

COBRA ANPR Image Capture System

The Cobra Automatic Number Plate Recognition Image Capture system has been designed to read vehicle licence plates day and night, in the most demanding conditions. The Cobra system can be supplied with a range of different internal camera and IR illumination options offering unmatched flexibility - suitable for any ANPR application such as fixed site, long range and portable ANPR applications.

A principal feature is the use of high resolution optical zoom cameras – both for ANPR and high definition overview/contextual imaging. Zoom functionality means the Cobra system can be rapidly optimised to suit differing plate and environmental conditions at ANPR capture points. The Cobra can be easily moved from one location to another and the settings simply adjusted – avoiding the need for time consuming, risky and costly re-lensing. The zoom function as well as other camera settings can be interrogated, controlled and changed by a bi-directional communication protocol and an intuitive Graphical User Interface (GUI) allowing for easy set-up and maintenance.

Globally, number plates have widely differing characteristics and contrasts. The Cobra overcomes this problem by having a choice of IR wavelengths available - 810,870 and 940NM. Zoom functionality enables the cameras field of view to be optimised to local plate sizes. Additionally, both IR pulse duration and illumination power can be adjusted by the user. In its long range dual illuminator configuration the camera has a range of up to 45 metres (subject to wavelength).

Obtaining high confidence recognition and accuracy results in bright sunlight, when plate characters are partly shaded is a significant challenge. At night time the effect of bright headlights needs to be suppressed to improve the accuracy of recognition. The Cobra has a number of features designed to combat these problems, including improved processing gain and narrow band IR filtering.

KEY FEATURES

- Compact & Lightweight ANPR image capture system
- High reliability and read accuracy
- Flexible range of camera modules and Illumination
- Operating under all weather conditions
- High environmental specification
- Easy to install, use and maintain
- Compatible with CCTV equipment



Appian Technology Plc
Appian House, Wessex Road,
Bourne End, Buckinghamshire,
SL8 5DT. United Kingdom
Tel: +44 (0) 1628 554 750
Fax: +44 (0) 1628 554 751
Web: www.appian-tech.com
Email: sales@appian-tech.com

For more information on this product please contact our sales team direct.

Tel: +44 (0) 1628 554750

E-mail: sales@appian-tech.com

Web: www.appian-tech.com



COBRA ANPR Image Capture System

SPECIFICATIONS:

Cobra Image Capture System Configurations:

- Single Configuration:** Single illuminator - Single monochrome ANPR camera
Dual Configuration: Single illuminator - Single monochrome ANPR camera - Single colour camera for overview imaging
Long Range Configuration: Two illuminators - Single monochrome ANPR camera

Camera specifications:

MONOCHROME CAMERA MODULE

- Lens:** 18X Zoom f=4.1 mm (wide) to 73.8 mm (tele), F1.4 to F3.0
Signal System: EIA/CCIR
Image Sensor: Exview HAD CCD
Angle of View (H): 48 degree (wide end) to 2.7 degree (tele end)
S/N Ratio: More than 50 dB
Electronic Shutter: EIA 1/60 to 1/10,000s, 16 steps
CCIR 1/50 to 1/10,000s, 16 steps
Gain: -3 to 28 dB, 2 dB steps
Video Output: VBS: 1.0 Vp-p (Sync. negative)
IR Illuminator: 810nm, 870nm, 940nm - variable pulse duration and illumination power

COLOUR CAMERA MODULE

- Lens:** 18X optical zoom f=4.1 mm (wide) to 73.8 mm (tele), F1.4 to F3.0
Signal System: NTSC/PAL
Image Sensor: Exview HAD CCD
Angle of View (H): 48 degree (wide end) to 2.8 degree (tele end)
S/N Ratio: More than 50 dB
Electronic Shutter: 1/60 to 1/10,000s, 16 steps
1/50 to 1/10,000s, 16 steps
Gain: Auto / Manual
(-3 to 28 dB, 2 dB steps)
Video Output: VBS: 1.0 Vp-p (Sync. negative)
Minimum Illumination: 0.7lux (F1.4, 1/50 or 1/60, 50IRE) typical
Integrated Light Sensor: Measures the visible light level



GENERAL

- Communications:** Bi directional RS 232 communications with PC's.
Allows settings to be downloaded to the camera. Camera settings can be stored off-site, and sent into the camera. This eases maintenance and allows a central database to store and retrieve camera settings.
- Connections:** RS232, power and video, all galvanically isolated.
- Mounting Bracket:** Full 3 axis gimballed mount.
- Sun shield:** Available as an option. The use of the sun shield is recommended in environments where the camera is exposed to prolonged periods of solar heating.
- Operating Voltage:** 9 to 40 V DC - (DC variant only)
12 to 24 V AC/DC (Universal variant only)
- Power Consumption:** 8 W average, 50 W peak
- Dimensions:** **Cobra:** H 90mm X W 180mm X D-195mm
Cobra with sun shield: H 110mm X W 210mm X D 240mm
Bracket: H 80mm
- Weight:** **Cobra:** 2.2 KG
Cobra with sun shield: 2.4 KG
Cobra with Bracket: 2.5 KG
- Environmental:** Sealing: IP 68
Temperature: Storage - 20° C to + 60° C
Operational - 10° C to + 55° C
Wind Loading (mounted on Cobra bracket) - 160 Kph / 45m/s
- Accreditations and Approvals:** CE, FCC

For more information on this product please contact our sales team direct.

Tel:+44 (0) 1628 554750

E-mail: sales@appian-tech.com

Web: www.appian-tech.com

Due to a policy of continued product development, Appian Technology PLC reserves the right to alter or amend any published specifications without notice.

