



VIDEO SOLUTIONS FOR UNMANNED AERIAL & GROUND VEHICLES

With offerings spanning across Image / Media Processing Components, SDKs, Applications, Hardware Platforms and Turnkey Systems, Ittiam solutions are ideal for **Unmanned Aerial / Ground Vehicles** (UAV/UGV) and **Remotely Piloted / Operated Vehicles** (RPV/ROV). Applications for these solutions include Intelligence Surveillance Reconnaissance (ISR), Situational Awareness, City Surveillance, Cinema, Photography, Industrial Monitoring, Hazardous-Material Monitoring, Traffic Control & Roadside Emergency, Wildlife / Agriculture Research and Cartography.



Server, Recorder Solutions

- a) Size, Weight & Power (SWaP) Optimized
- Hardware Platform(s)** for Servers/Recorders
- b) **Media SDK**
- **High quality video encoding** (H.264, MPEG-2, MJPEG)
 - **HD** (up to 1080p), **Ultra HD video** (2K, 4K)
 - **Low latency video streaming** (<50ms glass to glass)
 - **Multi-format streaming** (RTP, MPEG-2 TS, RTSP)
 - **Multiple file formats** (MP4, MPEG-2 TS, MXF)
 - **Adaptive streaming** (HLS, MPEG-DASH)
 - **Wireless streaming** (2.4/5GHz Wi-Fi)
 - **KLV Metadata** (MISB compliant)
 - **Pre-event / On-demand recording**
 - **High-quality images**
 - **Content security/encryption** (AES, HTTPS)
 - **Cloud upload of recordings**
 - **Control via remote UI**

Client Solutions

- a) High-performance **Hardware Platform(s)** for Embedded Clients
- b) **Android/iOS Apps** for mobile clients (smartphones, tablets)
- c) **Media SDK**
- **HD** (up to 1080p), **Ultra HD video** (2K, 4K)
 - **Low latency video streaming** (<50ms glass to glass)
 - **Multi-format playback** (RTP, MPEG-2 TS, RTSP)
 - **Multiple file formats** (MP4, MPEG-2 TS, MXF)
 - **Adaptive streaming** (HLS, MPEG-DASH)
 - **Wireless streaming** (2.4/5GHz Wi-Fi)
 - **Multi-channel playback**
 - **Picture in/and Picture (PiP/PaP)**
 - **Jitter and packet-loss handling**
 - **Content security/decryption** (AES, HTTPS)
 - **Cloud download of recordings**
 - **Control of playback via UI**

Hardware Platforms

- a) **neonCaster Gen II - Clove**: Off-the-shelf **low-power hardware platform** based on TI Sitara/Jacinto
Ideal for Endurance / Short / Close Range UAV/RPVs (Server, Recorder, Client) and UGV/ROVs (Server, Recorder, Client)
- b) **neonCaster Gen II - NPM**: Off-the-shelf **high-performance hardware platform** based on TI DM816x
Ideal for Endurance / Short Range UAV/RPVs (Client), Close Range UAV/RPVs (Server, Recorder, Client) and UGV/ROVs (Server, Recorder, Client)
- c) **Custom Hardware**: Supporting specific interface and form-factor requirements

Regional contacts: [click here](#)



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