

# Connecting a SONY XCI-NPR camera to Net2

## Overview

The SONY XCI-NPR camera has been tested on the Net2 system using Net2 v4.13.

The following checks should be completed before installing this ANPR product.

Full installation instructions and mounting advice is supplied with the SONY camera.



## Site suitability checklist



All points on the following checklist must be completed to achieve a reliable installation.

☐

The vehicle will be stationary when the number plate is read.

☐

The camera is sited 4 to 16 metres from where the vehicle will wait at the barrier.  
(Capture point)

☐

The vertical camera angle does not exceed 25° or the lateral angle 20°.  
(see Viewing angle restrictions)

☐

The lane width is not greater than 3.5 metres.

☐

An IR reflective barrier or marker is positioned at the capture point to allow the camera to maintain a good contrast level during periods of inactivity.

☐

The barrier has no printed text upon it.

☐

Only the front number plate is to be read.

☐

No square number plates are required to be read.

☐

Vehicle headlights are not directly pointing into the lens.

☐

There is a clear view of the number plate without any temporary or permanent obstacles.  
(e.g. passing or parked vehicles)

☐

The sun is not directly behind the subject and reflections from the number plate will not dazzle the camera.

The SONY number plate reader uses an infrared camera to read the vehicle number plate, process the information and then pass the details to the Net2 control unit via Wiegand output to the reader port.

The camera has manual iris, zoom and focus. It uses software to adjust the shutter speed to maintain the maximum contrast on the number plate image.

Enter the user's number plate details into their Net2 user record. When the vehicle plate has been read by the camera, access is then granted as appropriate and the access event is logged by Net2.

For further information, please refer to the following documentation as necessary.

Ins-30105 - Net2 number plate reader < <http://paxton.info/1173> >

## Installation

The supplied housing is a Videotec HOV. Detailed drawings are available on the back page.

HOV details: [http://www.videotec.com/en/page\\_114.html](http://www.videotec.com/en/page_114.html)

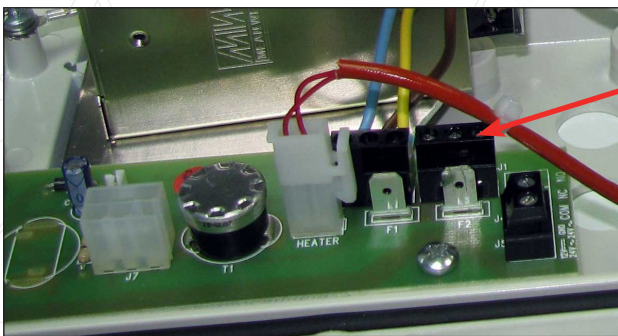
Brackets: [http://www.videotec.com/en/page\\_267.html](http://www.videotec.com/en/page_267.html)

Two mounting points are provided.

- Lateral - 2 x M5 bolts at 70 mm spacing
- Rectangular (with cable exit) - 4 x M5 bolts. 40 mm x 62 mm.

**WARNING:** The lid section of the case is much heavier than the base. Take care when carrying or mounting the unit with the lid open that the unit is fully supported or it could overbalance !!

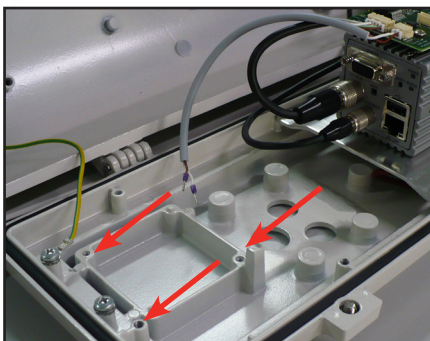
## 115/230V AC power connection



Connect the AC mains supply with Earth wire to the terminal block

**WARNING:** There is no mains power switch on the unit. Ensure that the mains supply is turned off before working on any part of the power supply of this unit.

## Low voltage (12V DC) connection



If required, the camera system (without the condensation heater) may be directly powered from a 1A / 12V DC feed.

Unplug the connection to the Heater. Remove the two screws holding the connection board and the two screws holding the power supply module. Lift these assemblies clear of the housing.

The Brown (0V) and White (12V) connections can then be removed from the power supply terminal block.

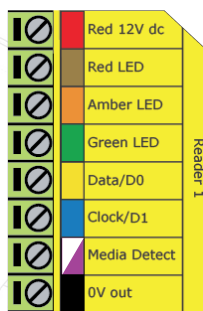
Connect the 12V DC feed to these wires.

Ensure that the polarity is correct before powering up the unit. Incorrect wiring may cause irreversible damage to the 12V / 5V regulator circuit.

Depress the white button on the connection block to open the terminal and release it to grip the wire.

Connect the data cable to the Net2 ACU reader port.

| Cable Pinout | ACU terminal |
|--------------|--------------|
| -            | +12V         |
| -            | Red LED      |
| -            | Amber LED    |
| -            | Green LED    |
| Data 0       | Wiegand D0   |
| Data 1       | Wiegand D1   |
| -            | NOT USED     |
| GND/0V       | 0V           |



Ensure any unused wires are safely terminated.



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