

Digital Recognition



iSharp

ANPR Camera

The iSharp ANPR Camera has been designed with flexibility and installation ease of use in mind. The camera utilises a high resolution SuperHad CCD giving the camera high sensitivity in all conditions.

Using the patent pending EverSharp technology, the iSharp camera produces an un-paralleled infinite depth of field and uses a patent pending HD resolution lens. Also, the iSharp camera can produce a wider than standard field of view.

The camera also utilises a high powered illuminator configuration resulting in sharper and leaner images for the recognition engine whether day, night, rain or shine in excess of 140MPH/225KPR.

There are many different challenges in producing the best imagery possible for ANPR use. Plate sizes, colours, contrast and structures vary worldwide. Furthermore, lighting conditions and headlight glare vary considerably. Therefore selecting the right camera technology for your system will result in significant advantages.

Specifying the correct camera technology for your ANPR system is one of the most critical decisions to be made when designing the right solution. The camera element to any system will define the stability, reliability and accuracy.

Digital Recognition Systems Ltd has designed a camera to be dedicated to ANPR use and therefore produces the clearest image in all conditions.

Using a high resolution chip and a patent pending lens, IR filter and illuminator system, the iSharp camera will work under all lighting and weather conditions, cutting out ambient light from the picture in order to produce the best possible image of the license plate.

Cabling and Installation

The iSharp ANPR camera has been designed to facilitate an ease of installation ethos, utilising a simple Cat5e cable for all of the video, power and communications.

Due to this, the camera is able to work with cable lengths of up to 500m with power, video and communication as standard.

Therefore the iSharp will fit into any existing infrastructure by using the standard Ethernet cable.

Key Features

- Small, compact, low profile IP68 weatherproof design
- EverSharp technology
- Retro - reflective operation with sunshine suppression
- Non-Retro reflective operation
- Sequential shutter for extended dynamic range
- Low gain for reduced image noise
- Compact and light design
- Installation friendly design.
- Single 8mm low-cost cable
- Cabling up to a distance of 500m

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Digital Recognition



Mobile ANPR



Infinite depth of field lens - 15m



Infinite depth of field lens - 10m



Infinite depth of field lens - 6m

iSharp

ANPR Camera

Camera Specifications

Image Sensor:

1/3" SuperHAD 752(H) x 582(V) CCIR

Horizontal resolution:

Pal 630 TV lines

Lenses:

F=2.7, f=12mm, angle of view 30°

F= 2.7, f=16mm, angle of view 20°

F= 2.7, f=30mm, angle of view 10°

F= 2.7, f=50mm, angle of view 7°

Electronic shutter Speed:

Variable 1/1000- 1/60000

Video output:

VBS:1.0 Vp-p (composite 75 Ohm, sync negative)

IR illuminator:

830/850nm, optional 740 & 940 available

Communication:

USB and Bidirectional Half duplex RS485

Cable:

UTP/STP Cat5e power video and communication

Operating Voltage:

12V ± 15% DC

Power Consumption:

Typical 10W (max 20W)

Dimensions:

H52mm X W168mm X D70mm

Weight:

0.85 Kg

Compliance :

IP68, CE, FCC Part 15

Operating Temperature/Humidity:

-20 to +60°C /20 to 80% non condensing

Storage temperature/Humidity:

-30 to +90°C /20 to 95% non condensing