

XVision Professional NPR Camera

Set up and configuration of XVision Professional NPR cameras

With regular CCTV cameras it is usually not possible to read a number plate of a vehicle as the high light from the vehicles headlights cause the number plate to appear washed out.



With the Xvision Professional NPR camera it is possible to suppress high light situations in order to accurately read a number plate of a vehicle.



Most cameras in the industry require very little set up as they are plug and play, by this we mean that you can simply plug a power and a video cable into the camera, connect it to your DVR/monitor and you will get an image. While this will suffice for 80% of the public, with the NPR range there will be a little set up required. Please follow the following steps to achieve the most out of this camera:

To get the best results it is advised to mount the camera in the environment that it is going to be placed; all configuration can be done when the camera is installed.

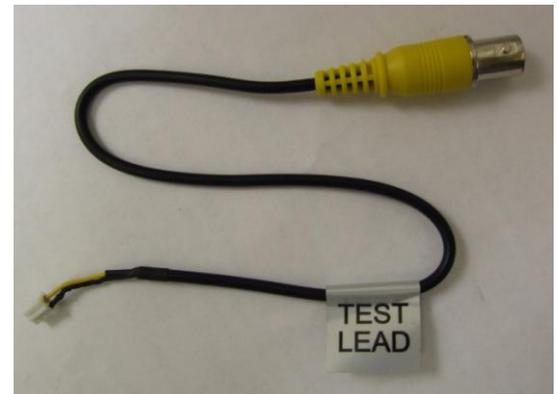
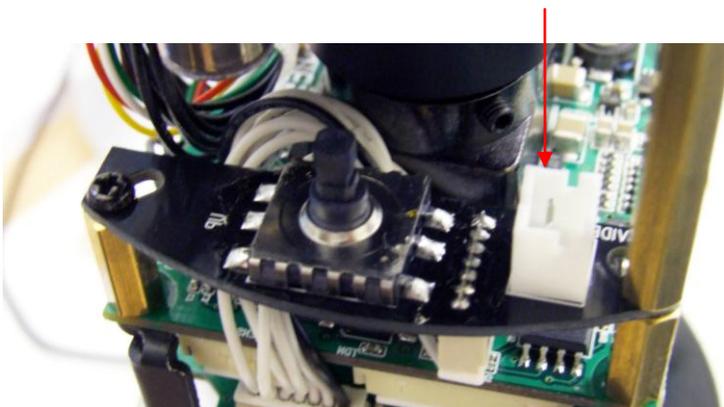
You will require for this:

1. Xvision Professional NPR camera
2. Power supply
3. PNP, RG59 or CAT 5 cable
4. Monitor/Test monitor
5. Another person to assist with testing

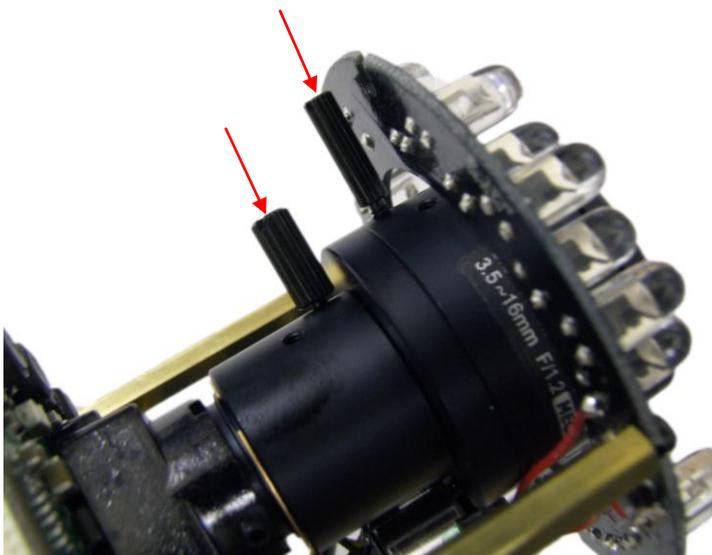
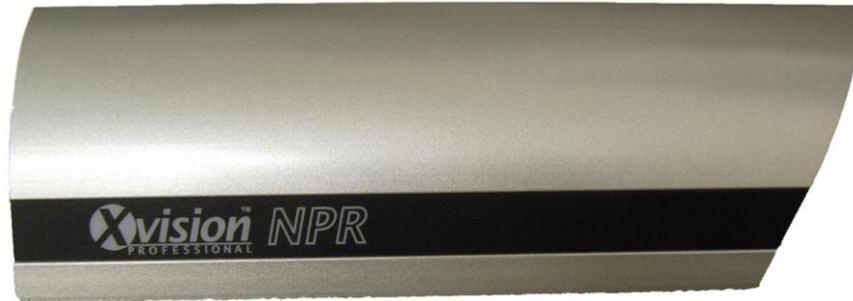
1. Check you have everything required for this installation. Test the camera locally before mounting or running any cables to ensure that it is working correctly. If at this time you find any missing items or require any assistance please contact our technical team on 0871 222 1430.
2. Now that you've completed step one, find the cameras mounting position. Ideally this needs to be mounted above the main beam of the vehicle headlights; 6-8 feet from the ground is a good suggested height. Once you have found this location proceed to run all the cables and mount the camera. You can make any adjustments to the cameras angle by using these two parts:



3. Once the cameras mounted get your assistant to do a few practice runs; this will help you find the best angle to capture the number plate. Once you've found your ideal location get the vehicle to stop there.
4. For this step you might require a test monitor, the enclosed test lead (pictured to the right), or another person to view the monitor while you adjust the camera. If you are going to use a test monitor with the test lead please insert here:



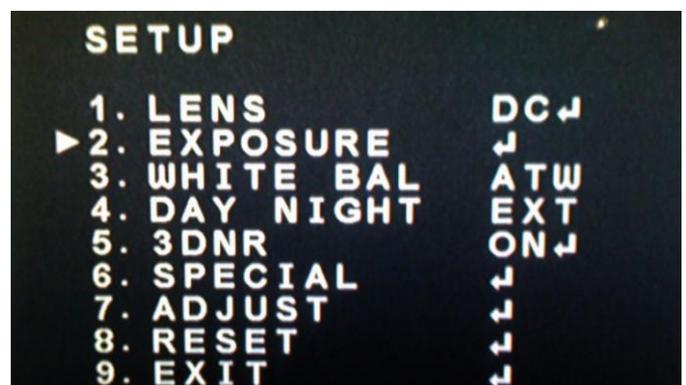
Proceed by removing the shield on the camera (pictured to the right). Next, twist off the main cover by turning it anticlockwise. Once released, pull off. Inside you will find two dials (pictured below); you will need to loosen them by twisting them anticlockwise, taking care not to undo them too much as they will fall out.

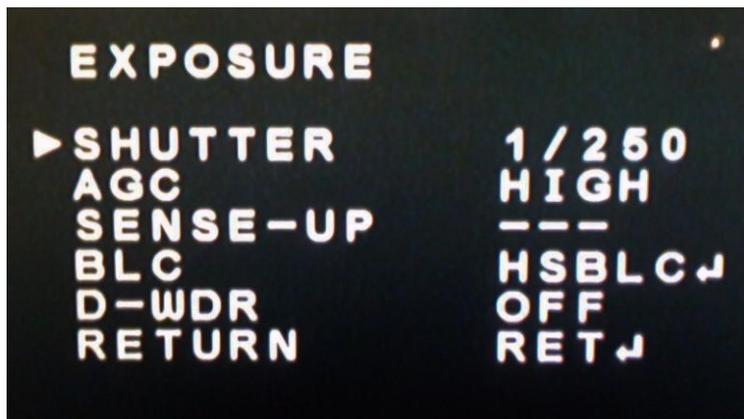


The rear dial will move the viewing angle from narrow to wide; the first dial will adjust the focus. Proceed by moving the second dial all the way up; this will give you a narrow angle. Now tighten the dial. Adjust the first dial until the picture is in focus and then tighten it to secure.

5. This should give you an ideal daytime image of the number plate. Make sure you are happy with your viewing angle and make any last minute adjustments following above steps in point 2.

6. The following steps will need to be done when it is dark so that you can get the best picture. Again, using your test monitor or your assistant, press the menu button on the camera which will bring up the on-screen display menu (as pictured on the right). Please see page 8 of the cameras manual for a detailed description of these functions.





Navigate down to option 2 (Exposure) and press the menu button again to enter. In here you will find shutter, AGC, sense-up, BLC and D-WDR as shown here.

Three settings will need to be adjusted; please be aware that these settings are just a guide and will differ depending on your environment:

- Shutter speed, which you will ideally want to set as the highest setting possible while still getting a good picture. Unfortunately the exact setting is dependent on your environment; try starting at 1/5000th of a second and work upwards until you get a good image. To change the speed simply just move the joystick to the left or right to change the value, you can then move it down to *Return* to save the settings.
- AGC should be set to *High*.
- BLC should be set to *HSBLC*. Click the menu in to enter its further settings. You will find an area designated that can be adjusted to mask a rectangular area to give you high light suppression. Once set remember to go to *Return* to save the settings.
- D-WDR should be set to *Off* or *Outdoor*, depending on the environment.

Once you are done go down to *Return*, push the menu button and then go to *Exit*.

You should now have a perfect image for recording number plates at night. You may find the day time image to suffer as a result; you can always readjust the shutter speed to accommodate the day time environment but make note to change this back at dusk. If possible it is advised to set up a second camera configured for a better day time image; this does not necessarily have to be an NPR camera. Please contact the sales team if this is required.