ROSCO VISION SYSTEMS

DUAL-VISION XC 4

CONTINUOUS HD VIDEO AND EVENT RECORDER

- 4+ Channels
- SD Card Storage
- Wi-Fi Capable
- 4G Cellular Capable

ROSCO Live
CLOUD STORAGE

+

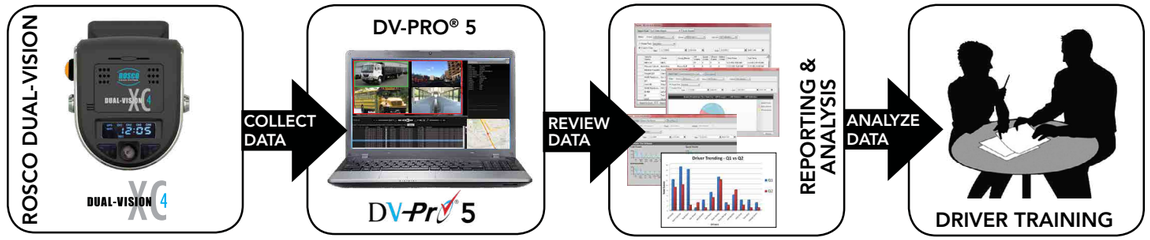
DUAL-VISION XC4

Rosco's Dual-Vision XC4 has the capacity to identify unsafe driving behavior through its ability to continuously record video and provide instant driver feedback when an event occurs.

P/N: DV440

- Continuous Video Recording and Event Recording
- HD Quality Video Recording
- 720p Forward View Camera, 960H Interior Camera
- Optional 960H Auxiliary Cameras For a Total of Four Cam Inputs
- Up to 10 Total Cameras Can Be Recorded With Split View Windows
- One-Piece Locking Mounting Bracket Protects SD Card
- Compatible with Current High-Capacity SD Memory Cards
- 3,000+ hours of Recording Time per High-Capacity SD Card
- Built-in Infrared LEDs for Excellent Night Interior View
- Includes DV-Pro® 5 Software
- Includes Database Management and Alert Notification
- Optional Auto Download System – Highest Wi-Fi Speeds
- Optional 4G Cellular For Live Tracking and Video Streaming w/ Cloud Storage

Dual-Vision XC4 continuously monitors and captures driving behavior while simultaneously providing real-time driver feedback. If the predetermined speed limit and/or G-force settings should be exceeded, the driver is notified with an audible chime. The audible chime or "alert" is a reminder to drivers that helps reinforce safe driving habits. Dual-Vision XC4's continuous video helps fleets monitor and confirm that safe practices are consistently maintained by drivers. Dual-Vision XC4's instant driver feedback is the equivalent of a safety expert sitting side by side with drivers and training them on safe practices that result in behavioral changes and fewer incidents and collisions.



DATA RETRIEVAL OPTIONS

SD CARD

Fleet to remove secured SD card from recorder and view/save video

WI-FI

Fleet to have Wi-Fi upload of events and/or continuous video upon vehicle return to base

4G CELLULAR

Fleet to receive real time video clip, .jpg photo, or live video data via 4G cellular transmission

THE SAFETY SOLUTION FOR YOUR DRIVERS AND YOUR FLEET

Dual-Vision XC increases a fleet's productivity and profitability by improving driver performance at a fraction of the cost of Event only, Wi-Fi and DVR recording technologies. Let Dual-Vision XC protect your bottom line by reducing fuel consumption, stopping dangerous driving habits before they lead to accidents, & lowering insurance premiums by reducing accident claims!

Prevent the Event | **Increase Safety** | **Lower Insurance Premiums** | **Reduce Risky Driving Behavior** | **Track Vehicles in Real-Time**

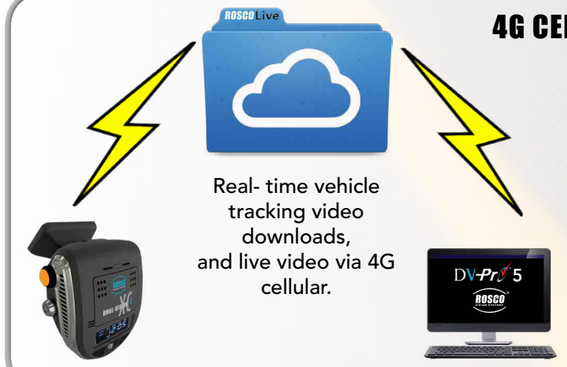
Dual-Vision XC assists fleet managers to comply with federal law that bans all commercial drivers from using hand held devices. Drivers who violate the restriction can face federal civil penalties of up to $2,750 for each offense and disqualification from operating a commercial motor vehicle for multiple offenses. Commercial truck and bus companies that don't prevent their drivers from using hand held devices while driving are liable for millions of dollars if "compliance processes" are not in place or effective.

DUAL-VISION XC4 WIRELESS CAPABILITIES

WI-FI

Wi-Fi capability allows automatic downloads of the video data files from the Dual-Vision XC4 device to a Rosco provided access point at the vehicle depot. This access point directs data to a local wi-fi server or cloud based user interface (available Q2 2018). The process is cost effective and simple, with the lowest monthly charges possible, and the video data is available only moments after the vehicle returns to the depot. The Cloud interface is accessible through connected and mobile devices, instantaneously and without limitations.

4G CELLULAR



Dual-Vision XC4's cellular capabilities allow fleet managers to review and download live video while vehicles are still on the road.
The Dual-Vision XC4 device connects to the RoscoLive Cloud via a 4G cellular connection and users are able to pull live videos and other live data from the RoscoLive Cloud. Live video streaming is also available. Cellular plans and costs vary. Please consult with Rosco on the options that best fit your fleet. Cellular connectivity also allows for integration with certain telematics devices.

PARTS IDENTIFICATION

DUAL-VISION XC4 SPECIFICATIONS

DUAL-VISION XC4	GENERAL SPECIFICATIONS
Video Capability	2 Built-In CMOS Digital Color Cameras
Audio Capability	1 Built-in Microphone
Night Vision	Cabin View Only, w/ 10 Infrared LEDs @ 0.1 Lux, 5m Range
Memory Card Slot	SDHC (up to 32 GB) or SDXC (up to 512 GB)
Motion Sensor	Built-in 3-Axis G-Sensor (+/- 8G Max)
Input Voltage	+12 to +24VDC
Maximum Current Consumption	1.0 AMP @ 12 VDC
Operating Temperature Range	-22°F to +176°F (-30° C to +80° C)
Storage Temperature Range	-40°F to +185°F (-40°C to +85°C)
Humidity	10% to 90%
Shock Rating	8g
Vibration Rating	3mm Amplitude, 10-30 Hz Vibration
Weight	0.8 lbs. (0.36 kg)

VIDEO CAPACITY CHART

CH#	HD Video Quality (No Audio)	File Size Per Minute (MB)	File Size Per Hour (MB)	256 GB (Hrs)	128 GB (Hrs)	64 GB (Hrs)	32 GB (Hrs)
2 Cameras in Standard Base Unit	Ch1: 720P Ch2: 960H 4 FPS	3.55	213	1,081	541	270	135
3 Cameras (1 additional added)	Ch1: 720P Ch2&3: 960H 4 FPS	4.77	286	805	402	201	101
4 Cameras (2 additional added)	Ch1: 720P Ch2,3 & 4: 960H 4 FPS	5.99	360	640	320	160	80

NOTE:
Audio on recording with one or more cameras will result in reduced recording capacity of 35 - 50% based on quantity of cameras and other factors.

AUX CAMERAS (OPTIONAL)

The Dual-Vision XC4 is capable of recording video from two extra auxiliary 4-pin (AUX) cameras which may be connected to the external camera ports in the PDC module. This extra camera feature can be expanded from two extra cams to eight extra cams with the use of Rosco's STSS1000A splitter. Rosco has a full range of cameras available for selection including both rugged and compact, license plate cameras, integrated brake light, side view, bumper/flush mounted, rear hatch, and interior dome surveillance cameras. Contact Rosco or an authorized dealer for a list of compatible 4-pin cameras.

The following high-definition (960H) cameras are recommended:

P/N		DESCRIPTION
STSC167 STSC168		Side View Camera, Right Front/Left Rear (STSC167), Silver, w/ Night Vision, 960H Side View Camera, Left Front/Right Rear (STSC168), Silver, w/ Night Vision, 960H
STSC169 STSC170		Internal Dome Camera, w/ Night Vision & Audio, 960H, 0° and 25° Mounts Included, STSC169 (Black), STSC170 (White)

Adapters for 960H Type Side Camera for outdoor and Dome Cameras for indoor mounting:

P/N	DESCRIPTION
STSA1006	5° adapter, silver, for STSC167, STSC168
STSA1007	0° adapter, black, for STSC169
STSA1009	25° adapter, black, for STSC169
STSA1010	0° adapter, white, for STSC170
STSA1011	25° adapter, white, for STSC170

Additional VGA cameras are also compatible:

STSC141
Rearview Camera

STSC109R
Side View Camera

STSC106
Bumper Camera

STSC112
License Plate Camera

STSC118
Interior Dome Camera

MORE UPGRADES & OPTIONS

With our **STSS1000A** splitter, turn your 3rd & 4th single camera views to two quad views supporting up to eight additional cameras.

Single View

Quad View

Monitor Options

With the third and fourth camera options, you can also connect a driver backup monitor to one of the AUX cameras for real-time backing up or interior views.

STSM251 - 7" Monitor

STSM240 - 4.3" Mirror / Monitor

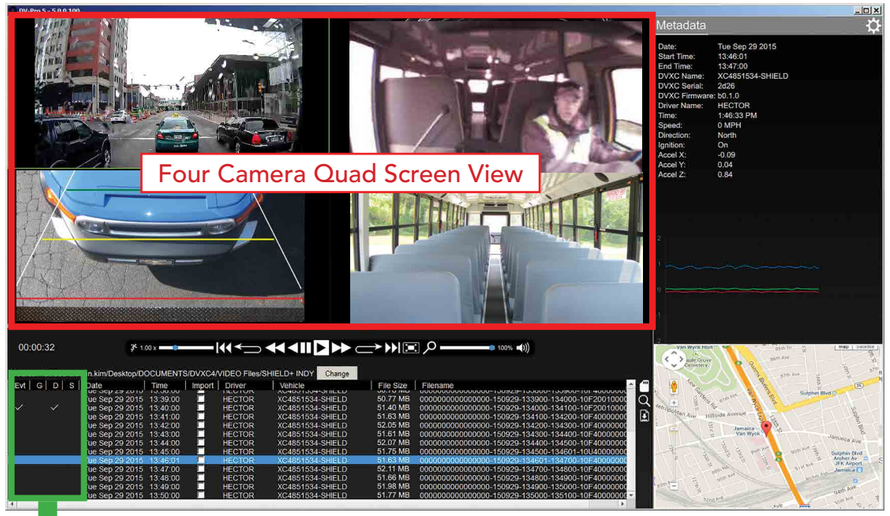
DV-Pro® 5 ADVANCED DATA MANAGEMENT SOFTWARE

Maximize your data's potential with the DV-Pro® 5 fleet database management system. The new Dual-Vision XC4 recorder captures HD video/audio/data and creates proprietary files, only readable when viewed within Rosco's DV-Pro® 5 player software, included at no additional charge with each recorder. This software was developed specifically to organize information captured by the Dual-Vision XC4 recorder.

DV-Pro® 5 makes it fast and easy to view or transfer recorded data, locate specific events, archive or discard content, and compile reports or email files. DV-Pro® 5 give greater control of information generated by the Dual-Vision XC4 recorders. You can conduct searches based on detailed criteria and quickly make note of key events.

FEATURES

- Proprietary Video Files
- Playback Control
- Quad View
- Video Management
- GPS
- Accelerometer Display
- SD Card Formatting
- Recorder Configurations Settings
- Conversion to .avi Files



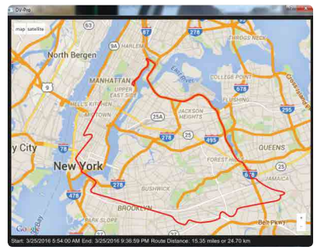
The DV-Pro® 5 application streamlines searches based on driver, vehicle, time or date. GPS details are revealed quickly, including routes & other statistics. The DV-Pro® 5 program offers a no-fee fleet database that corresponds to your needs so you can use digital information for driver training, safety improvements, and corporate decisions.

EVENT TYPES

EVENT	DESCRIPTION	EVENT	DESCRIPTION
G-Sensor (G)	When vehicle experiences sudden acceleration, deceleration or rapid side-to-side movement. Shown as red check mark in the file list and a red bar on the video progress bar. Three additional custom sensor enabled events can be added.	Button (D)	When driver event button is activated. Shown as a green check mark in the file list and a green bar on the video progress bar.
Speed (S)	When vehicle exceeds pre-configured speed limit. Shown as a yellow check mark in the file list and a yellow bar on the video progress bar.	Parking (P)	Indicates which videos are recorded during parking surveillance mode. Shown as a white check mark in the file list.

DV-PRO® 5 ROUTING

DV-Pro® 5 allows you to trace vehicle routes in real time with the cellular capabilities of Dual-Vision XC4. With the geo-fencing feature, confirm your driver stays on their route at all times. Whether in real time or upon the vehicle return to the depot, the route and map functionalities of DV-Pro® 5 gives fleet managers all the information they need to keep their fleet safe and efficient.



DV-PRO® 5 REPORTING (WI-FI LOCAL SERVER SYSTEM)

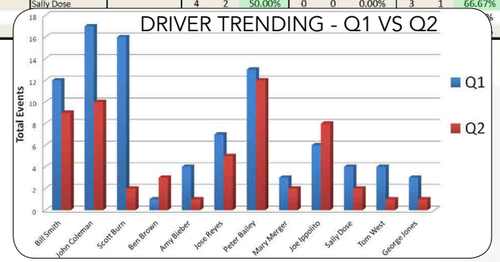
AUTOMOTIVE DRIVER DATABASE TOOL FOR FLEET MANAGEMENT

In seconds, retrieve the information you require. The Rosco automotive driver database tool is in perfect sync with our devices and your PC. The Dual-Vision XC4 recording technology surpasses basic recorders that only cover isolated moments surrounding an event. Continuous HD recording provides unlimited information and helps integrate files into your automotive database with ease.
Data files can be exported into Excel for user designed custom reports and integration with other systems.

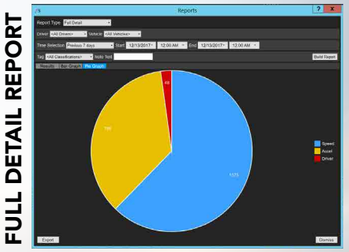
CUSTOM EXCEL REPORTS & CHARTS VIA DV-PRO DATA FILES

DRIVER TRENDING REPORT

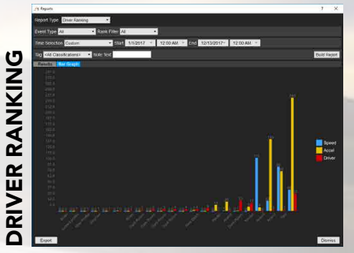
Vehicle Name	Driver	Group_Name	All Events			Speed Events			GForce Events			Button Events		
			Q1	Q2	% Diff	Q1	Q2	% Diff	Q1	Q2	% Diff	Q1	Q2	% Diff
Unit #49	Annie Ambulance		0	1	-100.00%	0	2	-200.00%	0	0	0.00%	0	0	0.00%
Bill's Car	Bill T.		17	10	41.18%	4	3	25.00%	9	0	100.00%	4	0	100.00%
Personal Vehicle	Brian Kim	Rosco Staff	6	2	66.67%	6	5	16.67%	0	0	0.00%	0	0	0.00%
Benefica Krasdale	Grocery Geoff		0	3	-300.00%	0	1	-100.00%	0	1	-100.00%	0	0	0.00%
Freight Q03	Hatx Queens		4	1	75.00%	0	0	0.00%	4	5	-25.00%	0	0	0.00%
#4268 Paratransit @ CBT Bronx	Joe Lucky		0	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%
117	Kenny Krasdale		0	0	0.00%	0	2	-200.00%	0	2	-200.00%	0	1	-100.00%
Unit #10	Mary Merger		0	2	-200.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%
#4268 Paratransit @ CBT Bronx	NYC Joe		1	0	100.00%	0	0	0.00%	1	1	0.00%	0	0	0.00%
Rt #96	Sally Dose		4	2	50.00%	0	0	0.00%	3	1	66.67%	1	0	100.00%
61												1	1	0.00%
60131												1	0	100.00%



FULL DETAIL REPORT



DRIVER RANKING



ROSCOLIVE REPORTING

Vehicle and fleet group reporting allows for benchmarking between locations within a company, or to compare business groups/types.

Feature Usage

Name	Group	Start Date	End Date	Live Video (Min)	Event Clips	Custom Clips
512316	New York	11/11/2017	11/16/2017	1	0	0
588754	Boston	11/11/2017	11/16/2017	1	0	0
984452	Miami	11/11/2017	11/16/2017	1	0	0
654423	Miami	11/11/2017	11/16/2017	17	0	0
216211	Boston	11/11/2017	11/16/2017	1	0	0
746578	San Francisco	11/11/2017	11/16/2017	4	0	0

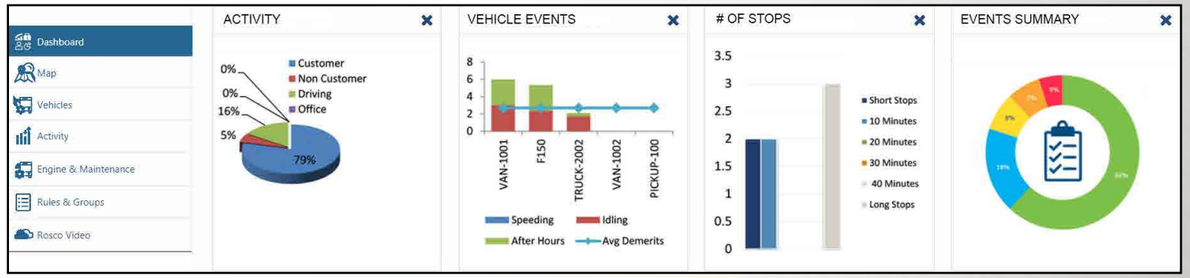
Data Usage

Name	Group	Start Date	End Date	Storage Up	Storage Down	Live Up	Live Down	Total Up	Total Down
512316	New York	11/11/2017	11/16/2017	490576	53312	884068	51744	1374644	105056
588754	Boston	11/11/2017	11/16/2017	586424	77260	1773042	69440	2359466	146700
984452	Miami	11/11/2017	11/16/2017	963					
654423	Miami	11/11/2017	11/16/2017	611					
216211	Boston	11/11/2017	11/16/2017	2427					
746578	San Francisco	11/11/2017	11/16/2017	492					

Events

Group	# of Vehicles	Total Events	Events/Vehicle	Speed	G-sensor	Driver Button	Input	Parking
Richmond	13	23	1.77	5	6	5	0	7
Boston	26	16	0.62	2	4	1	0	9
San Diego	35	23	0.66	7	6	0	0	10
Santa Fe Springs	42	55	1.31	12	19	6	0	5
Portland	6	9	1.50	3	2	3	0	1
Seattle	4	2	0.50	1	0	0	0	1
New Jersey	14	7	0.50	6	0	0	0	1

ROSCO & TELEMATICS INTEGRATION



NEW YORK SINCE 1907

Rosco was established in 1907. For over a century, our goals have remained the same: We are committed to producing the highest quality automotive vision safety products and providing the level of service our customers deserve.

Today, we supply our products to every truck and bus manufacturer in North America. Our products are designed and built in the USA. Our staff has grown to over 250 people in facilities totaling over 150,000 sq ft.

Rosco is at the cutting edge of the automotive transformation from traditional vision products to advanced digital products such as cameras and sensors, and continues to drive automotive vision safety.

As we move forward we have set our goals even higher. We are now certified to ISO-9001:2015. Our focus on Total Quality Management and continuous improvement will keep our product quality at levels our customers demand.

We will strive to improve our customer service through online and other electronic resources. We will continue to develop newer and better products to serve the ever-changing needs of the marketplace of tomorrow.

ROSCO®
VISION SYSTEMS

A CENTURY OF AUTOMOTIVE VISION SAFETY

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