

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

PONTIS EMC offers a wide range of EMC shielded cameras and audio intercomm: The cameras are mainly used in EMC test labs. To operate the cameras special controllers are needed. EMC testing often requires multiple camera systems. For documentation and detailed investigation the video is often recorded. PONTIS EMC offers controllers which have a PC built inside. PECOS is the software running on these controllers.

Live View of Multiple Cameras

For PECOS 4.0 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.

The screen is divided into several windows, one for each camera. Each window can easily be resized. Besides the video windows, a list of available cameras and a control panel appears.

Just drop a camera from the list into a window to see the live view.

You can also replay recordings in a window, while the live view of other cameras is shown in other windows.

Control the Functions of the Camera

Besides the local control via keys on the front panel, PECOS allows to control all camera functions via keyboard and mouse. You may use mouse and keyboard connected to the internal PC or any other PC in the network.

To control a camera just click into the corresponding window and control panel appears.

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



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.

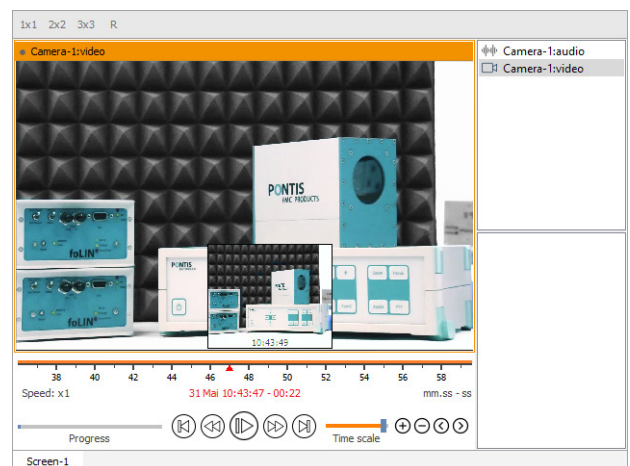
Manage and Replay Recordings

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

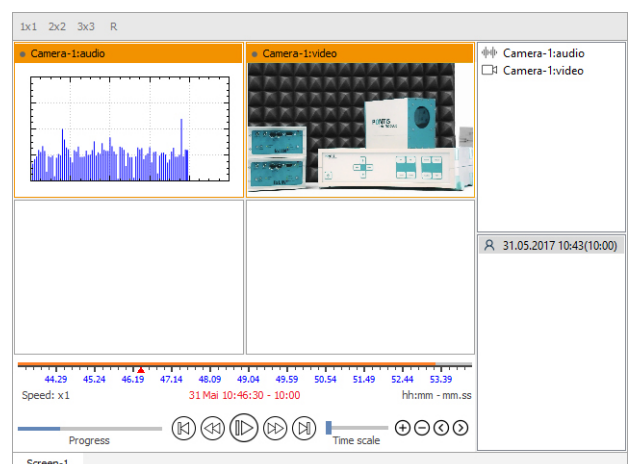
When using preview and fast navigation of timeline you can quickly find recorded video.

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 location 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.

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 integrated a custom interface.

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.

See also "PECOS Event" data sheet.



- 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_LAN-Pecos 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)

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