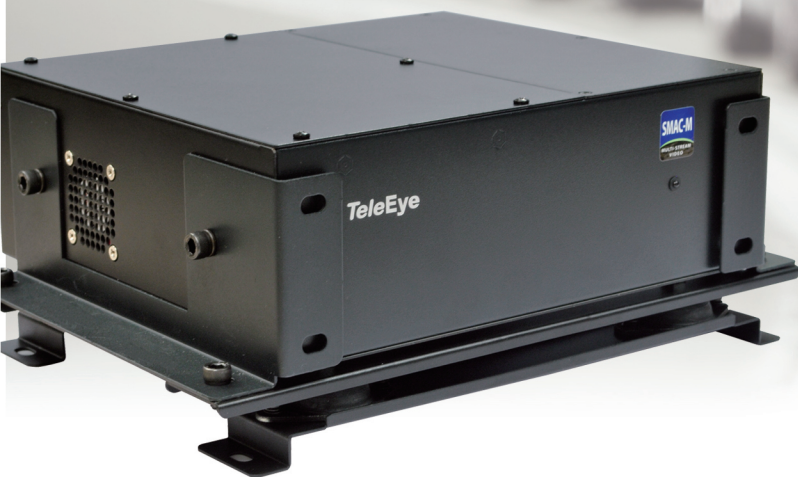# RX538
Ultra Hi-Res Mobile Digital Video Recorder

TeleEye

Award Winning Mobile DVR
for Vehicle Security and Fleet Management

TeleEye RX538 mobile DVR with 960H resolution is designed for securing the safety of public and cash-in-transit vehicles. An efficient security solution is crucial for safeguarding vehicles that transport high valued goods, such as cash-in-transit vans. Apart from preventing vehicle heists and robbery threats, this DVR is able to withstand harsh conditions such as temperature fluctuations from -25°C to 50 °C and power interruptions. With the unpredictable road conditions in mind, the RX538 is engineered with good stability and is not affected by vibrations. Therefore, no matter what the conditions are outside or within the vehicle, the RX538 will continue to record smoothly at all times.

SMAC-M
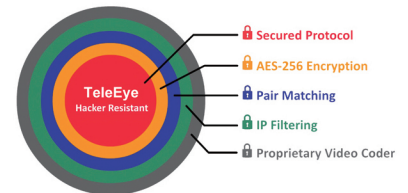MULTI-STREAM
VIDEO

RX

RX538 Ultra Hi-res Mobile DVR

Efficient Streaming for Instant Response

TeleEye RX538 operates on a 3G/4G network. Where low latency and unreachable fixed networks are a concern, this DVR, incorporated with SMAC-M technology ensures that operators in the control room can stream the video footage smoothly without buffering and disruptions. TeleEye SMAC-M provides real-time monitoring and recording with minimal delay during the transmission of data.

Hacker Resistance & Data Security

Experts at TeleEye have created the TeleEye Hacker Resistance Technology, that comes with 5 layers of protection. This unique technology aims to safeguard the captured video data of the events happening within the vehicles as soon as they depart from the depot. It is crucial to safeguard the video data that are being delivered via a public network.

TeleEye
Hacker Resistant

🔒 Secured Protocol
🔒 AES-256 Encryption
🔒 Pair Matching
🔒 IP Filtering
🔒 Proprietary Video Coder

Physical / GPS Checking on Vehicle's Data

With our GPS tracking function 3G router, operators can easily track and pinpoint the location of the vehicles as they move, alerting the operators if the vans deviate from the designated course. The GPS tracking function is vital for vehicle security, as it will assist in stolen vehicle recovery procedures. Overall activities such as route planning, estimating arrival and departure times can discourage speeding and contribute to better driving practices, improve efficiency and cut fuel costs.

Data Retention for Future Investigation

Storage capacity can be released by extracting and storing the video data onto a separate storage device so that older records can also be retained. This enables video footages to be retrieved at a later point in time and for assisting investigations and tracing evidence.

Larger Capacity, Longer Recording

The DVR is designed to continuously record the events that occur within a vehicle over a long period of time. Equipped with 2HDDs, the RX538 provides a large amount of storage capacity that allows more data to be recorded and stored.

BS 8418 Professional CCTV Compliance

TeleEye supplies indispensible and complete end-to-end surveillance solutions that adhere to the BS8418, British CCTV standards. In case of heists or other threats, the drivers can push a button to send an alarm and seamless video from the RX538 to notify the operators at the central monitoring station. Also if a network failure was to occur, TeleEye sureSIGHT video management software can easily switch the monitoring from one place to another to overcome this.
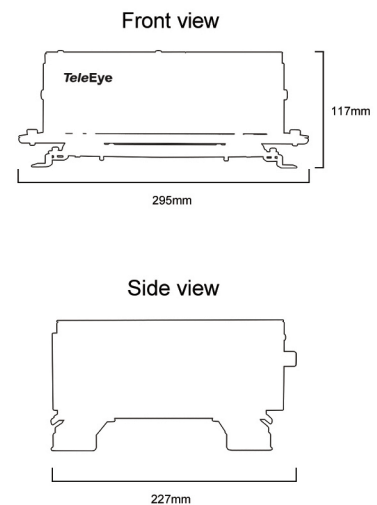
Award Winning DVR

The Hong Kong Security Association (HKSA) has recognised TeleEye RX538 mobile DVR as one of the "Best Crime Preventive Products" in 2015. This Annual Security Awards is organised by the HKSA, based on the product innovation, uniqueness, potential applications and the benefits to users.

TeleEye

Specification

Video Input	No. of Channels	8
	Format	PAL: 625 lines, 25fps NTSC: 525 lines, 30fps Composite video, 1Vpp, 75ohm, BNC
	Video Input Connector	DB25, bundle with DB25 to BNC connectors
	Resolution	PAL: 960x576 NTSC: 960x480
Video Output	Digital TV Out	1 Channel, 1920x1080 50P/60P
	VGA	1 Channel, 1920x1080 50P/60P
Audio Input	No. of Channels	4
	Standard	Line level RCA Input impedance: 30KΩ Frequency: 200-3500Hz
Audio Output	No. of Channels	Public addressing x 1, audio output x 1
	Standard	Line level RCA Output impedance: 600Ω Frequency: 200-3500Hz
Recording	Internal HDDs	Up to 2x2.5" SATA HDDs
	Max. Recording Rate	PAL: up to 200fps @ WD1/CIF NTSC: up to 240fps @ WD1/CIF
	Mode	Manual, schedule, motion, event-driven
	Retention	1-999 days retention period
	Playback	Forward, backward, pause, step foward, step backward, fast forward
Footage Extraction	Media	USB flash, HDD & TCP/IP
	Extraction Modes	All cameras / selected cameras / quick mode
Communication	Network	RJ-45, 10/100/1000 base-T ethernet
	Concurrent Users	6
	Connection Stream	LAN / broadband / narrowband / mobile
	Built-in Web Server	JAVA
	Keyboard Control	RS422 / RS485, 1 channel input
	USB	USB 2.0, 2 channels
	Others	Support USB 3G & 4G modem, sureLINK & uPNP
Event Handling	Event	External alarm, tamper, motion detection, video loss, power interruption, disk full, system failure, disk fault
	Action	Buzzer, dial back, local recording, relay control, email notification, SMS, PTZ
	External Alarm Inputs	16x, NC/NO (with tamper detection)
Relay Switch	No. of Channels	4 (push-button / latch)
	Max. Rating	24V AC, 1000mA
Power	Voltage	9-24V DC, (nominal 12V DC)
	Max. Rating	25W
Operating Environment	Ambient Temperature	-25 °C - 50 °C
	Relative Humidity	<85% (non-condensation)
Mechanical Design	Weight	2.5kg

Features

- Max. resolution: 960x576 (PAL) & 960x480 (NTSC) (33% > D1)
- Real time recording up to 240fps
- Dual compression: H.264 + SMAC-M
- Up to 8 video inputs & 16 alarm inputs
- Hacker Resistant technology
- Remote video surveillance on 3G & 4G network
- Automated digital recording initiated by vehicle's ignition
- Playback & video extraction via Wi-Fi
- Fast detactment & shock protection
- Support up to 2x2.5" SATA HDDs
- British standard BS8418 compliant

Dimension

Front view

117mm

295mm

Side view

227mm

Recording Time Estimation for RX538:

No. of Channels	Storage Size	fps	Days
8	2 TB	5	62
		12	20
		25	13

Remarks: The table illustrates the recording size requirements under different resolutions and performances based on 8 cameras, 2TB storage size and moderate motion. Actual recording size required is subject to the actual camera situation.
Please refer to the HD calculator in the TeleEye website for details.

TeleEye

TeleEye Extensive Monitoring Solution

Efficient Remote Transmission & Protection for Valuables in Transit
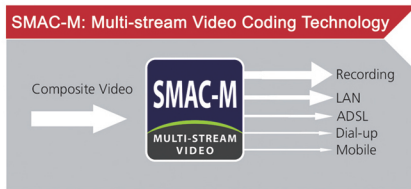
TeleEye Europe, in partnership with valued distributor Northwood Technology Limited, designed and delivered a security solution providing tighter security and safety measures for Treanor Security Systems Limited (TSS), specialising in cash and valuables transit. TSS operates across a wide range of industries including: financial institutions, the health service, hospitality, property development, county councils etc. In order to deliver an efficient and seamless solution, the deployment of the TeleEye RX500 Series, high performing mobile video recorders, provides a comprehensive video surveillance solution that plays a key role in creating a safe and secure environment across the entire fleet of 12 vehicles.

Eliminating Security Risks – Customised Relay Operations

A safe and secure environment for their workforce and the valuables in transit, are top priorities in order to avoid robbery threats. John Treanor, owner of TSS was tasked to source a video surveillance system that would allow the monitoring of their fleet of security vehicles while on the move, together with the added need for real-time transmission and customised relay operations specifically delivering a "panic button" alarm functionality. To guarantee the safety of the valuables within the vaults, the TeleEye RX500 Series of DVRs prevents unauthorised access to the vaults from within the vans. Therefore the ability to turn off the vechicles' ignitions and open the vaults is only authorised by the head office. Moreover this ability allowed TSS to open multiple vaults within the transit vehicles securely, without manual intervention while safeguarding against any disruptions and eliminating security risks. A centralised remote vault access at the Head Office is a compulsory element. These highly secured features would ultimately allow TSS to fully comply with all the necessary standards stipulated by the Private Security Authority (PSA). John Treanor explains "Ensuring the safety of the staff and that the vehicles are running efficiently and effectively are fundamental. It is crucial that we are able to respond immediately and appropriately to any incidents that may occur".

Efficient Video Transmission – TeleEye SMAC-M Video Coding

The installed mobile DVR RX500 Series incorporates the TeleEye SMAC-M Video coding technology. This can achieve maximum recording frame rates of up to 200 / 240 fps with faster video transmission. TeleEye RX500 Series is ideal for any mobile or remote applications where low latency and unreachable fixed networks are a concern. TeleEye RX500 Series operates on a 3G/4G mobile network which is beneficial in a cash transit/mobile fleet environment, allowing for the seamless integration of satellite communications and surveillance for adverse environments and applications. TeleEye successfully addresses the need in safeguarding against the threat of robberies and the protection of valuables in transit. Remotely monitoring their fleet through TeleEye sureSIGHT, an advanced feature - rich software solution. It allows TSS to utilise the sophisticated event management functionality adhering to BS8418 quality standards. Furthermore sureSIGHT enhanced security by allowing users to be assigned varied or strict 'user rights' in accordance to the operators' and users' needs, delivering optimised performance. TeleEye supplies an indispensible and complete end-to-end surveillance solution.

Commitment – Future Proof Technology

John stated "As we continue to add to our branch network, we are committed to using advanced technology to improve on safety and security. TeleEye's professional digital video recorder solutions which is specifically designed for public & commercial transport applications, provides a future-proof system."

TeleEye Group

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