

MOBILE ALPR CAMERA MODEL P362 SYSTEM



The PIPS P362 camera system is a complete image-capture solution designed for use with Automatic License Plate Recognition (ALPR) systems. Although primarily designed for mobile or portable applications, its small size coupled to high performance makes it suitable for many other applications, such as parking, law enforcement and access control.

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

Field-by-field control of camera parameters enables the use of PIPS Technology's patented TripleFlash™ technique to reduce problems of plate-to-plate variation.

As an option, the P362 system can be supplied with an integrated overview camera (color or monochrome), set either to the same focal length as the IR camera, or for a wider view. Thus, the P362 enables an ALPR system to always capture from the monochrome camera and, when suitable lighting conditions are available, a color overview image of the vehicle can be associated with the captured license plate image.

> Features

Complete image-capture system designed for use with Automatic License Plate Recognition (ALPR)

Patented filter and flash techniques provide excellent suppression of headlights and bright lights

Small size coupled with high performance makes it suitable for many applications

The unit consists of a monochrome CCD camera with high infrared sensitivity, surrounded by an illuminator consisting of a ring of eye-safe, infrared light-emitting diodes (LEDs)

The rugged metal housing is completely waterproof and the unit has no moving parts for high reliability

The built-in controller, 12V operation, and single connecting cable enable easy mobile or fixed system configuration and installation

The overview camera can be a separate video feed or the built-in multiplexer can send two signals on a single output

An integrated photocell can automatically activate separate night settings for the overview camera especially for high-speed traffic

Specifications	
Dimensions	112mm (4.4 inches) long, 107mm (4.2 inches) diameter, excluding hood
Weight	<1.5 kg (3.31 pounds)
Power	8.5-15V d.c., 12 to 20 Watts
Mechanics	Longitudinally-extruded finned case for excellent heat dissipation Sealed end-caps provide totally-sealed enclosure. Casing nitrogen purged
Optics	Clear IR-transmissive front window Integral band-pass filter (IR camera) Integral IR-cut filter (color camera) 25, 12, 8, 7, 6, 4.9, 4mm and 2.9mm lenses available
Illumination	High-power IR pulsed illuminator. PIPS Technology TripleFlash illumination (patented) Flash table can include a position for the color overview camera with LEDs turned off The illuminator flash table runs locally and autonomously on power-up and can be set via an interactive PC graphical utility or via a simple command-line text interface Effective viewing range: up to 50 feet (15 meters)
Monochrome IR camera	Hi-sensitivity IR CCD 752 x 582 (CCIR) or 768 x 494 (EIA) 1/4-inch format
Color camera (optional)	Exview-HADTM Color CCD 752x582 (PAL) or 768 x 494 (NTSC) 1/4-inch format Separate day / night settings (for high-speed applications) with changeover from built-in photo sensor
Video output	Separate 75 ohm standard video output for infrared monochrome and for color Both cameras can be multiplexed to one output controlled by the flash table
Synchronization	External video sync input; otherwise crystal-controlled internal sync (both cameras locked together)
Control	No external controller required; graphical or command-line interface control of: video-field table; flash (8 settings); gain (8 settings); shutter (4 settings); camera selection (2 settings) under RS 232 control; table depth, up to 8 Manual/auto-table(On/Off), plus engineering-only access to camera DSP internal settings, e.g. horizontal and vertical aperture correction, Gamma, etc.
Communications	RS232 & RS485, Rx, Tx, Gnd, 19.2kB, 8 bits, no-parity, 1 stop-bit Flash-table index encoded in top left-hand corner of image
Cable	Twisted-pair with overall screen, standard length 16.4 feet (5 meters) Greater lengths achievable; including optional use of cable incorporating coaxial video
Connectors	Metal IP67-sealed connectors
Connections	75 ohm standard video (infrared monochrome and color); power supply (+ve/-ve); RS 232/RS485 communications; camera and overall screens; external sync, flash gnd and flash pulse
Mounting	Integral 'T'-slot with captive floating retainer tapped for 1/4-inch UNC (standard tripod mount), or two M4 fixing holes for standard pan & tilt mounting
Sun shield	The use of a sun shield is recommended where the unit is deployed externally. PIPS will supply a short sunshield A long sunshield may be supplied as an alternative for permanent installations where it is required to keep contamination from the faceplate