Protect Your Assets.
Increase Your Productivity.

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HWIN IN SHORT

HERNIS HWIN is the software needed to control cameras in HERNIS CCTV systems.

The application is developed for the Microsoft .NET platform and is tailered for the windows operating system.

HERNIS HWIN comes in six versions meeting the requirements of CCTV systems of different scale and demands.

Extensive CCTV expertise combined with the latest technology available has culminated in the highly efficient CCTV management environment HWIN.

The HWIN user interface gives preference to video management in one or more views, and highly flexible navigation makes every operator feel right at home.

With functionality such as drag & drop, split views, mouse-over tooltips, pop-up menus, tool bars, Video Motion Detection, (VMD), map navigation, camera browsing, snapshot, and local recording at your fingertips HWIN is an efficient control environment.

Flexible configuration of camera settings, camera groups, multi switch actions and alarm actions further contribute to ease of use.

For complex CCTV systems HWIN offers layered maps with camera and alarm hotspots, helping the operator stay oriented and navigate quickly even in volumes of information.

CCTV one step further

HERNIS' new generation modular CCTV architecture offers multi system access.

From one work station the operator can log on to external CCTV systems on remote locations and control a virtually unlimited number of cameras spread over vast geographical areas.

This new dimension to the CCTV architecture caters for remote monitoring of comprehensive onshore and offshore installations and HWIN is designed for the task.

Optimised to your need

To optimize your CCTV management environment to your requirement you can choose from six HWIN versions:

1. HWIN Touch Basic is the most basic version of HWIN only available with touch-screen functionality. The application gives preference to video images and ease of use and applies to small CCTV systems.

2. HWIN Standard is the foundation for any HERNIS CCTV control environment and is typically used to manage small to medium sized CCTV systems

3. HWIN Standard Alarm adds enhanced alarm management capability to the standard CCTV control environment.

4. HWIN Advanced applies to medium to large CCTV systems. It supports multi-system-access and more advanced navigation including layered maps to handle large-scale surveillance.

5. HWIN Advanced Alarm adds enhanced alarm management capability to the advanced CCTV control environment.

6. HWIN Touch Advanced is the premium CCTV management environment with all the capabilities of the HWIN Advanced Alarm plus touch-screen operation.

	Basic	Standard	Advanced
HWIN		2	4
HWIN Alarm		3	5
HWIN Touch	1		6

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Designed for efficiency
– easy to use and flexible user interface

Video Controller
Each video stream is displayed in a video controller with dedicated tools

Controller Toolbar
Direct access to frequently used, key commands

In-video Pan & Tilt
Pan and tilt the CCTV camera by clicking directly in the video image

Camera controller
One-click tools for camera control including PTZ and wipe/wash

On screen display (OSD)
Key identification of camera, position, sequence, alarm, camera lock etc. pertaining to the video image.

Main Menu
Easy access to the key components in the CCTV system

Video preference
The HWIN design gives preference to the video images in full screen or split views

Drag & Drop
For instance drag a camera from the menu and drop it in a video controller to see the image

Application toolbar
Easy access to the 4 distinct application modes

Split views selection
Easy access to the split views configured in the system

Active view indicator
Colored frame indicating which video controller is active and hence subject to camera controls etc.

Large Screen Controller
The large screen controller enables CCTV operators to control the HERNIS Large Screen Application (HLSA) for video walls.

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4 application modes

HWIN has 4 distinct application modes, each fulfilling key purposes:

- The Connection Mode – is mainly used for logging on and off the HWIN client. This is also where you do the application set-up to create the most effective work space for yourself.

- The Live Mode – is the normal operating mode used for all live functions such as viewing live video, controlling the cameras, using presets, maps, video splits and more.

- The Playback Mode – is used to access any video or snapshots archived in the system, on video recorders or on the local hard disk.

- The Configuration Mode – is used to define cameras, camera groups, sequences, multi switches, alarm actions and more. Some configurations are limited to specific user access levels.

4 User access levels

The system facilitates different user access levels, which determine what settings you are allowed to customise in the CCTV system. Furthermore specific cameras in the CCTV system can be reserved for users according to their priority privileges.

The four access levels are:

- Guest
- Operator
- Supervisor
- Service

Suiting your preferences
- configurable work space

CONNECTION MODE

The connection mode is mainly used for logging on and off the HWIN client, but this is also where the application set-up is done.

HWIN Application Settings include:

- Connection settings
- Map settings
- Joystick settings
- Video settings
- Streamer settings
- External monitor settings
- Alarm controller settings
- Large screen controller settings
- Split settings

CONFIGURATION MODE

The configuration mode allows operators to set up their preferences towards a familiar and effective work space.

Flexible configuration

With HWIN the operator can configure a number of settings to create a familiar and effective user interface. Configuration comprises:

- Camera groups
- Multi switches
- Sequences
- Camera names and preset positions
- Alarm actions
- Service settings
- Alarm, monitor and camera statuses

Some configurations are limited to spesific User Access Levels

Camera groups

In CCTV systems with a large number of camera stations, grouping cameras helps operators navigate more effectively. The camera groups are user-specific, and operators would typically group the

Configuration menu

Intuitive and easy environment for setting up preferred parameters for your CCTV system

camera stations pertaining to a specific work task or location on site. Configuration of camera groups in HERNIS CCTV systems is straight forward. A camera group can include up to 254 local and/or remote cameras. The groups are easily available from the Live Mode main menu.

Multi switches

Multi switches are set up to perform a series of actions in one single operation. In a fraction of time you can move any number of cameras into pre-defined positions and relay live video to designated control stations to support a specific surveillance task. Moving cameras into pre-set positions can involve panning, tilting, zooming and focusing, depending on the functionality available on the camera station. A multi switch can involve cameras in local, remote and external CCTV systems.

Sequences

Think of a sequence as a slide show of live video streams. Video from different cameras or camera positions is set up to display one after the other at individual dwelling intervals on a monitor or in a split view to support a specific surveillance task. The sequence runs in a loop and can involve video from local, remote and external CCTV systems.

Camera configuration

HERNIS CCTV systems are highly customizable and camera settings including camera names and preset positions are set up at the operators convenience, contributing to a familiar and effective user interface. Each camera may have up to 100 preset positions including pan, tilt, zoom and focus settings (provided said functionality is available on the camera station).

Alarm actions

CCTV surveillance is essential for the coordination of appropriate response during everyday operation as well as in critical situations. Alarm actions

set up to occur in response to an alarm triggered in the system are time saving and efficient. Alarm actions may include positioning of cameras, relaying spesific video streams to specific control stations, activating relay outputs like lights and sirens and initiating CCTV recordings, to mention some. Alarm actions may include cameras in local and remote CCTV systems, but not external systems.

Service settings

The service settings are system spesific, and may include:

- Video parameters such as brightness, contrast, saturation and hue
- Camera station parameters such as calibration, home position (a predefined position to which the camera will return after elapsed idle timeout) and pan/tilt settings
- Video level adjustment (analogue systems)
- Camera adjustment (digital zoom, image stabilizer)
- Wipe/wash adjustment
- VMD detection area and sensitivity

The parameters can be set individually for each camera in a HERNIS CCTV system.

Status information

HWIN offers convenient overviews of system statuses:

- all cameras with access and lock info,
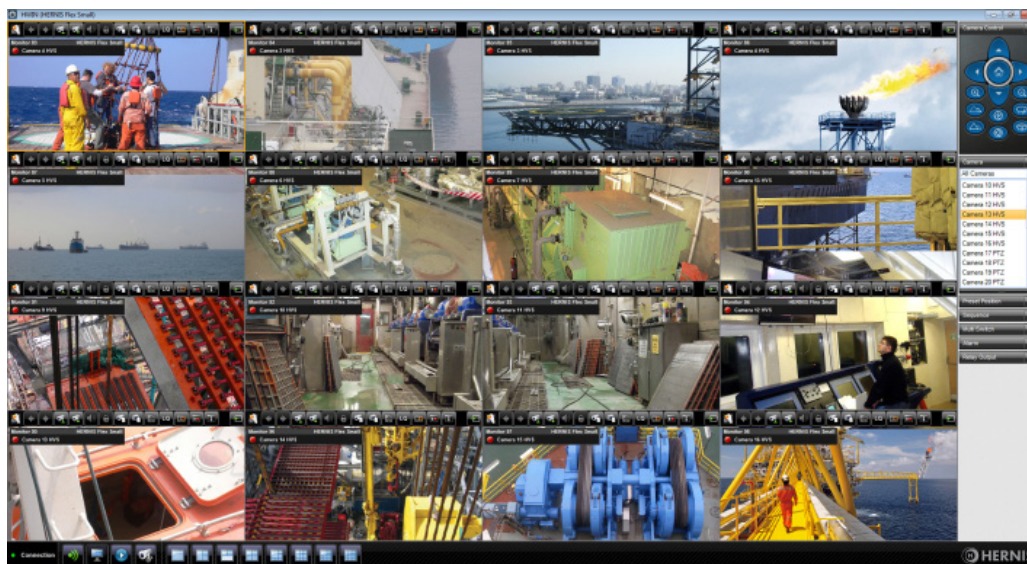- active cameras/sequences/ alarms on each monitor
- Alarm statuses

Protect Your Assets.
Increase Your productivity.
– CCTV management made easy

LIVE MODE & NAVIGATION

The easy to use HWIN environment makes operators feel right at home managing video and cameras in HERNIS CCTV systems.


Main features of navigation in HWIN include:

- Application toolbar – toolbar for activating video split options and moving between the 4 application modes, the Connection mode, the Live mode, the Playback mode and the Configuration mode.

- Main menu – user friendly structure providing access to all the controls in your CCTV system. Sub-menus such as camera list, alarm list etc. can be collapsed, resized or hidden at the operators convenience.

- Maps – layered interactive graphical maps or site plans with camera and alarm hotspots (hyperlinks) making navigation intuitive and time-saving.

- Split views - HWIN supports up to 16 simultaneous video streams in one view. Each video is displayed in a video controller with dedicated tools easily at hand.

- In-video pan/tilt - means you can click directly in the video view to pan & tilt the camera. The pan & tilt speed depends on your position off center.

- Toolbars – easy to get to buttons for critical functionality such as video quality, snapshot and local recording.

- Drag & Drop - "grab" an item, for instance a camera from the menu or from a map, and drop it onto a video controller to view the video.

- On screen display (OSD) - Key identification of camera, position, sequence, alarm, camera lock etc. pertaining to the video image.

- Dynamic Context Menus - shortcuts to the actions relevant to the item you right-click (a map hotspot, a video image, a camera, a preset position, an alarm etc.).

- Tooltip – brief description appearing when hovering the mouse cursor over an item.

- Built-in help/user manual - an in-depth description of the functionality of HWIN is always at hand by pressing F1.

- Joystick – HWIN supports joysticks with up to 3-axis navigation with fully configurable buttons (Zoom, Focus, Iris, Wipe/Wash, Camera Selection, Preset selection, Next/Previous camera) perfect for controlling cameras and Pan/Tilt/Zoom functionality in the HERNIS CCTV system.

- HWIN is available in the fully touch enabled versions HWIN Touch Basic and HWIN Touch Advanced.

Main menu
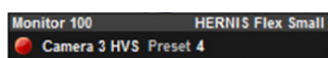
OSD

Video Controller Toolbar

Application Toolbar

Quick navigation in layers of information

Map navigation

HWIN offers high-tech map navigation attending to the CCTV operators need for quick and easy navigation.

From a top map the operator can quickly penetrate layers of detail and access cameras or respond to alarms anywhere in the system with just a few clicks.

In smaller CCTV installations the top map may typically cover the complete installation site, whereas underlying maps cover particular rooms or areas and show hotspots for camera stations, alarms and relay outputs, etc.

In inter-connected CCTV systems the top map would be a systems map with links to the individual site maps and area maps.

The HWIN maps are fully integrated and support context menus, drag and drop etc. You can for instance drag a camera hotspot onto a video controller to show real time video from the target area.

In complex systems layered maps are an important tool to stay oriented and navigate efficiently in volumes of information.

Toolbar
Navigation tools pertaining to the layered maps

Hotspots
Interactive graphical markers of CCTV system components

HWIN Maps
fully integrated maps supporting all HWIN navigation such as drag & drop, context menus, tooltip etc.

Tools menu
for zooming and toggling hotspots

Map thumbnail
The map thumbnail indicates what scale and scope of the full size map you are currently viewing

Map links
Map links take you to other maps in the system in just one click

File formats
HWIN maps can be black and white drawings, aerial views, photos or custom-made PNG, GIF or JPG files

HWIN Large Screen Controller

Large screen controller

The large screen controller enables CCTV operators to control the HERNIS Large Screen Application (HLSA) for video walls.

You can configure any number of HLSAs in HWIN. Each large screen/video wall configured will be available in the drop down menu in the HWIN large screen controller.

The large screen controller supports all the advanced control features of HWIN such as in-video pan/tilt, drag & drop, split views etc.

Each HLSA supports up to 9 videos shown simultaneously in one split view in the large screen controller.

Large Screen menu
Select the large screen/video wall you wish to manage

Active view indicator
Colored frame indicating which video controller is active and hence subject to camera controls etc.

Split views
Choose among the views configured for the active large screen/video wall

External system support
Split views may include video from both local and external CCTV systems

Split views

HWIN can display multiple video feeds at the same time in so called split views.

Split views range from one video, two videos plus map, up to 18 video feeds in one view. (single screen 16/dual screen 18)

Split views can consist of both standard definition (SD) and high definition (HD) video, and can combine video from multiple CCTV systems.

Once configured, the splits can be selected by the operator without leaving the Live View mode.

The ability for HWIN to decode and display multiple video feeds depends on the processing power and the graphics card of the computer running HWIN. HWIN supports streamers and grabber cards in addition to video from HERNIS FLEX systems.

The number of videos HWIN will allow you to display is controlled by the license.

On screen display (OSD)

The on screen display helps identify the video images and status. Key information is displayed discretely on top of the video such as;

- Name of Monitor
- Name of the CCTV system that the camera belongs to
- Status (recording/playback)
- Name of camera
- Name of preset position
- Alarm information if an alarm is triggered on the monitor
- Camera lock info
- Sequence info

In small systems with only one monitor and camera the OSD text may easily be disabled.

Relay outputs

The HWIN Relay Output controls output from the CCTV system to other systems such as light, buzzers, doors and alarms. An output signal may typically be used to open a door upon verification of personell via the live video.

Alarm control

HERNIS CCTV systems can be set up to carry out specific tasks in the event of an alarm. Alarm recordings can be configured with a pre-recording time to capture events happening prior to the alarm. Another alarm event could be to relay video from a specific camera to a specific monitor to attract the operators immediate attention. Alarm actions are easily configured in the HWIN configuration pages.

In HWIN active alarms are clearly identified via maps, alarm lists, OSD and in the split menu.

HWIN's extended alarm control offers a dedicated alarm maintenance view and access to additional alarm playback modes.

Touch control

The HWIN touch versions are fully touch enabled applications requiring neither mouse nor keyboard.

The navigation tools (pop-up, menus, toolbars and camera control input) are adjusted to accommodate easy touch operation, with in-video pan & tilt and direct preset activation.

Example of Split views menu

Take care of your company's entire surveillance requirement

Exploration vessels

Offshore installations

Marine & offshore vessels

Pipelines, pump stations, jetties

Onshore installations

HERNIS FLEX CCTV architecture

External system support

HERNIS' new generation modular CCTV architecture offers multi-system-access.

From one workstation the operator can log on to external CCTV systems on remote locations and control a virtually unlimited number of cameras spread over vast geographical areas.

The seamless interface allows you to use the external systems as if they were a local system. System overview maps accommodate for easy navigatation in all interconnected systems.

This new dimension to the CCTV architecture caters for remote monitoring of comprehensive onshore and offshore installations.

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Enhanced risk management with Video Motion Detection (VMD)

Video Motion Detection (VMD)

VMD or Video Motion Detection technology allows for early detection of movement and may typically be used for detection of oil spill, leakage or intruders in a targeted area.

The same technology may also be used reverted for flare monitoring in which case it is the ceasing of movement that triggers predefined actions in the CCTV system.

Early warning in potentially

threatening situations mitigates risk for people and property.

In HWIN the VMD functionality is integrated in the user interface for HERNIS FLEX CCTV systems. For each camera you can assign VMD sensitivity to target regions in the video image. The regions appear as frames in the video and are easy to resize and reposition during configuration.

The system will notify the operator of activites recognized as real time alarms in each targeted area. An alarm may

typically be set up to invoke true pre-event recording, relay images to specific monitors or require an action by security personell on site.
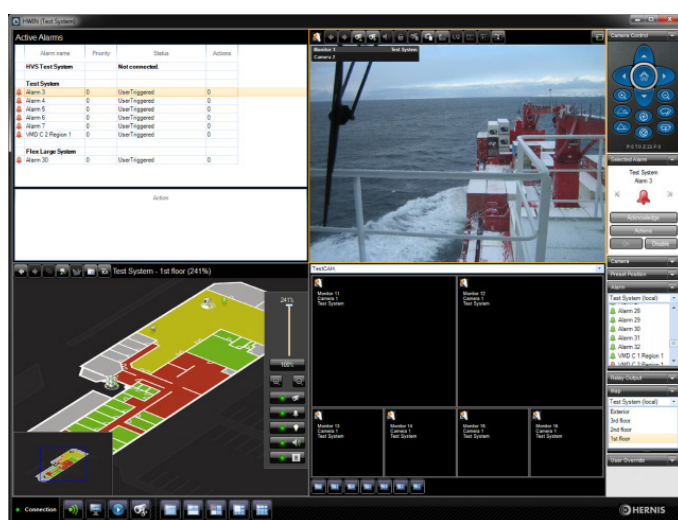
Example layout configured with alarms, maps, cameras and HLSA

Easy access to recordings

PLAYBACK MODE

The playback mode offers easy access to video recordings in HWIN.

All types of recordings in the HERNIS CCTV system, i.e. alarm recordings, camera recordings or local recordings are easily viewed and downloaded to the local hard disk from the Playback mode.

The recordings are presented in interactive list views with time saving search and navigation features.

The total recording capacity for a camera depends on the size of the hard disk, the compression settings, and

what is recorded.

Camera recordings are stored until the server is full and must free up disk space; the oldest recording is automatically deleted to free disk space for new recordings.

Alarm recordings are write-protected and may only be deleted upon confirmation by authorised users.
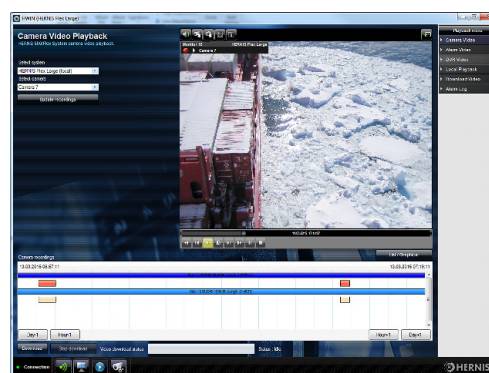
Playback view

HERNIS HWIN
versions capabilities

HWIN Features	Remote system support	External system support	Map navigation	Extended alarm control	Status information	Alarm log playback	Split view	Sequences	Multi switch	Relay output	HLSA control	Touch screen operation
HWIN Touch Basic — HWIN Touch Basic is the most basic version of HWIN available with touch-screen functionality. The application gives preference to video images and ease of use and applies to small CCTV systems.	●						● 4	●				●
HWIN Standard — The foundation for any HERNIS CCTV control environment. Typically used to manage small to medium sized CCTV systems.	●				●		● 16	●	●	●		
HWIN Standard Alarm — adds enhanced alarm management capability to the standard CCTV control environment.	●			●	●	●	● 16	●	●	●		
HWIN Advanced — applies to medium to large CCTV systems. Supports multi-system-access and more advanced navigation including layered maps to handle large-scale surveillance.	●	●	●		●		● 16	●	●	●	●	
HWIN Advanced Alarm — adds enhanced alarm management capability to the advanced CCTV control environment.	●	●	●	●	●	●	● 16	●	●	●	●	
HWIN Touch Advanced — is the premium CCTV management environment with all the capabilities of the HWIN Advanced Alarm plus touch-screen operation.	●	●	●	●	●	●	● 16	●	●	●	●	●

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