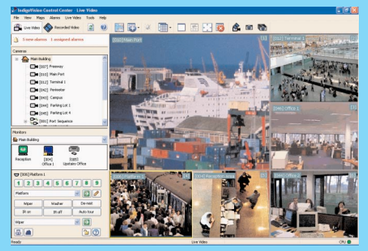
IndigoVision
Complete IP Video Solutions

Software

IndigoVision's Control Center is a highly scaleable application which allows local and remote control of any CCTV system, from an entry-level system with a small number of cameras, to a large installation with several hundred cameras.

In conjunction with IndigoVision's compression and transmission technology and our Networked Video Recorders (NVRs), Control Center provides a complete solution for digital CCTV.



The standard video playback controls and jog/speed shuttle allow for easy navigation of recorded footage.

Hardware

The 10 Channel Rack allows up to 10 analog cameras or 10 analog monitors (or a combination of these) to be connected and accessed by other products in the IndigoVision range.

10 Channel Rack

8000 1-input Transmitter/Receiver

The 8000 1-input transmitter/ receiver supports one camera or one monitor. This next generation MPEG-4 technology offers analog levels of quality at a choice of resolutions for the most demanding applications such as surveillance, identification and high speed movement.

Standalone Networked Video Recorders

Our Standalone Networked Video Recorders (NVRs) are rack-mountable or standalone video and audio recorders. They provide a powerful and integrated recording and playback system for video and audio from transmitters and receivers.

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Analytics

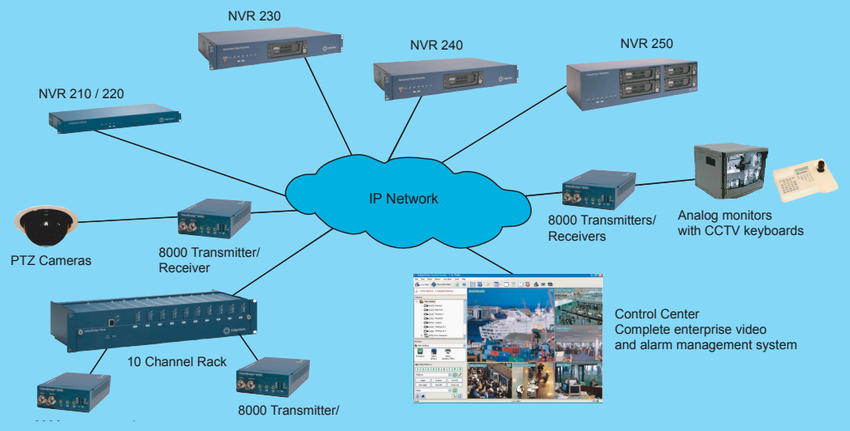
Powerful image analysis in both live and recorded situations. Effective in any application where the search of recorded material is undertaken

IndigoVision's Analytics algorithms provide users with powerful tools to assist in the complex task of security monitoring and control and is the natural, progressive choice for any serious, efficient CCTV monitoring system.

Analytics algorithms bring significant benefits in both live-monitored and incident review operations, work 24 hours a day, 365 days a year and don't get tired or lose interest or concentration. Their use allows improved operational performance and an increased workload to be accommodated in a monitoring and control establishment without an increase in staff headcount. IndigoVision's Analytics algorithms include:

- Congestion detection
- Motion detection
- Abandoned Object detection
- Counter Flow
- Virtual Tripwire
- Shaped-based detection
- Theft detection
- Object tracking

All algorithms are run BOTH in the transmitters at the network edge AND/OR post-event on recorded footage.



Live Video Analytics

IndigoVision's algorithms analyze live video and identify predetermined events of interest as they happen. Automatically-generated prompts lead to significant improvements in system effectiveness and improvements in incident detection hit rates.

These algorithms are run in the transmitters themselves which leads to network efficiency and no scaleability limit on a system.

Recorded Video Analytics

Huge productivity improvements and a boost for morale result from using Video Analytics during the searching of recorded material in post-event analysis. Changing the search variables at will allows the user to sift through vast quantities of recorded material quickly and efficiently. Analytics software then searches for the events requested, saving time and freeing the operator to concentrate on more immediate tasks.

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IndigoVision Analytics

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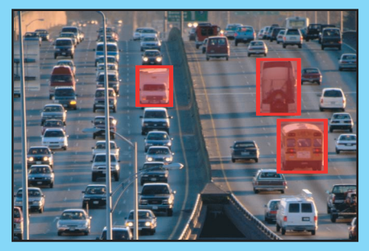
Shape-based Detection/ Object Tracking



Shape-based detection/object tracking can be used in a wide variety of applications. It can alert CCTV operators when a high-sided vehicle or ship approaches a low bridge. Alternatively, it can be used to distinguish between an animal approaching a boundary fence, and an intruder.

In recorded video footage, this feature can be used to analyze the types of vehicles using a road, and what time of day they are using it.

Abandoned Object Detection

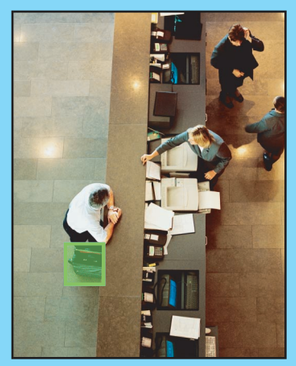
Used for alarm generation when an object has been left in a busy scene (such as a suitcase in an airport or railway station), this feature is a key component in the timely management of dangerous situations. This functionality can also be used to detect illegal parking, or vehicles staying too long in certain zones, etc.

It can also be used to search recordings for events such as parking violations and blocked freeways.

Motion Detection

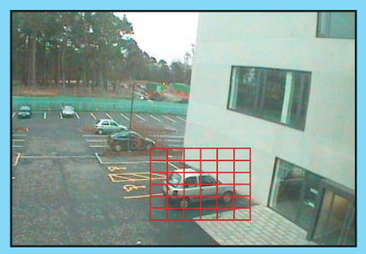
Motion detection can be used to alert users of unauthorized entry, and of potentially dangerous situations, for example, if a member of staff is entering a hazardous area without protective clothing.

Users can define specific areas of interest in a scene and search automatically through a recording to identify and view any significant motion that occurred during the recording. This is hugely useful when searching for events in corridors, staircases, walkways, etc. during quiet times. It can be tuned using parameters such as object size and sensitivity.



Theft Detection

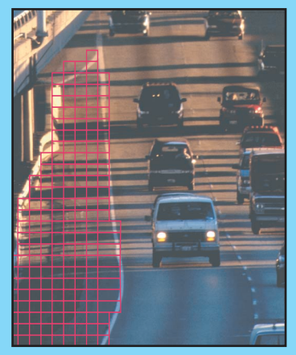
Museum mode can be used to detect theft, such as the removal of a painting from the wall of an art gallery. In this mode sensitivity is configurable and moving foreground objects are ignored.



It can also be used when reviewing recording footage, for example, of a warehouse or a stockroom. It can quickly identify when a particular item was moved or removed from the scene.

Virtual Tripwire

With a virtual tripwire set alongside a railway track, freeway hard shoulder, building perimeter or around a temporarily parked asset for example, the operator will be informed when that tripwire is breached. Since the system "understands" direction, alarm discrimination based on direction of approach is made possible.



A virtual tripwire can also be placed on the entrance into a building or parking lot to review how many people or vehicles enter it.

Congestion Detection

Congestion Detection is used to alert a user in the event of a build-up of congestion in an area of interest (railway station platforms, public spaces, highway entry/exit sliproads, point-of-sale queues, etc). This helps to initiate timely action and prevent an undesirable situation from worsening.

It can also be used to provide statistics for staff planning and marketing purposes. For example, it can detect when a shopping mall is at its busiest, or when hypermarket queues start to build up.

Counter Flow

Counter flow is available to alert a user to a person or vehicle moving in an unauthorized direction, such as a person moving against the permitted flow in an airport immigration or customs area, or a vehicle travelling in the wrong direction on a carriageway or in a one-way system.

Counter flow analysis can help optimize crowd control in public areas, such as the underground, or train stations.

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