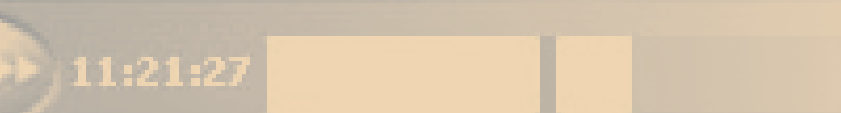December 2004

HVS-PeCo
& PeCo-Graph

Digital video recorders and transmitters with people counters

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HVS-PeCo

The HVS-PeCo units are digital recording and transmission units with people counters designed to provide high resolution images and counting data to one or several users via TCP/IP (LAN or ADSL).

Assembling the video recording and people counting functions, the HVS-PeCo's goal is to provide you with an information tool to detect business opportunities in all kind of public premises.

Images and counting data using the same system

As a digital video unit, the HVS-PeCo transmits live or recorded video via TCP/IP to several users simultaneously without stopping the recording. The recording can be configured for schedule (time-lapse), event or motion detection and set with independent recording rates for each camera.

As a people counter, the HVS-PeCo generates count data – with directional and simultaneous crossing of people differentiation and displays them graphically (daily or weekly trends).
The information can be exported in a text format to be analysed by any spreadsheet application.

A unique unit in the market to carry out the remote surveillance, monitoring and analysis of your installation.

Units with image quality

Live or recorded video images that can be displayed on a 640x480 viewer with three different image quality levels.

Simple

Designed to transmit images or data at any moment and to any PC with Microsoft Internet Explorer.

Flexible

It can be used to provide the user with live or recorded video or configured to obtain and display counting data.

Complete

With a WEB interface in which you will find all the tools needed for configuring the unit.

Secure and reliable

Robust units with a multilevel password protection, auto-diagnosis of the communications and self-boot after power loss, that all ensure the integrity of the information stored on the unit.

Centralise the security, the monitoring and the management of your business in a single system with HVS-PeCo

HVS-PeCo is A UNIT TO VIEW AND TO COUNT. It collects the information obtained from your CCTV to provide you, at any moment and at any place, with live or recorded images. Thanks to its intelligent sensors it also analyses the images acquired to provide you with flow data with no need to install special cameras or physical barriers.

Since it is based on WEB technology and works via TCP/IP (LAN or ADSL) access to the images and/or data can be remotely and safely made from any PC with Microsoft Internet Explorer thanks to its access level password-protected system.

Easy installation

Compact and "fully equipped" box, compatible with fixed cameras and domes from multiple manufactures, automatic tool for units-in-network searching and connection management for dynamic IP addresses.

Easy configuring

Factory configuration "Internet ready", with default parameters to allow immediate set-up of the unit and complete menu for the camera, recording parameters, digital inputs and outputs and counters configuration.

Easy to use

User orientated interface with an intuitive menu to easily access its functionality.

Highlights

Highlights
Image transmission without interfering with the ongoing recording process.
Simultaneous recording and reproduction of recorded sequences.
Simultaneous recording from all the cameras even if they are not synchronised.
Automatic signal detection (PAL) and calibration of the installed cameras.
Video motion detection recording with different movement areas definition and 3 levels of sensitivity.
Image adjustment independent for each camera.
Remote visualisation of the cameras and alarm inputs states.
Remote visualisation and possibility of manual activation of the relay outputs.
Independent recording frequencies and conditions for each camera, based on the schedule (time-lapse) or events activation (alarm input or motion sensor).
Configurable pre-alarm recording, up to 30 minutes.
Automatic deletion of old sequences with user-defined time limit.
Never stops recording. Hard disk occupation indication with user-defined maximum limit, and automatic deletion of the oldest sequence when more space is needed.
2 analog video outputs, one sequentially switched and one for the viewing of alarm images
Online remote updating and configuration.
Multiple simultaneous connections to the server and up to 4 simultaneous users to live video sequences.
E-mail alarm notification.

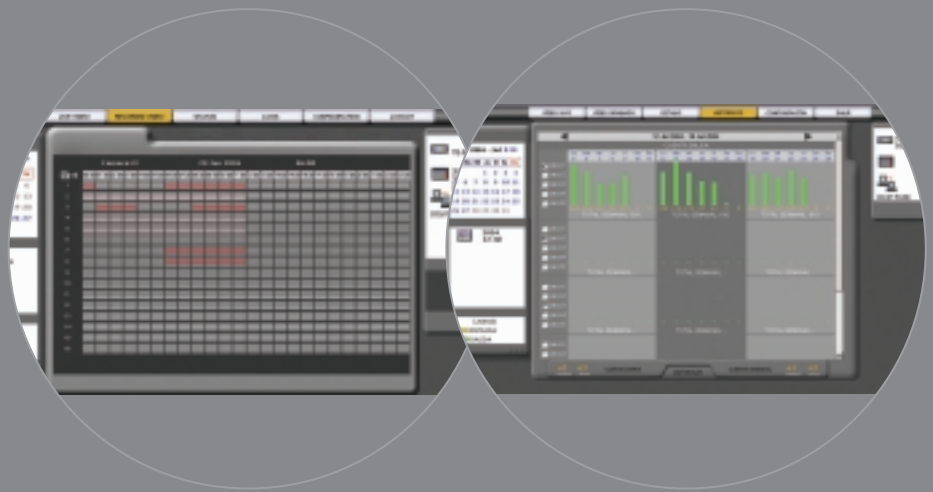### And also…

And also…
Able to count simultaneous persons and flow direction discrimination.
The counting does not affect live or recorded video processes.

PeCo-Graph

PeCo-Graph is the perfect complement for graphically representing and backing up the count data acquired by the HVS-PeCo units.

An application with which you will be able to obtain the counting data of your premises and turn them quickly and easily into charts.

VIDEO IMAGES

Tele-surveillance

With HVS-PeCo you will be able to see what is happening in any of your installations independently of the time and distance.

You will be able to oversee your business running, interact with the security devices (alarm panels, detectors, etc.), receive alarms, record and process events, export the images to document any incident and all what you need to guarantee your premises security.

A HVS-PeCo unit transmits, records and plays recorded video simultaneously without process interfering.

Live video

The unit can provide live video to several users simultaneously. It has a main viewer of 640x480 pixels, three different quality image levels, on-line image adjustments per camera and other tools to ease the supervision tasks such as camera status icons and miniaturised viewers with reference images, connected unit data information panel, full screen visualisation, 4, 9, or 16 camera quads, video touring, remote dome control, image export (bmp/jpg), report creation (pdf) and tool for sequence local recording.

Recorded video

A HVS-PeCo can record by schedule (time-lapse) or by event-triggered (by means of an alarm or motion detection). It can record from several cameras simultaneously and with independent recording rates for each one.

Each recording type has a colour code associated in order to ease the image retrieval. These can be played back in the main viewer, which has sequence and event controls to help the operator, or locally recorded to be visualised from any other PC with a media player.

Status

The HVS-PeCo displays information related to the status of the cameras, installation and its own system in order for the operator to verify that all is working properly.

COUNTING DATA

Monitoring and operation control

With HVS-PeCo you will be able to virtually visit your installations whenever and wherever and to know how many people have come in your premise, which are the peak hours of the day, how you must adjust your staff according to the people flow….

You will know better your business and will be able to make decisions to increase your profitability.

A HVS-PeCo unit is able to obtain data of the people flow in your establishment with more than a 90% accuracy daily average.

Graphical representation of the counting data

At any moment you will be able to enquire the in or out count data from one or several counters in a determined period of time and they will be displayed as daily or weekly trends.

Enquiry and export

You will be able to interrogate the data within any period of time so they can be saved on the PC in CSV format to be analysed by using either a spreadsheet or the PeCo-Graph application, available for free in www.videosafe.net.

Easy and useful

In installing the application PeCo-Graph on your PC you will be able to consult and represent the count data collected by any of your HVS-PeCo units.

Declare your premises and define the counters of each unit. Once their data is downloaded you will be able to compare, consult the progress and analyse the flow charts in your different places.

Declare your premises and define their variants

Add to the application database the data of your premises, the connection data of the count units they have and the variants of each one of the active counters: PeCo1= outs, PeCo2=ins....

Whenever you want you can consult this information, modify the data and add or delete the premises. You can also gather your premises in groups in order to download the count data of each unit with just a click of the mouse.

Customise the data download

With PeCo-Graph you can make programmed or manual downloads of the count data; referred to a premise or to a group of them; and to download all the available data or only the new data since the last time you made a download.

All the count data downloads are logged on screen so you can follow up any incidence by looking to the events, which are chronologically listed.

Turn your data into charts

Once the data has been downloaded, you can query the data charts, print, export or copy them into another application and, for instance, make your own reports or presentations.

And if you also want to see what is happening in your premise, you can connect and watch live video without having to exit the application.

FOR ANY HVS-PeCo

Charts of the count data

With PeCo-Graph you can make charts of:

Daily count in a week
One count in several weeks
Count of one day of several weeks
Comparison of one count between two days
Comparison of one count between two weeks
Comparison of one count between several weeks
Comparison of two counts in the same day
Comparison of two counts in the same week
Comparison of total counts between several units

And also a tendency chart to analyse your count data and see your flow distribution at a glance.

Technical specifications

Models	HVS304-PeCo1: 4 channel digital video recorder and transmitter with 1 people counter HVS408-PeCo3: 8 channel digital video recorder and transmitter with 3 people counters HVS516-PeCo5: 16 channel digital video recorder and transmitter with 5 people counters
Operator workstation	WEB Interface. Remote access from any PC with MS Internet Explorer Different user levels password-protected Multiple user login
Communication	Web server over TCP/IP with Ethernet 10/100 base T internal adapter and RJ45 connector Automatic management of Internet connections with dynamic IP address
Video inputs	4/8/16 PAL video signals with BNC connectors and selectable 75 Ohms loads for each signal Automatic detection of the signal type of the installed cameras: B&W or color, synchronised or not synchronised Automatic gain control for each camera (Signal level: 0,5-2V pp) Online image setting controls and customisable camera titles from the configuration interface
Alarm inputs	8 non-isolated inputs for dry contacts. 1 switchable screw terminal female connector Customisable alarm input titles and polarity inversion from the configuration interface
Relay outputs	4 relay outputs with NO/NC contacts. 24V 1A switch power. 1 switchable screw terminal female connector Activation manual by the operator or configurable to signal equipment states Customisable relay output titles from the configuration interface
People counters	1/3/5 independent people counters based on the video images analysis In and out counts for each counter Differentiation of simultaneous people flow
Video out	2 analog video outputs for cyclic visualisation of the active cameras and alarm monitoring
Capture and compression	Resolution: PAL 640 x 480 3 configurable and independent quality levels for live and recorded video MPEG standard compression. Compression size: 7KB for high quality and 5 KB for medium quality per image
Transmission	Transmission of up to 25 ips depending on the bandwidth available and the recording configuration Simultaneous transmission and recording
Video and data export	Video export to MPEG format Count data export to CSV format for its import from any data base or spreadsheet PeCo-Graph application for the automatic or manual data collection and graphical representation of the counting data
Recording	Hard disk recording. Different capacities System performance of 25/50/75 ips according to the model Simultaneous recording from different cameras and simultaneous recording and playback Automatic deletion of the images because of antiquity or hard disk occupation (maximum time for the preservation of the images = 1 year) Time-lapse or/and event recording (by means of an alarm input or a motion sensor) TIME LAPSE RECORDING: Configurable calendar and possibility of synchronisation with external devices through an alarm input EVENT RECORDING: Recording activated by means of the alarm inputs or motion sensors Configurable recording of up to 30 minutes of pre-alarm and 10 minutes of post-alarm E-mail alarm notification
Motion detection	Motion sensors per camera with selectable activation (always/in working hours) Definition of different motion/no motion areas and 3 levels of sensitivity Recording activation on one, several or all cameras
Pan tilt zoom	Control of domes and matrixes from multiple manufacturers (refer to our dome list in www.videosafe.net)
Configuration	Menu for the remote configuration with user level password-protected Remote software updating
Power supply	Internal power supply UL, CSA, FCC and CE marked Voltage: 110/230 Vac. 4A, 50/60Hz Nominal consumption: 100VA
Physcical data	Weight: 6700g Width x Height x Depth: 366 mm x 134 mm x 318 mm
Certificates	CE y FCC

Software for graphically representing and backing up the count data, PeCo-Graph

Download	The PeCo-Graph tool is free and is available at www.videosafe.net
Hardware minimum requirements	PC with Pentium III 500 MHz (or equivalent) and 128 Mb RAM TSVGA Graphics card with minimum resolution 1024x768. 15" Monitor 32Mb of free disk space for program files
Software minimum requirements	Windows 98, Windows 2000 or Windows XP Previous installation of Microsoft .NET framework v1.1 (available in www.videosafe.net)
Operation	Program for the automatic or manual data collection from the HVS-PeCo unit Possible full or differential update depending on the last upgrade

The manufacturer reserves the right to alter the specification of products without prior notice.

How to order:

HVS304-PeCo3-HDD = 4 channel recorder with 1 people counter and a system performance of 25 ips.
HVS408-PeCo3-HDD = 8 channel recorder with 3 people counters and a system performance of 50 ips.
HVS516-PeCo5-HDD = 16 channel recorder with 5 people counters and a system performance of 75 ips.
HDD: XL= (120GB), XXL= (240GB) y 3XL= (500GB)

Further information about all the products available at: www.videosafe.net