



## Evolution HD 3005

Evolution HD 3005 with up to 30 simultaneous video ports

### Overview

The Evolution HD 3005 is a flexible and modular Digital Video Equipment for security applications over Ethernet networks and especially designed for high performance distributed video switching. Its scalability allows for world class high end video security solutions and fulfills any requirement for security applications.

### Ultra High Density

Evolution HD 3005 equipments are accommodating 5 slots for video codec boards whereby each board contains 6 totally independent video channels. Therefore, with up to 30 video ports in a 4U-19" enclosure, the Evolution HD proposes the highest video port density available on the market.

### Industrial design

The Evolution HD 3005 chassis is made of aluminum and galvanized sheet steel and especially designed for professional and industrial environments. This fault tolerant, 4U-19" rack-mounted video encoder provides redundant power supplies, Gigabit Ethernet ports and system hard disks for quality video transmission and switching.

### Codec-independent hardware

Part of the GE Intelligent Video Platform (IVP), the Evolution HD 3005 uses the latest and most powerful H.264/MPEG4-SVC compression available which provides improved video quality, full video codec scalability and multi-resolution. Central to the system is a programmable codec board that accepts extensions and even new, upcoming compression methods with only a simple software upgrade.



### Standard Features

- Industrial 4U-19" rack-mounted enclosure
- Up to 5 slots for video boards (6 totally independent video codec's) and 2 optional modules for integrated serial ports for PTZ camera remote control
- Codec-independent hardware, VisioWave operating system (VOS) and SDK
  - Upgrade to new upcoming compression standards and technologies via software
  - No hardware configuration required
- H.264/MPEG4-SVC (Scalable Video Coding) included
  - Latest compression standard
  - Better image quality than MPEG4-ASP
  - More capabilities than typical H.264 implementations - including full scalability
  - Equivalent multiple streaming from a single stream
  - Reduced bandwidth (15-30%) over MPEG4-ASP
  - Same quality from PTZ as from stationary cameras
- A scalable network surveillance solution
  - Up to 30 independent configurable video ports
  - All ports simultaneously support 25/30 FPS (D1)
  - Simultaneous video content analysis on all ports
- Redundant and hot-swappable power supplies
- Dual Gigabit Ethernet controller chips
- 2 embedded storage hard disks
- SCSI interface for connection to RAID storage equipments
- Optional serial and isolated I/O modules
- Support for Ethernet/IP CoS

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## Specifications

<b>Physical</b>	CompactPCI form factor with aluminum frame and galvanized sheet steel
Dimensions	444 (W) x 175 (H) x 305 (D) mm (4U-19"); Weight: 12kg
Power supply	2 redundant, hot-swappable power supply units (2 x 300W) with automatic selection of power line input range (110V - 230V)
Cooling device	Hot-swappable tray with 3 fans providing forced cooling air in the system
Temperature	Operating: 0°C to 45°C, max. 90% RH; Storage: -20°C to 60°C
Conformity	EMC 89/336/EEC (EN 55022 Class B, EN 55024); Low voltage EMC 72/23/EEC (EN 60950); EMC EN50121-4; FCC: CFR 47, Part 15, Sub part B, Class 1 digital devices; RUL, CUL (Power supply)
<b>System</b>	2 RS232 serial ports for PTZ camera remote control functions Rear I/O module for SCSI and RS-232 PMC slot for optional modules
<b>Networking</b>	Dual Gigabit Ethernet Intel® 82546GB Controller Chips, 10/100/1000 Base-TX with RJ-45 connectors
<b>System monitoring</b>	Autonomous system monitoring module (power, fan speed, temperature, voltage) with independent Ethernet & COM ports Remote alarm notification through SNMP/HTTP, e-mail or pager Alarm module: audible (Buzzer) and visual (LED) notification for system status classified as minor, major or critical Optional CPU monitoring (fan, temperature, watchdog timer, voltage, etc.)
<b>System administration</b>	Web-based remote administration software, password protected Running on the VisioWave Video Operating System (VOS) Requires VOS 4.0 software release or higher
<b>Video Codec Board CPCI-6 AP</b>	6 independent video channels Encoding only Low bandwidth and low latency PAL (720x576 @ 25 FPS); NTSC (720x486 @ 30 FPS) 6 BNC composite video @75 Ohm
<b>Optional</b>	2 slots for embedded storage hard disks

## Ordering Information

Part No.	Description
Evolution HD 3005	Evolution HD 3005 provides up to 30 individually configurable video ports in an industrial fault tolerant chassis (including hot-swappable redundant power supplies and hot-swappable fans) for more challenging mission critical applications.



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