Secore II
ANPR Camera

Product Datasheet

YUNEX TRAFFIC

Overview

The Yunex Traffic Secore II ANPR camera outstation is the foundation of many successful enforcement schemes, providing both reliable and precise vehicle detection and data capture.

How we help?

Secore II is an ANPR camera outstation that provides high-resolution evidential imaging for a wide variety of enforcement applications. In use, at scale, across the UK and globally, the Secore II outstation delivers robust and reliable performance across the following applications:

- Road User Charging and Tolling
- Low, Ultra Low and Clean Air Zone Enforcement
- Average and Spot Speed Enforcement
- Bus Lane Enforcement
- Journey Time Monitoring
- Access Control
- Police surveillance

How it works?

The Secore II ANPR outstation detects, identifies and captures vehicle registrations. The outstation transfers vehicle data via secure communication transmission protocols to hosted, and on-premise, back-office infrastructure where data can be analysed and actioned by authorised users as required.

Detection Accuracy

The Secore II proprietary vision engine is built on a foundation of 30 years' experience and is responsible for vehicle detection, tracking and plate selection, as well as speed estimation. A quad core industrial processor is utilised for maximum computing power and to support complex analytics.

Capture Precision

Secore II delivers outstanding ANPR and overview images with every trigger. The flash unit and Sync CPU have complete control over the flash duration and power for each camera, ensuring perfect exposure for every image.

Secure Data Transmission

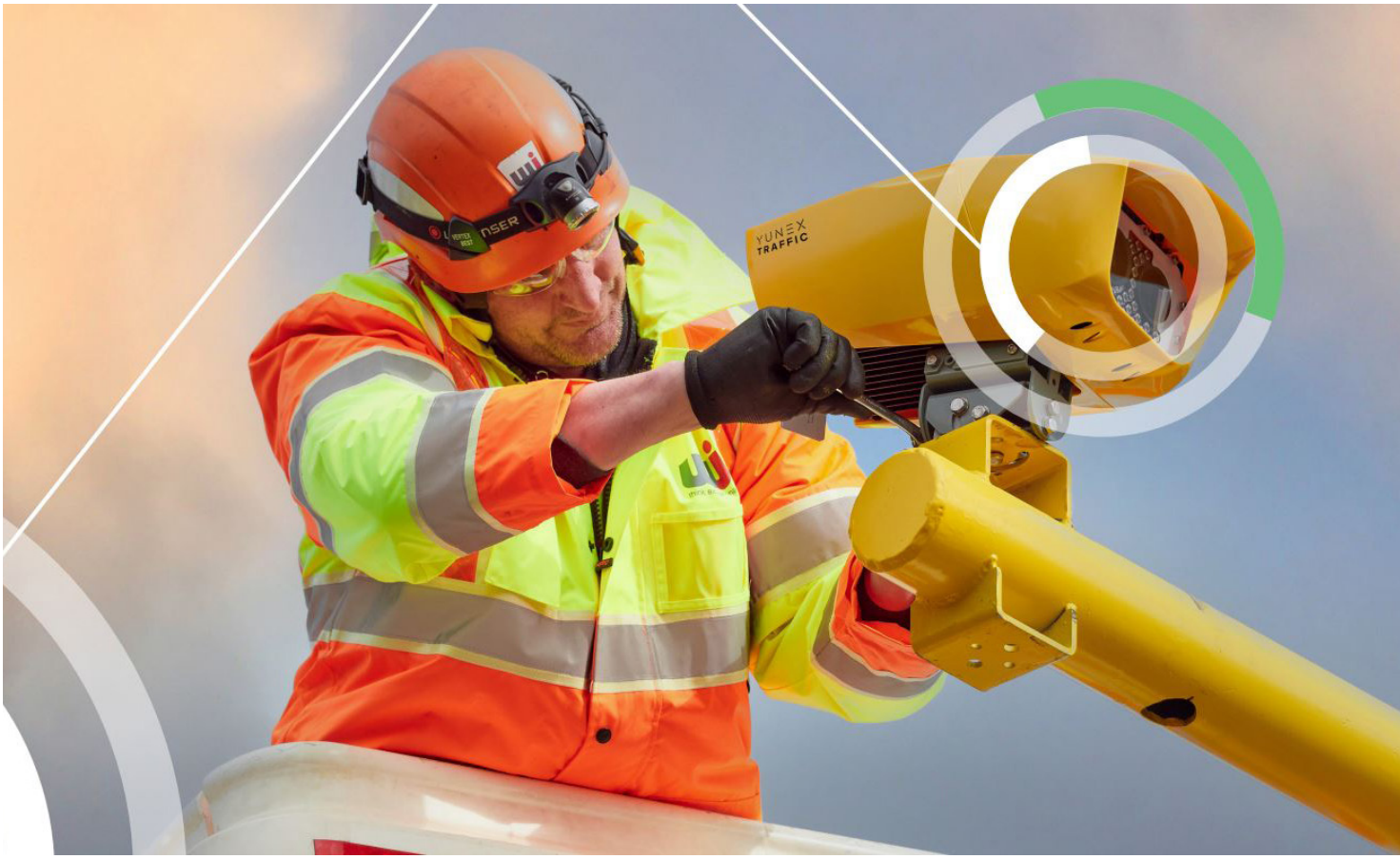
Secore II uses the latest VCA and HOTA approved security processes to secure and transmit captured evidential records on the outstation to our data processing infrastructure, ensuring the highest levels of data security.

Product Features and Benefits

- Two 2.3-megapixel Full High-Definition cameras for both IR and overview, guaranteeing the production of high-quality images for each vehicle captured.
- Real time ‘Sync CPU’ for accurate exposure and illumination control for perfecting exposed images.
- Quad core industrial processor capable of capturing real time vehicle data over three lanes of traffic with over 2000 vehicles per hour in each lane.
- Robust secure storage and transmission protocols ensure evidential data is protected throughout the enforcement process.
- VCA approved for bus lane enforcement and clean air zones.
- HOTA approved for average speed enforcement.
- Mechanically designed to function in varying climates

Supporting Features

- Secore II can live stream (H.264) from both ANPR and overview cameras to bridge ANPR and CCTV features
- Secore II can integrate additional parallel communications to Urban Traffic Management Control (UTMC) and BOF2 police back offices.
- Secore II can be connected to a wide range of roadside equipment, such as weigh in-motion, loop and RADAR sensors to support a variety of enforcement applications.



Technical Specification

Image Resolution	2.3M Pixel cameras (1920 x 1200 FHD)
IR illumination	850nm
Lux	Overview camera: 0.17lux ANPR camera (with IR Illumination): 0.0lux
Lens (options)	12.5mm, 16mm, 25mm, 35mm
Streaming	H.264
Solid State Memory	128GB
Communications	3G/4G modem (Optional), Wi-Fi module (Optional), 10/100/1000 Ethernet Isolated RS422/RS485, Isolated RS232
Environmental Protection	IP66
Timing sources	Internal Crystal, NTP network time server, GPS
Connector	Connector
Input / Outputs	4 Digital inputs: Isolated, 12-24V DC constant current trigger inputs 4 Digital outputs: Isolated open drain, 24V / 0.5A maximum per output Isolated solid state changeover relay contact – maximum rating 50V / 50mA Isolated power switch – maximum input 24V DC / 0.5A current limit All Isolated I/O rated to 50V Peak AC / DC.
Power Supply	24V DC +10% -30% Negative earth [16.8 – 26.4V at the camera] Inrush Current: <10A
Transients	To BS EN50293:2001
Power Consumption	25W Nominal
Isolated Interfaces	50V Peak AC / DC
Power break support times	100ms minimum at nominal 24V DC supply
Size	L: 455 x W: 285 x H: 175mm (excluding connectors)
Weight	6 Kg (excluding bracket)
Operating Temperature Range	-30°C to +60°C
Material / Finish	Plated aluminium, Polycarbonate sun shield and front screen
Approvals	• CE Approved • RoHS Compliant IR Flash IEC 62471 Risk Group 1 Designed to meet the relevant sections of: • EN50293 Electromagnetic compatibility (EMC) Home Office Type Approval (HOTA) for: • Average speed enforcement Vehicle Certification Agency (VCA) Approved Device for: • Bus Lane Enforcement Solutions • Clean Air Solutions

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