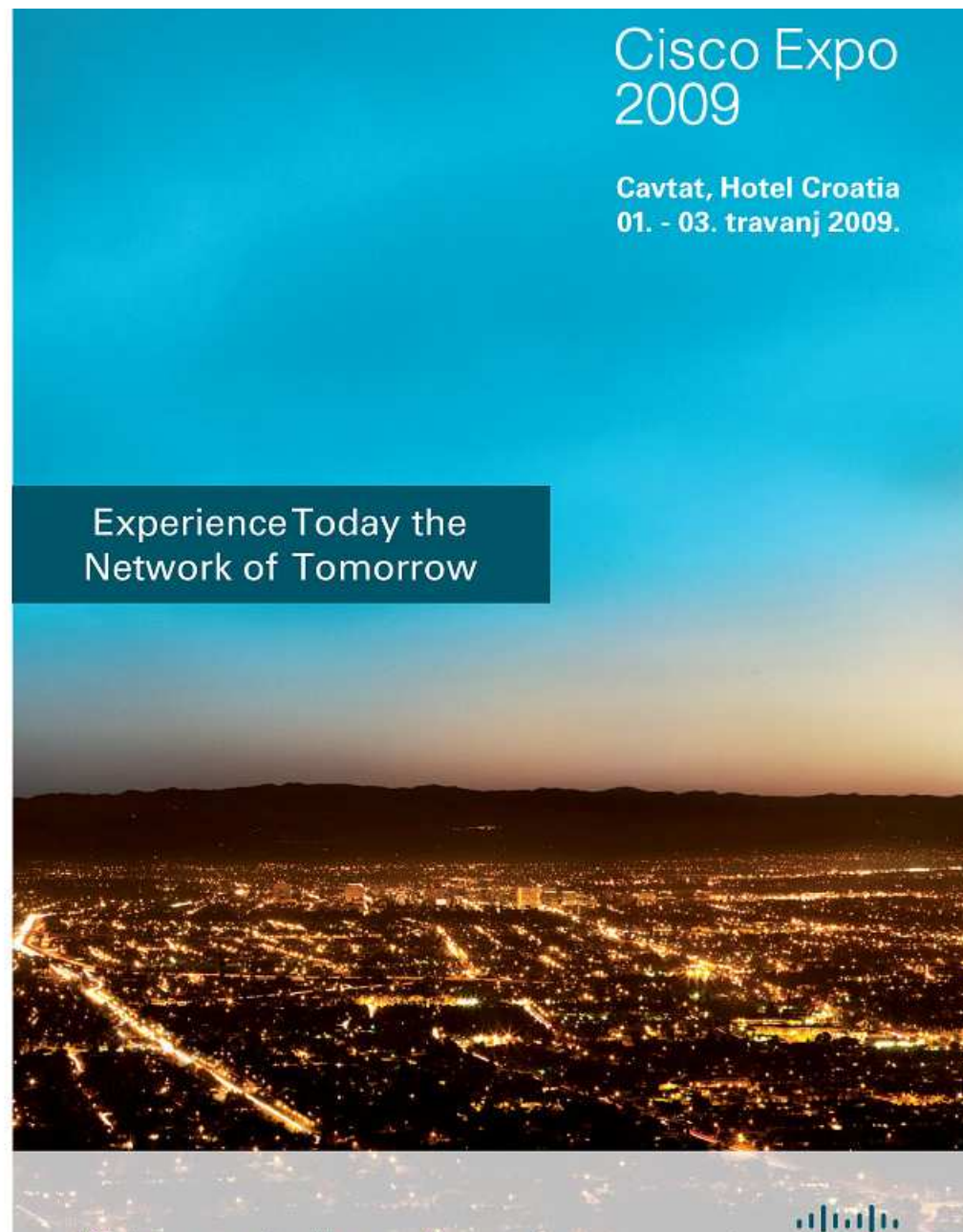




INTELIGENTNI VIDEO NADZOR PREKO IP INFRASTRUKTURE

**Vedran Mustač
RECRO-NET d.o.o.**



Sponzor konferencije



Partner digitalnog oglašavanja



Partneri konferencije



Pokrovitelji konferencije



Tehnološki sponzori



Medijski sponzori



Cisco Expo
2009

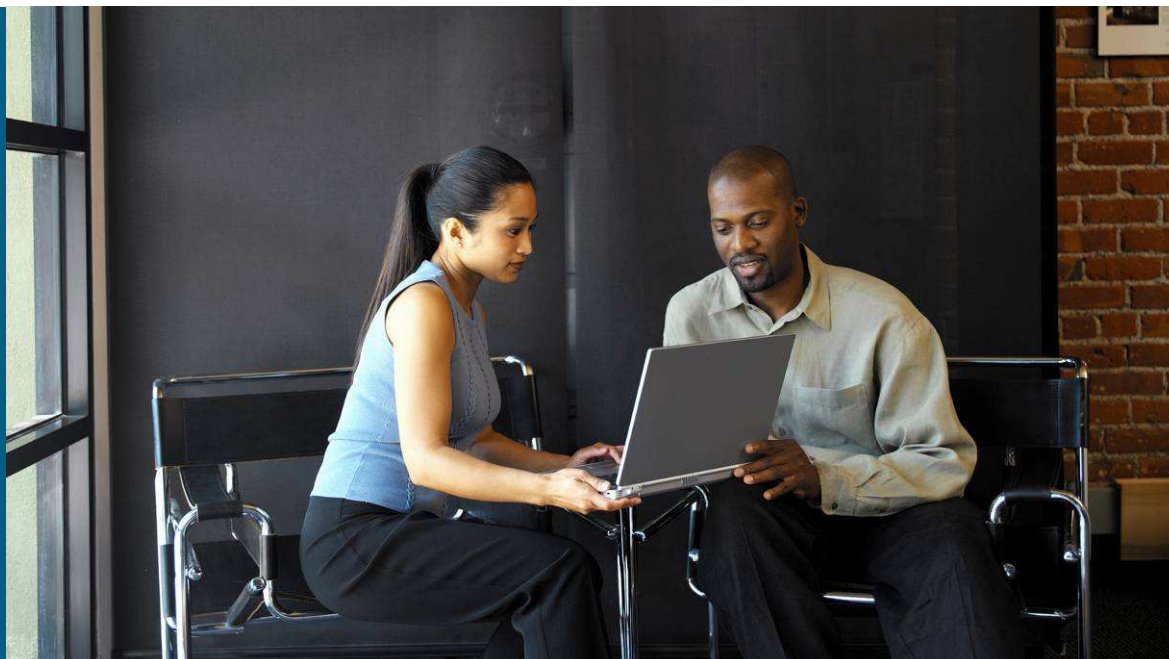
Cavtat, Hotel Croatia
01. - 03. travanj 2009.

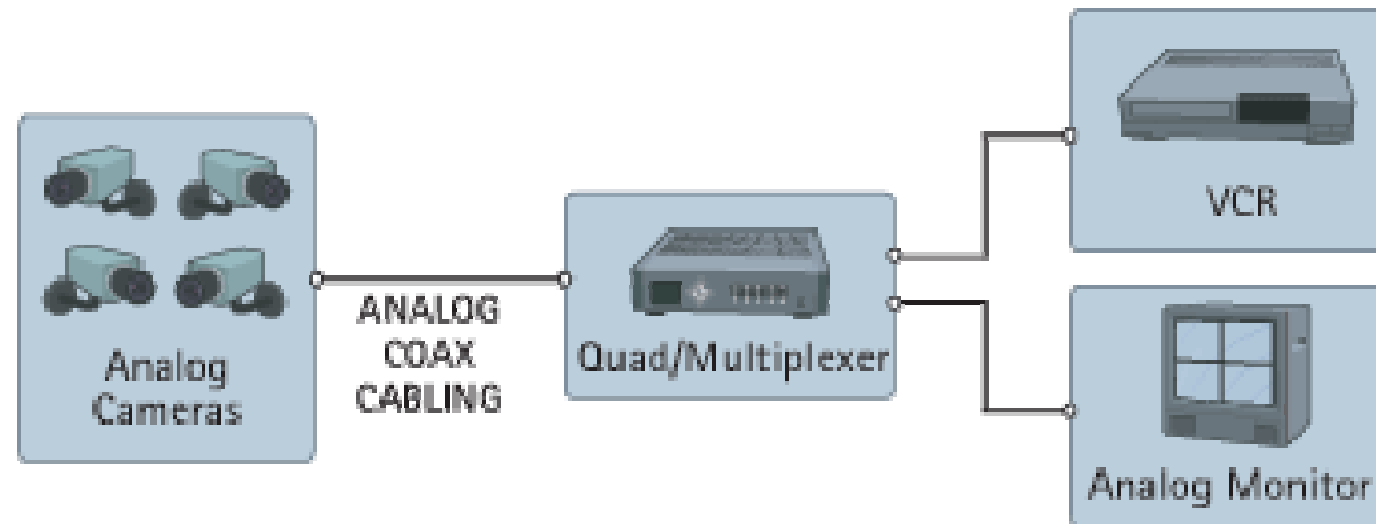
Experience Today the
Network of Tomorrow



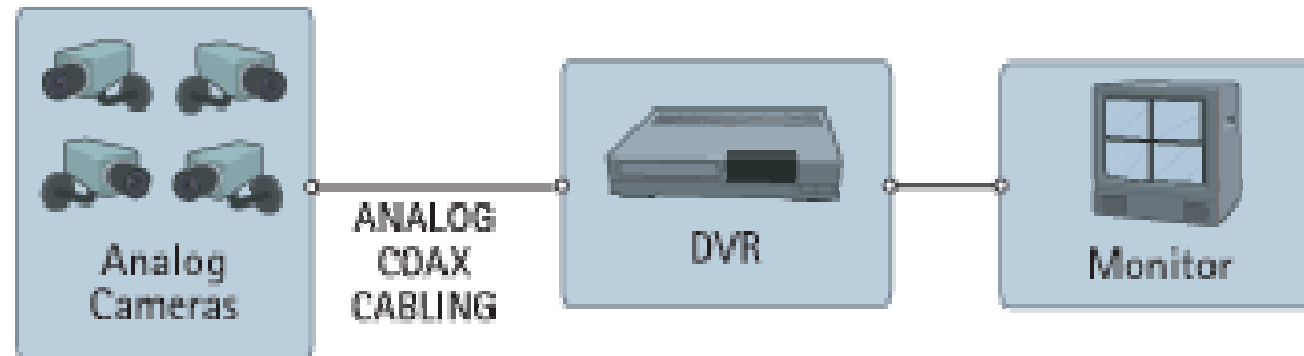
Od televizije
zatvorenog kruga

Do mrežnog video
nadzora

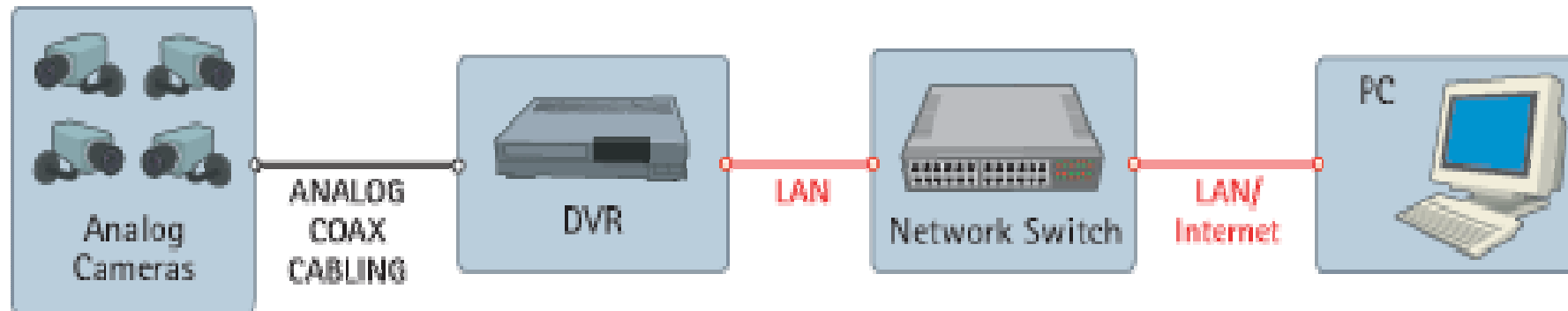




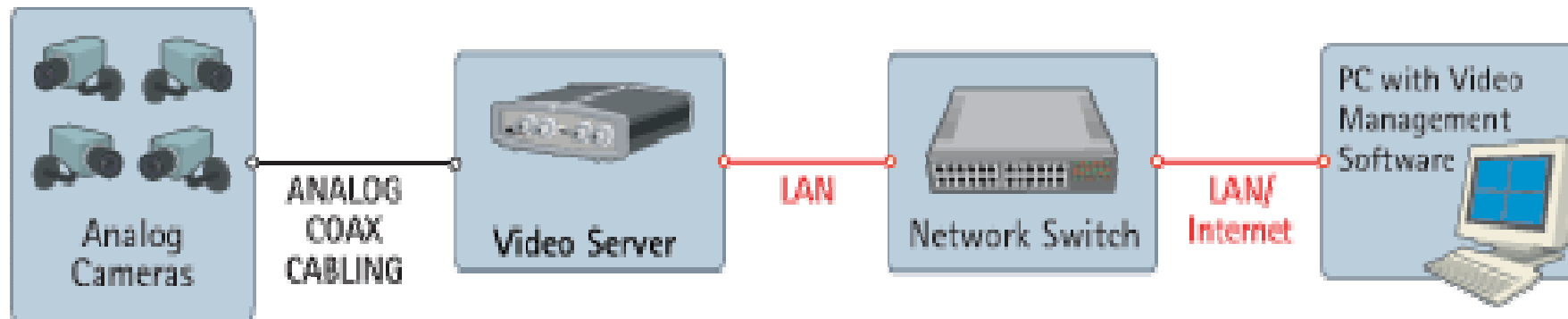
- Jednostavno presretanje videosignala (piggy back) zbog nedostatka enkripcije
- Osjetljivost analognog signala na smetnje
- Niska rezolucija analognih kamera (0.4 megapiksela)
- Dugotrajno pregledavanje snimljenog materijala niske kvalitete uz kratko trajanje arhive (VHS kazete)



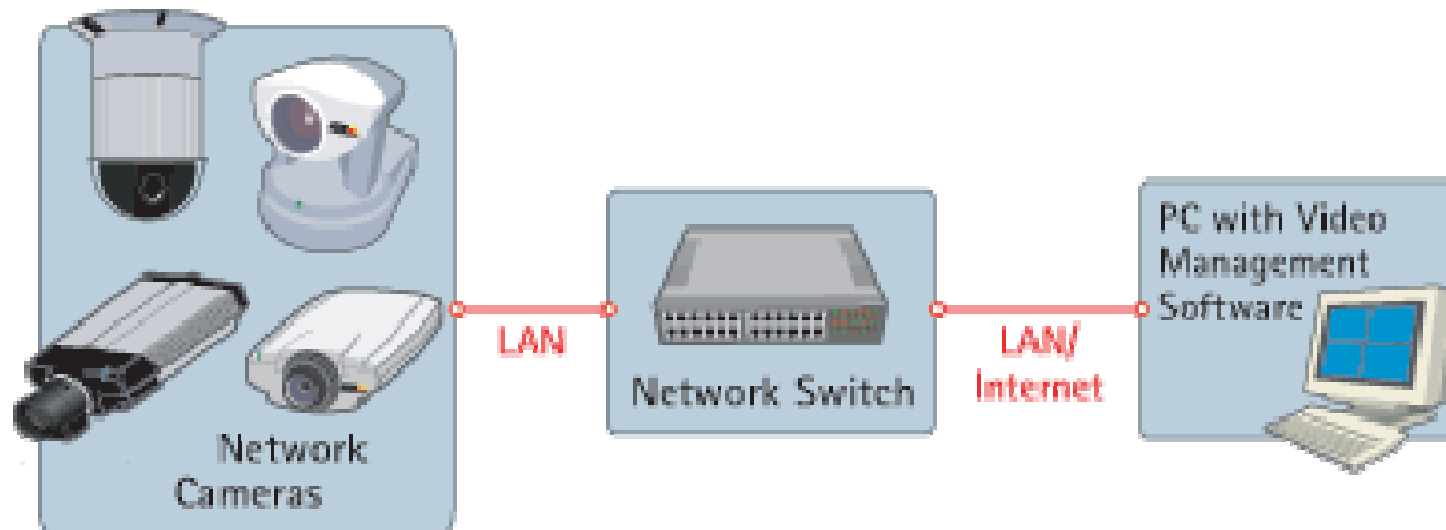
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- Dugotrajno pregledavanje snimljenog materijala niske kvalitete, **uz duže trajanje arhive i preglednije arhiviranje (diskovi)**



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- **Brže i daljinsko pregledavanje snimljenog materijala niske kvalitete, uz duže trajanje arhive i preglednije arhiviranje (diskovi)**

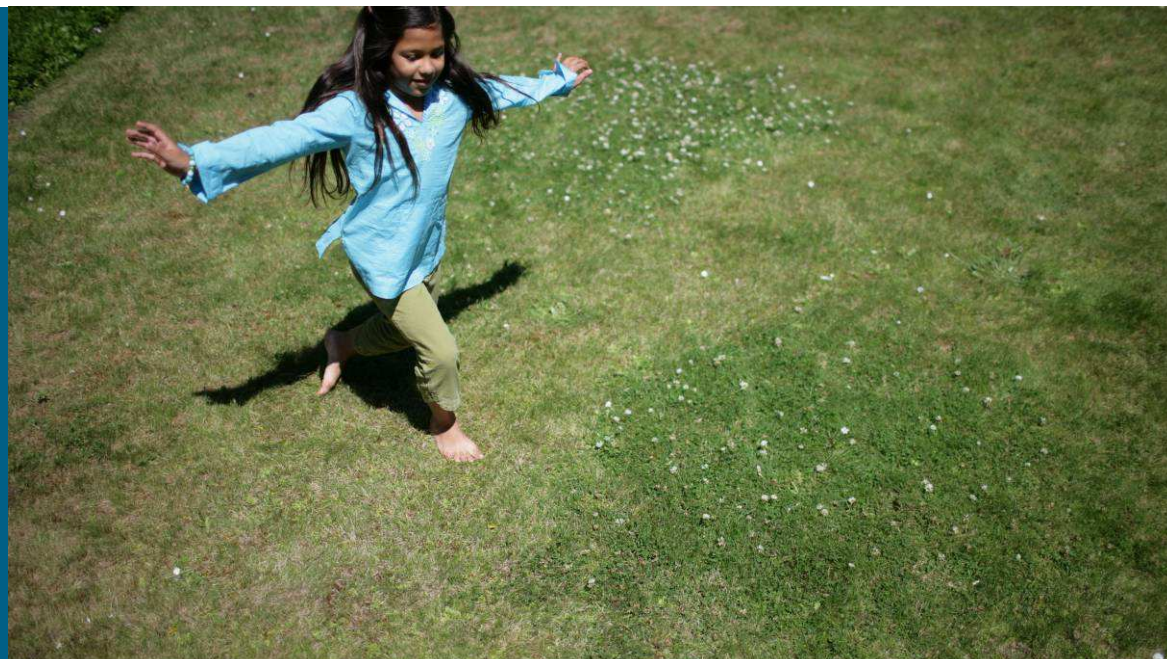


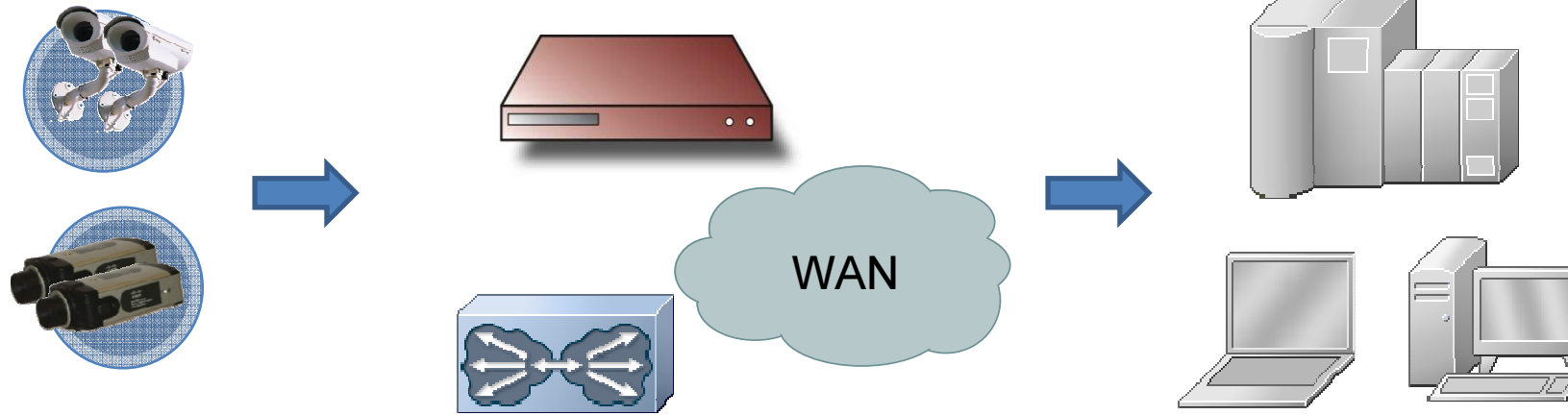
- Korištenje enkripcije pri distribuciji digitaliziranog videa, dodavanje video analitike na digitalizator
- Osjetljivost analognog signala na smetnje
- Niska rezolucija analognih kamera (0.4 megapiksela)
- Brže i daljinsko pregledavanje snimljenog materijala niske kvalitete, uz duže trajanje arhive i preglednije arhiviranje (diskovi)



- Korištenje enkripcije pri distribuciji digitaliziranog videa, detekcija i alarmiranje kod iskapčanja kamere (LAN)
- Veća otpornost na smetnje, bilježenje poremećaja i problema
- Neograničena rezolucija kamere (trenutno 0.4 – 13 megapiksela)
- Brže i daljinsko pregledavanje snimljenog materijala visoke kvalitete, uz trajanje arhive po želji i napredno pregledavanje arhive (alarm tag)

Kontrola vida video nadzora





Izvor videa

Stvaranja sirovog videa i priprema

- alarm tag
- enkripcija
- kompresija

Distribucija

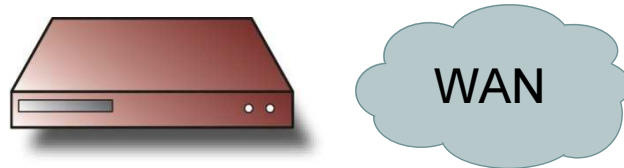
Zaštita integriteta podataka, održavanje kvalitete usluge uz očuvanje pune funkcionalnosti

Primjena

Pohrana na server, prikaz live videa, pregled snimaka, napredna video analitika



- Analogne kamere PAL (SD) rezolucije – 0.4 megapiksela, kreiranje live videa
- Digitalne kamere PAL (SD) rezolucije – 0.4 megapiksela, live video, mrežni priključak, web i FTP server, API, video analitika
- Digitalne kamere HD+ rezolucije – 1 do 13 megapiksela, live video, mrežni priključak, web i FTP server, API sučelje, složenija video analitika
- Digitalne kamere HD+ rezolucije, visoke brzine rada i specijalnog moda rada (termovizija, night vision)



- Zaštita video zapisa i upravljačkih komandi enkripcijom
- Napajanje kamera kroz mrežu (PoE)
- Optimiranje opterećenja mreže (QoS), nadogradnja postojeće mreže umjesto izgradnje zasebne mreže – crne kutije.
- Distribucija na uređaje u mobilnim mrežama (WiFi, UMTS...)
- Potpuna dislociranost elemenata zahvaljujući visokoj propusnosti mreža



- Spremanje u optimalnoj kvaliteti uz zadržavanje uporabljivosti video zapisa
- Integracija sa trećim sustavima
- Prosljeđivanje video zapisa i žive slike do korisnika sustava bilo gdje u mreži
- Označavanje snimaka zbog lakšeg pregledavanja
- Spremanje na farme diskova - skalabilnost
- Napredne interpretacije video zapisa kroz metode prikaza i video analitiku

5. generacija na mala vrata



Motion detection



Live: 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.

Recorded: 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. This can be tuned using parameters such as object size and sensitivity.

Theft detection



Live: 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.

Recorded: 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.

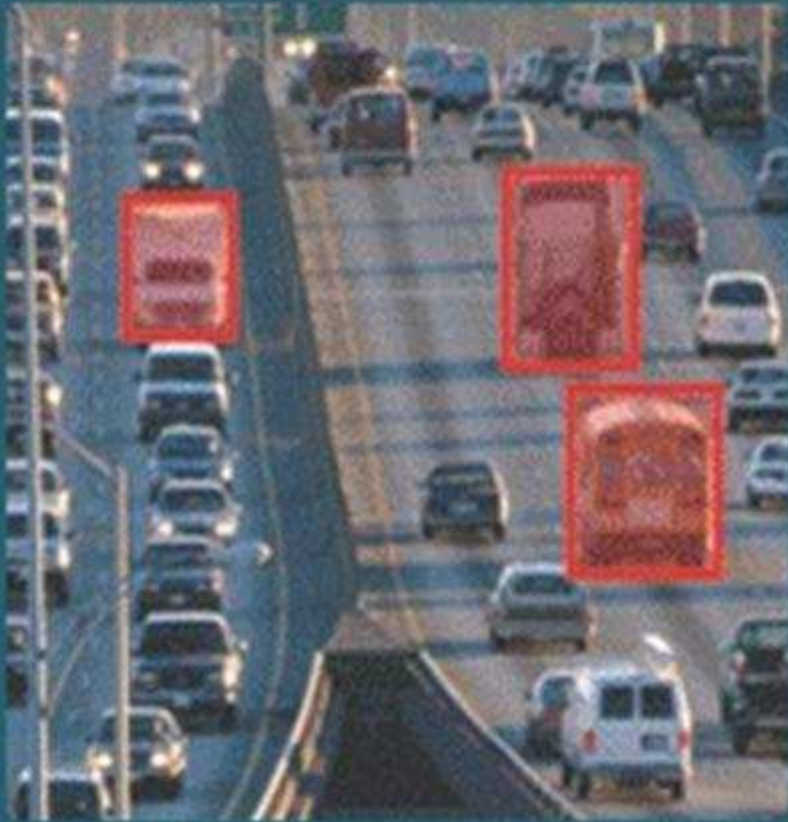
Abandoned object detection



Live: 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.

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

Shape-based detection / object tracking



Live: 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.

Recorded: 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.

Counter flow



Live: Counter flow is available to alert a user to a person or vehicle moving in an unauthorised 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.

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

Sve aplikacije koje intenzivno koriste bazu podataka:

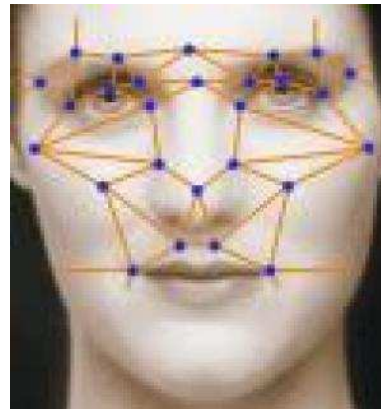
Prepoznavanje registarskih oznaka vozila



Očitavanje i dokumentiranje kontejnerskog prometa



Biometrija,
prepoznavanje lica



HVALA!

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