

# LIVE VIDEO, AUDIO AND DATA STREAMING



Live video streaming enabling remote operations over satellite connections anywhere in the world with point-to-multipoint, low bandwidth, low latency, secure connections.

Nodestream provides the ability to encode quad HD video and synchronised data over satellite comms and securely decoding the stream conveniently at the clients desired location.

As part of the Infinity suite, the Nodestream compliments the live video streams with the Nodecast audio system and Wearwolf wearable system.



Ultra-low bandwidth including “on the fly” adjustment



Realtime monitoring of bandwidth utilisation and latency



System capable of 60fps at 1080p



Point-to-multipoint technology



## SD Video/Audio Stream over Satellite



Harvest Infinity UDP  
Subsea / Low Turbidity  
128 kb/s




Harvest Infinity UDP  
Surface / High ROC  
512 kb/s



Web Video (e.g. Netflix)  
Surface / High ROC  
1.1 Mb/s



 Nodestream Quad View

or,

 Maximum Bandwidth Single Stream



# PRODUCT SPECIFICATIONS.

## REMOTE FEATURE SET

- SDI, HDMI and composite video inputs
- Serial or IP data capture
- Audio capture
- Extremely simple user interface
- Live input display
- Silent 3U form factor
- On-the-fly option to direct all available bandwidth to a single stream or share between the quad video inputs
- Ultra low bandwidth H265 stream (64 - 2048k )
- SD / HD Options , configurable on-the-fly
- Error corrected video 30% packet loss tolerance

## PRIMARY FEATURE SET

- On-the-fly bandwidth and latency adjustment
- Realtime monitoring of bandwidth utilisation and latency
- System capable of 60fps at 1080p
- Control via Infinity Tablet enables instant redirection of encoded video streams to any decoder on the network
- Quad view – removing the need for downstream multi-viewer equipment
- Extremely robust error correction
- Decoder stream forwarding
- Proprietary protocols
- • Serial input with frame synchronisation;
- • Flexible system with easy to add and remove equipment;
- • Upgradeable hardware and software

## ADDITIONAL TECHNICAL SPECIFICATIONS [ENCODER /

- Linux operating system
- Standard 3U rackmount
- Overall dimensions (mm) - W 483 H 132 D 380
- Maximum weight (kg) - 9.7 / 8.6
- Ports [Encoder] - 4 x HDMI in/Ethernet/USB/ DB9 RS232 Serial/IEC C13 AC
- Ports [Decoder] - 4 x Display port out/ Ethernet/USB/DB9 RS232 Serial/IEC C13 AC
- Power requirements - 100-240VAC, 50-60Hz
- Typical power usage (W) 45 /30 idle / 85 / 70 operational / 350 / 195 max

Harvest Infinity has developed proprietary software algorithms that allow the secure encrypted transfer of data, including high definition video and audio, from offshore or remote locations via satellite at much lower bandwidths than previously possible. This represents a significant technological advancement towards allowing secure high quality, real time voice, video and data transfers from remote locations.