digifort

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SMART SOLUTION

digifort

2020

Today's Digifort, since 2002

DIGIFORT IS AN OPEN ARCHITECTURE

VIDEO MANAGEMENT SYSTEM (VMS)

Today's Digifort's award-winning VMS - a truly open platform, is offering unrivalled integrated solutions combined with the highest-quality performance, and compatibility with one of the industry's lowest total cost of ownership. Digifort has a performance driven architecture, while providing stability and one of the most responsive and lowest CPU and RAM demanding VMS in its class. Creating an environment which is extremely light on IT infrastructure costing much less in hardware and maintenance.

SUPPORT FOR
99% of the network
CAMERAS BOTH NEW AND OLD

As an open platform VMS company and a certified ONVIF global partner, we support nearly every camera in the market today mainly through native integration. With Digifort, even the cameras integrated from day one will still be working with the latest version as do not drivers of old models.

DIGIFORT
ON
THE PACE

"Without change there is no innovation, creativity, or incentive for improvement. Those who initiate change will have a better opportunity to manage the change that is inevitable." At Digifort, our focus is on delivering innovation that helps our customers work smarter, do more and have freedom of choice.

Digifort Global
Resellers, partners, around the world.

Advanced VMS solutions are powerful, complex and costly.

We made it simple & cost-effective.

"Right click of your mouse" is all you need to learn to perform most of the operator's daily used functions.

- **No annual charge.**
- **No support fees.**
- **Free upgrades within the same version.**
- **Huge list of inclusive advanced features.**

Digifort Design Tool

Accurate guidance for safer hardware decision.

The Digifort Design Tool is a web tool designed to assist the users in determining the best choices for best performance in the building of their servers and client stations, including storage required.

The calculations are generated from the project information entered in our tool, which will generate the results, testing several models of processors to present accurate and effective suggestions.

- **Number of Servers (for the need to divide the total number of cameras)**
- **Processor to be used**
- **Memory Amount**
- **Amount of Disk Space (Storage)**
- **Operating System Indications**
- **Hardware Indications for Monitoring Clients (Workstations)**
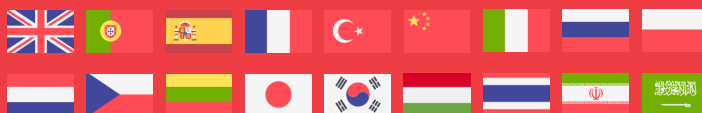
▶ http://www.digifort.com/design-tool.php

Language Support

Digifort software is written in 19 different languages: English, Portuguese, Spanish, French, Turkish, Traditional Chinese, Simplified Chinese, Italian, Russian, Polish, Dutch, Czech, Lithuanian, Japanese, Korean, Hungarian, Thai, Persian and Arabic.

Automatically change system language per user.

The clients language (Administration, Surveillance and Web) can now be changed dynamically for each user logged into the system, overwriting the computer's language option.

"

We listen, watch & anticipate the market trends and needs, always perfecting the Digifort VMS.

Powerful Archiving Solution

Whether you simply need an automated archive backup, or a cloud storage, we have got you covered.

Control Room Video Wall (Virtual Matrix)

Integrations with video wall solutions and our very own Virtual Matrix feature. The performance of the Virtual Matrix has been designed & optimized to support large amounts of monitors. Digifort's capabilities in any size control room or operator's room is simply amazing.

Secure & Encrypted

Digifort uses SSL/TLS for communication between the server and the native client, web server and mobile cameras (Android and iOS) for secure, encrypted communications. Digifort API and HTTP server support HTTPS. For enhanced security, the server can be configured to only accept very strong user password. All user passwords are stored encrypted on the server.

- Have at least 1 uppercase letter
- Have at least 1 number
- Have at least 1 lowercase letter
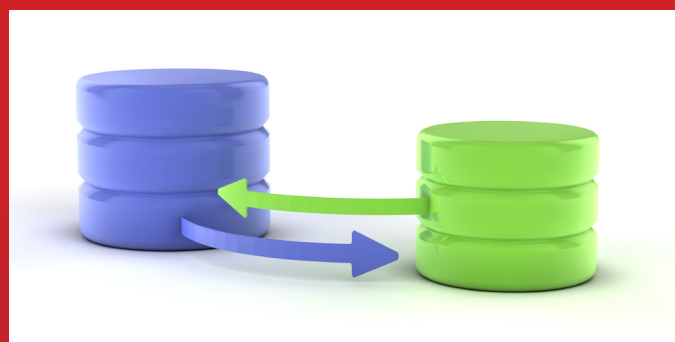- Have at least 1 symbol

Accessing Access Control and other Network Devices

Nowadays, VMS software alone does not cover all the customer's needs in today's market. To help you build smarter systems, we have made it possible for popular brands to "Talk" to our VMS natively or via middleware and gateway.

Put Multiple Pieces Together to Address Your Unique and Evolving Needs

Digifort's key integrated elements are coming together to create a cohesive and single command control platform, so everything will be taken care of. Through close collaboration with industry leaders, we bring you the cutting edge technology of today.
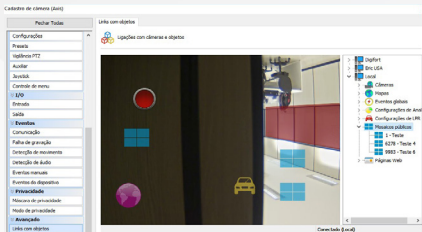

Rapid Failover

Digifort offers one of the most reliable and rapid redundancy feature, Failover and Failback. Digifort's failover mechanism is very flexible and can be fine tuned to meet the highest standard when it comes to speed, performance and reliability. Apart from camera streams, Digifort also failover VCA, LPR and I/O devices.

OUR Features

Enterprising Features

FOLLOW ME

Object Links to a Camera

⚠ Camera Links

Create a link between the cameras providing a seamless ability to follow a person through different cameras, live and playback. Each link (an embedded image like an arrow or a zone) will update the live screen image to a linked camera image where the person will appear next.

⚠ Object Links

Activate alarms or global/manual events such as opening a door or trigger a siren or public announcement directly from the camera view. The overlay can also be objects in Digifort like Map, Web Browser, Analytics, LPR even PTZ Presets.
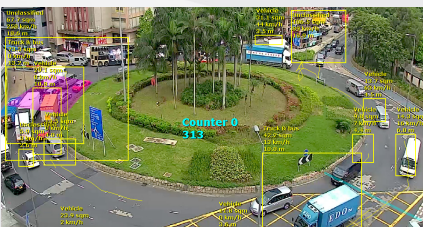
`PR` `EN`

Digifort has outgoing RTSP server built-in for safe third party video retrieval

`EX` `ST` `PR` `EN`

Digifort Insight

Insight is a live screen capture software that works as an IP camera. It generates a continued video stream from the choosen computers to the Digifort server. PC control is only available for PR and EN however.

`ST` `PR` `EN`

Meta Data Recording

Digifort system now allows metadata recording and playback tied to camera images.

`ST` `PR` `EN`

Support ONVIF ONVIF®

Certified ONVIF global partner. We are fully compliant to Onvif Profile S, G and T.

`EX` `ST` `PR` `EN`

Virtual Matrix

Virtual Matrix allows sending all objects on the screen along with its configurations to any monitor (Current media profile, zoom position, 360 lens position, image filter and motion detection). Virtual matrix can be performed from Digifort Mobile client app on any smartphones. This includes a live view as well as playback.

`ST` `PR` `EN`

Edge Analytics

Both LPR & VCA system now supports an Edge analytic cameras which runs embedded analysis algorithms on the cameras..

`ST` `PR` `EN`

Edge recording and self-healing

Edge recordings are possible on certain integrated cameras. Record on the camera's SD card when there is a network disconnection. This video will be transferred back to a central server as soon as the network connection is restored.

`EN`

Edge Playback*

This allows designing a **Decentralized Recording** solution. As a means of redundancy, allows dual recording at 2 different locations and different resolutions. Apart from SD card recording on the cameras, DVRs and NVRs are also supported*.

`EN`

Server Health Monitoring Event

It is possible to monitor the CPU and Memory usage of the system and trigger events in case of abnormality.

`EX` `ST` `PR` `EN`

HTTP Events & Actions

Integrate any 3rd party System or Device using standard HTTP events and actions to trigger our Global events rule in Digifort.

`PR` `EN`

Virtual I/O

Virtual ports are created and activated by any system events, as well as API. The status of the virtual port can be placed on the synoptic map and allowing multiple conditions to events and actions.

`ST` `PR` `EN`

Two Factor Authentication

- One time password
- Token provided by any two factor authentification app
- Extra security
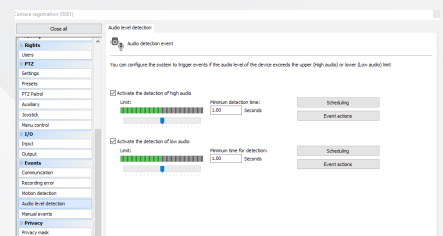
`EX` `ST` `PR` `EN`

Recording on Motion

Digifort leverages multi-streaming capabilities. It can use different stream (low resolution eg. CIF) for motion detection in order not to overload your CPU.

`EX` `ST` `PR` `EN`

Two ways audio with recording for audio enabled devices

`EX` `ST` `PR` `EN`

Audio Level Detection

Digifort can now analyse the audio level of an environment and trigger events in case the audio level is over or below a specified limit by for a minimum amount of time.

`ST` `PR` `EN`

Authentication code
7D59-43FA-F0DE-432B-7FE8-ED28-C49B-EC13

Report Authentication

We have added a great new feature for verifying the authenticity of any Digifort generated report or printed photograph for legal purpose.

`EN`

Selection of Multicast Network for Relay

Digifort allows the selection of a source network for sending images using multicast.

`EX` `ST` `PR` `EN`

Synoptic Maps

Supports creation of multi-level maps, Google maps with camera auto population advanced engine.

- Create Maps with objects from different servers.
- Import static image of maps from Google Maps.
- Configure the field of view for any camera on the synoptic map.
- Allows real-time representation of the current position of the PTZ camera.

ST **PR** **EN**

E-mail notification

- Attach multiple images.
- Full customization.
- Attach video play back link.
- Attach multiple images up to 5 snapshots.

EX **ST** **PR** **EN**

Integrated Web Browser

Support for embedded browser of a 3rd party product or any website in Digifort Surveillance Client. Can be saved inside views and can be sent to Virtual Matrix.
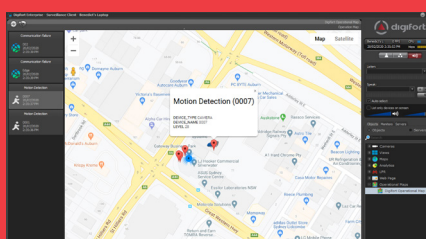
ST **PR** **EN**

Screen Style

Digifort VMS solutions provide unlimited screen style creation. This flexibility gives the customer more control over display options.

EX **ST** **PR** **EN**

User and alert group management

Quickly add users or just security patrol personnel to receive alerts and notifications only and manage user rights with customized user roles. Active Directory is supported.

EX **ST** **PR** **EN**

Operational Map

- Provides and overview with geo-positioning of all cameras.
- Powerful integration with Google Maps allowing the creation of navigation and event maps.

EX **ST** **PR** **EN**

Fisheye De-warping

De-warp any live or recorded fisheye video or image. Create digital zoom views and save them and recall them instantly.

EX **ST** **PR** **EN**

Privacy Mask with Blur

The Privacy Mask feature now allows blurring areas of image as an option instead of a total blackout of the area.

EX **ST** **PR** **EN**

Audits

Digifort users can conduct a comprehensive examination of the whole Digifort systems. You can probe into any actions of users, errors, events and device failures.

- Event logs

  Events related to servers, analytics, device, recording, communications, alarms, Audio detection and global events can be audited.

- User Activity logs

  Any activity performed by the user can be audited such as which camera was viewed, exported, changes made as well as PTZ pre-sets triggered plus more.

EX **ST** **PR** **EN**

Once integrated, the third-party system has direct control of the following Digifort actions

- Send e-mail to a group of contacts
- Show objects to the operator. The objects will be displayed in the same pop up
- Play alarm sound in surveillance (can be customized tone or a message)
- Send an instant message to the operator
- Request operator acknowledge
- Call presets from Camera/PTZ

- Activate output action scripts (e.g., trigger a message through a network horn speaker)
- Activate or deactivate system objects
- Send HTTP request to Digifort or to any third party application
- Create a bookmark
- Download recordings from devices with edge recording support
- Create timer event
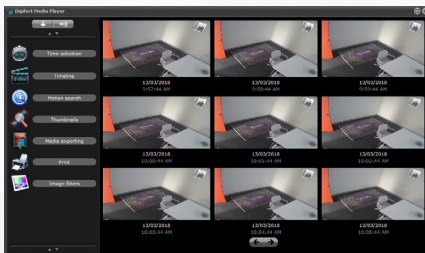
Global events (Rules configurations)

Digifort Global and the manual event can create rules that can link any event from the Digifort system or any other device events (can be 3rd party subject to integration) or an application to trigger a powerful notification or alerts to the operator.

ST **PR** **EN**

Search many hours worth of recorded video in less than a few second using any combination of Smart search, Thumbnail view and bookmarks.
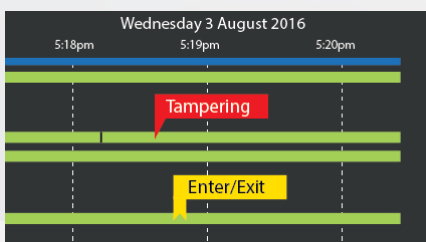
Playback

Thumbnails search in playback

Media Player will display a thumbnail of different recording times, allowing you to quickly locate a desired scene. It is possible to generate thumbnails based on:

- Time slice where the system will display thumbnails with fixed time interval.
- Custom choice of the time interval
- Size / quantity of thumbnails on the screen.
- The system also allows you to search for thumbnails of bookmarks only.
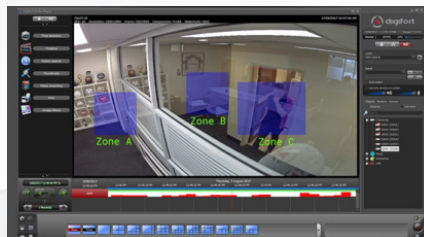
`EX` `ST` `PR` `EN`

Bookmarking

- Manually or Automatically (using the global or manual event rules) create Bookmarks to highlight critical events and related video. *Quick review with bookmark reports.
- Bookmark Report.

`PR` `EN`

Multiple-thread media playback

The video playback and playback system (Server-Side) uses multi-threads to ensure better performance when reading the images and sending them to the clients.
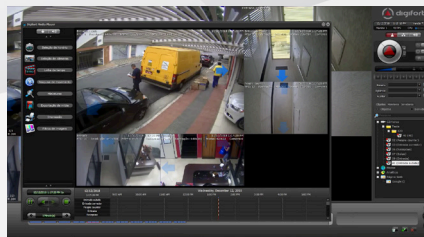
`EX` `ST` `PR` `EN`

Smart Search

Smart search allows users to search for motion activity that occurs only on the selected areas of the video footage during playback. It saves time by searching only on the areas of interest.

`ST` `PR` `EN`

OVERLAY on Cameras

Camera Links: "Follow-me" feature, click on an area of the camera view and the system will open the linked camera view. The overlay can also be objects in Digifort like Global/Manual events, MAP, VCA, LPR and Web pages.

`PR` `EN`

🔒 Digifort's video files are safely stored in a salted MD5 including linked-frame protection.
🔒 All video files are encrypted with EAS128 & AES256.

Playback from Archives

Playback from archives (NAS or cloud) is made easy. The access to this cold storage is identical to the way you access playback from your connected cameras. Simple!

`EX` `ST` `PR` `EN`

Protect Video Exporting

An option to have password protected and encrypted exporting.

`EX` `ST` `PR` `EN`

Video Export Options (Watermark is available in all options)

- Native (Password protection available)
- MP4 (Export videos and photos straight to WhatsApp)
- AVI (2 codecs provided, XviD MPEG4 & H.264)
- JPEG
  When using JPEG option you can choose any number of frames per second, minutes, hours or days. This is useful when you wish to export a video to see the construction of a building going up in minutes, which took months to build.
- Limit the media size
  This option is used in mission-critical situation when you need to exports days of videos.

`EX` `ST` `PR` `EN`

Sequence Exporting

- Follow a suspect and export the exact sequence-Suspect trace.
- Every view, in the order that you have performed, will be saved and exported.

`EX` `ST` `PR` `EN`

Evidence Blocking

Protect recordings against deletion by locking it. Once the evidence is blocked, it cannot be deleted or overwritten until it is un-locked.

`EX` `ST` `PR` `EN`

Instant Rewind

Review an incident an operator just saw, immediately, backwards.

`EX` `ST` `PR` `EN`

Instant Freeze

Freeze your live view.

`EX` `ST` `PR` `EN`

Printing

Media Player Printing

The image printing tool from media player will now add the image of all cameras from playback into the report, creating 1 page of report per camera. If there is a selected camera, then only the image from the selected camera will be printed.

`EX` `ST` `PR` `EN`

Image Cropping

Crop the camera image from media playback, by using this feature. The system administrator can select an area of the image that he/she wishes to keep visible for the users.

`ST` `PR` `EN`

Fast & Intuitive

Intel Quick Sync
Makes DVDFab Much Faster in Decoding/Encoding Video

Dynamic Scaling Intel Quick Sync

Digifort client uses the Dynamic Scaling technique to optimize the speed of decoding while minimizing CPU and network bandwidth usage (even less CPU demand if the processor is equipped with Intel Quick Sync). We can project more camera channels on a single screen without the need for expensive video cards.

`EX` `ST` `PR` `EN`

Stop streaming of superimposed cameras

The Surveillance Client stops the transmission of images of superimposed cameras. Cameras might be superimposed when the user selects one camera in full screen. In this case, all cameras that are below (Not being displayed) will be deactivated, saving bandwidth and CPU resources.

`EX` `ST` `PR` `EN`

Research and Reporting

Digifort lets you easily generate reports from any analytics event in a variety of styles including line, bar and pie charts. Set advanced filters and create comprehensive reports within minutes. Valuable business intelligence at your fingertips.

`ST` `PR` `EN`

Multi-Processor Scalability

Digifort's powerful memory manager allows greater scalability when using multiple processors It reduces CPU usage up to 50% in servers with high processing volume and multiple cores.

`EX` `ST` `PR` `EN`

Customized positioning of alarm screens

Customize how the alarm windows are organized on a monitor in the Surveillance Client, instead of being positioned automatically. PRIORITY alarms are possible to appear in red bordered pop-ups

`EX` `ST` `PR` `EN`

Easy Registration of Multi-channel Device

An option to automatically register multiple channels of a multi-channel device such as DVR, NVR of multi-lenses camera.

`EX` `ST` `PR` `EN`

Web Client

Native HTML5 interface, does not require external plugin. H.264, H.265 and MPEG-4 decoding directly from HTML5 interface without the need of MJPEG transcoding.

`EX` `ST` `PR` `EN`

Multi-threaded video decoding

- The Surveillance Client now allows the use of multi-thread for H.264 and H.265 video decoding. This option can be used to accelerate video decoding on the client, especially ultra-megapixel images.
- Using Graphics card – NVIDIA The load balancing of Digifort means decoding will offload to CPU when GPU is overloaded.
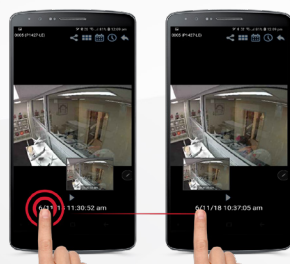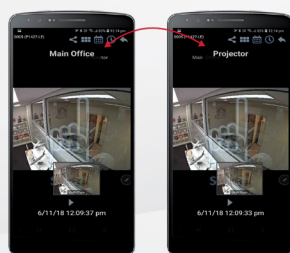
`ST` `PR` `EN`

Digifort Apps

Digifort Mobile Client

Digifort Mobile is a software developed on the Java platform for mobile devices such as Smartphones, PDAs, etc. It makes it possible to view images of IP cameras and video encoders as well as activate events from your mobile devices.
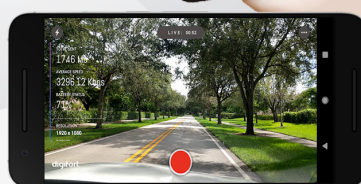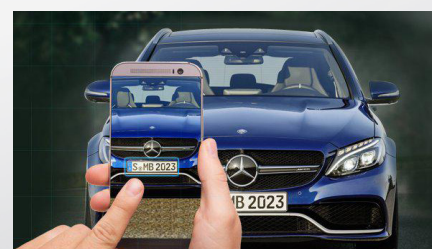
Digifort Mobile Camera

Receive Streams from your phone Digifort Mobile Phone App presents live video streaming with Audio, turning your smart phone into a mobile cam for fleet, patrol guards, police, or anyone connected to Digifort VMS.

Mobile LPR App

Designed to be used by Law Enforcement on the field for automatic license plate search. Results of LPR processing will be displayed instantly on the mobile app. Can also work with external LPR Database.

THUMBNAIL PLAYBACK FOR FASTER SEARCH

SEND PLAYBACK SCREEN ON MOBILE DEVICE TO ANOTHER DESKTOP DIGIFORT CLIENT

NOW WITH AUDIO

Live View Digifort Mobile Camera

Accessory

Digifort Keyboard - DGF-KB1000

The keyboard controller has been developed exclusively for the Digifort system to provide faster and easier control over your entire operation.

Features

- Ability to show specific cameras on the screen;
- Activate/deactivates the motion detection on the surveillance client; Quickly saves a snapshot of the selected camera;
- Event triggering;
- Blocks/unblocks the PTZ control on the selected camera;
- Calls a preset from the index and changes the PTZ patrol;
- Starts and pauses video playback, selects recording times, fast forward and goes back on the recording;
- Screen for camera identification allows the user to visualize important information.
- Simply connect to USB port and you are ready.
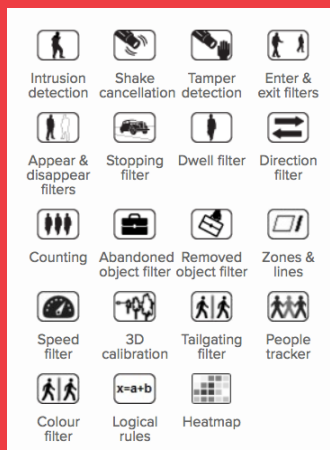
License Plate Recognition [LPR]

EN PR ST

Digifort offers the world's best library of number plates for recognition. Digifort LPR is integrated with Carmen engine & Neurolabs. The best function is it can be read at acute angles, in many different lighting conditions and most importantly, at high speeds up to 250 km/h.

- Digifort supports Edge analytics where the LPR computation is performed at the camera end instead of the server.*

- Search by Colors, Categories, countries and owners.

- Search records by speed range*

  * Subject to integration and If the LPR engine supports

Video Contents Analytics [VCA]

EN PR ST

Intrusion detection	Shake cancellation	Tamper detection	Enter & exit filters
Appear & disappear filters	Stopping filter	Dwell filter	Direction filter
Counting	Abandoned object filter	Removed object filter	Zones & lines
Speed filter	3D calibration	Tailgating filter	People tracker
Colour filter	x=a+b Logical rules	Heatmap	

Analytics driving the future of next-generation video surveillance

With camera counts in large-scale applications becoming larger than ever, they generate huge amounts of data that strains human resources.

Digifort video analytics can complement the human operator in the supervision task in two ways: Real-time video alarm triggers and assisted video search.

Taking Accuracy to the Next Level

Deep learning classifiers, Non-GPU dependent.

- **PERSON**   - **VEHICLE**   - **CLUTTER**

Accurately distinguishes between true events and false positives (e.g. spiders, car headlights).

Self Learning

Calibration is easier with direct feed back on object classification. Use existing cameras.

392

257

Facial Recognition in the Crowd

EN PR ST

Digifort face biometric system is very powerful and allows to differentiate between persons that look alike even on galleries of thousands of enrolled people. Thanks to the State of the art algorithms, we can achieve robust and efficient detection of multiple faces under challenging conditions. Our technology has taken facial recognition accuracy to the next level using the latest advancement in computer vision technologies, Deep learning techniques and AI.

Deep learning is a branch of machine learning about multiple levels of representation and abstraction to make sense of the data. It is a set of algorithms in machine learning which uses artificial neural networks to learn multiple levels, corresponding to different levels of abstraction.

Key Features:

- Recognition of multiple faces in the crowd
- Alerts based on a match with the White List and Black List
- Search faces from recorded images
- Quick and easy enrollment:
  - Self Enroll
  - Enroll from Images
  - Enroll from previous events
  - Enroll from Video

These are add-on product

Countless hours of videos are recorded every day. Most of it is never used. Now you can optimize video surveillance investments.

RAPID REVIEW
Unique fusion of computer vision and Deep Learning technologies, together with its patented Synopsis®application, enables video investigators to review hours of video in just minutes and rapidly pinpoint people and objects of interest.

Appearance : A person, Gender, Clothing type, Vehicle Type, Animal, Bag, Color, Size, etc.

Behavior : Speed, Path, Custom path, Direction, etc.

Area : Inclusion or Exclusion

INSIGHT
Has all the rapid Review features plus:
Research : perform quantitative analysis, extract actionable insights from their video, and visualize them within customizable dashboards and reports.

Respond : provides the ability to trigger a call to action, bringing relevant events to the forefront and allowing quick review by those individuals who can provide an accurate assessment.
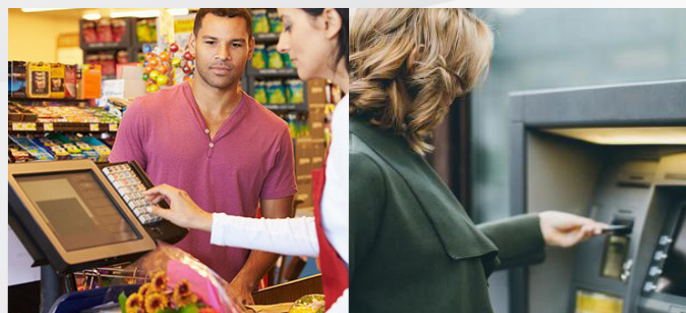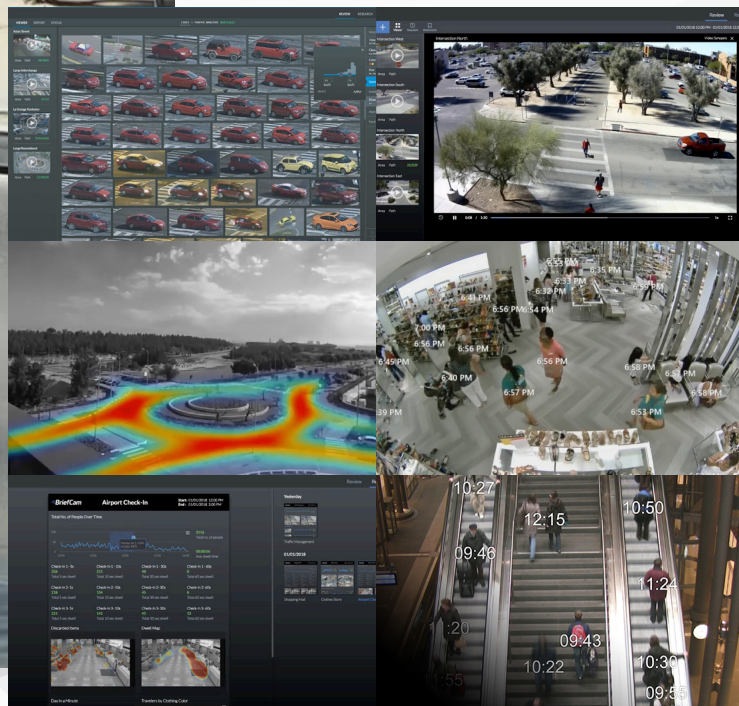
Real-time **Face Recognition.**

ST PR EN

Understand consumer analytics
- Quantify and Classify Consumer demographics.
- Evaluate the impact of store layout.
- Identify the products consumer interact with most.
- Determine popular shopping paths. Optimize safety, security, and revenues.

POS-ATM Integration
ST PR EN

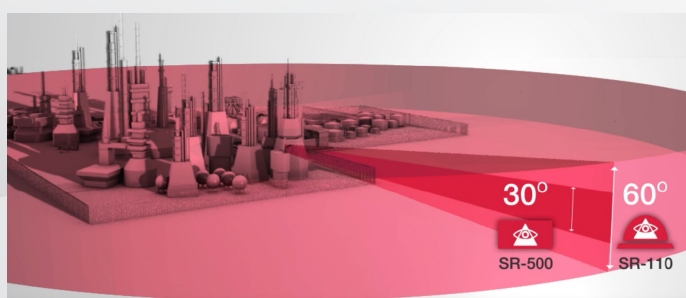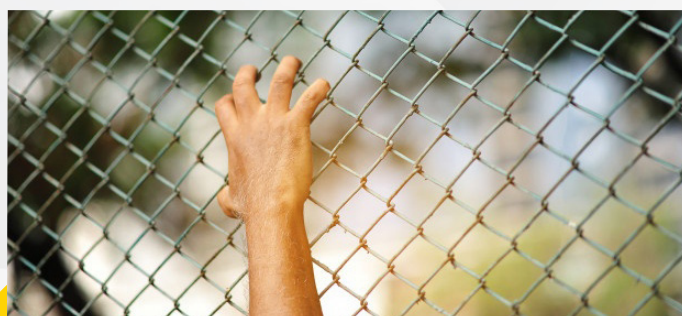### TCP/IP data(text) integrated seamlessly into Digifort VMS
- Detect fraud early in its development stage.
- By normalizing all metadata at the edge of the network, Digifort becomes the head-end for monitoring all TCP/IP connected sensors and devices, while also ensuring all metadata is stored time synchronized with the Digifort's video.

Perimeter Security Solution
ST PR EN

Keeping future intruders out
Perimeter security breaches around the world are growing as intruders are exploiting the technological weaknesses of traditional security cameras — this includes camera blind spots and general human error. To combat these weaknesses, Digifort VMS have collaborated with perimeter detection technology companies to help effectively close the loopholes with automated alarms upon detecting intruders.

Radar Detection
ST PR EN

Seeing beyond the perimeter with radar technology
Radar is an ideal choice for perimeter security in large, open sites, as it is very robust, and performs well in poor meteorological conditions or harsh environments. Additionally, the long detection range is most beneficial on sites where open wide-areas require reliable detection.

30° 60°
SR-500 SR-110

These are add-on product