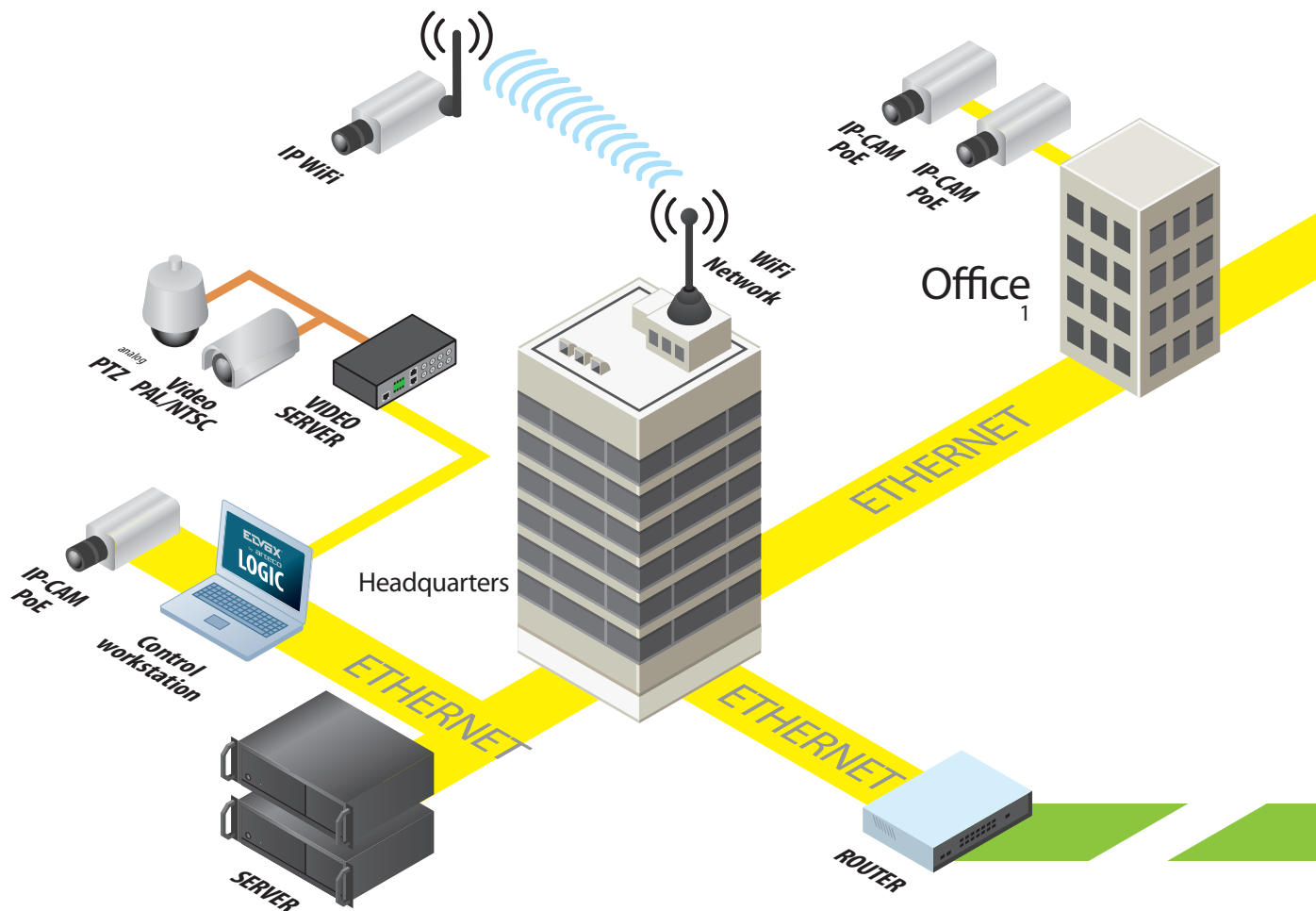# IP Systems

Active video surveillance for
digital CCTV installations

IP Systems

Active video surveillance for
digital CCTV installations

The Advantages of
IP Video Surveillance

IP WiFi

WiFi
Network

IP-CAM
PoE

IP-CAM
PoE

Office 1

analog
PTZ PAL/NTSC
Video

VIDEO
SERVER

ETHERNET

ELVOX
arteco
LOGIC

Headquarters

IP-CAM
PoE

Control
workstation

ETHERNET

ETHERNET

ROUTER

SERVER

Remote accessibility
Network cameras and video encoders can be
configured and managed remotely, enabling
multiple authorised users to view live and
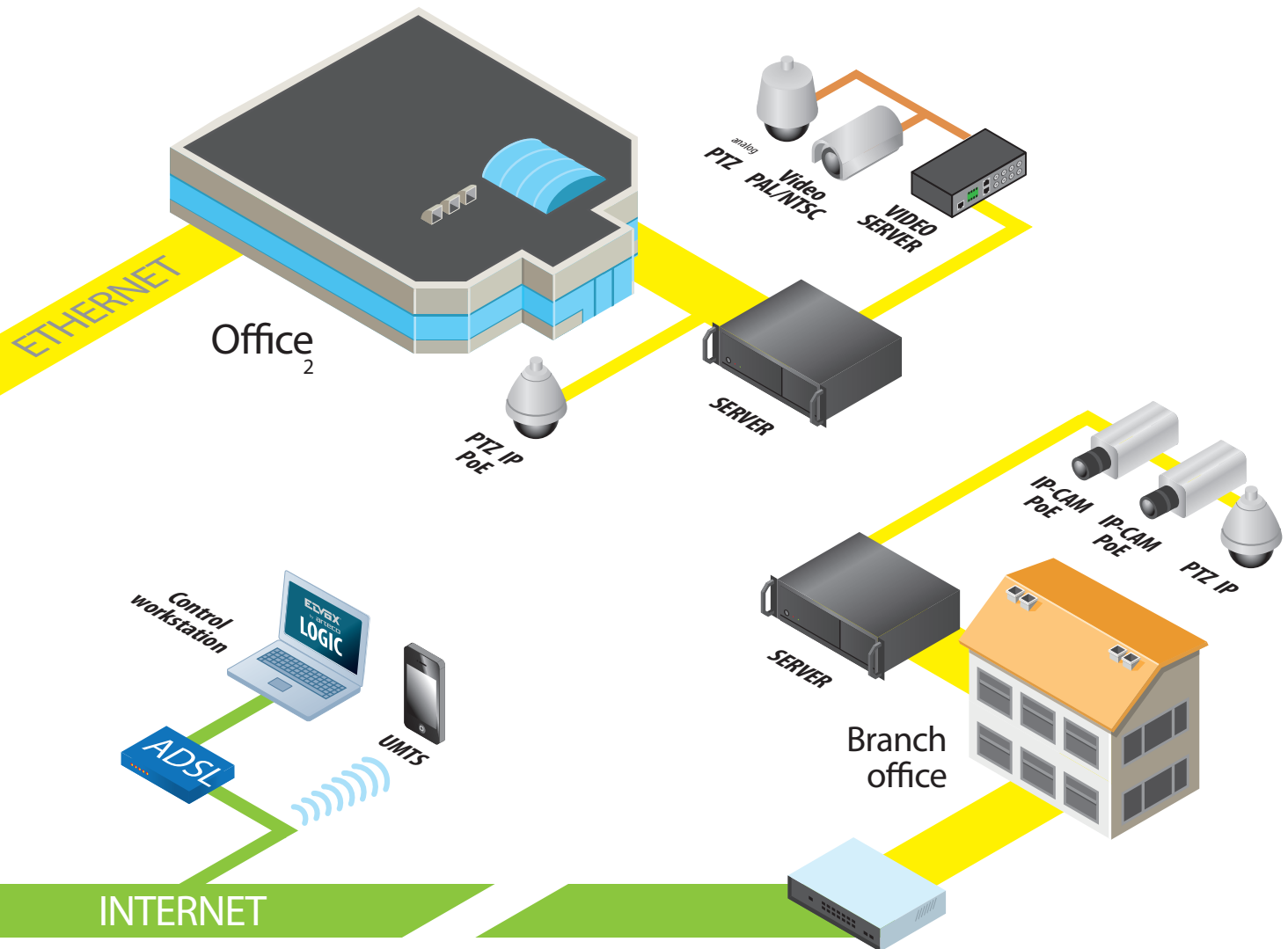recorded content at any time, from any network
location in the world.

High image quality
In video surveillance, image quality is
fundamental to acquiring clear images and
identifying people and objects. With progressive
scan technologies and IP cameras with
megapixel resolution, it is possible to deliver

better quality images at a higher resolution than
an analogue camera.

Event control and intelligent video
When there is too much recorded video material
and insufficient time to analyse it properly,
network cameras and integrated analysis can
solve this problem by reducing the amount of
uninteresting recordings and allowing the use of
programmed responses. These functionalities
are not available in an analogue system.

ELVOX

VIMAR group

ETHERNET

Office 2

PTZ PAL/NTSC analog

Video

VIDEO SERVER

PTZ IP PoE

SERVER

IP-CAM PoE

IP-CAM PoE

PTZ IP

SERVER

Branch office

Control workstation

LOGIC

ADSL

UMTS

INTERNET

Simple integration and expandability
All network video systems based on open standards can be easily integrated with: information systems with Ethernet connection, audio or security systems and other digital devices, thanks to video management software.

Scalability and flexibility
A system with IP technology can be expanded based on users' needs, enabling the addition of a large number of IP cameras and video encoders. The shared network can be wired or wireless. It is therefore possible to progressively increase the number of IP products in the system, without changing the network infrastructure.

IP Systems

Active video surveillance for
digital CCTV installations

Power supply

External power supply
12V, 80W

Joystick

Joystick for PTZ control
from PC client

Two-way

Two-way audio from
client to server

Web browser

Access with Web client
directly from Internet
browser

Centralisation

Communication of
audio, video and vehicle
position to control room

Email Audio

System sends e-mail
notifications and audio
in alarm mode

Fanless

Does not make use
of cooling fans

FPS

Compression type and
maximum frame rate

GPS

GPS antenna for
location tracking

High Availability

Redundant recording
on remote client

Hard Disk

500 GB, 1 TB

I-O

Indicates whether I/Os
are present in the server
or handled as optionals

iPhone

View images via
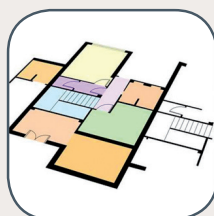smartphone including
iPhone

Wireless

On-demand remote
connection with
UMTS modem

Km/h

Maximum licence plate
recognition speed

Maps

Upload map of locality
or site in JPEG or
GIF format

Burner

Option to include a
disk burner on request

Motion

Indicates the type
of motion detector
installed in the server

Multiserver

Centralised control of multiple servers from a single workstation

Parking

Parking management function

Privacy

Privacy zone setup function

Analysis

Abandoned object control, no parking, access point counting, speed control
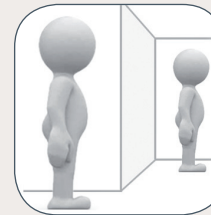
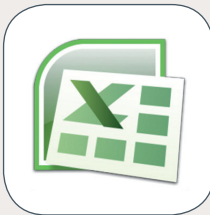## Perspective

Image perspective analysis

RAID

Memory expansion with RAID devices up to 4TB

SMS-MMS

Send SMS or MMS messages to a specified mobile phone number

SQLServer

Transfer to licence plate database compatible with Microsoft Excel

Inputs

Number of channels that can be analysed (analogue, hybrid, IP)

Gate camera

Special licence plate reading camera

Traffic

Vehicle counting, classification, wrong way detection, queue detection

Users

Indicates simultaneous connections as well as accounts

Access points

Maximum number of access points in an Elvox Gate system

O/S

Platform used by Windows XP Embedded server

300E series

Active video surveillance
for small installations
from 4 to 12 IP channels

SMALL BUSINESS

CONFIGURATION

O.S. Windows XP
Embedded

500GB
HARD DISK

UP TO
12 IP CH

Record
View
Native IP

1 CONNECTION
2 ACCOUNTS
(expandable)

MOTION
DETECTION
Small Business

Web client

Remote view via
Smartphone and
iPhone

OPTIONAL

WIRELESS KIT
On-demand connection
with UMTS modem

Advanced Privacy
Filter

JOYSTICK for
PTZ control

Multiserver
control

300E is the ideal Elvox solution for simple and efficient digital CCTV installations.
It is discreet, can be installed in a matter of minutes and is ideal for indoor
installations (public premises, retail outlets, offices, small businesses and residential
installations).

300E can receive, display and record IP video sources (cameras and video
servers), with high-tech Elvox by Arteco software for efficient and versatile image
management.
The Elvox by Arteco-Logic software interface makes it easy and intuitive to use,
enabling remote access to data and images at any time and from any location
with the multiclient facility. It allows images to be exported instantly and without
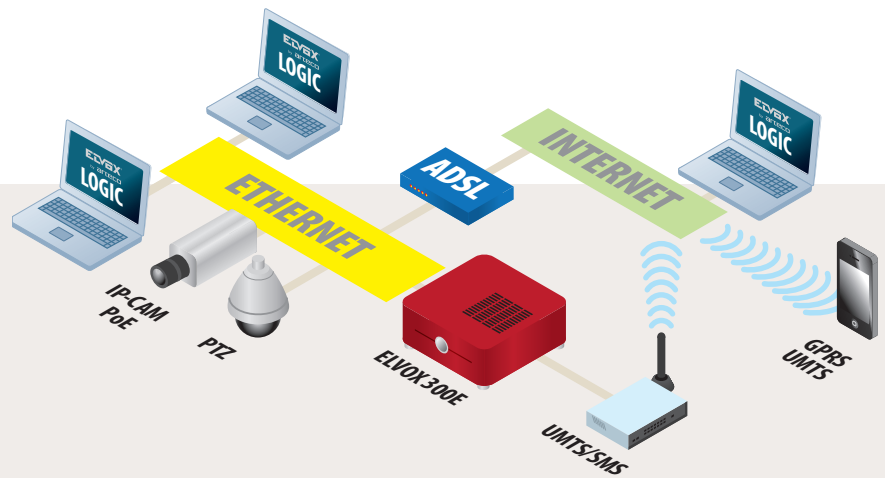compromising the security of the images themselves.

Equipped with a special wireless module, 300E is able to make images available
online even without ASDL coverage.

With its special and exclusive image blurring software module (optional), 300E
enables full compliance with applicable Privacy regulations, with password-
controlled playback of recordings in "clear" mode.

300E can handle images captured by numerous models of camera from the
leading international manufacturers.

TYPE 5253/4

Digital NVR with 4 IP video channels (500 GB HDD)

**App for iPhone
and iPad**

SPECIFICATIONS

- Supply voltage 12 VDC, power cons. 60 W
- External adapter 220/110 VAC-12 VDC
- Operating temperature 0 - 40 °C, max RH 80% n.c.
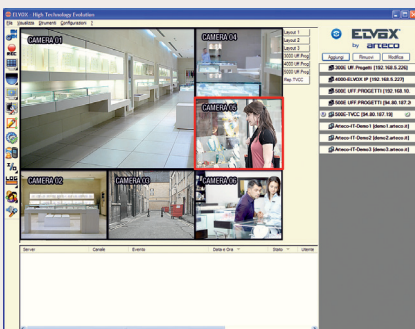- Dimensions in mm: 210 x 55 x 210 WxHxD
- Weight: 1.6 kg

SOFTWARE

- From 4 to 12 IP sources
- Operating System Windows XP Embedded
- Uniqueness of local and remote interfaces
- Simultaneous Multiserver control
- Multiclient control
- Codec video compression recording
  - Native encoding for IP cameras
- Codec video compression display
  - MJPEG software encoding
  - MPEG4 software encoding
  - Native encoding for IP cameras
- IP camera performance
  - Dependent on brand, resolution and number of sources in operation
  - Use of native protocols to achieve manufacturer's stated performance
- Motion detection
- For each channel, independent regulation of:
  - Resolution
  - Frame rate
  - Quality
  - Continuous recording with event marking
  - Pre-event queue up to 10 minutes
- Layout: up to 7x7 – Configurable layouts – digital zoom
- 5 event notification modes
  - Visual: red frame image, event logs, pop-up mode
  - Audible: WAV, MP3, PC buzzer
  - Email: HTML with photos and text
  - I/O: through integrated IP cameras
  - SMS (optional)
- PTZ control
  - Manual (optional joystick)
  - Automatic (programmable presets and sequences)

- 3 different levels of user rights
  - User, Power User, Administrator
- Access licences for Elvox by Arteco-Logic or Elvox by Arteco-Mobile
  - 1 connection, 2 user accounts
  - optional upgrade

HARDWARE

- 500GB HDD
- 2 PS/2 ports
- 4 USB 2.0 ports
- 1 VGA output
- 1 1GB Ethernet port
- 1 2.5 mm audio jack output
- 1 2.5 mm microphone input
- 12 V power supply connector

400E series

Active video surveillance for small
and medium installations
Up to 4 analogue channels
Up to 12 IP channels

PROFESSIONAL

CONFIGURATION

O.S. Windows XP
Embedded

500GB
HARD DISK

UP TO 8
ANALOGUE CH
12 IP CH

25FPS
4CIF (analogue)
Megapixel (IP)

2 CONNECTIONS
2 ACCOUNTS
(expandable)

MOTION
DETECTION
Professional

PRIVACY FILTER

View via PDA

Web client

Multiserver
control

Compact and powerful, 400E can analyse up to 8 analogue channels or
12 IP channels, with Active Video Surveillance functions.

Each 400E can receive and record analogue or IP sources, analysing images
simultaneously and minimising redundant event signalling.

The powerful analysis functions enable the 400E to track the movement of objects
(e.g. people and vehicles) to detect in a reliable way whether a certain area has
been violated.

With its special and exclusive image blurring software module, 400E enables full
compliance with applicable Privacy regulations, with password-controlled playback
of recordings in "clear" mode.

Remote recording and playback at 25 FPS and 4-CIF resolution thanks to powerful
H264 hardware compression cards on all analogue video channels.

Remote recording and playback at 25 FPS and megapixel resolution with
compatible IP cameras (MJPEG - MPEG4 - H264 - MxPEG).

Expandable and flexible: multiple 400E units can be integrated and controlled from
a single computer equipped with the Elvox by Arteco-Logic application.
When installed on a computer, the Elvox by Arteco-Logic software application gives
local and remote control over all functions.

400E can handle images captured by numerous models of camera from the
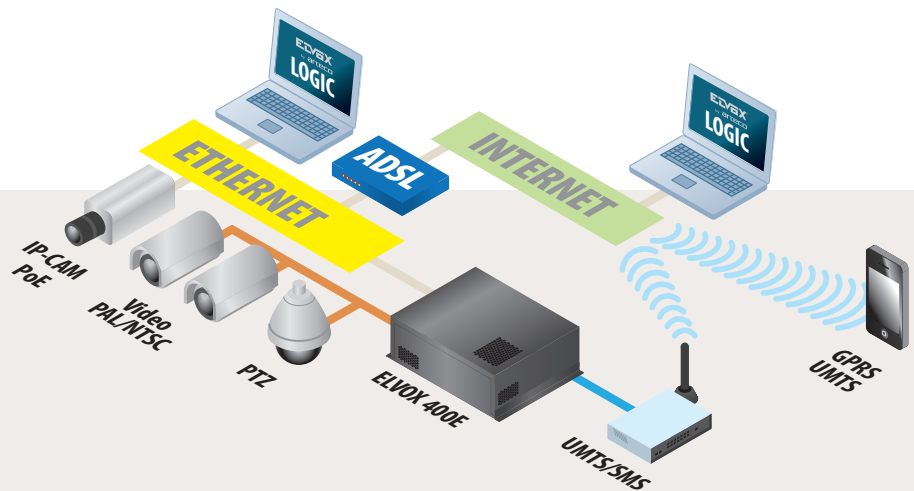leading international manufacturers.

OPTIONAL

WIRELESS KIT
On-demand connection
with UMTS modem

MAPS
PLUG-IN

MOTION
DETECTION
ENTERPRISE

Hardware I/Os
Logical I/Os

JOYSTICK for
PTZ control

Perspective

TYPE 5254/A4
Digital DVR with 4 analogue video channels (500GB HDD)
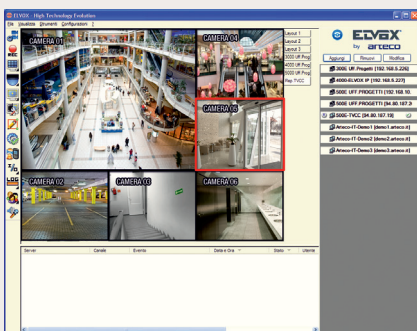
ART. 5254/A8
Digital DVR with 8 analogue video channels (500GB HDD)

ART. 5254/4
Digital NVR with 4 IP video channels (500GB HDD)

App for iPhone and iPad

SPECIFICATIONS

- Supply voltage 110 - 230 VAC, 50 - 60 Hz, power cons. 100 W
- Operating temperature 0 - 40 °C, max RH 80% n.c.
- Dimensions in mm: 340 x 100 x 225 WxHxD
- Weight: 5 kg

SOFTWARE

- Operating System Windows Embedded
- Operating System partition write protection (optional)
- Uniqueness of local and remote interfaces
- Codec video compression recording
  - H264 hardware encoding
  - Native encoding for IP cameras
- Codec video compression display
  - H264 hardware encoding
  - MJPEG software encoding
  - MPEG4 software encoding
  - Native encoding for IP cameras
- Max display frame rate
  - Analogue channel: up to 25 FPS @ 704 x 576 (4CIF)
  - IP channel: compatible with megapixel full-frame resolution
- Max recording frame rate
  - Analogue channel: up to 25 FPS @ 704 x 576 (4CIF)
  - IP channel: compatible with megapixel full-frame resolution
  - Certification on non-manipulation of recorded images
- Network transmission rate (352x288@10FPS, quality 75%):
  - 60 Kbps for static images
  - 180 Kbps for moving images
- 14 independent filters for each video channel to minimise redundant events
- Simple mode to adjust sensitivity
- Logical I/Os for PTZ tilt on event (optional)
- For each channel, independent regulation of:
  - Resolution
  - Frame rate
  - Quality
  - Continuous and event recording
  - Pre-event queue up to 10 minutes
- Layout: up to 7x7 – Configurable layouts – digital zoom

- 5 event notification modes
  - Visual: red frame image, event logs, pop-up mode
  - Audible: WAV, MP3, PC buzzer
  - Email: HTML with photos and text
  - I/O: through integrated IP cameras
  - SMS (optional)
- Manual and automatic PTZ control
- 3 different levels of user rights
  - User, Power User, Administrator
- Access licences for Elvox by Arteco-Logic or Elvox by Arteco-Mobile
  - 2 connections, 2 user accounts
  - optional upgrade

HARDWARE

- 4-8 analogue video inputs (PAL/NTSC) or up to 12 IP sources
- Dedicated hardware with H264 compression board
- 500 GB hard disk capacity
- Internal digital I/Os (optional):
  - 4 inputs 0 - 12 VDC
  - 4 outputs NO/NC, 1 A @ 24 VDC
- External digital I/Os, up to 31 modules of 8 I/Os:
  - 8 inputs 0 - 12 VDC (optional)
  - 8 outputs NO/NC, 1 A @ 30 VDC, 0.5 A @ 250 VAC (optional)
- Software on Compact Flash
- 2 PS/2 ports for mouse and keyboard
- 2 USB 2.0 ports
- 9-pin RS-422/485 half duplex port for PTZ control (optional)
- 1 25-pin LPT port
- 1 RS232 port
- 9-pin RS232 port for optional external serial I/O modules
- 1 VGA output
- 1 100 Mbps Ethernet port
- 1 2.5 mm audio jack output
- 1 2.5 mm microphone input

600E series

Active video surveillance for medium and large installations
Up to 32 analogue channels up to 72 IP channels

PROFESSIONAL

CONFIGURATION

O.S. Windows XP Embedded

500GB HARD DISK

UP TO 8 ANALOGUE CH 12 IP CH

25FPS 4CIF (analogue) Megapixel (IP)

2 CONNECTION 2 ACCOUNTS (expandable)
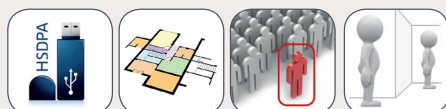
MOTION DETECTION Professional

PRIVACY FILTER

View via PDA

Web client

Multiserver control

OPTIONAL

WIRELESS KIT On-demand connection with UMTS modem

MAPS PLUG-IN

MOTION DETECTION ENTERPRISE

Perspective

Hardware I/Os Logical I/Os

JOYSTICK for PTZ control

4 TB RAID-5 (2 +2 TB – hot swap)

DVD burner

Able to analyse up to 32 analogue video sources or 72 IP sources, 600E is the industrial video surveillance device in 19" rack format with Active event notification. Instantly receiving these signals, users can display live images and corresponding recordings in real time.

The powerful analysis functions enable the 600E to identify the movement of objects (e.g. people and vehicles) to detect in a reliable way whether a certain area has been violated.

With its special and exclusive image blurring software module, 600E enables full compliance with applicable Privacy regulations, with password-controlled playback of recordings in "clear" mode.

Remote recording and playback at 25FPS and 4CIF resolution with H264 hardware compression available on all channels.
Remote recording and playback at 25 FPS and Megapixel Resolution with compatible IP cameras (MJPEG - MPEG4 - H264 - MxPEG).

Expandable and flexible: multiple 600E units can be integrated and controlled from a single workstation using our Elvox by Arteco-Logic management software. This software can be installed on multiple workstations to enable simultaneous control by multiple operators.

Stringent testing and solid construction make the 600E the ideal product to withstand even the most critical environmental conditions. 600E is equipped with robust filtering functions to limit redundant signalling.

600E can handle images captured by numerous models of camera from the leading international manufacturers.

TYPE 5286/A8
Digital NVR with 8 analogue video channels (1TB HDD)
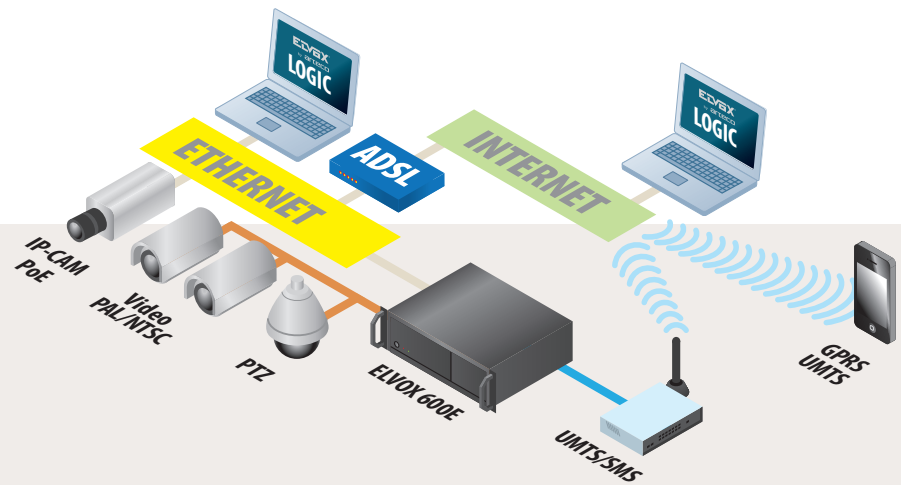
TYPE 5286/A16
Digital NVR with 16 analogue video channels (1TB HDD)
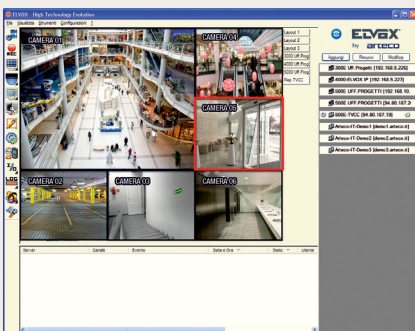
TYPE 5286/A32
Digital DVR with 32 analogue video channels (1TB HDD)

TYPE 5286/8
Digital NVR with 8 IP video channels (1TB HDD)

ELVOX
VIMAR group

App for iPhone
and iPad

SPECIFICATIONS

- Supply voltage 220 VAC, 50Hz, power cons. 120 W
- Operating temperature 0 - 40 °C, max RH 80% n.c.
- Dimensions in mm: 425 x 170 x 480 WxHxD
- Handles front +30 mm
- RAID depth + 60 mm
- Weight: 16.7 kg

SOFTWARE

- Operating System Windows Embedded
- Operating System partition write protection (optional)
- Uniqueness of local and remote interfaces
- Codec video compression recording
  - H264 hardware encoding
  - Native encoding for IP cameras
- Codec video compression display
  - H264 hardware encoding
  - MJPEG software encoding
  - MPEG4 software encoding
  - Native encoding for IP cameras
- Max display frame rate
  - Analogue channel: up to 25 FPS @ 704 x 576 (4CIF)
  - IP channel: compatible with megapixel full-frame resolution
- Max recording frame rate
  - Analogue channel: up to 25 FPS @ 704 x 576 (4CIF)
  - IP channel: compatible with megapixel full-frame resolution
  - Certification on non-manipulation of recorded images
- Network transmission rate (352x288@10FPS and quality 75%):
  - 60 Kbps for static images
  - 180 Kbps for moving images
- 14 independent filters for each video channel to minimise redundant events
- Simple mode to adjust sensitivity
- Logical I/Os for PTZ tilt on event (optional)
- For each channel, independent regulation of:
  - Resolution
  - Frame rate
  - Quality
  - Continuous and event recording
  - Pre-event queue up to 10 minutes
  - Layout: up to 7x7 – Configurable layouts – digital zoom

- 5 event notification modes
  - Visual: red frame image, event logs, pop-up mode
  - Audible: WAV, MP3, PC buzzer
  - Email: HTML with photos and text
  - I/O: through integrated IP cameras
  - SMS (optional)
- Manual and automatic PTZ control
- 3 different levels of user rights
  - User, Power User, Administrator
- Access licences for Elvox by Arteco-Logic or Elvox by Arteco-Mobile
  - 2 connections, 2 user accounts
  - optional upgrade

HARDWARE

- 8-16-32 analogue video inputs (PAL/NTSC) or up to 72 IP sources
- Dedicated hardware with H264 compression board
- 1 TB hard disk capacity (expandable) RAID 5 optional
- Internal digital I/Os (optional):
  - 4 inputs 0 - 12 VDC
  - 4 outputs NO/NC, 1 A @ 24 VDC
- External digital I/O, up to 31 modules of 8 I/O:
  - 8 inputs 0 - 12 VDC (optional)
  - 8 outputs NO/NC, 1 A @ 30 VDC, 0.5 A @ 250 VAC (optional)
- Software on Compact Flash
- DVD burner (optional)
- (x2) PS/2 ports for mouse and keyboard
- (x6) USB 2.0 ports (2 front and 4 rear)
- 9-pin RS-422/485 half duplex port for PTZ control
- 9-pin RS232 port for optional external serial I/O modules
- 25-pin LPT port
- VGA output
- 1 Gbps Ethernet port
- 2.5 mm audio jack output
- 2.5 mm microphone input

500E series

Active video surveillance for small
and medium installations
Up to 8 hybrid channels
Up to 16 IP channels

ENTERPRISE

CONFIGURATION

O.S. Windows XP
Embedded

500GB
HARD DISK

UP TO 8
ANALOGUE CH
12 IP CH

25FPS
4CIF (analogue)
Megapixel (IP)

MOTION
DETECTION
Professional

2 CONNECTION
2 ACCOUNTS
(expandable)

PRIVACY FILTER

View via PDA

4 hardware I/Os
Logical I/Os

PERSPECTIVE

MAPS PLUG-IN

Web client

Multiserver
control

Compact and powerful, 500E can simultaneously analyse up to 8 hybrid channels
or 16 IP channels, minimising redundant event signalling.

Remote recording and playback at 25FPS and 4CIF resolution with H264 hardware
compression on all analogue video channels.
Remote recording and playback at 25 FPS and Megapixel Resolution with
compatible IP cameras (MPEG - MPEG4 - H264 - MxPEG).

500E is offered with an advanced analytics configuration for reliable motion event
detection thanks to the "Violated Area" control and the numerous included filters,
including perspective correction.

With its special and exclusive image blurring software module, 500E enables full
compliance with applicable Privacy regulations, with password-controlled playback
of recordings in "clear" mode.

Expandable and flexible: multiple 500E units can be integrated and controlled from
a single computer equipped with the Elvox by Arteco-Logic application, which can
be installed on a computer to allow local and remote control of all functions. Using
a second monitor it is possible to view interactive maps of installed cameras.

500E can handle images captured by numerous models of camera from the
leading international manufacturers.

OPTIONAL

WIRELESS KIT
On-demand connection
with UMTS modem

JOYSTICK for
PTZ control

TRAFFIC PLUG-IN
Vehicle counting -
Classification - Queue
detection - Wrong way
detection

High Availability

PRO PLUG-IN
Abandoned object - No parking - Access
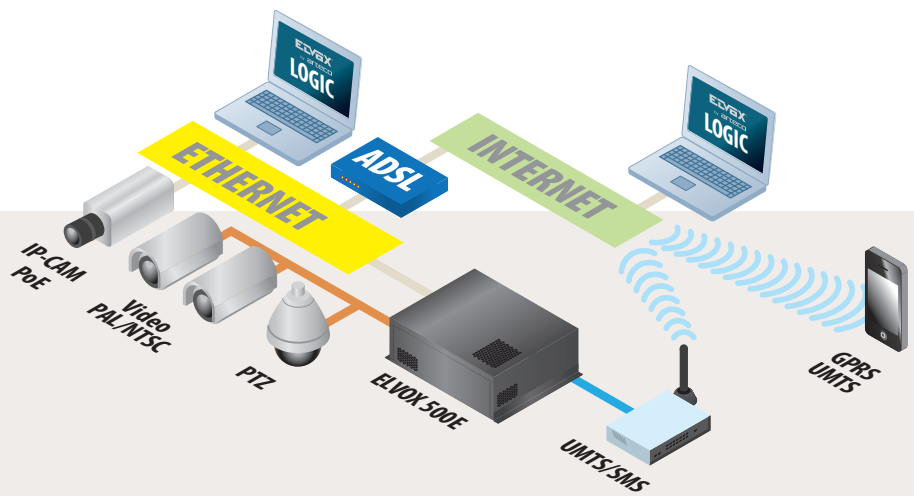point counting - Speed control

TYPE 5255/I4
Digital NDVR with 4 hybrid video channels (500GB HDD)
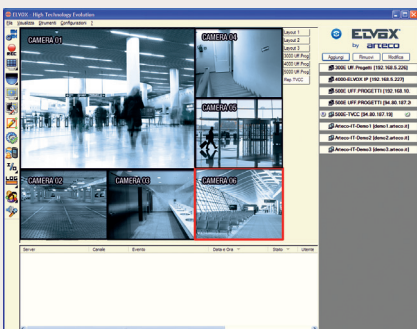
TYPE 5255/I8
Digital NDVR with 8 hybrid video channels (500GB HDD)

TYPE 5255/4
Digital NVR with 4 IP video channels (500GB HDD)

App for iPhone
and iPad

SOFTWARE

- Operating System Windows Embedded
- O.S. partition write protection (optional)
- Uniqueness of local and remote interfaces
- Codec image compression recording and display
  - H264 hardware encoding
  - MJPEG software encoding
  - MPEG4 software encoding
  - Native encoding for IP cameras
- Total display frame rate for 16 channels
  - Analogue channel: up to 25 FPS @ 704 x 576 (4CIF)
  - IP channel: compatible with megapixel full-frame resolution
- Total recording frame rate for 16 channels
  - Analogue channel: up to 25 FPS @ 704 x 576 (4CIF)
  - IP channel: compatible with megapixel full-frame resolution
  - Certification on non-manipulation of recorded images
- Network transmission rate (352x288@10FPS, quality 75%):
  - 60 Kbps for static images
  - 180 Kbps for moving images
- 18 independent filters for each video channel to minimise redundant events
- High Availability (optional)
- Simple and Advanced mode to adjust sensitivity
- Logical I/Os for PTZ tilt on event
- Perspective correction
- Interactive maps
- For each channel, independent regulation of:
  - Resolution
  - Frame rate
  - Quality
  - Continuous and/or event recording- Pre-event queue up to 10 minutes

- Layout: up to 7x7 – Configurable layouts – digital zoom
- 5 event notification modes
  - Visual: red frame image, event logs, pop-up mode
  - Audible: WAV, MP3, PC buzzer
  - Email: HTML with photos and text
  - I/O: through integrated IP cameras
  - SMS (optional)
- Manual or automatic PTZ control
- 3 different levels of user rights
  - User, Power User, Administrator
- Access licences for Arteco-Logic or Arteco-Mobile
  - 4 connections, 4 user accounts
  - optional upgrade

HARDWARE

- 4-8 hybrid channels (PAL, NTSC or IP), up to 16 IP-only channels
- Dedicated hardware with H264 compression board
- Hard disk capacity: 500 GB (expandable)
- Internal digital I/Os:
  - 4 inputs 0 - 12 VDC
  - 4 outputs NO/NC, 1 A @ 24 VDC
- External digital I/O, up to 31 modules of 8 I/O:
  - 8 inputs 0 - 12 VDC (optional)
  - 8 outputs NO/NC, 1 A @ 30 VDC, 0.5 A @ 250 VAC (optional)
- Software on Compact Flash
- (x2) PS/2 ports for mouse and keyboard
- (x4) USB 2.0 ports
- 9-pin RS-422/485 half duplex port for PTZ control
- 9-pin RS232 port for optional external serial I/O modules
- 25-pin LPT port
- VGA output
- 1 Gbps Ethernet port
- 2.5 mm audio jack output
- 2.5 mm microphone input

SPECIFICATIONS

- Supply voltage 220 VAC, 50 Hz, power cons. 80 W
- Operating temperature 0 - 40 °C, max RH 80% n.c.
- Dimensions in mm: 85 x 360 x 290 WxHxD
- Weight: 5.2 kg

700E series

Active video surveillance for
large installations
Up to 32 hybrid channels
Up to 72 IP channels

ENTERPRISE

CONFIGURATION

O.S. Windows XP Embedded

500GB HARD DISK

UP TO 8 ANALOGUE CH 12 IP CH

25FPS 4CIF (analogue) Megapixel (IP)

MOTION DETECTION Professional

2 CONNECTION 2 ACCOUNTS (expandable)

PRIVACY FILTER

View via PDA

4 hardware I/Os Logical I/Os

PERSPECTIVE

MAPS PLUG-IN

Web client

Multiserver control

Able to analyse up to 72 analogue video sources or 32 IP sources, 700E is the industrial video surveillance device in 19" rack format with Active event notification to users. Instantly receiving these signals, they can display live images and corresponding recordings in real time.

700E is offered with an advanced analytics configuration for reliable motion event detection thanks to the "Violated Area" control and the numerous included filters, including perspective correction.

With its special and exclusive image blurring software module, 700E enables full compliance with applicable Privacy regulations, with password-controlled playback of recordings in "clear" mode. Includes option of inserting blurred ares for privacy purposes, which can subsequently be removed by authorised users.

Remote recording and playback at 25FPS, 4CIF resolution with H264 hardware compression for each analogue channel.
Remote recording and playback at 25 FPS and Megapixel Resolution with compatible IP cameras (MJPEG - MPEG4 - H264 - MxPEG).
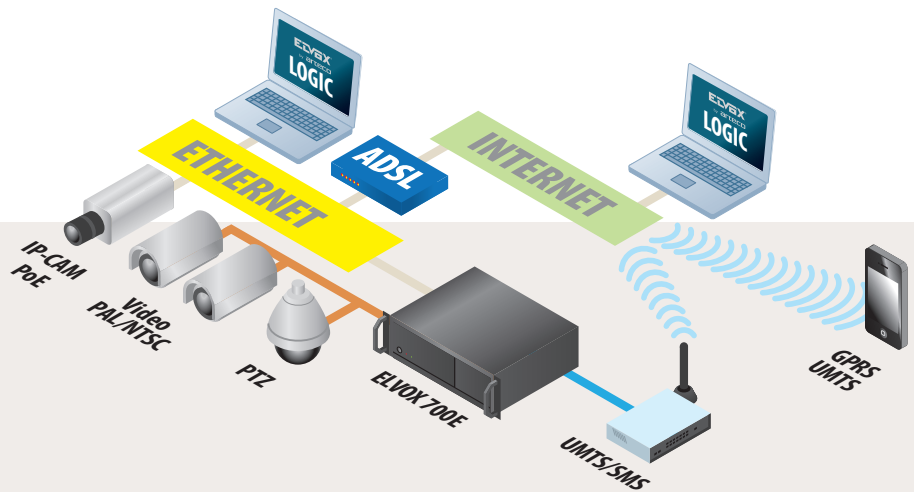
Expandable and flexible: multiple 700E units can be integrated and controlled from a single workstation using our Elvox by Arteco-Logic management software, which can be installed on multiple workstations to enable simultaneous control by multiple operators.
Stringent testing and solid construction make the 700E the ideal product to withstand even the most critical environmental conditions.
700E can handle images captured by numerous models of camera from the leading international manufacturers.

OPTIONAL

WIRELESS KIT On-demand connection with UMTS modem

JOYSTICK for PTZ control

TRAFFIC PLUG-IN Vehicle counting - Classification - Queue detection - Wrong way detection

High Availability

4 TB RAID-5 (2 +2 TB – hot swap)

DVD burner

PRO PLUG-IN Abandoned object - No parking - Access point counting - Speed control

TYPE 5287/I8
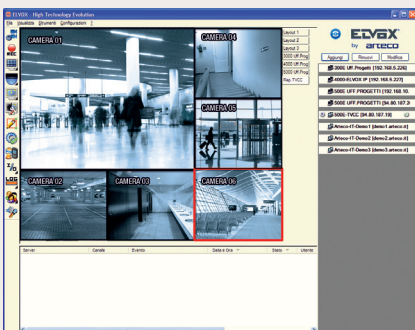Digital NDVR with 8 hybrid video channels (1 TB HDD)

TYPE 5287/I16
Digital NDVR with 16 hybrid video channels (1 TB HDD)

TYPE 5287/I32
Digital NDVR with 32 hybrid video channels (1 TB HDD)

TYPE 5287/8
Digital NVR with 16 IP video channels (1 TB HDD)

App for iPhone
and iPad

SPECIFICATION

- Supply voltage 220 VAC, 50 Hz, power cons. 120 W
- Operating temperature 0 - 40 °C, max RH 80% n.c.
- Dimensions in mm: 425 x 480 x 170 WxHxD
- Handles front +30 mm
- RAID depth + 60 mm
- Weight: 16.7 Kg

SOFTWARE

- Operating System Windows XP Embedded
- O.S. partition write protection (optional)
- Desktop protected for User
- Uniqueness of local and remote interfaces
- Codec image compression recording and display
  - H264 hardware encoding
  - MJPEG/MPEG4 software encoding
  - Native encoding for IP cameras
- Total display frame rate for 32 channels
  - Analogue channel: up to 25 FPS @ 704 x 576 (4CIF)
  - IP channel: compatible with megapixel full-frame resolution
- Total recording frame rate for 32 channels
  - Analogue channel: up to 25 FPS @ 704 x 576 (4CIF)
  - IP channel: compatible with megapixel full-frame resolution
  - Certification on non-manipulation of recorded images
- Network transmission rate (352x288@10FPS and quality 75%):
  - 60 Kbps for static images
  - 180 Kbps for moving images
- 18 independent filters for each video channel to minimise redundant events
- High Availability (optional)
- Simple and Advanced mode to adjust sensitivity
- Logical I/Os for PTZ tilt on event
- Perspective correction
- Interactive maps
- For each channel, independent regulation of:
  - Resolution
  - Frame rate
  - Quality
  - Continuous and/or event recording
  - Pre-event queue up to 10 minutes
- Layout: up to 7x7 – Configurable layouts – digital zoom

- 5 event notification modes
  - Visual: red frame image, event logs, pop-up mode
  - Audible: WAV, MP3, PC buzzer
  - Email: HTML with photos and text
  - I/O: through integrated IP cameras
  - SMS (optional)
- Manual or automatic PTZ control
- 3 different levels of user rights
  - User, Power User, Administrator
- Access licences for Arteco-Logic or Arteco-Mobile
  - 4 connections, 4 user accounts
  - optional upgrade

HARDWARE

- 8-16-32 hybrid channels (PAL/NTSC/IP) or up to 72 IP-only channels
- Dedicated hardware with H264 compression
- Hard disk capacity: 1 TB (expandable) RAID5 optional
- Internal digital I/Os:
  - 4 inputs 0 - 12 VDC
  - 4 outputs NO/NC, 1 A @ 24 VDC
- External digital I/O, up to 31 modules of 8 I/O:
  - 8 inputs 0 - 12 VDC (optional)
  - 8 outputs NO/NC, 1 A @ 30 VDC, 0.5 A @ 250 VAC (optional)
- Software on Compact Flash
- DVD burner (optional)
- (x2) PS/2 ports for mouse and keyboard
- (x6) USB 2.0 ports (2 front and 4 rear)
- 9-pin RS-422/485 half duplex port for PTZ control
- 9-pin RS232 port for optional external serial I/O modules
- VGA output
- 1 Gbps Ethernet port
- 2.5 mm audio jack output
- 2.5 mm microphone input

GATE series

Customisable and scalable licence plate reading system based on web client

CONFIGURATION

O.S. Windows XP Embedded

From 1 to 4 access points

Multiserver control

Instant email or audible notifications

Web client

Licence plate reading up to 250 km/h without trigger

Parking Management

EXCEL compatible

OPTIONAL

Special licence plate reading camera

SMS notification

Special camera for reading licence plates in any lighting conditions, dedicated to the Elvox Gate series, 1/3" Sony Exview sensor, 570 TV lines, infrared frequency 850 Nm, infrared pulse frequency 2,000 W, protection rating IP65, supply voltage 20 - 36 VDC or 24 – 28 VAC (50 – 60 Hz).

5E30/LT
12 mm fixed lens

5E31/LT
16 mm fixed lens

5E32/LT
25 mm fixed lens

5E33/LT
35 mm fixed lens

Versatile, simple to use and customisable, GATE is the licence plate reading system designed to handle from 1 to 4 vehicle access points from each server.
Multiple servers can be managed simultaneously from one application through the web client, to increase the number of access points that can be monitored by a single application.
The process of plate recognition can be triggered in real time when the vehicle passes in front of the camera or by triggering an I/O connected to GATE.
The monitoring function is facilitated by different viewing modes that enable both the vehicle and the driver's photo to be displayed at the same time.
Digital I/O modules enable the system to be integration with other devices such as automatic gates, infrared sensors, magnetic loops and alarms.
The performance of GATE can be maximised by using special licence plate recognition video cameras with infrared optical filter and high power LEDs.

GATE APR SERIES

525G/1VA
Digital IVS automatic plate recognition at 1 access point

525G/2VA
Digital IVS automatic plate recognition at 2 access points

525G/3VA
Digital IVS automatic plate recognition at 3 access points

525G/4VA
Digital IVS automatic plate recognition at 4 access points

GATE PAC SERIES

The PAC (Parking Access control) version requires the use of an external trigger and a physical barrier in the lane of the vehicle, which limits its speed.

525G/1VP
Digital IVS licence plate reading for control of 1 access point

525G/2VP
Digital IVS licence plate reading for control of 2 access points

525G/3VP
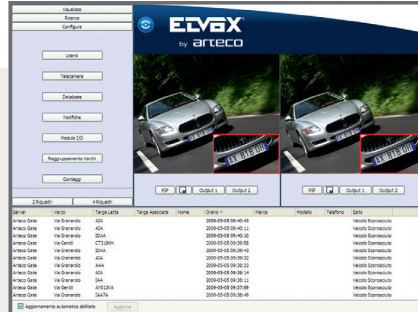Digital IVS licence plate reading for control of 3 access points

525G/4VP
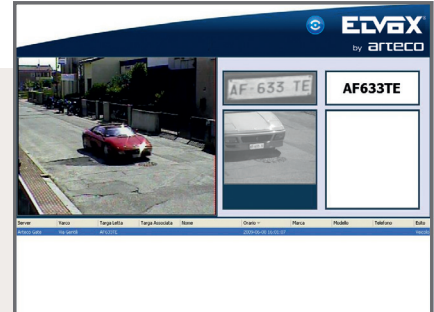Digital IVS licence plate reading for control of 4 access points

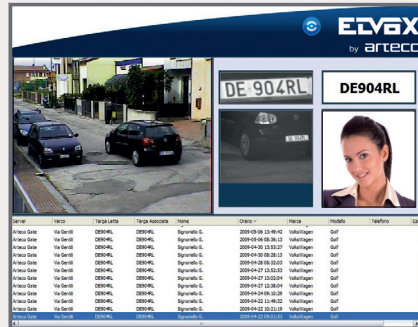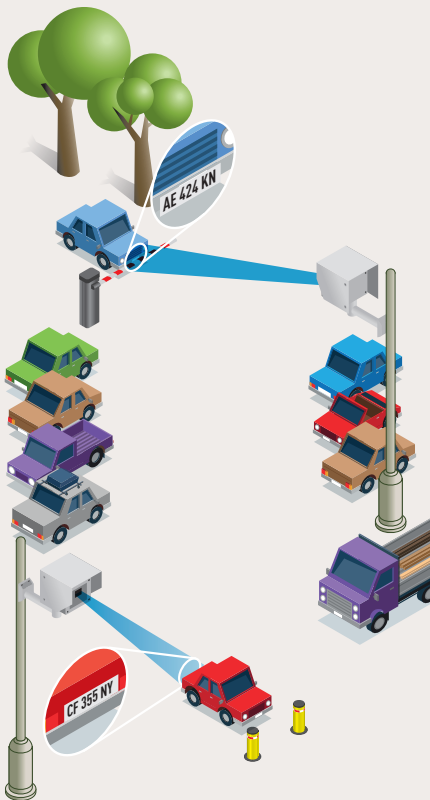GATE is the licence plate reading system designed to handle from 1 to 4 vehicle access points from each server

ELVOX

☑ **VIMAR** group
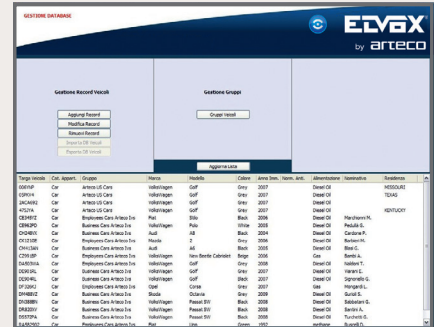
HOW IT WORKS

INTUITIVE INTERFACE

LICENCE PLATE RECOGNITION DATABASE

LICENCE PLATES RECORDED IN DATABASE

SOFTWARE

- Operating System Windows XP Embedded
- High reliability: 99% (used with ground loops or infrared sensors)
- High recognition speed: < 0.2 seconds
- OCR activated continuously or by I/O
- Resolution up to 720 x 576 (PAL) and 720 x 480 (NTSC) – Megapixel (IP)
- Active count of vehicles in parking facility (difference between vehicles entering and leaving)
- Snapshot of vehicle, licence plate or driver
- Licence plate database compatible with Microsoft Excel (SQL Server)
- Multiple scanning technologies for greater reliability
- Generation of alarms on detection of an unlisted vehicle
- E-mail, SMS or audible notifications when a blacklisted vehicle is detected
- Picture-in-picture window provides live camera display and the last recognised image
- Unlimited number of groups of registered vehicles in database
- Activation of external devices based on licence plate recognition
- Recognition, display, and storage of the plate with a saved image in the database

- Operator can match file photo of vehicle/driver to captured licence plate
- Search input/output devices for vehicles by entering the licence plate or any other parameter recorded in the database
- Supports JPEG format (3 million images stored in 250 GB HDD)
- Auto-deletion of old images when hard disk is full
- Capability to configure archive duration of sensitive data

ACCESS POINT CHARACTERISTICS

GATE is available in two versions: APR and PAC.

- The **APR** (Automatic Plate recognition) version does not require any external trigger or physical barriers (e.g. bars) and can detect the licence plates of cars at speeds up to 250 km/h.

- The **PAC** (Parking Access control) version requires the use of an external trigger and a physical barrier in the lane of the vehicle, which limits its speed.

SPECIFICATIONS

- Supply voltage: 230 VAC 50 Hz power consumption 120 W
- Operating temperature 0 - 40 °C, max RH 80% n.c.
- Dimensions in mm: 425 x 170 x 480 WxHxD
- Handles front +30 mm
- Weight: 16.7 kg

Accessories and licences for IP Systems

OPTIONALS FOR 300E SERIES

52LZ/3C1	Licence for 1 additional channel from 5 to 12
52LZ/3C4	Expansion for 4 additional IP licences
52LZ/PPZ	Privacy Zone plug-in
52LZ/1UA	Expansion for 1 additional user
52LZ/1CC	Expansion for 1 simultaneous connection
52LZ/CM	Multiserver control plug-in (max 3 servers)
52LZ/MMS	Plug-in for SMS/MMS notification (includes modem)
52LZ/WD	Plug-in for on-demand Internet wireless connection
52JO	USB joystick for remote operation of PTZ video cameras

OPTIONALS FOR 400E SERIES

52LZ/4C1	Licence for 1 additional channel from 5 to 12
52LZ/4C4	Expansion for 4 additional IP licences
52LZ/DE	License upgrade for Motion Detection Enterprise channel
52LZ/3U	Expansion for 3 additional users
52LZ/1CC	Expansion for 1 simultaneous connection
52LZ/3UC	Expansion (3 Users + 1 simultaneous conn.)
52LZ/IOV	Virtual I/Os plug-in
52LZ/IOC	Concatenated I/Os plug-in
52LZ/MP	Maps plug-in
52LZ/MMS	Plug-in for SMS/MMS notification (includes modem)
52LZ/WD	Plug-in for on-demand Internet wireless connection
52LZ/4.4	Serial hardware module 4+4 internal I/O
52LZ/8.8	Serial hardware module 8+8 I/O
52RS/485	RS232-RS422/485 converter for remote PTZ control
52JO	USB joystick for remote control of PTZ video cameras

OPTIONALS FOR 600E SERIES

52LZ/6L1	Licence for 1 additional IP channel from 9 to 72
52LZ/6L4	Expansion for 4 additional IP licences
52LZ/MDE	License upgrade for Motion Detection Enterprise channel
52LZ/3U	Expansion for 3 additional users
52LZ/1CC	Expansion for 1 simultaneous connection
52LZ/3UC	Expansion (3 Users + 1 simultaneous conn.)
52LZ/IOV	Virtual I/Os plug-in
52LZ/IOC	Concatenated I/Os plug-in
52LZ/MP	Maps plug-in
52LZ/MMS	Plug-in for SMS/MMS notification (includes modem)
52LZ/WD	Plug-in for on-demand Internet wireless connection
52LZ/4.4	Serial hardware module 4+4 internal I/O
52LZ/8.8	Serial hardware module 8+8 I/O
52HD/1T	Expansion 1TB HDD capacity (max. 4TB total)
52RD/4	RAID5 4TB capacity (oversized housing with depth 9 cm)
52MA	DVD burner for data archiving
52JO	USB joystick for remote operation of PTZ video cameras

OPTIONALS FOR 500E SERIES

52LZ/5L1	Licence for 1 additional IP channel from 5 to 16
52LZ/5L4	Expansion for 4 additional IP licences
52LZ/01T	Optional 1TB capacity
52LZ/AVA	Pro channel license upgrade (advanced video analysis algorithms)
52LZ/CT	Traffic channel licence
52LZ/RSB	Local recording and stream broadcaster
52LZ/3U	Expansion for 3 additional users
52LZ/1CC	1 additional simultaneous connection
52LZ/3UC	Expansion (3 Users + 1 simultaneous conn.)
52LZ/CCI	Expansion for simultaneous connections and unlimited users
52LZ/MMS	Plug-in for SMS/MMS notification
52LZ/WD	Plug-in for on-demand Internet wireless connection
52LZ/8.8	Serial hardware module 8+8 I/O
52JO	USB joystick for remote operation of PTZ video cameras

OPTIONALS FOR 700E SERIES

52LZ/7L1	Licence for 1 additional IP channel from 9 to 72
52LZ/7L4	Expansion for 4 additional IP licences
52LZ/AVA	Video analytics channel licence upgrade (PRO)
52LZ/CT	Traffic channel licence
52LZ/RSB	Local recording and stream broadcaster
52LZ/3U	Expansion for 3 additional users
52LZ/1CC	Expansion for 1 simultaneous connection
52LZ/3UC	Expansion (3 Users + 1 simultaneous conn.)
52LZ/CCI	Expansion for simultaneous connections and unlimited users
52LZ/MMS	Plug-in for SMS/MMS notification
52LZ/WD	Plug-in for on-demand Internet wireless connection
52JO	USB joystick for remote operation of PTZ video cameras
52LZ/8.8	Serial hardware module 8+8 I/O
52HD/1T	Expansion 1TB HDD capacity (max. 4TB total)
52MA	DVD burner for data archiving
52RD/4	RAID5 4TB capacity (oversized housing with depth 9 cm)

OPTIONALS FOR GATE SERIES

5E30/LT	ALPR licence plate reading camera
52LZ/MMS	Plug-in for SMS/MMS notification
52LZ/8.8	Serial hardware module 8+8 I/O

IP Systems

Colour Cameras

TYPE 51D3/E36

Day & Night outdoor speed dome colour IP camera, 1/4" SONY Super HAD sensor, 570 TV lines, 36X optical zoom, 16X digital zoom, H264 compression, Davinci DSP, OSD control, PRIVACY function, mechanical IR cut filter, Motion Detection, SD/SDHC card local storage, supply voltage 24 Vac. IP66 die-cast aluminium housing.

TYPE 51D3/EIP

Day & Night outdoor speed dome colour IP camera, 1/3" SONY progressive scan sensor, 1.3 megapixels, 18X optical zoom, 12X digital zoom, H264 compression, Davinci DSP, OSD control, mechanical IR cut filter, Motion Detection, SD/SDHC card local storage, supply voltage 24 Vac. IP66 die-cast aluminium housing.

TYPE 51D3/10

Day & Night indoor speed dome colour IP camera, 1/4" SONY Interline Transfer sensor, 570 TV lines, 10X optical zoom, 10X digital zoom, H264 compression, Davinci DSP, PoE, OSD control, mechanical IR cut filter, Motion Detection, SD/SDHC card local storage, supply voltage 12 Vdc.

ART. 55IP/1

Day & Night colour IP camera, 1/3" Sony progressive scan sensor, 1.3 megapixels, H264/MJPEG compression, PoE, mechanical IR cut filter, dual stream, SD/SDHC card local storage, remote view via mobile phone, C/CS mount lens.
Lens purchased separately.

ART. 55IP/2

Day & Night colour IP camera, 1/3" Sony progressive scan sensor, 2 megapixels, H264/MJPEG compression, PoE, mechanical IR cut filter, dual stream, SD/SDHC card local storage, remote view via mobile phone, C/CS mount lens.
Lens purchased separately.

ART. 55IP/3

Day & Night colour IP camera, 1/3" Sony progressive scan sensor, 3 megapixels, H264/MJPEG compression, PoE, mechanical IR cut filter, dual stream, SD/SDHC card local storage, remote view via mobile phone, C/CS mount lens.
Lens purchased separately.

ART. 55IP/05

Day & Night colour IP camera, 1/3" Sony progressive scan sensor, 5 megapixels, H264/MJPEG compression, PoE, mechanical IR cut filter, dual stream, SD/SDHC card local storage, remote view via mobile phone, C/CS mount lens.
Lens purchased separately.

ART. 57IP

Day & Night colour dome IP camera, 1/3" CMOS progressive scan sensor, 2 megapixels, 3.3-12 mm varifocal lens, H264/MPEG4 compression, PoE, mechanical IR cut filter, dual stream, SD/SDHC card local storage, remote view via mobile phone, IP66 with IR LED.

ART. 53IP

Day & Night colour IP camera, 1.4" CMOS progressive scan sensor, H264/MPEG4 compression, PoE, dual stream, SD/SDHC card local storage, remote view via mobile phone, C/CS mount lens.
Lens purchased separately.

ART. 54IP

Day & Night colour IP camera, 1/3" Sony Super HAD progressive scan sensor, 540 TV lines, H264/MPEG4 compression, PoE, dual stream, SD/SDHC card local storage, remote view via mobile phone, C/CS mount lens.
Lens purchased separately.

ART. 56IP

Vandalproof mini dome colour IP camera with Day & Night functionality, 1/4" CMOS sensor, 4 mm fixed lens, three axes, H264/MPEG4/MJPEG compression, PoE, dual stream, remote view via mobile phone, IP66.

IP Systems

Colour Cameras and
Video Encoder

ART. 58IP

Day & Night colour IP camera, 1/3" Sony Super HAD sensor, 540 TV lines, 12 mm fixed lens, H264/MPEG4 compression, PoE, dual stream, remote view via mobile phone, IP66 with IR LED. Without bracket.

ART. 58IP/3

Day & Night colour IP camera, 1/3" Sony Super HAD sensor, 480 TV lines, 3.6 mm fixed lens, H264/MPEG4 compression, PoE, dual stream, remote view via mobile phone, IP66 with IR LED. Without bracket.

ART. 58IP/6

Day & Night colour IP camera, 1/3" Sony Super HAD sensor, 480 TV lines, 6 mm fixed lens, H264/MPEG4 compression, PoE, dual stream, remote view via mobile phone, IP66 with IR LED. Without bracket.

ART. 59IP

Vandalproof mini colour IP camera with Day & Night functionality, 1/3" CMOS progressive scan sensor, 4 mm fixed lens, H264/MJPEG compression, PoE, dual stream, SD card local storage, remote view via mobile phone.

ART. 52WS/1

Video encoder with one video and audio channel, H264 compression, PTZ control, dual stream, one alarm input, one relay output, SD/SDHC card local storage.

ART. 52WS/4

Video encoder with 4 video channels and 4 audio channels, H264 compression, PTZ control, dual stream, 4 alarm inputs, 2 relay outputs.

IP Systems

5288/033

Articulated camera bracket, in zinc, for wall mounting. Maximum load 2 kg, rotation angle 360°, tilt angle 120°, metallic silver finish.
Dimensions: 220x108 mm

5288/034

Articulated camera bracket, in zinc, for wall and ceiling mounting. Maximum load 2 kg, rotation angle 360°, tilt angle 120°, metallic silver finish.
Dimensions: 225 x 108 mm

529S/8

Wall bracket in aluminium with cable duct. Wall bracket in aluminium with cable duct for cameras type 57IP. Dimensions: 230x180x160.
Weight: 1.395 kg

529S/7M

Wall bracket in aluminium with cable duct. Wall bracket in aluminium with cable duct for outdoor speed dome cameras type 51D3/E36, 51D3/EIP. Dimensions: 310x97x194 mm. Weight: 1.07 kg.
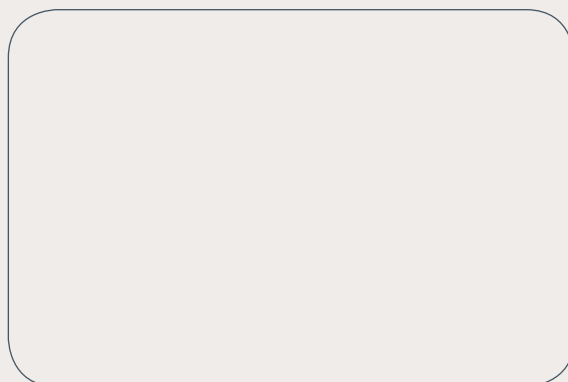
529S/7S

Ceiling bracket. Ceiling bracket in aluminium with cable duct for outdoor speed dome cameras type 51D3/E36, 51D3/EIP. Dimensions: Ø 117x293 mm.
Weight: 1.015 kg.

529C

Pole mount. Pole mount for outdoor speed cameras type 51D3/E36, 51D3/EIP.
Dimensions: 194x117x100 mm. Weight: 1.205 kg

ELVOX

VIMAR group