

SR4: FUELLING THE FUTURE OF INTELLIGENT TRANSPORTATION

A state-of-the-art open and configurable hardware architecture built to carry your fleet into the future of video-based safety and transport intelligence, SR4 gives you next-generation capabilities that are big on innovation and small in scale.



System Features

- Open, extensible architecture supports OBDII, J1939 and J1708 protocols
- Ruggedised, tamper-resistant case
- Small footprint cameras allow for optimal placement and regulatory compliance
- 360° multiple camera integration - support for up to 9 inputs in and around vehicle
- Solid State Drive (SSD) extended recording with 128, 256 and 512 GB configurations
- Microphone and audio out external speaker support for record and alert configurability
- Detect and alert on abrupt power loss
- Mobile configuration tool for enhanced installation and diagnostic support*
- Cellular, Ethernet and WiFi connectivity
- Wireless key fob for in-cab and out-of-cab event triggering*

SR4 Components



CONTROLLER Purpose-built, future-ready unit housing the intelligent monitoring and recording functions. Provides expandable solid state storage and a powerful processor to support on-board ADAS functions and computer-vision aided processing requirements.



CAMERAS New small footprint road and interior-facing cameras minimise impediments to the driver's field of view and provide easier compliance with regulations.



SENSOR BAR Combines GPS, accelerometers, microphone and LEDs that support driver feedback.




KEYPAD Offers manual event creation, privacy mode initiation and 6-digit entry driver ID.



WIRELESS KEY FOB This optional device provides drivers with the ability to initiate a manual recording event both inside and outside the vehicle.

TECHNICAL SPECIFICATIONS

OPERATING PARAMETERS	
Standard input voltage	<ul style="list-style-type: none"> 9V–48V Supports standard 12V, 24V & 36V vehicle electrical systems
Disconnect reporting	<ul style="list-style-type: none"> Detect and alert/report on abrupt power loss
Electrical system protection	<ul style="list-style-type: none"> 5A automotive blade-type fuse Reverse polarity protection Transient voltage spike protection
Power consumption approximate	<ul style="list-style-type: none"> Active mode at 12V (transmitting) – 920mA Active mode at 12V (non-transmitting) – 810mA Sleep mode at 12V – 10mA
Environmental	<ul style="list-style-type: none"> -40F to 185F (-40C to 85C) operating -40F to 221F (-40C to 105C) storage
Battery	<ul style="list-style-type: none"> Rechargeable
Hibernation/standby	<ul style="list-style-type: none"> 60 minutes; configurable
PHYSICAL CHARACTERISTICS	
Dimensions (W x H x D)	<ul style="list-style-type: none"> Controller: 6.45 in x 2.37 in x 4.94 in (163.9 mm x 60.3 mm x 125.5 mm) Sensor bar: 3.43 in x .57 in x 1.26 in (87 mm x 14.5 mm x 32 mm) Camera: 1.64 in x 1.77 in x 1.51 in (41.6 mm x 45.0 mm x 38.4 mm)
Weight	<ul style="list-style-type: none"> Controller with modem: 11b 10.2oz (mounting bracket excluded) (.74kg) Controller with modem & SSD: 11b 10.8oz (mounting bracket excluded) (.75kg) Road-facing camera with cable & bracket: 5.0oz (.14kg) Interior-facing camera with cable & bracket: 5.3oz (.15kg) Sensor bar with cable: 6.9oz (.19kg) Keypad: 5.3oz (.15kg)
CONTROLLER AND SENSOR BAR	
Motion sensors	<ul style="list-style-type: none"> Low G, 3-axis accelerometer + 3-axis gyroscope High G, 3-axis accelerometer
Status lights (LEDs)	<ul style="list-style-type: none"> Controller: 3 LEDs provide installation & tech support Sensor bar: Tricolor LEDs provide system health & triggering confirmation
Internal storage	<ul style="list-style-type: none"> 16 GB
Extended Recording storage (optional)	<ul style="list-style-type: none"> 128 GB, 256 GB or 512 GB Solid State Drive
Microphone	<ul style="list-style-type: none"> Built-in microphone
GPS	<ul style="list-style-type: none"> Integrated GPS Option for external GPS

CAMERAS	
Field of view	<ul style="list-style-type: none"> Road-facing 106° exterior view Interior-facing 140° interior view
Video resolution	<ul style="list-style-type: none"> 768 x 432 resolution Four frames per second
Video channels (Streams)	<ul style="list-style-type: none"> Up to 4 cameras supported at initial availability: encompassing 2 SmartDrive digital, 2 analog (as the road-facing camera). Future support for up to 9 cameras.
Night vision illumination	<ul style="list-style-type: none"> Two-area IR LEDs for night time & low-light cab video
COMMUNICATIONS AND VEHICLE CONNECTIVITY	
WiFi protocol	<ul style="list-style-type: none"> 802.11 b/g/n at 2.4 GHZ
Cellular	<ul style="list-style-type: none"> 4G/LTE with 3G fallback
GPS	<ul style="list-style-type: none"> Integrated GPS (NMEA 0183 protocol)
Ethernet	<ul style="list-style-type: none"> 10/100 Mbps
Bluetooth	<ul style="list-style-type: none"> Bluetooth 4.x
Serial interfaces	<ul style="list-style-type: none"> USB 2.0 (1); RS232 (1)
ECU vehicle communication protocol	<ul style="list-style-type: none"> Light duty: OBDII protocol ISO 15765 CAN Medium and heavy duty: SAE J1708, SAE J1939
ECU enabled services	<ul style="list-style-type: none"> Integration to third-party active safety systems
Vehicle interface	<ul style="list-style-type: none"> 6-pin, 2 & 9-pin cable ECU interfaces (per OEM configuration) Wired ignition, power & ground
Expansion ports	<ul style="list-style-type: none"> Up to 6 additional inputs or interchange triggers
SECURITY	
WiFi	<ul style="list-style-type: none"> WPA2 with EAP-PSK. EAP-TLS standard WPA PSK, TKIP WEP 64-bit & 128-bit encryption available
Cellular	<ul style="list-style-type: none"> Over-the-air encryption supported
CERTIFICATIONS	
Certifications/standards	<ul style="list-style-type: none"> FCC, PTCRB, CE, IC, RoHS, e-Mark EN 301 489-1/7/17 for USA, UK, Australia IEC/EN 60950-1 ISO 9001:2000
	
Limited warranty	<ul style="list-style-type: none"> 2 years; extended warranties available

*Some features may represent future product capabilities.



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SMARTDRIVE SYSTEMS

SmartDrive Systems, the recipient of Frost & Sullivan's Customer Value Leadership Award for Video Safety Solutions, gives fleets and drivers unprecedented driving performance insight and analysis, helping save fuel, expenses and lives. Its video analysis, predictive analytics and personalised performance programme help fleets improve driving skills, lower operating costs and deliver significant ROI. With an easy-to-use managed service, fleets and drivers can access and self-manage driving performance anytime, anywhere. The company, which is ranked as one of the fastest growing companies by Deloitte's Technology Fast 500™ for four years in a row, has compiled the world's largest storehouse of more than 210 million analysed risky-driving events. SmartDrive Systems is based in San Diego, and employs over 650 people worldwide.

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