



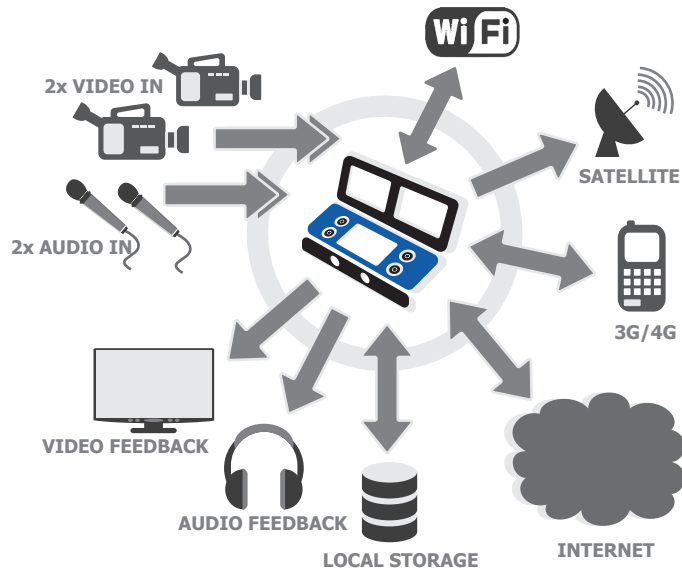
# News contribution for Broadcasters Wireless and wired IP and Satellite

## Bidirectional Portable Video Codec for Live Broadcast over IP and Satellite

Ikusnet 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 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 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 bonding across all IP interfaces 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 the best quality/compression ratio and makes it the best video codec solution for both narrow and wide bandwidth data links.



### Ikusnet Operational Features

- Bidirectional Live video broadcasting+Talkback audio streams over IP and Satellite ✓
- Support multiple 3G / 4G / Dual-Ethernet / WiFi link aggregation. Up to 11 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 ✓



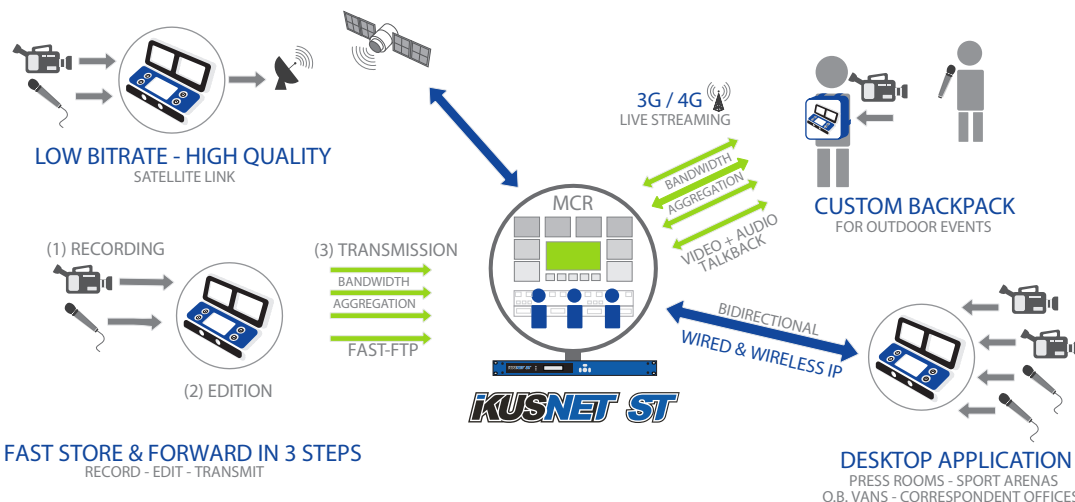
## The Base station companion for Ikusnet news contribution system.

Ikusnet ST is a rack mounting unit that receives audio and video coming from the Ikusnet Portable unit. It supports a separate bidirectional audio stream as a coordination/talkback channel to send and receive voice instructions to and from the field unit, at the same time it is able to send and receive the main video and audio program feed.

Ikusnet ST supports file recording on an optional internal hard disk or an external storage device (USB). Files can be moved between two Ikusnet codecs, ST or Portable, or can be uploaded to an FTP server. When sending files to Ikusnet ST, the portable unit implements bandwidth aggregation using all of the available IP links on the unit to make file transfer much faster and reliable.

Both Ikusnet ST and Portable units, have been designed to be as easy to use as possible and can be operated either from the front panel menu or built-in web interface. Ikusnet Portable can be controlled remotely from the Ikusnet ST web control to which is connected.

Comprehensive definable presets allow the unit to be setup in advance, so that non-technical users can accomplish live broadcasts quickly and easily.



## Ikusnet Technical Features

### GENERAL FEATURES

- ✓ 2 Fast Ethernet interfaces to split data and control for bandwidth aggregation
- ✓ DVB/ASI interface.
- ✓ Auxiliary storage via SD Card, USB or Internal Hard Disk.
- ✓ FEC with interleaving and Active Packet Recovery to recover lost packets
- ✓ Error concealment to reduce the impact of packet losses
- ✓ Bitrate Adaptive Video Encoding for both audio and video
- ✓ Configurable transmission delay to adapt to different network types and performances.
- ✓ Transparent auxiliary data transmission on serial port.
- ✓ Real time Network Monitoring Tools and statistics

### VIDEO FEATURES

- ✓ 2 switchable HD/SD-SDI, HDMI and Composite Video inputs for program
- ✓ MPEG4 AVC/H.264 SD and HD compression
- ✓ External monitor outputs
- ✓ Genlock input on Ikusnet Studio
- ✓ Broadcast BNC connectors
- ✓ Selectable bitrate to optimize transmission quality network conditions
- ✓ Selectable framerates and spatial resolution
- ✓ Factory and custom encoding presets for fast operation

### AUDIO FEATURES

- ✓ 2 x audio inputs for Program and Talkback with internal mixer
- ✓ Embedded audio can be selected for Program/talkback encoding
- ✓ Balanced broadcast XLR connectors
- ✓ AAC encoding from 8 to 384Kbps
- ✓ AAC ELD encoding in the talkback channel
- ✓ VU-meters on screen
- ✓ Dual headphone 6.35 jack connectors for feedback output
- ✓ Flat surface rotary audio level controls for inputs and outputs.



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