

Automatinė numerių atpažinimo sistema ProVida ANPR – tai išskirtinis įrankis, padédantis patruliuoti policijos pareigūnui kelyje, aprūpinantis jį papildoma pora akių automobilyje. Ši sistema tyliai stebi automobilių eismą tuo metu, kai pareigūnas užsiima savo kasdieniniu darbu, sutrukdydama pareigūnui tik tada, kai įtariamas automobilis pasirodo akiratyje.



Į sistemos komplektą įeina pagrindinis blokas, vaizdo kameros ir monitorius

Main module

Operating systems	Windows® XP arba Windows® 2000
CPU	1G8 Pentium® M (Centrino™ class) (Note 1)
Memory	1024 MB as a standard; 128-2GB by requirement
Cache, level 1	32KB Instruction cache + 32KB Write-back data cache
Cache, level 2	1G8 2MB
Video controller	Intel Extreme 2 with unified memory
Specification	
Primary screen output	A single connector carrying touchscreen interface, power and panel data
Other screen outputs	CRT output, optional PAL and NTSC
USB	USB 2.0
Expansion	Mini PCI
WiFi	WiFi Centrino™ compatible – optional wireless LAN with remote antenna connection and hardware module (Note 1)
Ethernet	10/100 Mbs
Camera input	Up to 4 independent Composite or S-Video inputs (PAL, SECAM & NTSC). Each input could be multiplexed to additional inputs
Hard drive	40 Gb
Sound	AC97 stereo sound
Digital I/O	Optically isolated 8 inputs and 8 outputs option
Analogue I/O	3 channels 0-16V, 1 channel 0-28V option
Parallel and serial	1 parallel & 4 external RS232 channels. 4 channels are available internally for GPS, touch screen, GPRS 1 and 2
GPS	Optional integral GPS with remote antenna
GPRS/GSM	Optional 1 or 2 integral GPRS/GSM modules with remote antenna
Hard disc heater	Temperature controlled heater to maintain the hard disc's safe operation
Backup service battery	Optional, automatically operates when primary power is lost. System-controlled charging.
Protective cage	Perforated metal cage providing additional protection for the system unit and connectors
Keyboard options	Rugged, backlit and wireless (IR) keyboard
Cables	
Main to screen	Up to 15 m for all signals
Power	2 m power lead with connector
Power consumption	1G8 with 8.4 inch touchscreen: 1.85 A typical at 13.6 V under Windows® 2000
Temperature range	
Operating	-10°C to +55°C
Storage	-20°C to +70°C
Humidity	0 to 90 % RH non-condensing
Shock & vibration	
Random vibration	2-200Hz bandwidth 1.04 grms

Shock 20G 11ms half sine. 45G 3ms half sine
 Size & weight 250 x 190 x 105mm. Weight approximately 1.9Kg, varies with specifications (system unit only)
 Certification AES5 Issue 9 – Class 1 Pass – Certified by A&ES, Communications Directorate of PITO e mark approval no.e11*72/245*95/54*0361*06
 Warranty 12 months return to base
 Note 1. If WiFi option is not selected then no hardware will be fitted and therefore can never be enabled

Screens

Flat panel touchscreen unit Standard: high brightness TFT colour VGA screen 8.4 inch. Other screens available.



8.4 8.4" Active Matrix TFT Colour ON/OFF switch 2 LEDs (Power, Disk Heater) 222mm x 158mm x 38mm 1.25Kg	8.4 Remote Switch 8.4" Active Matrix TFT Colour Remote ON/OFF switch 2 LEDs (Power, Disk Heater) 208mm x 158mm x 38mm 1.25Kg
VGA 450 cd/m ² 640 x 480	VGA 450 cd/m ² 640 x 480
VGA Ultra High Brightness 1000 cd/m ² 640 x 480 222mm x 188mm x 38mm	VGA Ultra High Brightness 1000 cd/m ² 640 x 480 208mm x 188mm x 38mm
SVGA 350 cd/m ² 800 x 600	SVGA 300 cd/m ² 800 x 600

Standard and IR Cameras

Regardless of the algorithm used for analysis, all ANPR systems will benefit from being presented with a high quality image which will result in higher hit rates. In general this means an image with high contrast and well defined sharp edges between the number plate and the background and between the characters and the background of the plate.



18 x Zoom Back&White/Colour Camera

COLOUR CAMERA MODULE SPECIFICATIONS

Image Sensor	1/4" IT CCD EXview HAD
Video Format	PAL standard
Lens (Optical)	18x Zoom, f=4.1 to 73.8mm, F1.4 to 3
Angle of View	(H) approx 48° (wide) to 2.7° (tele)
Horizontal Resolution	> 520 TV line
Video Output VBS:	1.0V p-p (Sync Negative)
Minimum Illumination	0.7 Lux F1.4 colour, 0.01 Lux or less F1.4 mono
Video S\N Ratio	> 50dB

IR ILLUMINATOR SPECIFICATIONS

Wavelength	850nm or 940nm
Format	Single 60 chip very high power LED array
Angle	approx 15°

The high quality module with 18x optical zoom and day/night changeover facility. This allows the camera to be used to provide colour images during daytime when there is adequate ambient illumination for general observation or enforcement as well as for ANPR applications. At night the camera can be switched to IR mode to provide a black & white image with increased sensitivity. In this mode the camera will also be sensitive to the illumination from the associated separate IR LED lamp.

The Camera is designed for internal mounting however this will reduce the range of the camera depending on car type. If a greater distance is required we recommend the fitting outside the vehicle as the glass used in vehicles is generally highly reflective to IR illumination.

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