

NORTH YORKSHIRE POLICE - SAFETY CAMERA VAN

Pan-Tilt-Zoom System

North Yorkshire Police provides policing services to the County of North Yorkshire. The police force area covers 3,208 square miles with approximately 55 miles of coastline. It is England's largest and mainly rural policing county with an estimated population in excess of 820,000 people, a road network of more than 6,000 miles, and arterial routes traversing the county.

North Yorkshire Police have invested in new resources to combat the rising problem of speeding motorists on the county's roads, but also to help protect their speed enforcement team whilst performing their duties at the roadside. They commissioned and took receipt of four Ford Transit safety camera vans, fully converted and incorporating Standby RSG's PTZ camera and multichannel DVR system.

One of the frustrations encountered by speed enforcement officers is that, by law, motorcycles do not have to have a front registration plate, therefore the in-vehicle rear facing static speed camera can't capture the plate details of a speeding motorcyclist. The Standby RSG, Autoeye Xpert Pro, PTZ system combats this problem with a rooftop Pan-Tilt-Zoom camera operated by a joystick control unit and viewed on an HD monitor from inside the vehicle.

Using the built-in joystick controller, the PTZ camera is rotated to face the opposite direction of the in-vehicle static camera to continuously record high resolution video footage onto an eight channel hard drive recorder. When a speeding motorcyclist passes the vehicle the enforcement officer takes a photograph using the static camera which creates a date/time stamp marker on the image, simply rewind the video footage to the matching date/time to view and log the rear numberplate. The PTZ camera can operate down to 0.0005 lux for extreme sensitivity even in low light conditions. And the powerful built-in infra-red LED's project up to 150 metres to easily illuminate a far lane of the highway allowing best use of the 25x optical zoom in the camera. Furthermore, due to the extreme speeds of some vehicles the PTZ includes a user-variable shutter speed enabling blur-free capture of registration plates.

On occasion speed enforcement officers can experience aggressive and intimidating behaviour from members of the public and motorists. The vehicle is therefore also fitted with 4 wide-angled static cameras covering each side of the vehicle, and the PTZ camera can be rotated and positioned to record activity outside and in the surrounding area when required. A panic alarm button is included which creates an incident marker and activates audio recording of the situation.



AUTOEYE XPERT PRO PTZ SYSTEM

Pan Tilt Zoom Camera (AEX-S-PTZ-1)

The Pan Tilt Zoom camera produces high resolution 1080P images at 25x optical zoom without any loss of resolution or clarity. It also handles highspeed events in a wide range of lighting conditions thanks to the user configurable shutter speed (starting at 1/30,000th of a second) coupled with a Starlight CMOS sensor (down to 0.0005 lux sensitivity) and powerful IR LEDs (up to 150 metres range).

Joystick Controller (AEX-S-PTZ-2)

The AEX-S-PTZ-2 joystick controller interfaces with the AEX-S-PTZ-1 Pan-Tilt-Zoom camera for quick and accurate location of targets via its physical and intuitive user interface. The controller allows the officer to quickly and accurately align the camera view to the required section of highway before commencing operations.

8 Channel Hard Drive Recorder (AEX-ST-DVR-X34W2)

The eight channel hard drive recorder connects 4 x AHD cameras interfaces and 4 x IP (PON) cameras with up to 1080p resolution of H.264/H.265 encoding for each camera channel. The DVR has a 2TB, 2.5" HDD/SSD hard drive with 2TB capacity with built-in shock and vibration protection. It also features a built-in GPS module precisely positioning the vehicle via satellite, recording the location information in the video stream.

19 inch HD Monitor (AEX-S-MON-1)

The AEX-S-MON-1 is a 19" ruggedised monitor offering full high definition 1080P resolution. It is ideally suited for use with the PTZ camera to ensure accurate positioning prior to recording or streaming, and can also assist in protecting operators of mobile surveillance via the DVR split screen function for multiple simultaneous camera views.

Panic Button (AEX-ST-ACC-AB)

The LED Panic Button is used to provide live status indication of DVR functions, easily create video timeline markers and initiate special functions for emergency use. It connects to the DVR via an RS485 connection which provides power for the indicator LED's and data communications for the indicator and button functions.

Additional System Cameras

Along with the PTZ rooftop camera Standby RSG also supplied 3x 1080P external cameras for installation on both sides and the rear of the vehicle, with built-in infra-red LED's to illuminate up to 5m in low light conditions. Plus, a wide-angle front facing, internal camera that can capture 3 lanes of the highway plus on coming traffic.

System Peripherals

The system is supplied complete with all the necessary adaptor, connection and extension cables for a fully operational system.



**AUTOEYE XPERT PRO
PTZ SYSTEM**

ON-SITE SYSTEM TRAINING

Expert On-site Product Training

Once the completed vehicles were delivered to North Yorkshire Police Traffic Bureau, the Standby RSG technical team arranged to visit and provide in-depth, knowledgeable group training sessions providing useful guides and ensuring that attendees were confident enough to operate the system once training was complete.

After Sales Service

Standby RSG offer ongoing specialist support for all of its Vehicle Video Systems, both hardware and software, starting with an initial trouble shooting remote or telephone consultation to site visits as well as bespoke maintenance contracts. Contact our after sales team for more information.



If you think this Autoeye Xpert Pro system would suit your needs or would like to discuss a bespoke system, our sales team are happy to receive your call on 01543 438800 or email info@standbyrsg.co.uk