



## P362 Compact ANPR Image Capture System

- ➔ Complete image-capture system designed for use with automatic number plate recognition (ANPR) Systems
- ➔ Patented filter and flash techniques provide excellent suppression of headlights and bright sunlight
- ➔ Small size and high performance makes it suitable for a wide range of applications



The P362 is a complete image-capture system designed for use with automatic number plate recognition (ANPR) systems. Although primarily designed for mobile or portable applications, its small size and high performance makes it suitable for fixed applications, such as car parks and access control.

The unit comprises a monochrome CCD camera with high infra-red sensitivity surrounded by an illuminator consisting of a ring of eye-safe, infra-red-light-emitting diodes (LEDs). The rugged metal housing is fully waterproofed and the unit has no moving parts for high reliability. The built-in controller, 12V operation and single connecting cable allow easy deployment for fixed site or mobile installations.

Patented filter and flash techniques provide excellent suppression of headlights and bright sunlight.

Field-by-field control of camera parameters allows the use of PIPS Technology's patented '@triple-flash' technique to reduce problems of plate-to-plate variation.

As an operation, the P362 can be supplied with an integral overview camera (colour or monochrome).



Thus an ANPR system using the P362 can always capture the number plate from the IR monochrome camera and when suitable lighting conditions are available a colour overview image of the vehicle can be associated with the number plate.

The IR and colour camera video signals can be internally multiplexed together so that a single video cable can be used.



**P362 Pan and Tilt**

## P362—Summary Specifications

<b>Dimensions</b>	112mm long, 107mm diameter excluding hood														
<b>Weight</b>	1.5kg (including hood)														
<b>Power</b>	Less than 15 watts, 10.5—18 Volts d.c.														
<b>Mechanical</b>	Longitudinally-extruded finned case for excellent heat dissipation. Sealed end-caps provide a totally-sealed enclosure which is purged with dry-nitrogen														
<b>Window</b>	IR-only—IR Transmissive, visible opaque acrylic window. IR with colour overview—clear acrylic window														
<b>Lens</b>	The standard lenses and operating ranges for reading 520mm wide number plates are as follows:- <table border="1" data-bbox="606 660 1241 918"> <thead> <tr> <th>Lens Focal Length</th> <th>Operating Range</th> </tr> </thead> <tbody> <tr> <td>35mm</td> <td>20m</td> </tr> <tr> <td>25mm</td> <td>14.5m</td> </tr> <tr> <td>16mm</td> <td>9m</td> </tr> <tr> <td>12mm</td> <td>7m</td> </tr> <tr> <td>8mm</td> <td>4.5m</td> </tr> <tr> <td>5.7mm</td> <td>3.3m</td> </tr> </tbody> </table> <p>When two cameras are fitted, each can have a different focal length.</p>	Lens Focal Length	Operating Range	35mm	20m	25mm	14.5m	16mm	9m	12mm	7m	8mm	4.5m	5.7mm	3.3m
Lens Focal Length	Operating Range														
35mm	20m														
25mm	14.5m														
16mm	9m														
12mm	7m														
8mm	4.5m														
5.7mm	3.3m														
<b>Illuminator</b>	Patented pulsed LED illuminator using 95 IR LEDs. Standard wavelengths 950nm and 810nm. Other wavelengths available –contact PIPS Technology.														
<b>Monochrome IR Camera</b>	High IR sensitivity EX view HAD™ 1/4 inch format CCD 752 x 582 pixels (CCIR), 768 x 494 pixels (EIA)														
<b>Colour Camera (Optional)</b>	EX view HAD™ 1/4 inch format CCD 752 x 582 pixels (PAL), 768 x 494 pixels (NTSC).														
<b>Shutter Times</b>	IR Camera - 0.1, 0.2, 0.5 and 1ms. Colour Camera - auto-shutter, 1, 2 and 4ms														
<b>Video Gain</b>	IR Camera - Eight levels, 3dB increment per level. Colour camera - Automatic video gain control														
<b>Video Output</b>	Standard version 1V peak-to-peak. Separate 75ohm video outputs for IR camera & optional colour camera Differential version - Single differential video output, IR or colour camera selectable on a field-by-field basis														
<b>Synchronisation</b>	External video sync output. If no external sync then camera defaults to internal crystal controlled sync generator. Both cameras are locked together.														
<b>Eye-Safety</b>	Class 1M in accordance with IEC 60825-1 and BS EN 60825-1:1994 (amendment 2). Covered by FDA Notice 50 in USA														
<b>Control</b>	Control of illuminator flash duration, video gain and camera shutter time. Control factory set to either RS232, Rx, Tx, Gnd, 19.2kB, 8 bits/sec or PIPSpIex multiplex control (Differential video output).														
<b>Communications</b>	RS232, Rx, Tx, Gnd, 19.2kB, 8 bits, no-parity, 1stop-bit Flash table index encoded at top of picture														
<b>Cable</b>	Four twisted-pairs with overall screen, standard length 5 metres. Greater length available, including optional use of cable incorporating coaxial video														
<b>Connectors</b>	Metal shell multi-pin connectors, IP67 (when mated)														
<b>Connections</b>	75 ohm standard video (infra-red monochrome and colour); power supply (+ve/-ve); RS232 communications; camera and overall screens; external sync, flash gnd and flash pulse														
<b>Mounting</b>	Integral "T"-slot with captive floating retainer with threaded holes for standard tripod mount (14-inch UNC) or two M6 fixings														
<b>Sun-Shield</b>	The use of a sun-shield is recommended when deployed externally. A short sun-shield is supplied as standard. A long sun-shield is available as an option														

For additional information about this and our complete range of ANPR products and traffic technology solutions, call or visit us online  
[www.pipstechnology.co.uk](http://www.pipstechnology.co.uk)

**PIPS Technology Limited**  
York House, School Lane  
Chandlers Ford  
Eastleigh, SO53 4DG  
United Kingdom

**PIPS Technology Inc**  
804 Innovation Drive  
Knoxville  
Tennessee 37932  
United States of America

Tel: +44 (0) 2380 240 250  
Fax: +44 (0) 2380 240 251  
Email: [sales@pipstechnology.co.uk](mailto:sales@pipstechnology.co.uk)

Tel: +1 865 392 5540  
Fax: +1 865 392 5599  
Email: [info@pipstechnology.com](mailto:info@pipstechnology.com)