DVM-250, DVM-250 Plus, and FLT 250 In-Vehicle Camera Kit
(two-camera and four-camera system),
and Asset Tracking Unit
with FleetVu Manager Cloud Service Bundle

North Carolina Sheriffs' Association

"Technology Procurement Program"

Bid Number 22-01-0303

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Submitted by:

Digital·Ally™

In-Vehicle Camera Systems for Buses and Vans

FLT-250 System   **DVM-250 Plus System**

Introducing the FLT-250 System:

- Supports up to eight (8) cameras (interior and exterior)
- Mirrorless system; not necessary to replace vehicle's factory-installed rearview mirror
- Records up to two (2) camera channels simultaneously

Introducing the DVM-250 Plus System:

- Supports up to eight (8) cameras (interior and exterior)
- Mirrored system will replace the vehicle's factory-installed mirror
- Records up to two (2) camera channels simultaneously

The Fleet solution for Digital Video

Digital Ally, Inc. provides commercial fleets and commercial fleet managers with the digital video tools they need to increase driver safety, track assets in real-time and minimize the company's liability risk all while enabling your managers to operate the fleet at an optimal level.

With features and capabilities that are fully customizable, Digital Ally's products are simple to operate and maintain while being reliable and extremely durable.

True Video Solution

Vehicle Video Cameras have existed for many years but Digital Ally® is the first to bridge the gap and create a true video solution for commercial fleets. We are the only video company that can connect In-Car Video, Body Cameras & the back-office software into one complete solution.

Professionalism

Studies have repeatedly shown that when video is deployed in a vehicle, driver performance and professionalism increase dramatically and there is a reduction in driver issues.

Fleet Management

Digital video allows your fleet to be managed and driver behavior to be modified based on the video collected through training. Never miss any event involving your vehicles or drivers again. With our industry leading warranty coverage, we guarantee that your in-car video systems are up and running so that your drivers can focus on doing their job and their video system will take care of itself.

NEVER MISS AN IMPORTANT EVENT

Pre-Event Recording
With Pre-Event enabled the system is always recording the last 30-60 seconds to capture the events leading up to the activation of a recording.

Continuous Loop Recording (Optional)
The system can be set to record on a continuous loop. Individual events are recorded but continuous loop enables a fleet manager to go back and look at video from an entire shift.

UNCOMPLICATED DESIGN

Easy to Install - Simple to Use - Highly Configurable

Event Recorders can be configured to power up with vehicle, login instantly, automatically activate with variety of triggers, and wirelessly upload video.

Additional Cameras to expand DVM-250 to the DVM-250 Plus:

Backup Camera

Passenger Camera

Side Mount External Camera

OPTIONAL TRIGGERS

Integrated with Interface Box

Just about anything in the vehicle that can output a 12 Volt Signal can be configured to trigger your event recorder. Below are the most common of these:

- Brake Lights
- Turn Signal
- Reverse Gear
- Covert Panic Button
- Door Sensors

QUICK & EASY UPLOAD
Uploading your video has never been easier with multiple methods that fit your company's needs.

In-Car Video Footage

Wi-Fi Dongle or SD Card Transfer

Your video footage from your in-car unit can be automatically uploaded wirelessly via our Wi-Fi Dongle, you can manually remove the SD Card and transfer files to a computer.

In-Vehicle Camera Systems Specifications

Power	
OPERATING VOLTAGE	13.8VDC
ON	0.36A @ 13.8Vdc
OFF	0.260mA @ 13.8vdc
SLEEP	170mA @ 13.8vdc
LOW POWER STANDBY	170mA @ 13.8vdc
INTERNAL BACKUP BATTERY	3.7v, 1150mA, Rechargeable Lithium Ion Polymer Battery
Environmental/Mechanical	
OPERATING TEMPERATURE	-20° to +70° C
STORAGE TEMPERATURE	-40° to +80° C
DIMENSIONS	48mm (1.9in.)(D) x 279mm (11in.)(W) x 106mm (4.7in.)(H)
WEIGHT	733g (1.62lbs)
Internal Components	
ROAD FACING CAMERA	63.2°(V) X 84.8°(H) X 106.8°(D)
PASSENGER FACING CAMERA	96°(V) X 119°(H) X 141°(D)
LCD MONITOR	3.5" Color
REAL TIME CLOCK	On board, used when GPS signal is lost.
ACCELEROMETER	3-axis, ±8g
MICROPHONE	Internal (max. input SPL 110dB, sensitivity -30dB)
VIDEO	2-recording channels @ 30fps(max), D1, 720x480, H.264, AVI
AUDIO	2-Channel for separate internal/external microphone audio
External Components	
GPS RECEIVER	4Hz position update rate, 2.5m position accuracy
LICENSE PLATE BACKUP CAMERA	95° (V) x 125.8° (H) x 155.4° (D)
INFRARED BACKUP CAMERA	76° (V) x 102° (H) x 115° (D)
Media Storage	
CAPACITY	External SD Card Support: 8/16*/32 GB, Class-10, commercial grade purchased from Digital Ally. (*Included)
SECURE MEDIA ACCESS	Optional tamper resistant screw and access door, requires corresponding security key to unlock the access door.
PRE-EVENT BUFFER	Up to 30 seconds for each of the two recording channels, adjustable in 6 second increments

Interface Box Specifications

Electrical	
OPERATING VOLTAGE	13.8VDC
INPUT SENSORS	Six configurable multi-purpose input sensors.
OUTPUT TRIGGER	One normally open, active low output trigger, 2A max current
Environmental/Mechanical	
OPERATING TEMPERATURE	-20° to +70° C
STORAGE TEMPERATURE	-40° to +80° C
DIMENSIONS	57mm (2.24in) (D) x 29mm (1.14in) (H) x 110mm (4.33in) (L)
WEIGHT	218g (.480lbs)

Asset Tracking Unit (ATU)

Digital Ally, Inc. is proposing the Asset Tracking Unit (ATU) with FleetVu Suite cloud storage for your consideration. The Asset Tracking Unit (ATU) is small, compact, and lightweight. It can be wired into the vehicle or connected to the vehicle's OBDII Port. The ATU is plug-and-play and will work immediately after it is connected to a vehicle. The ATU tracks in real-time and a supervisor or administrator can monitor events as they occur. The ATU combines road safety systems with video by pairing GPS and sensor triggered data to recorded video.

The Asset Tracking Unit can provide real-time location information for one or multiple vehicles on a single interactive map in FleetVu Manager Cloud. The ATU can also display driving behaviors such as direction changes, traveled path, speed, acceleration, braking, geofences, high G-force incidents, etc. during real-time tracking. The ATU is designed with the capability to send email and SMS alerts about real-time driving behaviors to a supervisor or system administrator. A virtual barrier or geofence can be created with the ATU and a supervisor or administrator can be alerted in real-time by email or SMS when a driver goes outside the geofence.
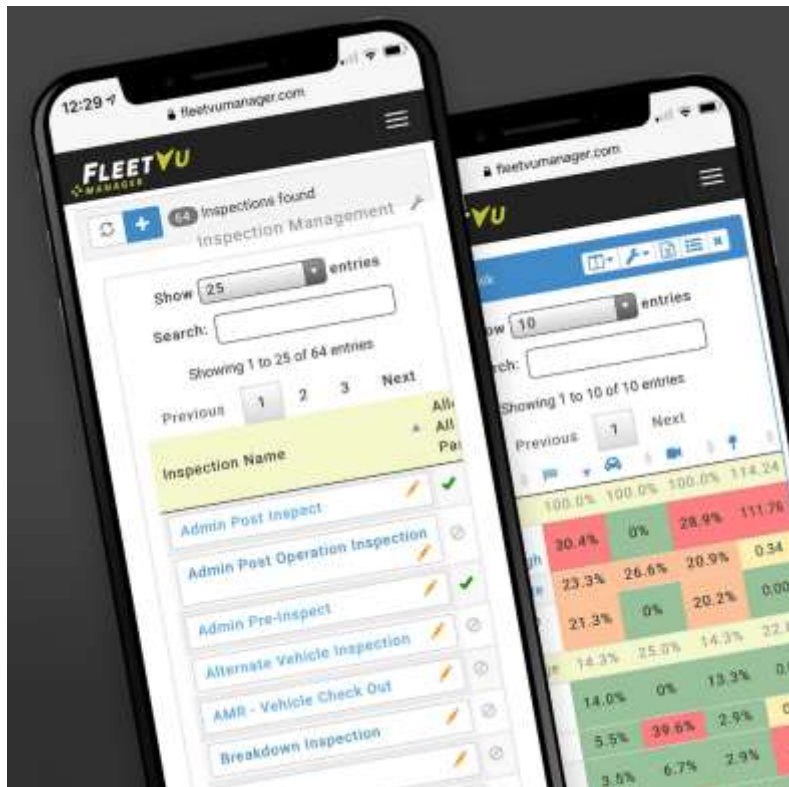
Key Asset Tracking Unit Features:

- Real-Time Monitoring and Reporting on Driver Behavior
- Administrator Configurable and Programmable Alerts
- 3-Axis Accelerometer
- Easy and Discrete Installation
- LTE Wi-Fi Hotspot Capability
- Multi-Carrier options
- Power Saving Mode
- Backup Battery
- Wireless Firmware Upgrades

Geofences in FleetVu.com

Specifications for the Asset Tracking Unit

LTE	Cat-4 EC25-A: B2/B4/B12 EG25-G: LTE-FDD:B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/ B19/B20/B25/B26/B28 LTE-TDD: B38/B39/B40/B41 Output Power: 23dBm±2.7dBm
GSM	GSM850/GSM900/DCS1800/PCS1900 Output Power: GSM850/900: 33dBm±2dBm DCS1800/PCS1900: 30dBm±2
Device Control and Reporting	HTTP/TCP/UDP/SMS
GPS Sensitivity	-162dBm Tracking Sensitivity Accuracy(Open Sky): < 2.5m (CEP50)
Comprehensive IO's	4 Inputs / 4 Outputs / 2 A/D Inputs and 3 UARTS
Wi-Fi	802.11 a/b/g/n/ac Maximum Speed 150Mbps AP (Max Access Point): 10 Encryption Modes: WEP, TKIP, AES, WPA-PSK, WPA2-PSK
Operational Temperature Range	-20 C to +65 C or -4 F to 149 F
Motion Detection	Built in 3-Axis Accelerometer
Power Consumption	- Active mode: <32 mA @12VDC - Sleep mode: <22 mA @12VDC
Battery capacity	300 mAh
Supply Voltage	6-42 VDC
Storage temperature(Without battery)	-40 C to 85 C or -40 F to 185 F
Housing Dimension / Weight	90mm x 55mm x 18mm (3.54in x 2.17in x 0.70in) / 65g (2.29oz)
Certificates	PTCRB, FCC, RoHS

FleetVuManager

CLOUD BASED SOFTWARE

Complete Video & Telematics Management Solution
Digital Ally provides commercial fleets and commercial fleet managers with the digital video tools they need to increase driver safety, track assets in real-time and minimize the company's liability risk. Choose from two packages; Video Event Package, Asset Tracking Package, or choose to optimize your ROI by utilizing the Complete Solution that combines the power of both.

VIDEO EVENT PACKAGE

Manage your Fleet's Video Events
Our Video Event Package enables agency managers to easily monitor their fleet of vehicles and driver performance. Users can store and manage video, update firmware & wireless configurations while using features such as mapping & reporting and creating driver score cards.

DISASTER RECOVERY

Ensuring your data will always be protected and accessible is our number one priority; that is why we have built FleetVuManager.com on the most trusted web service around. Amazon Web Services supplies three locations separated on the east and west coasts where all of your data will be copied and 100% secured. If one of the locations is wiped out by a natural disaster, your information will still be secured in two alternate locations states away. Any and all of the information that was flowing to that particular location will be directed to substitute locations.

ENVIRONMENTAL SECURITY FEATURES

Amazon Web Services (AWS) data centers utilize innovative architectural and engineering approaches. Each data center is equipped with fire detection and suppression, power failure back-ups climate and temperature controls, and electrical and mechanical management. When a storage device reaches its end of life security measures are taken by Amazon to ensure that data is not exposed to unauthorized individuals. Amazon security platforms also host around the clock surveillance to ensure data locations are secure.

In case of failure, automated processes move data traffic away from the affected area to an alternate secure location. AWS is designed to tolerate system or hardware failures with minimal to no impact to users.

FLEETVUMANAGER.COM Cloud

FleetVuManager.com is a cloud-based application hosted by Amazon Web Services (AWS). It provides a fully modular, customizable, and user-friendly interface to securely manage your fleet and drivers, from vehicle inspections to telematics to incident video review. FleetVuManager.com includes three services: a FleetVu Mobile driver app, Fleet Vu Cloud video storage and fleet management, and FleetVu Manager asset tracking and telematics tools.

FleetVuManager.com propagates robust real-time fleet telematics information along with your vehicle inspections into the customizable cloud platform. FleetVu Manager includes live asset tracking, event mapping, powerful reporting tools, posted speed violations, real-time customizable alerts such as idle time, speeding, collisions, towing, etc.

FleetVuManger.com Cloud allows easy management of fleet and driver performance data and video. It also optimizes ROI efficiency and educates your team to reduce driving accidents and costly behaviors associated with them. FleetVu Cloud stores and provides capability to manage fleet video along with drivers, equipment, reporting, powerful mapping and vehicles in the cloud. Video system firmware and configurations will load wirelessly.

FleetVu Mobile includes the capability for customizable inspections to provide immediate interaction with FleetVu Manager and/or FleetVu Cloud. This interaction allows management and maintenance teams the ability to seamlessly manage vehicles on a daily basis. FleetVu Mobile includes pre- and post-operation inspections with text and/or email alerts immediately notifying management of unsafe conditions. FleetVu Mobile also includes breakdown/in-operation inspections, maintenance requests, and can automatically pair drivers/vehicles.

FleetVuManager.com telematics cloud-based solution has the ability to switch between a road map and an aerial image that is capable of zooming to at least 1:1000. The map is able to display one or multiple vehicles, vehicle information, geofences, geofence information, and zoom to selected features. The map is also able to display vehicle history for a selected time frame. FleetVuManager.com includes the capability to edit speed limits for road sections and the ability to directly access a street view.

FleetVuManager.com has the capability to create a multitude of reports, including Driver Reports, Branch Reports, Vehicle and Equipment Reports, Events Reports, and FleetVu Mobile Reports. It is able to create reports by date, time, month, or specified time period. These reports can be selected by vehicle, by crew, by geofence, and by triggered events, such as speeding, or excessive idle. Reports can be created based on defined periods for vehicle engine hours, engine idle time, days

used, and miles traveled. Reports can also be created on vehicle maintenance, vehicle details, organization structure, application user history, and device functionality. Reports can be customized by information and columns.

FleetVu Suite

The FleetVu Suite provides a fully modular, customizable, and user friendly interface to securely manage your fleet and drivers, from vehicle inspections to telematics to incident video review. FleetVu Provides three options: a driver app, cloud video storage & fleet management, and asset tracking & telematics tools.

FleetVu Suite Capabilities & Features Overview

The FleetVu Suite provides a fully modular, customizable, and user-friendly interface to securely manage your fleet and drivers, from vehicle inspections to telematics to incident video review. FleetVu Provides three options: a driver app, cloud video storage & fleet management, and asset tracking & telematics tools.

Capabilities & Features Overview	FleetVu Manager *Asset Tracking/Telematics*	FleetVu Cloud *Storage & Management*	FleetVu Mobile *Driver App*
Automatically Assigns Driver to Vehicle	**Requires App to Log in to Different Vehicles**	**Requires App to Log in to Different Vehicles**	✔
Vehicle Inspections & Service Requests	**View Submissions in Reports**	**View Submissions in Reports**	✔
Manage, Configure, & Update Recorders	✔	✔	
Informative Driver, Incident, Etc. Reports	✔	✔	
View Individual Driver Performance Data	✔	✔	
View Automated Driver Risk Data	✔	✔	
View Incident Video by Driver, Type, Etc.	✔	✔	
Incident Notes & Searchable Custom Fields	✔	✔	
Customize Geo-Fencing Alert/Trigger	✔	✔	
View Route Maps of Recorded Incidents	✔	✔	
View Current Vehicle & Incident Locations	✔		
Real-Time Incident Notifications	✔		
Export Video Clips from Cloud to Computer	✔	✔	
Security Features & Authentication	✔	✔	✔