

# RecordPro: DVR Solutions

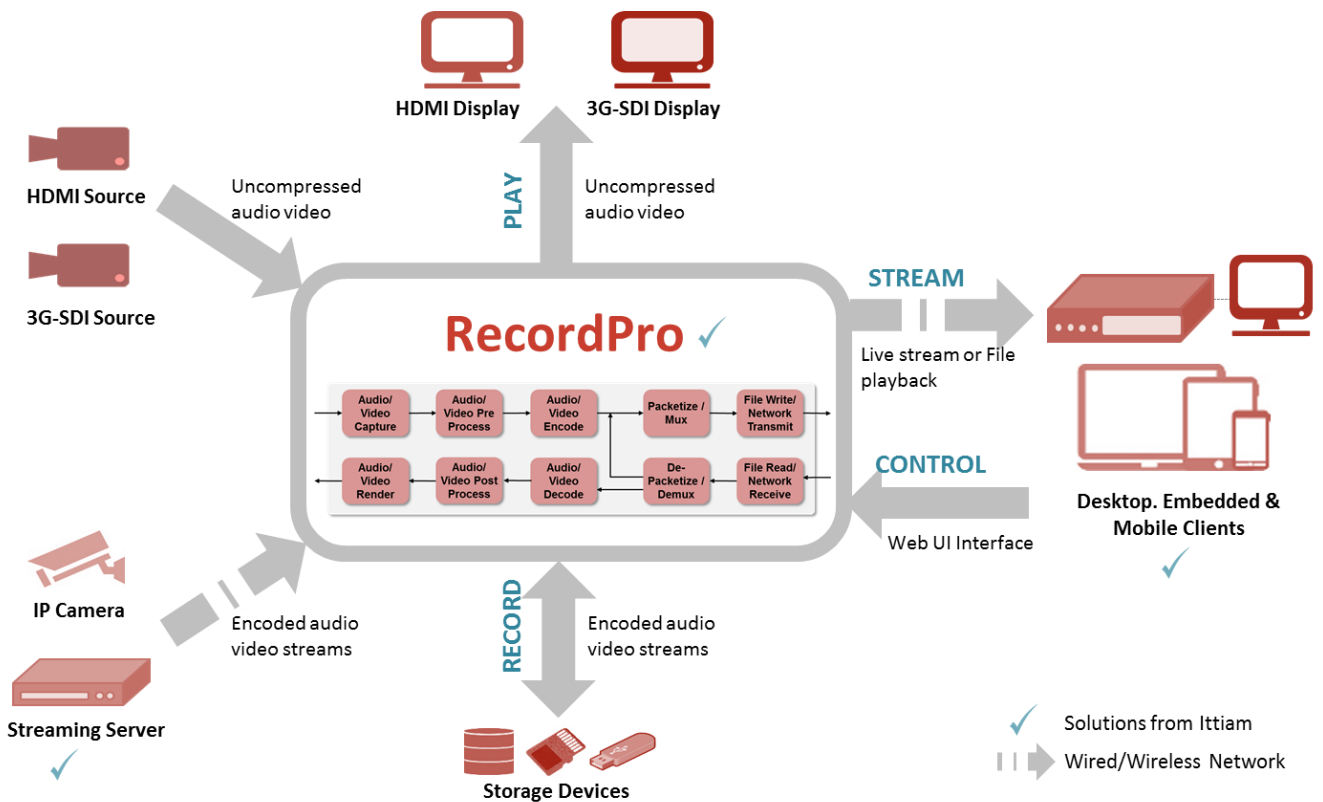
System Solutions, Media SDKs, Hardware, Mobile Apps



**RecordPro** is Ittiam's suite of Digital Video Recording (DVR) solutions that deliver high-performance recording, streaming & playback for video networking applications. RecordPro solutions comprise of **System Solutions**, **Media SDKs** ([adroitSDK](#)), **Hardware Boards** ([neonCaster](#)) and **Mobile Apps**. These solutions deliver standards-compliant encoding/decoding, multi-format recording, playback & streaming. They support 3G-SDI & HDMI® inputs/outputs & recording/playback to/from SATA/USB/SD-Card. Highly optimized, field-proven technologies make RecordPro a perfect fit for **industrial, medical, surveillance, enterprise** and **defense** applications.

## Key Features & Functions

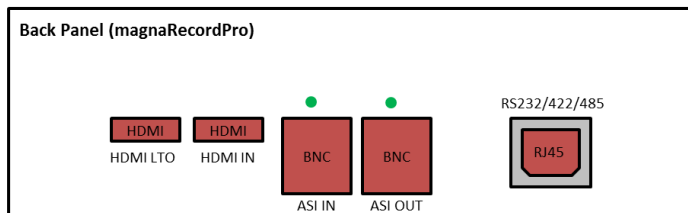
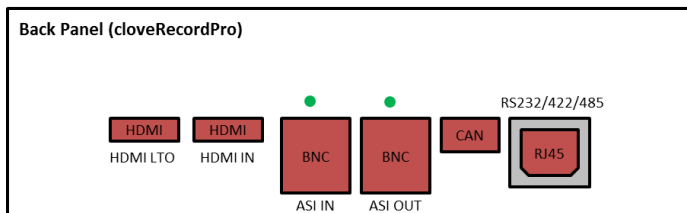
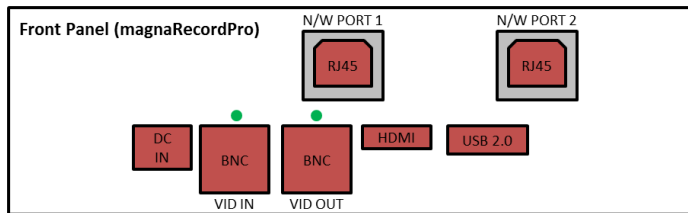
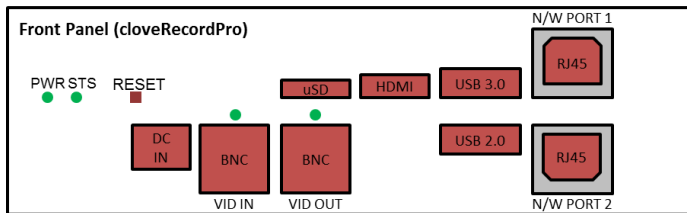
- Simultaneous recording & streaming
- Multiple recordings per input
- Event triggered recording
- Pre-event recording/buffering
- Robust video switching
- Long duration operation
- Secure recording & streaming
- Access control and user authentication
- Search based on input camera, date/time
- Bookmark insertion during playback
- Export recordings to external storage or network
- Ancillary metadata processing/handling
- Adaptive streaming (RTP, HLS, DASH)
- User authentication



## RecordPro System Solutions (Pre-configured Systems)

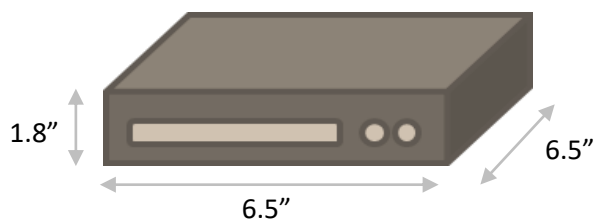
magnaRecordPro Multi-channel Full-HD DVR	cloveRecordPro Low-Power Full-HD DVR	limeRecordPro Intelligent 4K UHD DVR
<ul style="list-style-type: none"> <li>• 3x 1080p60 H.264 Encode/Decode</li> <li>• 12x SD H.264 Encode/Decode</li> <li>• 0°C to +40°C operating temperature</li> <li>• Available off-the-shelf</li> </ul>	<ul style="list-style-type: none"> <li>• 1x 1080p60 H.264 Encode/Decode</li> <li>• ~12 Watts for 1080p60</li> <li>• -20°C to +75°C operating temperature</li> <li>• Available off-the-shelf</li> </ul>	<ul style="list-style-type: none"> <li>• 1x 2160p60 H.264 or H.265(HEVC) Encode/Decode</li> <li>• Intelligent encoding, tagging &amp; search based on machine vision and deep learning</li> <li>• Available off-the-shelf</li> </ul>

# RecordPro: DVR Solutions



RecordPro System Solutions are called **Pre-configured Systems** (neonCaster hardware pre-loaded with DVR system software or adroitSDK).

- Mechanical enclosures can be customized for/by customers based on product requirements.
- Exact dimensions may change accordingly.



## neonCaster Hardware Platforms

Ittiam's [neonCaster](#) hardware platforms are designed to enable high-performance embedded DVR solutions, providing off-the-shelf board/reference-design to customers for building their DVR system.

Magna Hardware neonCaster Gen II	Clove Hardware neonCaster Gen II	Lime Hardware neonCaster Gen III
Multi-channel Full HD Processor Module based on TI's Davinci™ DM816x	Low power, Full-HD Processor Module based on TI's Sitara™ AM57x	Custom high-performance, 4K Ultra-HD Platform based on NVIDIA's Tegra X2/X1

## adroitSDK Media SDKs

Customers looking to implement their own application/UI, modify portions of data-flow or add custom DVR functions can license Ittiam's off-the-shelf [adroitRecordPro Media SDK](#). Optimized middleware object-code, sample application source code, BSP patches and associated documents enable customers to do so in short time. Based on Ittiam's [patented software architecture](#), adroitRecordPro forms the core of several system solutions deployed across the globe by Ittiam's OEM/ODM customers.

### Mobile Apps

- **adroitPlay** Mobile App on Android and iOS
- Browser based Web UI access to RecordPro DVR interface for control/configuration
- Search and on-demand retrieval/playback of recordings from DVR
- Tested for multiple smartphones/tablets

### RecordPro Target Applications

- Intelligence, Reconnaissance, Surveillance (ISR)
- Industrial and Process Monitoring
- Distance/Remote Education
- Automobile DVR for Law Enforcement
- Vision Aided Surgical Procedures and PACS
- Unmanned Aerial/Ground Vehicles (UAV/UGV)

Contact Ittiam sales ([ids-mkt@Ittiam.com](mailto:ids-mkt@Ittiam.com)) for more information

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