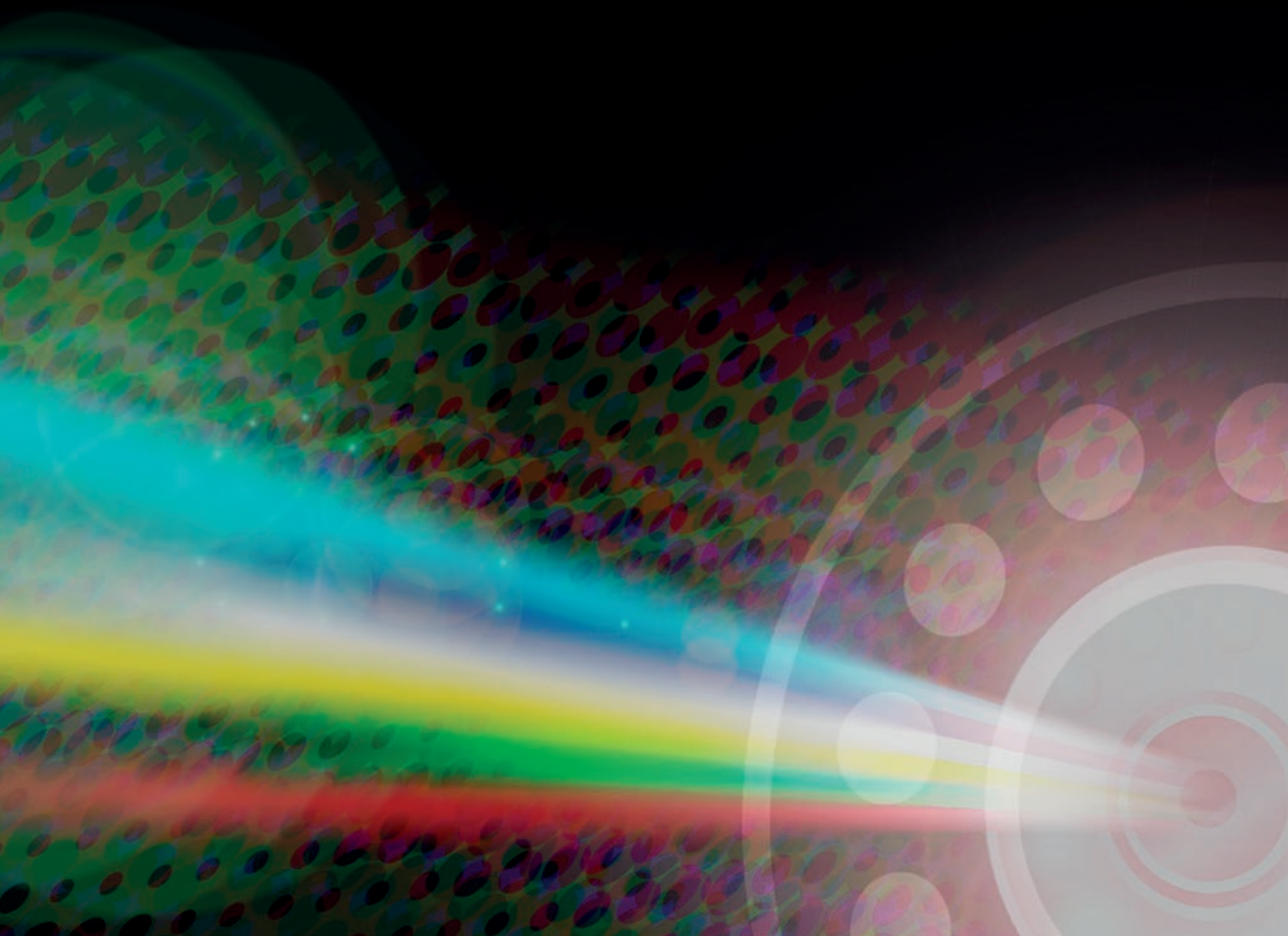# S-COMM

UNDER VEHICLE SURVEILLANCE SYSTEM

S-COMM is a portable or permanent real time colour UVSS system designed and manufactured in the UK by SAE Systems to provide an affordable, robust and dependable under vehicle examination system for all vehicle check points on any terrain day or night.

THE AFFORDABLE ROBUST AND DEPENDABLE SOLUTION
FOR ALL VEHICLE CHECK POINTS ON ANY TERRAIN

S-COMM's unique adjustable camera arrangement allows the end user to position each camera in a forward, vertical or rear facing position enabling sharp and accurate under vehicle images penetrating even the deepest recesses. Its high intensity led illuminated cameras coupled to the latest in Sony camera technology ensure sharp and accurate high frame rate imagery and video feedback to the controller day or night and in any conditions.

Rated to IP68 the electronics and camera package is water resistant and can be located on virtually any terrain prone to flooding.

The simple plug&play set up procedure means the S-COMM can be installed on site and working in a matter of minutes in a portable format or permanently bolted to the road surface in less than an hour.

The Fusion 5X 1080p TVI is a class leading high definition digital video recorder providing up to 1 month of recording time on its integral 1TB hard drive, in conjunction with the Flexscan S1934 19" LED Monitor the S-COMM6 UVSS provides the operator with the latest in TVI image quality.

The S-COMM UVSS comes supplied with a 6 camera configuration, designed specifically to handle both standard sized vehicles and also larger HGV/Tractor vehicles. The S-COMM is the ideal UVSS system where vehicle undersides need to me checked and monitored whilst being able to keep the traffic flowing.

Specific attention has been given to the cable and wiring looms, the UVSS to DVR cable link is engineered from multi core coaxial cable individually shielded in pvc and steel flexible conduit capable of standing up to constant vehicle traffic without any fuss or impact on the integrity of the cables.

Each cable loom is 10m long as standard, allowing plenty of flexibility in the location of the UVSS in relation to the control point. The cable can be tailored to meet customer requirements if longer or shorter lengths are required.

No compromise has been made in the build quality of the S-COMM, its rugged design means virtually no maintenance is required and training is minimal and fully covered in the user information provided with the system.

UVSS **S-COMM 6** (6 Camera System)

S-COMM

UVSS S COMM CAMERA TECHNOLOGY

C5032 IP68 DSP COLOR CIRCULAR CAMERA HIGH RESOLUTION 700 TV LINE

The C5032 Camera's are high quality Water Resistant IP68 rated camera's designed specifically for use with SAE Systems range of S-COMM UVSS systems.

TECHNICAL SPECIFICATION

Lens	F=3.6
Light source	12pcs white LED
Specification	1/3 SONY (960H Ex view) EFFIO-E 700TVL Super HADII Low Lux CCD
DSP	CXD4140GG
AFE	D5148GG
Signal System	PAL
Pixels	976H.582V (PAL)
Horizontal Resolution	700TVL
Minimum illumination	0.0001Lux
Sync System	Internal
S/N Ratio	≥48dB
Shutter speed	1/50(1/60) - 1/100000 /sec
White balance	auto
Backlight compensation	(HLC)
Auto Iris	Video/DC
Power Supply	DC12V
Operating Current	150mA
Operation Temperature	-20°C-+60°C
Size	50.52mm
Video out	1Vp-p75Ω CVBS
Video connector	BNC
Power connector	2.1mm Female DC connector

S-COMM

FUSION-5X DVR – HD 1080P TVI

The FUSION-5X is a commercial 8 channel Penta-Tech DVR that combines 5 video technology formats. Especially selected for use with the S-COMM6 UVSS the FUSION 5X will support up to HD 1080p TVI image quality. The BNC inputs support all the major formats such as HDCVI, HDTVI, AHD and CVBS (Analogue). Four additional IP Cameras can also be added to the system to make a total of 12 channels.

The FUSION-5X has Smart H.264E (Enhanced) Compression with offers HDD and bandwidth savings of up to 70%! It comes in a 1.5U rack mount case with 4 internal SATA ports, 8 Alarm Inputs and 6 Alarm Outputs (Relays). It supports up to 9 channel playback with backup methods including USB, eSATA, Internal SATA Burner and network download.

TECHNICAL SPECIFICATION

Performance		Connectivity	
	BNC Resolution (Max) 1080P		Total Video Channels 12
	BNC Frame Rate 1~15fps – 1080P		(8 x BNC Cameras + 4 IP Camera = 12 Channels Total)
	1~25fps – 720P / 1080N		IP Channel Possibility 12
	IPC Resolution (Max) 5MP		BNC Channel (Max) 8
	IPC Recording Bandwidth 48Mbps		Audio Input (RCA) 4 / Audio Output (RCA) 1
	Processor Embedded (HiSilicon)		2 Way Audio Supported Yes
	Video Compression H.264E, H.264		Alarm Inputs 8 / Alarm Outputs 6
	Audio Compression G.711/PCM		HDMI 1
			BNC 1 (Spot)
Software	OS Embedded Linux (ICR OS)		PoE IPC Ports –
	Video Detection Motion Detection, Video		10/100M RJ45 Port –
	Loss & Camera Masking		10/100/1000M RJ45 Port 1
	Smart Search -Yes		RS-485 1
	Intelligence IVS and Face Detect		RS-232 1
	Simultaneous Playback 1/4/9		USB Ports (1 x USB 2.0 / 2 x 3.0) 3 (Total)
	Max User Access 128		
	Network Functions Alarm Server, DDNS, DHCP, DNS, Email, FTP, HTTP, IP	**Storage**	SATA Ports 4 (Max 8TB per Disk)
			RAID –
	Filter, IPv4, IPv6, PPPoE,		eSATA Port 1
	RTSP, SMTP, TCP/IP, UDP, UPnP		Backup Methods USB, eSATA, Internal Burner, Network
	IPC Support IC Realtime, ONVIF, Axis, Bosch, Dahua, Hikvision, Panasonic, Pelco, Samsung, Sony, UNV & many more	**Environmental**	Case Type 1.5U Rack or desktop mount
	Smart Phone / Tablet ICRSS Pro & ICView		Dimensions 440mm (W) x 416mm (D) x 68mm (H)
	PC / Mac Software SmartICRSS & Web Browser		Weight 6KG without HDD
	Push Notifications -Yes		Power Supply AC100~240V. 50/60 Hz
	P2P -Yes		Power Consumption without HDD <25W
	Extra Stream -Yes		Working Environment -10deg C ~ +55deg C / 86~106kpa
	ARC Integration -Yes		Storage Conditions -0deg C ~ +50deg C / 0~90% RH
Warranty	Five Years	**Country of Origin**	European Union

FLEXSCAN S1934 19" LED MONITOR

1080P TVI QUALITY

The S1934 monitor has been specially selected and tested in conjunction with the S-COMM6 UVSS and DVR to optimise 1080p TVI quality imagery.

Height & Tilt Adjustable
The height and swivel adjustments facilities are especially useful in a control room environment when operator ergonomics are important.

Selectable Optimised Brightness with Auto EcoView
The Auto EcoView function is a sensor on the front of the monitor that measures ambient light and optimizes the screen's brightness so the monitor remains at optimum brightness in all light conditions whilst reducing power consumption at the same time. This is a turn on/ turn off feature selected via a button on the front off the monitor.

TECHNICAL SPECIFICATION

Model Variations	With Height Adjustable Stand, with Tilt Stand	**Dimensions (Landscape, W x H x D)**	With Height Adjustable Stand: 405 x 406.5 – 506.5 x 205 mm With Tilt Stand: 405 x 414 x 205 mm
Cabinet Color	Black	**Dimensions (Without Stand, W x H x D)**	405 x 334 x 61.5 mm
Type	IPS		
Backlight	LED	**Net Weight**	With Height Adjustable Stand: 5.6 kg / 12.3 lbs With Tilt Stand: 4.6 kg / 10.1 lbs
Size	19" / 48 cm		
Native Resolution	1280 x 1024 (5:4 aspect ratio)	**Net Weight (Without Stand)**	3.8 kg / 8.3 lbs
Viewable Image Size (H x V)	374.8 x 299.8 mm		
Pixel Pitch	0.293 x 0.293 mm	**Height Adjustment Range**	With Height Adjustable Stand: 100 mm With Tilt Stand: –
Display Colors	16.77 million from a palette of 1.06 billion		
Viewing Angles (H / V, typical)	178°, 178°	**Tilt**	With Height Adjustable Stand: 30° Up, 0° Down With Tilt Stand: 30° Up, 5° Down
Brightness (typical)	250 cd/m2		
Contrast Ratio (typical)	1000:1	**Swivel**	With Height Adjustable Stand: 35° Right / 35° Left With Tilt Stand: –
Response Time (typical)	14 ms (Gray-to-Gray)		
Input Terminals	D-Sub mini 15 pin x 1, DVI-D 24 pin x 1 (with HDCP), DisplayPort x 1 (with HDCP)	**Pivot**	With Height Adjustable Stand: 90° With Tilt Stand: –
Digital Scanning Frequency (H / V)	31 – 64 kHz, 59 – 61 Hz	**Hole Spacing (VESA Standard)**	100 x 100 mm
Analog Scanning Frequency (H / V)	31 – 64 kHz, 55 – 61 Hz	**Operating Temperature**	5 – 35 °C
Sync Formats	Separate	**Operating Humidity (R.H., non condensing)**	20 – 80 %
Power Requirements	AC 100 – 240 V, 50 / 60 Hz		
Maximum Power Consumption	21 W	**Certifications & Standards (Please contact EIZO for the latest information.)**	TCO Certified Displays 7, EPEAT Gold (height adjustable stand version) / Silver (tilt stand version) (US), TUV/Ergonomics, TUV/GS, RCM, CE, CB, cTUVus, FCC-B, CAN ICES-3 (B), TUV/S, VCCI-B, EPA Energy Star, RoHS, WEEE, China RoHS, CCC, EAC
Typical Power Consumption	9 W		
Power Save Mode	Less than 0.5 W		
Power Management	Power Save (VESA DPM and DVI DMPM)		
Preset Modes	Color mode (Paper, sRGB, User1, User2, DICOM)	**Supplied Accessories (May vary by country)**	AC power cord, signal cables (D-Sub – D-Sub, DVI-D – DVI-D), audio cable, setup guide, CD-ROM (PDF user's manual)
Auto EcoView	Yes		
OSD Languages	English, French, German, Italian, Japanese, Simplified and Traditional Chinese, Spanish, Swedish	**Country of Origin**	Japan
		Warranty	Five Years

QUICK AND EASY INSTALLATION

S-COMM is designed for quick and easy installation. The unit arrives crated with top covers in place, if you are planning on a temporary siting of the UVSS for low traffic volumes at low speeds the unit can be simply placed in the location you wish, if you are planning a more permanent or semi permanent siting, to start the installation procedure simply remove the top covers with an allen key and place the UVSS structure in the position required. Inside the UVSS you will see two pre-holed channels running down each side of the system.

Depending on the type of surface to intend to fix the system to you select the appropriate bolting method and using the holes in the UVSS channel locate the system by bolting it to the surface of the road.

Once this is done you can replace the outer covers and connect the DVR to the monitor and power supply, followed by connecting the individual camera coax's to the numbered ports on the back of the DVR. The system is then ready to boot up.

S-COMM 6 c/w 6 Cameras, 6 modules, 2 end modules (2490mm x 460mm x 85mm) 95kg inc cable

To find out more about the S-COMM Under Vehicle Surveillance System or to make an order please email or call us using the contact details below:

SAE Systems Limited
Staithe House
The Staithe, Thurne
Norfolk, NR29 3BU
United Kingdom

Tel: +44 (0)1692 671918
Email: **info@sae-ltd.com**
Web: **www.undervehicle.co.uk**
Web: **www.saesystems.org**