



ANPR Solutions

Automatic Numberplate Recognition
Access Control System

Overview:

The Automatic Number Plate Recognition Access Control System, ANPR110, is a class leading innovative and cost effective license plate recognition software package consisting of a communications engine and a view terminal application. The software uses a reliable recognition library to process video streams in real time and rapidly analyse multiple number plates per camera at high accuracy. The software package uses a Firebird database to store and retrieve information. Firebird is an open source relational database that is freely distributed for no additional setup costs and licensing fees. The ANPR110 software package also includes a serial communications engine to easily integrate the ACRT110 Multipurpose Tag and ARCR110 Reader, allowing the user to combine these individual technologies solid security solution. The package is designed to be used commercially or privately and is scalable to suit the different needs.

Functionality:

As a vehicle drives up to the gate, the ARCT110 Tag wirelessly transmits a unique identifier that is received by the ARCR110 reader; the software then looks up the predefined corresponding number plate in the database and waits for a number plate recognition, as the vehicle stops at the gate, the number plate is recognized by the software and compared to the number plate associated with the tag. If the number plate and tag matches, a snapshot of the car along with time stamps and predefined information is saved to the database as access history. This information can then be viewed on the server or through a network connection by the client view terminal application. The gate is then opened to let the user in.

Features:

The ARCR110 Reader contains a built in Relay which can be connected to any type of gate or I/O device. This enables the system to automatically open the gate when a number plate is recognized and verified. The system also has a manual override feature that allows the security personnel to manually open the gate if there is a need. In the case of a manual override, the system will take a snapshot of the car that the gate was opened for and log the information to the database. This feature ensures that in the event that a car was granted access manually, the administrator can see via the view terminal the time and number plate of the car that the guard manually opened for. The ANPR software is password protected so that unwanted access is restricted. The administrator can manage user accounts and permissions for different staff members. The View terminal is an easy to use tool that allows the user to quickly filter data and print or save reports in various formats. The data is displayed in grid format that is fully customizable.



Packages

The ANPR110 software is available in a variety of packages to suit the needs of the specific application.

ANPR Software only Requires a server/PC and cameras (Please see requirements)

ANPR Software and Tagging

Includes:

- ANPR110 Software
- 2x ARCT110 Multipurpose tags
- 1x ARCR110 Reader

ANPR Full Kit

Includes:

- ANPR110 Software
- 4x ARCT110 Multipurpose tags
- 1x ARCR110 Reader
- 2x Sony ¼" CCD Day/Night, Auto Focus, Optical Zoom weather proof cameras
- Intel Core i3 PC with Monitor and peripherals
- USB DVR Capture Card

*All components can be ordered separately.

Requirements

Technical Specifications:

Licensing	1 Runtime License per server/PC	
Cameras	Analog	Auto Focus, Optical Zoom
	IP Cameras	Auto Focus, Optical Zoom
	Resolution	320x240 Minimum 640x480 Recommended
	Colour	Monochrome, Grayscale, Colour
System	Compression	M-JPEG, H.264, MPEG-4
	DVR Capture Card	DirectShow compatible drivers
	CPU	1
	Memory	CPU core per video stream, i.e. 2 cameras requires a dual core processor (Core2Duo/Intel Core i3) 2GB Minimum 4GB Recommended
Database	Video Card	256MB Dedicated
	Operating System	Windows Server 2008, Windows 7
	Server	Firebird 2.5 SuperServer
	Client	Firebird 2.5 Client

*The software installer contains Firebird Server and Client for different installations.

*See www.aquilaresearch.com for supported countries.