

The windows can be resized by dragging the corner of the window.

- Control cameras locally or via network
- Live view of multiple cameras
- Recording and replay of videos
- Interface to EMC test software
- Event detection to support automated testing

## Control Software for EMC Cameras

### Live View of Multiple Cameras

For PECOS 5 the code has been highly optimised to provide a sleek and stable performance. The software is designed to handle multiple cameras simultaneously. The number is only limited by the size of the screen.

You can also replay recordings in a window, while the live view of other cameras is shown in other windows. Besides the PTZ commands (pan/tilt, zoom/focus) you can also control the iris and other functions via the control panel.

### Screen Shots and Recordings

With a click you can make a screen shot or start the recording of a camera view.

Both are stored on the internal hard disk and can be accessed via the network for documentation.

Besides the video audio is also stored in the recorded file.

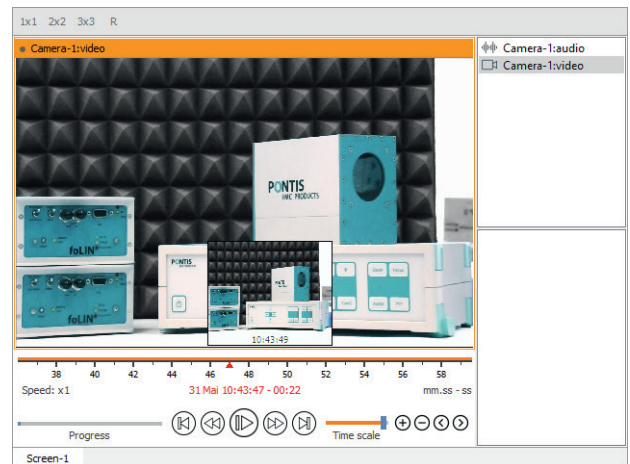
### Manage and Replay Recordings

All stored videos can be managed within PECOS. You can view and search in a video. It can be exported to a network location or to a USB stick. Recordings can be converted to different file formats (H.264, MPEG, Avi etc.).

## Fast Navigation and Preview

When using preview and fast navigation of timeline you can quickly find recorded video.

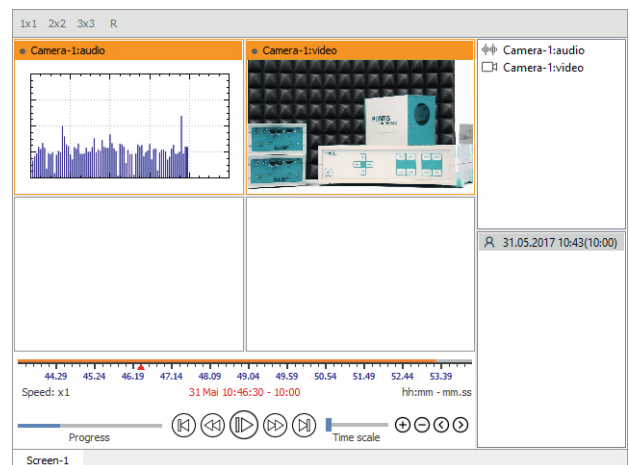
When a stored video is replayed a time line is shown below the video. By placing the cursor on the time lime you can see a small preview and jump to the loca-tion by clicking. This is very convenient for searches in long time recordings.



## Multiple Playback

PECOS supports synchronous playback of recordings of different cameras that were recorded at the same. So you can have simultaneous videos and audio from different views (e.g. inside the vehicle and outside).

Of course also asynchronous playback of different videos or combining live view with recordings is possible.



## Multiple Screens and Monitors

PECOS supports multiple screens with different layouts and also detached monitors, i.e. a second monitor is connected to the PC out of the controller. This is useful to show live view and recordings on different monitors at the same time.

## Configurations and Settings

PECOS provides flexible configuration for many features like screens, layouts etc.

Different sizes of the windows allow to show multiple cameras with the main camera in big window and others in smaller ones.

For security reasons different accounts with different rights (e.g. "replay only") can be assigned to users with different passwords.

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## Interface to EMC Test Software (Optional)

PECOS offers a well designed software interface. Various commands and data can be exchanged via TCP/IP with EMC test software solutions. It is possible to insert text into the picture (e. frequency, level, device name etc.). Recording of a video can be started or snap shots for documentation can be taken.

The interface is well documented and PONTIS will support software suppliers to implement a driver for PECOS.

The documentation is available on request.

For Rohde & Schwarz EMC32 we implemented a custom interface.

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## Event Detection (Optional)

For immunity testing it can be very helpful to automatically detect changes in a certain area of the picture (Region Of Interest – ROI) to detect malfunction of the device under test.

PECOS offers a plug-in with which you can define several areas and the thresholds for the level of the change. In the event of a change above the threshold an alert is created. This alert is also sent out via TCP/IP and a recording is started. It is often very helpful to see what happened before the failure. Therefore PECOS constantly buffers a certain time. When an alert occurs there is already video stored some time before the event. Thus it is possible to see what happened shortly before the event.

Besides the PTZ commands (pan/tilt, zoom/focus) you can also control the iris and other function

The following events can be configured and generate an alert when detected:

- **Motion**

When the picture changes to a certain, definable extend an alert is generated. Similar to usual surveillance cameras

- **Audio**

A frequency range can be defined. If the sound level within that range exceeds a certain level or falls below a certain level it is registered.

Thus a malfunction (above level) or failure (below level, e.g. when a motor stops) can be detected.

- **Colour**

If one colour of a list of defined (recorded) colours (10) is detected or vanishes.

- **Blinking**

If a defined colour in an ROI is going on and off, the time in between is registered and alert is generated.

- **Character recognition (OCR)**

A set of characters (ASCII) can be defined and will be recognized.

- **Numeric Values**

Numeric values in an ROI can be recognized. If the value is above the defined maximum or below the minimum an alert is generated.

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- For high demands in HD
- For max. 4 cameras
- 1080p from sensor to display
- PECOS = HW+SW integrated solution: LAN, DVR, HDD, PC, event detection
- ICT/WDR/LTE (difficult light condition)
- Additional features possible: Audio / interface bidirectional to EMC Test SW

## LAN-PECOS integrated HD Controller

Provides fully digital, uncompressed video and audio transmission for best quality!

Seamless user interface solution. The Audio own PECOS solutions provide HW+SW that is integrated inside the controller: LAN, DVR with proactive recording and administration of files, as well as ICT/WDR/LTE for difficult light conditions (be it a EUT with display, obscurity, dark <=> bright close to each other).

The controller of series HDCon6 allows the local control via frontpanel of a maximum of four HD cameras (zoom, focus, pan, tilt) and of one audio channel. Via PECOS SW Tool the cameras can be fully controlled also via LAN.

Beyond that PONTIS audio satellites can be connected to communicate uni- or bi-directionally.

PECOS also provides a bidirectional interface to EMC Test SW (option). Such data can be shown on screen, recorded as video overlay. PECOS data can be sent back to Test SW to initiate reaction (e.g stop a test). Drivers come from EMC Test SW brands.

Optionally an event detection software can be installed on the HDCon6. This allows to define several regions of interest. Whenever the picture in that region changes recording is started an alert is issued. This facilitates immunity testing.

## Features:

- For PONTIS EMC HD cameras (HDCam6 / HDCam7)
- Fibre optic transmission of video and control signals
- Support of up to 4 cameras per controller
- Manual control of cameras Pan-Tilt and zoom via front keypad with self explaining buttons and/or via LAN-SW-tool
- ICT/WDR/LTE for difficult light conditions
- PECOS: integrated PC / HDD / DVR / snapshots / proactive recording
- Full HD: 1080 p from sensor to display
- Compact housing: desktop or rack version (3 HU x 450 x 370 mm)

PONTIS EMC Products designed and manufactured by:

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