

**SeMSy®**

The complete system of the digital matrix can be conveniently controlled and operated via the SeMSy® management system.

**Operation**

The complete system is operated through a professional and highly efficient management system. Operating procedures and complex control processes can be stored in the system so that staff can conveniently and intuitively operate the system.

The graphic user interface provides every user with a quick overview of the cameras and the corresponding monitors via a graphic display, enabling a fast and intuitive operation.

**Evaluation**

A graphic user interface at the control centre allows for the evaluation of the recorded images. Additionally, playback can be controlled using an external jog-shuttle (for instance the VMC-1) and it is also possible to export the recorded data to CDs or DVDs at the evaluation station.

**Flexibility**

The management system is based on standardised interfaces (such as OPC) in order to allow the easy integration of further systems like access control or facility management. Additional system storage devices can easily be integrated at any times. Further decoders, which may be equipped with extra monitors, can be added at a later stage.

**Client-server concept and redundancy**

The system configuration and the relevant database are installed on the SeMSy® Pro II Configuration Server.

The respective assigned SeMSy® Server Standby takes over administration of the up to 1,500 matrix elements (decoders and encoders) in case a SeMSy® server should fail. The SeMSy® workstation uses the locally mirrored database in order to ensure a continuous operation (e.g. camera switching, PTZ control etc.) if both servers should fail.



**SeMSy® Professional GUI**



With the SeMSy® Professional GUI it is easy to realise a matrix functionality via an IP-based network.

Decoders provide playback and live display functions on one or more local monitors at the control centre. The integrated PView software allows for the local playback or live viewing of selected cameras at PC workstations.

Through the control software at the management PC the operator can conveniently control all functions of the matrix and view individual cameras and recordings on the monitors. Using SeMSy® Professional it is also possible to integrate graphic system extensions and design own user interfaces, including, for example, site plans (SeMSy® Pro II Extension Maps).

**Features**

- ✓ Switching of any camera (video input) onto any monitor (video output) of all the devices connected to the system (live display and playback)
- ✓ PTZ cameras can be controlled via the operator station (PTZ control, fixed positions, camera configuration)
- ✓ Processing of alarm messages
- ✓ Group switching (Salvos)
- ✓ Audio function – synchronous processing of every video signal and the corresponding audio signal
- ✓ Search functions (time, date, index)
- ✓ Integration of site plans for camera selection
- ✓ Redundant recording
- ✓ Control via external devices (keyboard, jog-shuttle)

SeMSy® Pro Extension Maps



Features

- ✓ Extension of the SeMSy® Pro II software with camera selection via site plans
- ✓ Easy integration of site plans (such as import of AutoCad files) into the SeMSy® system

Through their assigned number the cameras populated in the configuration of the SeMSy® Pro II software are automatically identified and highlighted respectively. Additionally, further camera locations can be indicated on site maps using freely movable camera icons. A simple click on the icon displays the camera image on the selected monitor.

Backup Client / Server solution (archive server)



The SeMSy® Pro II workstation can optionally be used with the Backup Client, provided that a backup server is available within the networked system.

The backup server contains a storage unit whose capacity depends on the individual project requirements, whereby the PC-based server unit can optionally be expanded by an external storage device (DAS-303). By default, the backup server is designed as SeMSy® S-PC with preconfigured fibre channel interface for use with an external DAS-303 (DAS-303 is optional).

The Backup Client is a software for the convenient and specific archiving of image sequences from an operator station. A backup list with search criteria covering all previously created, completed or incomplete backup jobs can be retrieved from individual operator stations or the complete system.

**Good to know!**

With the digital matrix by Dallmeier the camera signals (MPEG-2, MPEG-4, H.264) are digitalised and compressed directly at the encoder/storage (such as DIS-2/M, Leonardo, MicroStreamer, etc.). Switching from the analogue to the digital signal level is done inside the encoder, which provides the digital video signal as a stream to the internal storage unit and its LAN output, thereby acting as transmitter for a video signal.

That signal can now be received by one or more clients. In the case of the digital matrix the streams are received by the decoders, processed for display on video monitors and switched to an analogue CVBS video signal.

A major difference to any conventional analogue matrix is that a real-time storage (25 fps, 4CIF resolution) is integrated for every channel within the Dallmeier digital matrix where the video signal as well as the corresponding audio signal is processed.

