



- For high demands in HD
- Up to 4 cameras
- Integrated solution:  
Camera control, recording,  
image processing
- Interface to EMC test SW
- Audio intercom

## LAN-PECOS INTEGRATED HD CONTROLLER

Integrated observation and automation platform for EMC test environments.

The HDCon6 LAN-PECOS Integrated HD Controller is a dedicated embedded system for synchronized monitoring and documentation of EMC tests. Video, audio and test-related metadata are acquired and recorded on a common time base, ensuring precise correlation of DUT behavior with test conditions.

The system supports HD-SDI, IP (RTSP / ONVIF) and thermal cameras, providing flexibility for different laboratory setups and DUT types. Master/Slave configurations allow centralized monitoring of multiple systems from a single workstation.

Configurable multi-zone detection enables automated monitoring of LEDs, brightness changes, motion, display content or thermal variations. Detection results are visualized in real time using graphical trend displays and can trigger recording, alarms and external reactions, supporting unattended and automated test sequences.

Fast timeline-based playback simplifies analysis. Images and video sequences can be exported in standard formats (PNG / AVI) for documentation and reporting.

A Windows-based remote client provides secure remote access to the controller and supports dual-monitor operation. Project-based configuration allows structured management of cameras, detection settings and recording parameters. User rights and permissions can be configured to control system access and operational roles.

Optional bidirectional integration with EMC test software (SCPI / PECOS XML) enables synchronized metadata logging and automated test control.

## FEATURES:

- Industrial embedded controller with integrated PECOS platform
- Flexible license management for scalable system configuration
- 4-channel HD-SDI frame grabber
- Fibre optic transmission for SDI video and control signals
- Support for IP (RTSP / ONVIF) and thermal cameras
- Integrated SSD (system) and HDD (recording archive)
- Manual, continuous and event-triggered recording
- Playback with timeline-based navigation
- Displaying detected events, logging information and export status
- Real-time graphical visualization of detection results
- Callouts and highlighting of defined zones in live view and playback
- Snapshot and video export (PNG / AVI)
- Metadata overlay and synchronized logging
- Configurable audible alarms for detected events
- Thermal anomaly detection and temperature monitoring
- Gigabit LAN interface
- Front-panel control for SDI cameras
- Full HD 1080p support
- Compact EMC-protected housing: Desktop or Rack version (3 HU)

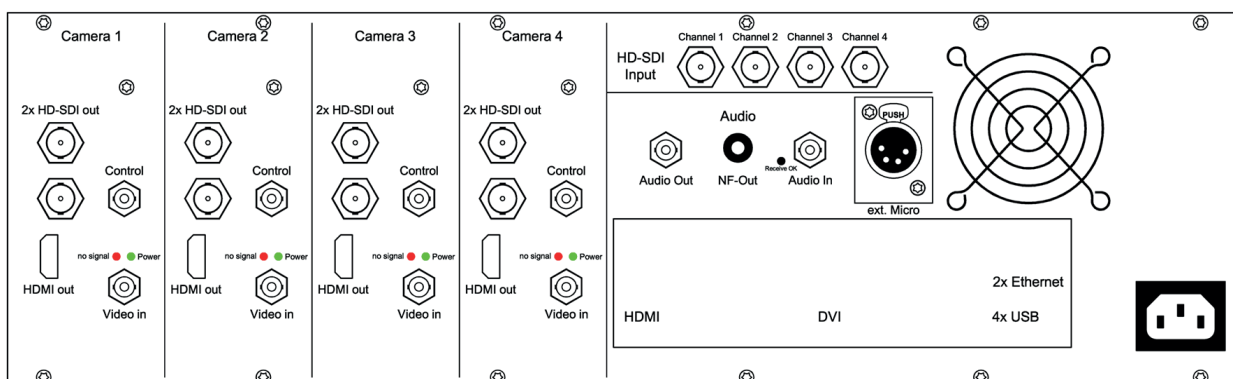
## ACCESSORIES:

### required:

- 1 x HD Camera with Powersupply and Fibre optic cables

### optional:

- Audio integration into Controller
- Monitor: HDMI or DVI
- Interface (software) for communication with EMC Test software
- Event detection (software)



## TECHNICAL DATA

HDCon6 is available in the following variants:

Controller name	Number of video channels	Pecos: Integr. PC	Pecos: Integr. HDD	Pecos: Integr. DVR	Pecos: SW for customized event	Difficult light conditions detection	Number of audio channels (man. ICT)
HDCon6h0n _LAN-Pecos _DVR_ICT	n: 1, 2, 3, 4	1	3 TB	1	1	1	0
HDCon6h0n _LAN-Pecos _DVR_ICT _AUD	n: 1, 2, 3, 4	1	3 TB	1	1	1	1

Power supply	100 V – 240 VAC, 250 W max / 50 / 60 Hz 2A
Videosignal transmission	1310 nm
Control line	850 nm
Fibre Optic cables	50/125µm fibre optic with ST-connectors, duplex
Local interface	LCD + keys for P/T, zoom, focus, ICT/WDR/LTE
LAN	1 GB Ethernet / RJ45 / SW tool "Pecos LAN"
HDD	3 TB storage (built inside)
Frame grabber	4 channel HD-SDI
PC	Industrial grade PC board (built inside)
Audio transmission	850 nm
Audio out / Audio in	Cinch socket / XLR socket for ext. Micro
Monitor connection	Split screen: to „processed PC out“ (HDMI/DVI). Per Camera: to „uncompressed video out“ (HD-SDI, HDMI). (The HD-SDI output provides uncompressed video data with high signal rates (1,5 Gbit/s) according to SMPTE 292M standard. This connector requires 75 Ohm BNC-Cables!)
Temperature:	-10°C to +50°C
Humidity:	20 to 85 %RH
Housing 19"	EMC protective, 3 height units x 450 x 370 mm (HxWxD)

Prices and specifications are subject to change without notice!

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