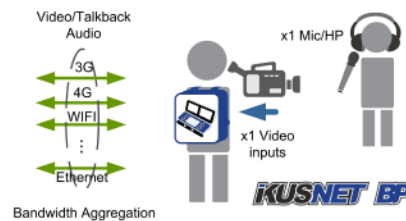
LOW BIT RATE – STILL HIGH QUALITY ASI/IP Bidirectional Satellite Links (BGAN, K-Band)



COMPATIBILITY WITH THIRD PARTY DECODERS and IPTV/WebTV Servers

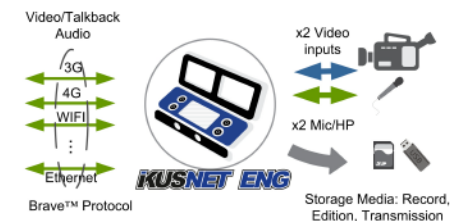


REMOTE CONTRIBUTION for Outdoor Events: VIDEO + AUDIO TALKBACK over IP



BANDWIDTH AGGREGATION

UP to 11 IP interfaces (WIFI, x8 3G/4G, x2 Ethernet)



COMMON FEATURES

- ✓ 2 Fast Ethernet interfaces to split data and control or for bandwidth aggregation
- ✓ Bonding of up to 10 different IP links
- ✓ Auxiliary storage via USB memory stick and Windows compatible file sharing.
- ✓ FEC with interleaving and Active Packet Recovery to recover lost packets
- ✓ Error concealment to reduce the impact of packet losses
- ✓ Bitrate Adaptive Encoding (BRAVE)
- ✓ Up to 4xSDI embedded audio channels
- ✓ Automatic jitter buffer
- ✓ Factory and custom encoding presets for fast operation
- ✓ Bidirectional IFB/Talkback dual audio channel
- ✓ Real time Network Monitoring Tools and statistics
- ✓ Multiple Streaming protocols: BRAVE, MpegTS and RTMP.
- ✓ Integrated Web Browser

IKUSNET ENG FEATURES

- ✓ 2 switchable HD-SDI/SD-SDI/Composite Video Inputs
- ✓ Bidirectional MPEG4 AVC/H.264 SD and HD video compression
- ✓ 2 XLR Mic/Line auxiliary audio inputs to mix with video or talkback audio
- ✓ 2 x headphone 6.35mm jacks for audio monitoring with graphical matrix mixing control.
- ✓ File recording, editing, playing and fast FTP upload via bandwidth aggregation
- ✓ Two foldable video monitor screens
- ✓ SD/HD-SDI video monitor output
- ✓ Video editing via touch panel screen
- ✓ DVB/ASI interface and MPEG-TS compatibility
- ✓ Auxiliary storage via SD memory card

IKUSNET BP FEATURES

- ✓ 1 x HD-SDI/SD-SDI/Composite Video Input
- ✓ Unidirectional MPEG4 AVC/H.264 SD and HD video compression
- ✓ 1 Mic/Line auxiliary 3.5 mm jack audio input to mix with video or talkback
- ✓ 1 x headphone 3.5mm jack connector for audio monitoring with graphical matrix mixing control.
- ✓ File recording, and Fast FTP upload via bandwidth aggregation
- ✓ Detachable touch panel screen for ease of use
- ✓ Smartphone control via Wi-Fi