

# MANOVEGA

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| ELECTRONIC NEWS GATHERING | SURVEILLANCE |  
| LIVE VIDEO ON-THE-GO | REMOTE BROADCASTING |



## VIDEO ENGINE

Live HD Video Transport for Professionals

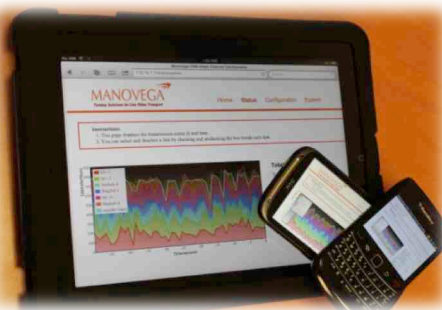
U.S Patent Granted 7,542,456

### PORTABILITY



- ✓ Lightweight
- ✓ Long Battery Life
- ✓ Wi-fi Access to Camera

### EASE-OF-USE



- ✓ One-Push Configuration
- ✓ Intuitive Interface
- ✓ Optimal Settings Detection

### HD QUALITY



- ✓ Stream 1080p HD Video
- ✓ Glass-to-Glass Sub-2s Delay
- ✓ Instant Internet Streaming

STREAMING PRODUCT	
<b>Complete Package</b>	- Total solution includes bonding computer, battery, modems, h.264 encoder, SIMs - Server-side bonding service to enable live streaming within minutes
<b>Web Broadcasting</b>	- Auto-streaming of flash video feed on URL dedicated to user - Viewing on any Internet-enabled device, tablet or smart-phone
<b>Advanced Quality-Control Mechanisms</b>	- Adaptive Bitrate Encoding for adjusting to network conditions in real time - Low-latency and high-latency profiles for complete customization - Recommendation Wizard for detecting and notifying user on the available bandwidth
<b>Wireless Networks</b>	- Detect and combine any available wireless network technologies
<b>Flexibility</b>	- Plug & Play with 3 <sup>rd</sup> party hardware encoders, modems and SIM cards
VIDEO	
<b>Inputs</b>	- HD-SDI, HDMI
<b>Resolutions</b>	- 1080i, 720p, 480i, 320x480, 240
<b>Recording</b>	- Auto-recording of all video streams for access over web
<b>Streaming</b>	- Auto-streaming at pre-specified URL using Flash for web play-out using any web browser
<b>Audio</b>	- Line/Mic in, AAC-LC MPEG Layer 2
<b>Transport Protocols</b>	- RTP, RTSP, UDP
BONDING SOFTWARE	
<b>Cellular Aggregation</b>	- Auto-detection and aggregation of all available 3G/4G network connections - Auto-failover and reincorporation of links when they drop/dial for uninterrupted feed
<b>Network Diagnostics</b>	- View link activity, including detailed statistics like delay and bandwidth - Monitor total available bandwidth
<b>Latency/Quality Optimization Profiles</b>	- Choose between low-latency profiles (<2s) with lower resolution video or higher latency profiles (4s, 10s, 30s) for higher resolution video - Fine tune latency and bitrate according to needs
<b>GUI</b>	- Connect to an intuitive, feature-rich user interface to fine-tune bonding and modify video settings Monitor link statistics using your laptop, smartphone or iPad
BONDING HARDWARE	
<b>Dimensions</b>	- 19 x 13.2 x 6.8 cm, 2.4kg (w/battery) - 19 x 13.2 x 3 cm, 1 kg (without battery)
<b>Modems</b>	- Professional-Grade 3G/4G Huawei modems - SIMs from multiple operators included (SIM-less/modem-less package available) - 8 USB ports (compatible with standard USB modems)
<b>Battery</b>	- Lithium-ion battery with 3+ hours continuous streaming in the field - Additional battery-pack available