

Installation Guide

SnapShot Overview Camera



Model 6410 Colour Overview Camera

Model 6420 White Light Colour Overview Camera

About this Guide

This guide is intended for installation and commissioning engineers who are familiar with SNAP ANPR processors. It covers the installation and testing of these optional colour overview cameras when in conjunction with SNAP ANPR cameras. When these cameras are used in conjunction with a SNAP ANPR processor, it is essential that the engineer has both physical and log-on access to the processor.

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Trademark Acknowledgments

SNAP ANPR is a registered trademark of Videofit Limited.

Safety Notices Used In This Manual

Important! - Indicates a potential hazard that could seriously damage the equipment or endanger the engineer or subsequent user. Do not proceed beyond these notices until you have fully understood the implications.

Legal Notice

Camera surveillance is prohibited by law in some countries. Check the laws in your local region before using ANPR cameras and associated equipment.

Liability

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1. Description

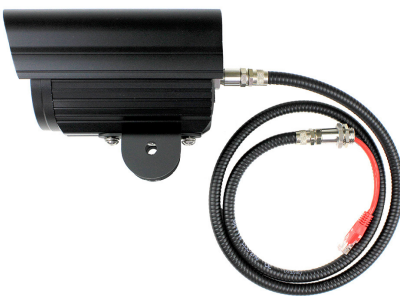
SNAP ANPR cameras capture a monochrome image of the vehicle license plate under any lighting conditions. It is often desirable, however, to also capture a full colour image of the vehicle for identification purposes.

There are two overview cameras available which provide colour vehicle images and either of these may be used with any of the SnapShot ANPR cameras (models 6310, 6320 and 6330).

The main features of the cameras are:-

- Compact, factory sealed design
- Push button control of zoom & focus for precise set up
- Remote camera control from all SNAP ANPR processors using RS485 telemetry (control cable required)
- Aluminium housing with O-ring seals
- White light LED illumination for day/night operation (model 6420)

These cameras connect to the camera junction box supplied with the ANPR camera and require no other power or signal connections.



Colour Overview Model 6410



White Light Overview Model 6420

2. Siting the Camera

These overview cameras mount alongside the ANPR camera using the bracketry supplied and so their location is largely determined by the best location for the ANPR camera.

However, when considering a location for the overview camera with built-in white light illuminator, avoid very low mounting locations where the illuminator will be directly in the driver's eye line.

Important!

Avoid dazzling drivers with the white light illuminator (model 6420). Position the camera in a suitable location and adjust the brightness level to an acceptable level.

3. Fixing the Camera

The overview camera will be supplied with a dual mounting plate (right) to allow it to be mounted alongside the ANPR camera. This dual plate is suitable for ANPR cameras supplied with either a wall bracket or pole-top mount.



If the overview camera is being installed in conjunction with an ANPR speed camera, you will instead have been supplied with a triple plate (left). This triple plate allows for the ANPR camera, the overview camera and the speed sensor to all be mounted from a single wall bracket or pole-top mount.

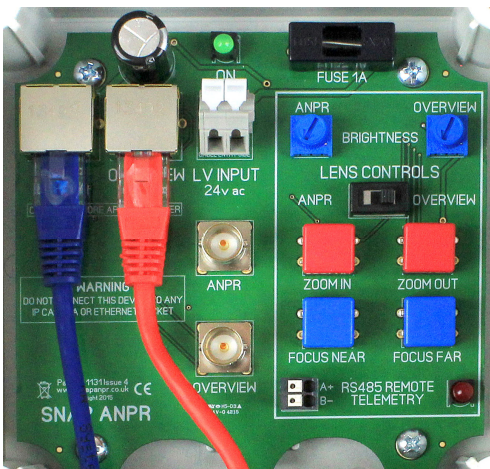
Note: Overview cameras are not suitable for use with the compact wall bracket (Part 1095) which is intended solely for single ANPR cameras.

4. Connections

The overview camera simply plugs into the camera junction box supplied with the ANPR camera. All overview cameras have a red lead and this should be plugged into the RJ45 socket marked OVERVIEW.

Important!

Do not connect these RJ45 plugs or sockets to any other networked equipment or wall socket otherwise damage will occur.



The overview analogue video output is provided by way of a BNC sockets within the junction box.

Finally, if you intend to control the camera zoom and focus from a remote SNAP processor, connect your RS485 telemetry cable to the push terminals marked A+ and B-.

5. Field Cables

With regard to the 24v ac power supply to the junction box, please ensure that the conductor size is sufficient for the length of cable run to avoid more than a 10% volt drop when both the ANPR and overview cameras are connected.

For long telemetry cable runs we would recommend a low capacitance cable such as Beldon 8132 which will normally allow distances of over 1000m to be achieved. For shorter distances, standard Cat5 or Cat6 cabling may be used. Ensure that a twisted pair is employed.

6. Operation

First install the ANPR camera in accordance with the manual supplied.

To set up and test the overview camera, proceed as follows:-

- Switch off the power to the ANPR camera junction box
- Remove the large 16mm cable gland in the bottom face of the JB
- Connect the overview camera conduit to the JB and tighten the locknut
- Plug the red overview connector into the OVERVIEW socket
- Switch on the power and ensure the green LED lights up
- Ensure the slide switch is set to OVERVIEW
- Connect a test monitor to the OVERVIEW BNC socket
- Using the buttons in the camera junction box, adjust the zoom and focus for the best image. Note that the camera will automatically focus each time you adjust the zoom
- If installing the overview camera which has a white light illuminator, adjust the brightness control to light the scene as required.
- Ensure the bracket and junction box lid are fully tightened on completion.

Note: The white light illuminator will always remain on for the first 60 seconds after applying power to the junction box. This will provide time to adjust the brightness during daylight. Thereafter, the illuminator will be automatically controlled by the built-in ambient light sensor.

Important!

If using the overview camera with a white light illuminator, ensure the brightness is adjusted to avoid dazzling drivers at night.

7. Cleaning

Keeping the window clean will help reduce image degradation. The camera window is made from float glass and just requires a wipe with a wet cloth. Finish with a dry cloth or allow to dry naturally.

8. Specifications

Model	6410 Overview Camera 24v ac 6420 White Light Overview Camera 24v ac
Illuminator (model 6420)	Long range white light LED array with ambient light sensor and variable power control
Overview Camera	Sony 1/3" Super HAD CCD (PAL) Colour 480 line Optical zoom 18:1 Motorised zoom and focus Auto-focus-on-zoom for simple setup Local & remote control of zoom and focus
Camera Telemetry	RS485 (compatible with all SNAP Processors)
Housing	Cast aluminium with O-ring seals rated IP66
Connection	Moulded R45 connector for power and signal, protected by interconnecting flexible steel conduit (1 metre length)
Power Consumption	10 watts (all versions)
Size (excluding bracket)	Camera body W120mm x H120mm x L180mm
Weight (excluding bracket)	1.8kg
Operating Temperature	-20 to +50° C

Revision 1
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