



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER:
DPS0708

PAGE:
1

ADDRESS: CORRESPONDENCE TO ATTENTION OF:
BUYER 32
304-558-0492

RFQ COPY

TYPE NAME/ADDRESS HERE

Safety Vision L.P.
6100 W. SAM HOUSTON PKWY, NORTH
HOUSTON TEXAS 77041
Duane Rumski

SHIP TO

WEST VIRGINIA STATE POLICE
4124 KANAWHA TURNPIKE
SOUTH CHARLESTON, WV
25309 304-746-2141

DATE PRINTED 11/09/2006	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
BID OPENING DATE: 11/28/2006 BID OPENING TIME 01:30PM				

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LT		840-70		
<p align="center">REQUEST FOR QUOTATION</p> <p>THE PURCHASING DIVISION IS SOLICITING BIDS FOR THE WEST VIRGINIA STATE POLICE TO PROVIDE AN OPEN-END CONTRACT FOR COMPACT IN-CAR VIDEO SYSTEM.</p> <p>ATTACHMENTS:</p> <ol style="list-style-type: none"> SPECIFICATIONS AFFIDAVIT <p align="center">ORIGINAL</p> <p align="center">VENDOR PREFERENCE CERTIFICATE</p> <p>CERTIFICATION AND APPLICATION* IS HEREBY MADE FOR PREFERENCE IN ACCORDANCE WITH WEST VIRGINIA CODE, 5A-3-37 (DOES NOT APPLY TO CONSTRUCTION CONTRACTS).</p> <p>A. APPLICATION IS MADE FOR 2.5% PREFERENCE FOR THE REASON CHECKED:</p> <p>() BIDDER IS AN INDIVIDUAL RESIDENT VENDOR AND HAS RESIDED CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR</p> <p>() BIDDER IS A PARTNERSHIP, ASSOCIATION OR CORPORATION RESIDENT VENDOR AND HAS MAINTAINED ITS HEAD-QUARTERS OR PRINCIPAL PLACE OF BUSINESS CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Duane Rumski</i>	TELEPHONE 800-880-8855	DATE Nov 27 2006
TITLE ACCOUNT EXECUTIVE	FAX 76-0390640	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

**GENERAL TERMS & CONDITIONS
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)**

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. All quotations are governed by the *West Virginia Code* and the *Legislative Rules* of the Purchasing Division.
4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125.00 registration fee.
5. All services performed or goods delivered under State Purchase Orders/Contracts are to be continued for the term of the Purchase Order/Contract, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
6. Payment may only be made after the delivery and acceptance of goods or services.
7. Interest may be paid for late payment in accordance with the *West Virginia Code*.
8. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, this contract is automatically null and void, and is terminated without further order.
14. **HIPAA Business Associate Addendum** - The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Covered Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division.
2. **SPECIFICATIONS:** Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Complete all sections of the quotation form.
4. Unit prices shall prevail in cases of discrepancy.
5. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
6. **BID SUBMISSION:** All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications.

SIGNED BID TO:

Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

RECEIVED

2006 NOV 28 A 10:19

PURCHASING DIVISION
STATE OF WV



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 Charleston, WV 25305-0130

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6100 W. Sam Houston Pkwy, North
Houston Texas 77041
Duane Rumski

SHIP TO

WEST VIRGINIA STATE POLICE

4124 KANAWHA TURNPIKE
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 25309 304-746-2141

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BID OPENING DATE: **11/28/2006** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UGP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>THE DATE OF THIS CERTIFICATION; OR 80% OF THE OWNERSHIP INTEREST OF BIDDER IS HELD BY ANOTHER INDIVIDUAL, PARTNERSHIP, ASSOCIATION OR CORPORATION RESIDENT VENDOR WHO HAS MAINTAINED ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR</p> <p>() BIDDER IS A CORPORATION NONRESIDENT VENDOR WHICH HAS AN AFFILIATE OR SUBSIDIARY WHICH EMPLOYS A MINIMUM OF ONE HUNDRED STATE RESIDENTS AND WHICH HAS MAINTAINED ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS WITHIN WEST VIRGINIA CONTINUOUSLY FOR THE FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION.</p> <p>B. APPLICATION IS MADE FOR 2.5% PREFERENCE FOR THE REASON CHECKED:</p> <p>() BIDDER IS A RESIDENT VENDOR WHO CERTIFIES THAT, DURING THE LIFE OF THE CONTRACT, ON AVERAGE AT LEAST 75% OF THE EMPLOYEES WORKING ON THE PROJECT BEING BID ARE RESIDENTS OF WEST VIRGINIA WHO HAVE RESIDED IN THE STATE CONTINUOUSLY FOR THE TWO YEARS IMMEDIATELY PRECEDING SUBMISSION OF THIS BID;</p> <p>OR</p> <p>() BIDDER IS A NONRESIDENT VENDOR EMPLOYING A MINIMUM OF ONE HUNDRED STATE RESIDENTS OR IS A NONRESIDENT VENDOR WITH AN AFFILIATE OR SUBSIDIARY WHICH MAINTAINS ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS WITHIN WEST VIRGINIA EMPLOYING A MINIMUM OF ONE HUNDRED STATE RESIDENTS WHO CERTIFIES THAT, DURING THE LIFE OF THE CONTRACT, ON AVERAGE AT LEAST 75% OF THE EMPLOYEES OR BIDDERS' AFFILIATE'S OR SUBSIDIARY'S EMPLOYEES ARE RESIDENTS OF WEST VIRGINIA WHO HAVE RESIDED IN THE STATE CONTINUOUSLY FOR THE TWO</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Duane Rumski</i>	TELEPHONE 800-880-8855	DATE Nov 27 2006
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<p>YEARS IMMEDIATELY PRECEDING SUBMISSION OF THIS BID.</p> <p>BIDDER UNDERSTANDS IF THE SECRETARY OF TAX & REVENUE DETERMINES THAT A BIDDER RECEIVING PREFERENCE HAS FAILED TO CONTINUE TO MEET THE REQUIREMENTS FOR SUCH PREFERENCE, THE SECRETARY MAY ORDER THE DIRECTOR OF PURCHASING TO: (A) RESCIND THE CONTRACT OR PURCHASE ORDER ISSUED; OR (B) ASSESS A PENALTY AGAINST SUCH BIDDER IN AN AMOUNT NOT TO EXCEED 5% OF THE BID AMOUNT AND THAT SUCH PENALTY WILL BE PAID TO THE CONTRACTING AGENCY OR DEDUCTED FROM ANY UNPAID BALANCE ON THE CONTRACT OR PURCHASE ORDER.</p> <p>BY SUBMISSION OF THIS CERTIFICATE, BIDDER AGREES TO DISCLOSE ANY REASONABLY REQUESTED INFORMATION TO THE PURCHASING DIVISION AND AUTHORIZES THE DEPARTMENT OF TAX AND REVENUE TO DISCLOSE TO THE DIRECTOR OF PURCHASING APPROPRIATE INFORMATION VERIFYING THAT BIDDER HAS PAID THE REQUIRED BUSINESS TAXES, PROVIDED THAT SUCH INFORMATION DOES NOT CONTAIN THE AMOUNTS OF TAXES PAID NOR ANY OTHER INFORMATION DEEMED BY THE TAX COMMISSIONER TO BE CONFIDENTIAL.</p> <p>UNDER PENALTY OF LAW FOR FALSE SWEARING (WEST VIRGINIA CODE 61-5-3), BIDDER HEREBY CERTIFIES THAT THIS CERTIFICATE IS TRUE AND ACCURATE IN ALL RESPECTS; AND THAT IF A CONTRACT IS ISSUED TO BIDDER AND IF ANYTHING CONTAINED WITHIN THIS CERTIFICATE CHANGES DURING THE TERM OF THE CONTRACT, BIDDER WILL NOTIFY THE PURCHASING DIVISION IN WRITING IMMEDIATELY.</p> <p>BIDDER: <i>Safety Vision</i></p> <p>DATE: <i>Nov 27 2006</i></p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Duane Rumski</i>	TELEPHONE <i>800-880-8855</i>	DATE <i>Nov 27 2006</i>
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LINE	QUANTITY	UQP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>SIGNED: <i>Duane - Rumski</i></p> <p>TITLE: <i>ACCOUNT EXECUTIVE</i></p> <p>* CHECK ANY COMBINATION OF PREFERENCE CONSIDERATION(S) IN EITHER "A" OR "B", OR BOTH "A" AND "B" WHICH YOU ARE ENTITLED TO RECEIVE. YOU MAY REQUEST UP TO THE MAXIMUM 5% PREFERENCE FOR BOTH "A" AND "B". (REV. 12/00)</p> <p>NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p>DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER: _____ RON PRICE</p> <p>RFQ. NO.: _____ DPS0708</p> <p>BID OPENING DATE: _____ 11/28/2006</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Duane - Rumski</i>	TELEPHONE <i>800-880-8855</i>	DATE <i>Nov 27 2006</i>
TITLE <i>ACCOUNT EXECUTIVE</i>	FEIN <i>76-0390640</i>	ADDRESS CHANGES TO BE NOTED ABOVE

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BID OPENING DATE: **11/28/2006** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
BID OPENING TIME:				1:30 PM		
PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:				713-896-6640		
CONTACT PERSON (PLEASE PRINT CLEARLY):				Duane Rumski		
***** THIS IS THE END OF RFQ DPS0708 *****					TOTAL:	\$ <u>3,700.00</u>

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE: *Duane Rumski* TELEPHONE: **800-880-8855** DATE: **Nov 27 2006**

TITLE: **ACCOUNT EXECUTIVE** FEIN: **76-0390640** ADDRESS CHANGES TO BE NOTED ABOVE

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Compact Size Digital In-Car Video System Specifications

page 6

A.) Purpose:

The purpose of these specifications is to establish a minimum standard of quality for Compact In-Car Digital Video Systems, hereinafter system. The intention is to insure that the West Virginia State Police, hereinafter Agency, is provided with a system that allows for effective recordings that will withstand the most rigorous of challenges in a court system. Additionally, the system will be simple to use, easy to install, reliable, and housed in a rear view mirror to accommodate the ever-changing police vehicle environment.

The awarded contract shall be available for use by this agency as well as all other entities of state government, and all counties and municipalities within the State Of West Virginia.

B.) Scope:

The design of the system shall use state-of-the-art technology to include a microprocessor controlled logic control assembly, color camera, color monitor, wireless transmitter and protective enclosure for the Digital, electronics and receiver components. To ensure the system can be configured to fit within the widest range of vehicles; the majority of the system shall be housed in a rear view mirror, which replaces the factory installed rear view mirror. Only the main forward looking camera and the GPS antenna shall be external to the mirror body. The system shall utilize a common recording media such as a CF Flash card form factor memory module, with a minimum size of 1GB for video storage, which is readily available at retail establishments and which is the media is capable of easily being transferred to a CD or DVD through the utilization of laptop computer. The system must perform well when taken across rough terrain and when the vehicle is involved in a crash.

The **Enclosure** will house all of the critical components requiring environmental protection from extremes of heat, cold, and physical damage. The enclosure shall be designed so that extreme heat and cold environmental conditions do not affect the operation of the system. The enclosure must provide for easy removal and installation to facilitate maintenance requirements.

The **Camera** component will be a separate component to allow for flexibility of positioning in a variety of vehicles and must be simple to remove and install to facilitate maintenance requirements. The System must be able to function and record with the monitor in the "off" position (Covert Mode).

The **Wireless Microphone** component must be capable of working within the 900MHz or higher frequency range with Digital Spread Spectrum Technology to prevent false activations and distorted recordings due to other sources in close proximity. The system will include a mountable docking station capable of synchronizing with the wireless transmitter and acting as a recharging station. The wireless microphone will be capable of a continuous transmission for a minimum of 8-10 hours. The system will be capable of activating/deactivating the wireless microphone transmitter upon entering/leaving the record mode. The system shall be designed so that the wireless microphone may only be deactivated by stopping the record mode from the control panel of the system. The vehicle will have a forward facing (at all times) indicator to provide user confidence when outside the vehicle, that the wireless transmitter's signal is being received and the system is in record mode.

The **In Cabin Microphone** must be provided with the system. Activation and deactivation of the In Cabin microphone must be at the officer's control via the system's control panel.

The **Control Panel** will allow for the operation and playback of the system. Additionally, it must act as the *only* input for system programming operations. It must be simple to remove and install to facilitate maintenance requirements.

The **Monitor** must be a color LCD monitor with a minimum 3.5" diagonal display. It must include controls for picture brightness, volume and power. The monitor shall be mounted behind the mirror glass, and must be invisible when not in operation. The System must be able to function and record with the monitor in the "off" position (Covert Mode).

The **System's Software** required for downloading video data, archiving, reviewing, unit setting, unit management, and burning DVDs shall be provided with each unit ordered. The support for this software shall include version updates and be provided free of charge to the agency for the life of the system. The system's operating software shall be capable of being field updated by loading encrypted code onto the memory card and inserting it into the unit. The system shall also be capable of its initial setup in this same manner.

C.) In-Car Digital Video Bid Requirements:

The equipment offered will be in full commercial production. No "brand new" or prototype models will be considered. When requested, proof of current sales and delivery of the specified equipment over the past 6 months will be provided, in writing, referencing current customers with contacts and phone numbers for verification.

When requested by the Agency, the bidder shall furnish a complete sample unit at no charge within 10 days of the request for evaluation purposes.

D.) Format of Alternate Product Bid Responses:

For "alternate product bids" bidder shall submit their response utilizing the bid response sheet contained within these specifications. Bidders shall indicate either "yes" or "no" by placing a mark on the appropriate line associated with each specification. Vendors not complying with this will not be considered for bid award. Specifications in which a Vendor checks "No" requires the vendor to indicate on a separate page labeled "Exceptions" the exact specification and deviation from the specification as to why their product does not meet or exceed the specification. Products not meeting or exceeding these specifications will be eliminated from consideration.

Note: Bidders returning only information concerning their products without addressing each of the following specification requirements shall be eliminated from consideration as non-responsive.

The Agency reserves the right to terminate the contract for unacceptable performance according to specifications, untimely delivery times on product, or lack of technical support.

The contract will be awarded to the vendor bidding the product with the lowest cost and meeting the specifications as set forth in this RFQ.

TECHNICAL SPECIFICATIONS

1. DIGITAL SYSTEM AND COMPONENTS

		Comply?	
		<u>Yes</u>	<u>No</u>
1.1	The System shall be a complete in-car video system contained almost completely within the body of a replacement automobile rear-view mirror.	<u> </u>	<u> X </u> <i>CENTER CONSOLE</i>
1.2	The unit shall contain the digital video/audio recorder, storage memory, GPS receiver, wireless microphone receiver, video display, speaker, internal microphone, rear facing internal surveillance camera, IR LED's for internal illumination, and system controls.	<u> X </u>	<u> </u>
1.3	The unit shall utilize an extremely compact, high-quality, color, 120X zoom video camera, mounted in an external housing.	<u> </u>	<u> X </u> <i>240x 200mm</i>
1.4	The Mirror housing (Control Head) of the system shall be approximately 12" x 3.5" x 1" in size.	<u> </u>	<u> X </u> <i>7" x 2" x 8"</i>
1.5	The shell / construction of the system shall be of Poly Carbonate / ABS high impact / high temp plastic.	<u> </u>	<u> X </u> <i>ALUMINUM / PLASTIC.</i>
1.6	The weight of the mirror, including all contained system components shall be no more than approximately 12 oz.	<u> </u>	<u> X </u> <i>DVR 3.1#</i>
1.7	The system shall have an operating temperature range of 32°F to 122°F (0°C to 50°C).	<u> </u>	<u> X </u> <i>32°F x 131°F</i>
1.8	The system shall be capable of recording pre-event data up to a minimum of 60 seconds.	<u> X </u>	<u> </u>
1.9	The rear view mirror shall house a minimum of 3.5" diagonal, 640x480 Color TFT LCD monitor, which shall be mounted behind the mirror glass. The monitor shall be invisible when not in operation or when used in covert mode.	<u> </u>	<u> X </u> <i>640 x 240 320 x 240</i>
1.10	The system must have a pass code administrative access security to gain access to the settings of the system to prevent changes of certain settings.	<u> X </u>	<u> </u>
1.11	The system must require a key to gain access to the memory slot area of the system.	<u> X </u>	<u> </u>
1.12	The video files must be watermarked to prevent tampering or alteration of the recordings.	<u> X </u>	<u> </u> <i>VIDEO TAG</i>
1.13	The system must have the ability to mark a segment of video to show current GPS location.	<u> X </u>	<u> </u>

		Comply?	
		Yes	No
1.14	The system must have Auto-Zoom capability in which with the push of a button the camera will Zoom in to a preset magnification auto focus, and then zoom back out to widest view.	<u>X</u>	_____
1.15	The system shall have the following minimum controls:		
1.15.1	Power On/Off	<u>X</u>	_____
1.15.2	Play	<u>X</u>	_____
1.15.3	Stop	<u>X</u>	_____
1.15.4	Record	<u>X</u>	_____
1.15.5	Rewind	<u>X</u>	_____
1.15.6	Fast forward	<u>X</u>	_____
1.15.7	In-Car Microphone – On/Off	<u>X</u>	_____
1.15.8	Volume Control for Playback, Internal and External Microphones	<u>X</u>	_____
1.16	The system shall have the ability and connectors for the following minimum connections:		
1.16.1	Power In	<u>X</u>	_____
1.16.2	Radar Gun Data In	<u>X</u>	_____
1.16.3	External Camera In	<u>X</u>	_____
1.16.4	External Microphone In	<u>X</u>	_____
1.16.5	Audio/Video Out	<u>X</u>	_____
1.16.6	Audio/Video In	<u>X</u>	_____
1.16.7	GPS Antenna In	<u>X</u>	_____
1.16.8	Triggers In	<u>X</u>	_____
1.16.9	USB 2.0 Port	<u>X</u>	_____
1.17	The system shall be capable of automatically entering Record mode from any of the following minimum triggers:		
1.17.1	Activation of emergency lights	<u>X</u>	_____
1.17.2	Activation of siren	<u>X</u>	_____
1.17.3	Pressing the Record button on the control system	<u>X</u>	_____
1.17.4	Activating Digital Wireless Microphone (DWM)	<u>X</u>	_____
1.18	The only method for the system to stop Recording shall be by pressing the 'STOP' button.	<u>X</u>	_____
1.19	The operator may stop the recording while the emergency vehicle lights and/or siren are still on.	<u>X</u>	_____
1.20	Recorded information cannot be overwritten while in the Digital Recorder. It may only be erased using the PC application program and must require a password.	<u>X</u>	_____

Comply?
Yes No

- 1.21 At a minimum, the following information shall be available to be recorded (Menu Selection) to the Compact Flash media and be stored as Metadata:
- | | | | |
|---------|---|----------|-------|
| 1.21.1 | Text – (ie: Officer Name, Vehicle ID, Agency, Etc.) | <u>X</u> | _____ |
| 1.21.2 | Camera – F /R (Indication of which camera is recording) | <u>X</u> | _____ |
| 1.21.3 | Date / Time - MO/DA/YR HR:MN | <u>X</u> | _____ |
| 1.21.4 | GPS – GPS Information | <u>Y</u> | _____ |
| 1.21.5 | Radar Speeds - Patrol, Lock, Target | <u>Y</u> | _____ |
| 1.21.6 | Vehicle speed or GPS | <u>Y</u> | _____ |
| 1.21.7 | Light-bar Activated | <u>X</u> | _____ |
| 1.21.8 | Brake Depressed | <u>X</u> | _____ |
| 1.21.9 | Siren Activated | <u>X</u> | _____ |
| 1.21.10 | Event Mark | <u>Y</u> | _____ |
| 1.21.11 | Internal Microphone On/Off | <u>X</u> | _____ |
| 1.21.12 | Wireless Microphone On/Off | <u>X</u> | _____ |
- 1.22 The following information shall be displayed on the monitor, but not Recorded to the media:
- | | | | |
|--------|--|----------|-------|
| 1.22.1 | Record time left - A warning shall be displayed and sounded when there is 30 minutes of record time remaining and when there is 10 minutes of record time remaining. | <u>X</u> | _____ |
| 1.22.2 | Low Battery Voltage warning | <u>X</u> | _____ |
| 1.22.3 | Non-Operational Temperature warning – Out of Temperature Range | <u>X</u> | _____ |
- 1.23 The system shall be capable of the following minimum Display Functions, which are chosen by the administrator during setup:
- | | | | |
|---------|---|----------|-------|
| 1.23.1 | Text - Officer Name, Vehicle ID, Agency, Etc. | <u>X</u> | _____ |
| 1.23.2 | Camera - CAM1 | <u>X</u> | _____ |
| 1.23.3 | Date / Time - MO/DA/YR HR:MN | <u>X</u> | _____ |
| 1.23.4 | GPS – GPS Information | <u>X</u> | _____ |
| 1.23.5 | Radar Speeds – Patrol and Target | <u>X</u> | _____ |
| 1.23.6 | Patrol vehicles speed or GPS Speed | <u>X</u> | _____ |
| 1.23.7 | Light-bar activated | <u>X</u> | _____ |
| 1.23.8 | Brake depressed | <u>X</u> | _____ |
| 1.23.9 | Siren activated | <u>X</u> | _____ |
| 1.23.10 | Event Mark | <u>X</u> | _____ |
| 1.23.11 | Internal Microphone On/Off | <u>Y</u> | _____ |
| 1.23.12 | Wireless Microphone On/Off | <u>Y</u> | _____ |
- 1.24 The Main Menu of the system shall at a minimum display the Agency's Logo indications of Record Time remaining, Software Version, User Name Selection and Password.
- | | | | |
|--|--|----------|-------|
| | | <u>X</u> | _____ |
|--|--|----------|-------|

		Comply?	
		<u>Yes</u>	<u>No</u>
1.25	The Main Menu of the system shall control the following minimum functions:		
1.25.1	Playback Mode (Internal Mic Volume; Exterior Mic Volume)	<u>X</u>	_____
1.25.2	Camera (Day / Night; Auto Focus On / Off; Auto Zoom; LED's On / Off)	<u>X</u>	_____
1.25.3	Monitor (On / Off / Auto; Brightness)	<u>X</u>	_____
1.25.4	Backlight (Brightness)	<u>X</u>	_____
1.25.5	Settings (Text; Date / Time; Display)	<u>X</u>	_____
1.25.6	Text - On / Off	<u>X</u>	_____
1.25.7	Camera - On / Off	<u>X</u>	_____
1.25.8	Date / Time - On / Off	<u>X</u>	_____
1.25.9	GPS - On / Off	<u>X</u>	_____
1.25.10	Radar Speeds - On / Off	<u>X</u>	_____
1.25.11	Patrol vehicle speed or GPS Speed - On / Off	<u>X</u>	_____
1.25.12	Light-bar- On / Off	<u>X</u>	_____
1.25.13	Brake - On / Off	<u>X</u>	_____
1.25.14	Siren - On / Off	<u>X</u>	_____
1.25.15	Event Mark - On / Off	<u>X</u>	_____
1.25.16	Internal Microphone - On / Off	<u>X</u>	_____
1.25.17	Wireless Microphone - On / Off	<u>X</u>	_____
1.25.18	Resolution (Low; Medium; High)	<u>X</u>	_____
1.25.19	Record Triggers (Lights - Y / N; Siren - Y / N; Internal MIC)	<u>X</u>	_____
1.25.20	Pre-Event On / Off	<u>X</u>	_____
1.25.21	External MIC	<u>X</u>	_____
1.25.22	Auto Activation On / Off	<u>X</u>	_____
1.25.23	Radar Interface	<u>X</u>	_____
1.25.24	Disable Power Button - Y/N	<u>X</u>	_____
1.26	Internal memory for the time, date and settings shall be retained by a method (ie: lithium battery) to assure information is secure from loss for a minimum 8-year lifetime expectancy.	<u>X</u>	_____

2. CAMERAS

2.1 Main Camera

2.1.1	The main camera shall be no larger than 2" x 2" x 3" in size.	_____	<u>X</u>
2.1.2	The weight of the camera shall be no more than approximately 6 oz.	2.5 - 2.5 - 4	<u>X</u> 6.4oz
2.1.3	The camera system shall have the following minimum Zoom functions:		
2.1.3.1	Press "ZOOM IN / OUT", Toggles between Zoom In / Out up to 12X digital.	_____	<u>X</u> 11 X Digital

		Comply?	
		Yes	No
2.1.3.2	Press "Auto Zoom", Zooms in to preset magnification, auto focuses and Zooms back out to widest setting.	<u>X</u>	_____
2.1.3.3	The system memorizes magnification after power is OFF, so when power is ON again, system sets same magnification as before.	<u>X</u>	_____
2.1.3.4	Auto Zoom Setting in MENU settings for fixed magnification.	<u>X</u>	_____
2.1.3.5	Auto Focus capabilities.	<u>X</u>	_____
2.1.4	The main camera must meet the following minimum specifications:		
2.1.4.1	Color CCD Sensor NTSC	<u>X</u>	_____
2.1.4.2	768x484 Pixels	_____	<u>X</u>
2.1.4.3	470 Lines Resolution	<u>X</u>	_____
2.1.4.4	10X Optical Zoom, 12X Digital Zoom; Total 120x Zoom	_____	<u>X</u>
2.1.4.5	Auto Focus (manual via menu)	<u>X</u>	_____
2.1.4.6	View Angle - 50.7 to 5.4 degrees	<u>X</u>	_____
2.1.4.7	1 LUX Standard Mode	<u>X</u>	_____
2.1.4.8	.1 LUX Low Light (Night) Mode	<u>X</u>	_____
2.1.4.9	50 dB S/N	_____	<u>X</u>
2.2	Internal Camera		
2.2.1	The internal camera must meet the following minimum specifications:		
2.2.1.1	510x492 B&W CMOS Sensor (TV resolution)	_____	<u>X</u>
2.2.1.2	.01 LUX Sensitivity	<u>X</u>	_____
2.2.1.3	140 degree 4-Element Coated Glass Lens	<u>X</u>	_____
2.3	Other Cameras		
2.3.1	A jack must be provided for the input from an optional external video camera.	<u>X</u>	_____

52 00

3. MICROPHONE

3.1	The system shall come equipped with both a digital wireless microphone (DWM) and an in-car microphone.	<u>X</u>	_____
		<i>with BACK SEAT CAMERA.</i>	
3.2	The wireless microphone(s) and internal microphone must be recorded on separate audio channels.	<u>X</u>	_____

Comply?
Yes No

3.3 DIGITAL WIRELESS MICROPHONE (DWM)

- 3.3.1 The DWM system shall utilize an integrated 900MHz, Digital Spread Spectrum, Dual Receiver Capable remote microphone system. This shall enable two officer-worn remote mics to be used at the same time. x _____
- 3.3.2 The nominal range of the DWM system shall be a minimum of 1000 feet. ✓ _____
- 3.3.3 The DWM system shall be capable of automatically finding a clear channel utilizing automatic frequency hopping. ✓ _____
- 3.3.4 The DWM system shall be capable of automatic activation when Record Mode is activated, by pressing "Record" or by activation of any of the system activation triggers. x _____
- 3.3.5 The DWM shall have Low Battery, Operating State, and Out of Range indicators. x _____
- 3.3.6 The operator shall be able to remotely activate the system's RECORD mode by pressing a button on the DWM. x _____
- 3.3.7 Once the DWM transmitter is activated, it shall only be deactivated by stopping the RECORD function manually via the STOP button on the control head. x _____
- 3.3.8 The DWM shall have an internal microphone and shall also be equipped with an external mic jack. x _____
- 3.3.9 The DWM transmitter shall be provided with a lavalier microphone and cable that is connected to the transmitter via a miniature connector. x _____
- 3.3.10 The DWM transmitter shall contain an internal antenna. Transmitters that rely on the microphone cable for an antenna, or which utilize an external antenna shall not be permitted. ✓ _____
- 3.3.11 The DWM shall come with a re-chargeable battery and battery charger/docking station. x _____

3.4 In-Car Microphone

- 3.4.1 There shall be a microphone mounted inside the Mirror body for interior audio recording. x

with BACK SEAT CAMERA

Comply?
Yes No
x _____

3.4.2 There shall be a microphone jack on the system for connecting a rear seat microphone. The actual microphone may be listed as optional equipment.

4. GPS RECEIVER

- 4.1 The unit shall include an integrated GPS receiver so the recorded video may be marked with real-time latitude and longitude (LAT/LONG) position data. y _____
- 4.2 The system must be capable of sharing the GPS receiver or antenna with other computerized devices in the vehicle. x _____

5. MEDIA / VIDEO STORAGE

5.1 Media

- 5.1.1 The system shall use a common CF Flash card form factor memory module, with a minimum size of 1GB for video storage. x _____
4 8 Gb
- 5.1.2 The system shall be capable of recording a minimum of 1hour/GB at High Resolution. x _____
- 5.1.3 The system shall be capable of recording a minimum of 2hours/GB at Medium Resolution. y _____
- 5.1.4 The system shall be capable of recording a minimum of 4hours/GB at Standard Resolution. y _____

5.2 Video

- 5.2.1 Standard full speed video recordings are made at 30fps (frames per second), with recording speeds selected through a menu. y _____
- 5.2.2 The following minimum video storage resolutions shall be selectable through a menu;
 - 5.2.2.1 High 640x240 (full resolution) y _____
 - 5.2.2.2 Med 320x288 (CIF) 1M bits/sec y _____
 - 5.2.2.3 Low 320x288 (CIF) 512k bits/sec y _____
- 5.2.3 The video storage format shall be MPEG 4. _____ x _____
JPEG
- 5.2.4 Video played back through the video port shall be at a minimum of 704x480. x _____

Comply?
Yes No

6. SOFTWARE

- 6.1 System's Software required for downloading video data, archiving, reviewing, unit setting, unit management, and burning DVDs shall be provided with each unit ordered. X _____
- 6.2 The support for this software shall include version updates and be provided free of charge to the agency for the life of the system. X _____
- 6.3 The system's operating software shall be capable of being field updated by loading encrypted code onto the memory card and inserting it into the unit. X _____
- 6.4 The system shall be capable of its initial setup by loading encrypted code onto the memory card and inserting it into the unit. X _____

7. POWER REQUIREMENTS

- 7.1 The power supply for the system shall require no more than 4 amps, 10-13.8V DC supplied by the vehicle. X _____
- 7.2 The power supply must be heavily filtered and regulated to avoid interference. X _____
- 7.3 The system shall be fused between the battery (12v source) and the System. ✓ _____
- 7.4 Over voltage protection and surge protection shall be provided. X _____

8. WARRANTY AND REPAIR

- 8.1 The video system shall include a two-year limited parts and labor warranty against any defects in materials or workmanship on all System components. X _____
FREE NEXT DAY REPLACEMENT
- 8.2 Extended Maintenance Agreements shall be available to the agency after the two year warranty expires. X _____
- 8.3 The warranty period shall begin from the date of installation. X _____
- 8.4 All shipping charges shall be the responsibility of the vendor during the warranty period. X _____
- 8.5 Manufacturer shall provide complete schematics, diagrams, service manuals and service bulletins on all provided electronic components. X _____

Comply?

Yes No
✓ _____

8.6 The manufacturer shall offer and provide when requested, at no additional cost training to Electronic Technicians of the West Virginia State Police (WVSP); the training needed to properly operate, repair and maintain proper operation of the manufacturer's video system and also provide complete maintenance manuals and schematics for the system covered in the training to each student attending the class. A non-disclosure agreement will be signed with the manufacturer and only systems owned and/or operated by the WVSP will be repaired by the WVSP.

8.7 This training must be available at the on-site location of the West Virginia State Police.

✓ _____

RFQ No. DPS0708**A F F I D A V I T****West Virginia Code §5A-3-10a states:**

No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owned is an amount greater than one thousand dollars in the aggregate

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

EXCEPTION:

The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

LICENSING:

Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

CONFIDENTIALITY:

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendors should visit www.state.wv.us/admin/purchase/privacy for the Notice of Agency Confidentiality Policies.

Under penalty of law for false swearing (West Virginia Code, §61-5-3), it is hereby certified that the vendor acknowledges the information in this said affidavit and are in compliance with the requirements as stated.

Vendor's Name: Safety Vision L.P.
 Authorized Signature: Duan - R. H. Date: Nov 27 2006

SAFETY VISION

POLICE IN-CAR CAMERA AND MDVR SYSTEMS



SV-PatrolRecorder CF MDVR	
Power Input	8 ~ 24 VDC
Power Consumption	< 270 mA
Camera Output	Two 12V at 1 Amp regulated switched power outputs
Compression	Motion JPEG compression with selectable compression ratios of 10:1, 12.5:1, 15:1, 17.5:1, 20:1
Resolution	Selectable 640 × 240 or 320 × 240
Frames Per Second (FPS)	Selectable 30 fps to 1/8 fps
Operating Temperature	32°F ~ 131°F (0°C ~ 55°C)
External Trigger Inputs	7 input triggers
Archive Media Type	Type 1 compact flash support
Weight	3.1 lbs (1.4 kg)
Dimensions (w × h × d)	7 in. × 2 in. × 8 in. (178 mm × 51 mm × 203 mm)

SV-PR900 Wireless Audio Unit	
Frequency	900 MHz
Range	1,000 feet, line-of-sight
Operating Temperature	10°F ~ 110°F (12°C ~ 43°C)
Battery	4-hour charging, 20-hour operation, 40-day standby
Dimensions (w × d × h)	Audio unit: 2.5 in. × 1.2 in. × 3.8 in. (63.5 mm × 30.5 mm × 96.5 mm) Base: 3.5 in. × 2.7 in. × 3.1 in. (88.9 mm × 68.6 mm × 78.7 mm)

SV-CFFC Camera	
Horizontal Resolution	470 lines
Scanning System	2:1 interlace
Scanning Frequency	15.734 KHz horizontal 60 Hz vertical
Image Sensor	1/4-inch interline CCD
Sync System	Internal (line lock optional)
Optical Zoom	22X
Digital Zoom	11X
Dimensions (w × d × h)	2 in. × 3.5 in. × 2 in. (51 mm × 90 mm × 51 mm)
Weight	0.4 lb (0.18 kg)
SV-LCD 50 LCD Monitor	
SV-LCD50	5" LCD monitor

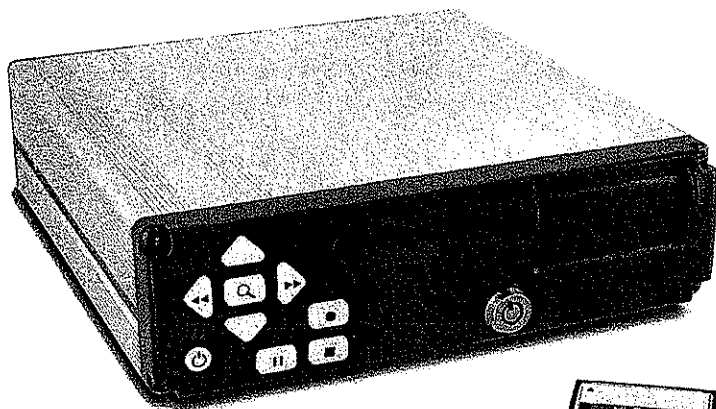
Flash Card Size	Frame Rate	Compression
8 GB compact flash card 320 × 240	fps	Medium
	30	9.2 hours *
	20	13.3 hours *
4 GB compact flash card 320 × 240	fps	Medium
	30	4.6 hours *
	20	6.6 hours *

* Record times reduced by 1/2 for high-resolution 640 x 240 mode.

SAFETY VISION

POLICE IN-CAR CAMERA AND MDVR SYSTEMS

PatrolRecorder CF MDVR



The PatrolRecorder CF provides high quality mobile digital video recording with a convenient removable compact flash (CF) card for easy data retrieval. It is the ideal choice for those wanting to take advantage of the newer digital technology at an affordable price.

Ready When You Are

This rugged video recorder powers up in less than 4 seconds—so, like you, it is always ready for action. With pre-event recording time of up to 60 seconds, you won't miss vital incident information.

Reliable Information

With integrated GPS positioning, speed tracking and recording, the PatrolRecorder CF reliably tracks vital information for each recorded event. You may then quickly retrieve your data by removing the compact flash card or using the optional wireless technology capability.

User Friendly

The PatrolRecorder CF can operate as an event-based or shift-based data recorder providing you with excellent picture quality, clear audio and long recording time. With a virtually hands-off interface, it is easy to use with little to no maintenance required.

Features

- Powers up in less than 4 seconds with pre-event recording time of up to 60 seconds
- Wireless 900 MHz audio unit activates automatically upon start up of recording
- Operates as an event-based or shift-based video, audio, and telemetry data recorder
- Integrated GPS positioning with speed tracking and recording
- No moving parts with a compact flash card feature that enables multiple data transfer options

**SAFETY
VISION®**

We're looking out for you!

CORPORATE HQ:
Houston, TX 77041
Toll Free: 800.880.8855
Direct: 713.896.6600

Texas Capital Office:
Austin, TX 78750
Toll Free: 866.790.8855
Direct: 512.257.9901

Southwest Office:
Dallas, TX 75068
Toll Free: 866.792.8855
Direct: 972.292.3000

West Coast Office:
Bakersfield, CA 93301
Toll Free: 888.328.8855
Direct: 661.322.1535

Midwest Office:
Chicago, IL 60661
Toll Free: 877.523.8855
Direct: 847.549.1593

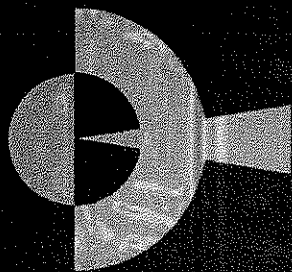
East Coast Office:
Pittsburgh, PA 15601
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Direct: 724.853.8256

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EMAIL@SAFETYVISION.COM

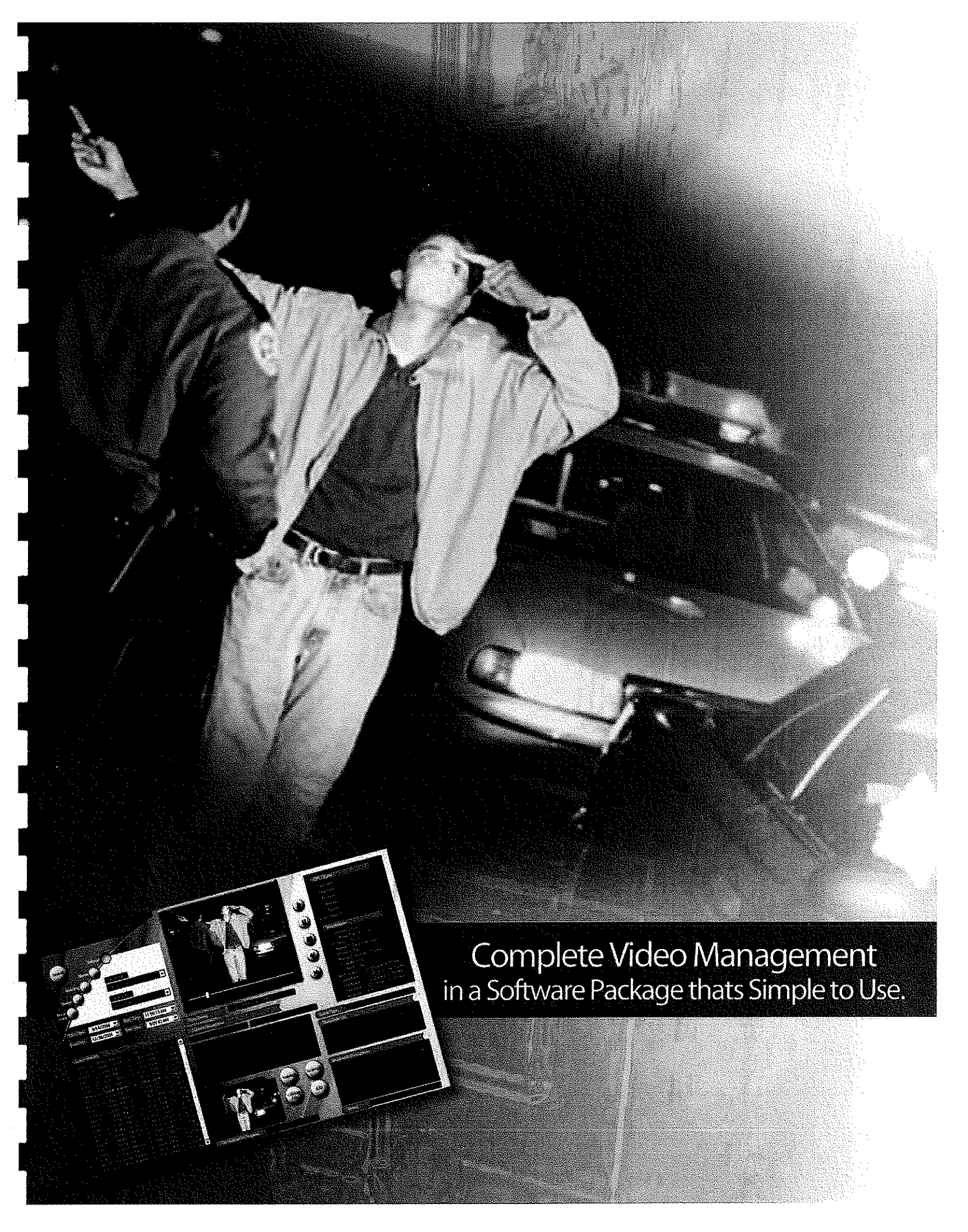
CMS

2.0

central management system



INSIGHTVIDEONET



Complete Video Management
in a Software Package that's Simple to Use.



COMPREHENSIVE VIDEO SEARCH

by Meta-Data; Time; Date; Vehicle (Source ID); Precinct (Area ID); Shift Start; Shift End; Officer Badge for 2 Officers; Officer Full Name for 2 Officers; Type of Shift (Morning, Afternoon, etc); Bookmarks (Officer Notes); 8 Configurable Triggered Events through GPIO (Light bar, Siren, Airbag, Shotgun release, Wireless Microphone, Aux1, Aux2, Aux3); 2 Configurable Triggered Events through Vehicle Speed and Radar Target Speed; GPS Collection by Configurable Interval; RADAR collection; FULL TEXT SEARCH; Search by customized meta data collected;

SECURE UPLOAD MANAGEMENT:

Communication between upload clients and the server are done through standard secure encryption and authentication methods.

NETWORK ACCESSIBLE

Built as a client/server architecture the CMS can be accessed through any workstation client granted network privileges and the right user information.

INTUITIVE INTERFACE

Custom developed GUI for ease of use and intuitive operation. Designed to handle any data: The CMS will support most video file formats and any XML files formatted using the CMS database schema. To support proprietary video formats a COM object or decoding filter must be provided to Insight for compatibility. The CMS can easily handle videos and data generating from building cameras and other vehicles with pre-existing systems.

COMPLETE USER & GROUP MANAGEMENT

Users and groups are easily created and assigned security level and rights. Administrators can create, edit and delete users easily and effectively.

COMPLETE SYSTEM RIGHTS, AUDITS & REPORTS

Complete system rights are assigned for global system security and restrictions. Auditing can be done on global execution, user and group execution. Reports can be generated through crystal reports of any collected audits.

COMPLETE FILE SECURITY

Each file has a file security level. User without the correct security level will be denied access to all operations involving the file including the ability to even search for it. High security files usually contain very sensitive information.

N-TIER SYSTEM

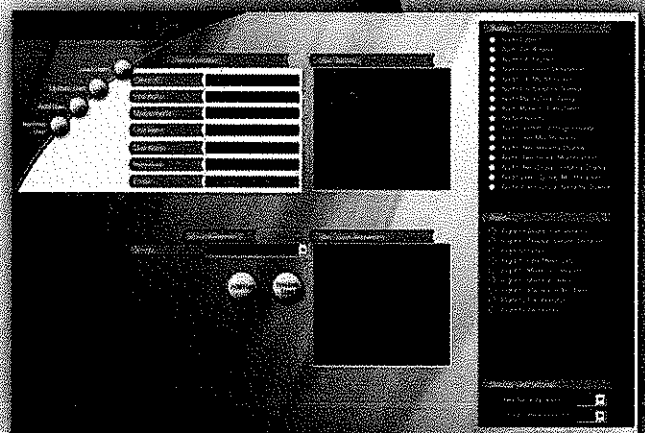
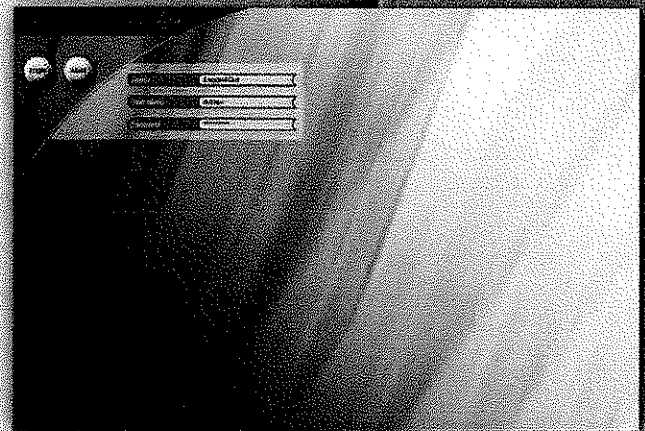
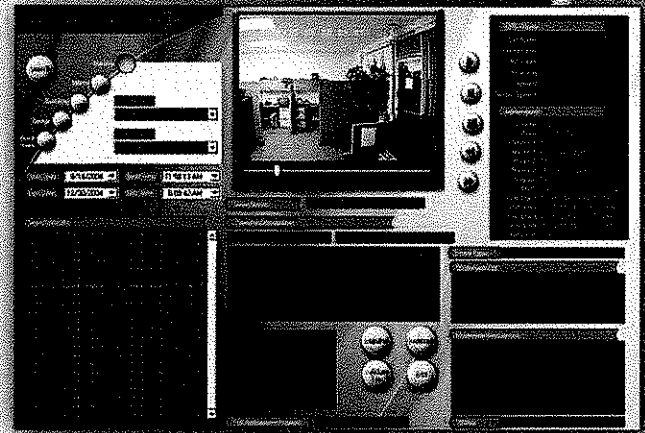
The Central Management System is capable of linking together n # of nodes to form a larger system. Data from multiple precincts or locations can be accessible from any location. Links to other video systems can be made possible through modification of the user interface and database for custom deployments.

AUTOMATED SYSTEM CLEANUP

Retention of Files and Information can be configured for Auto Cleanup after a certain number of days. Individual files or groups of files can be excluded from the auto cleanup procedure. Cleaned files and data will exist in a deletion bin for a configurable number of days before removed from the system.

COMPLETE FILE MANAGEMENT

Files can be scheduled for cleanup, exempt from cleanup, moved into and out of groups, assigned to a single user or multiple users, given security levels and exported from the system to DVD or CDRW.



INSIGHT
VIDEO NET

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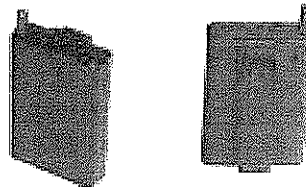
CMS
BO

10134 6th ST. STE., M || Rancho Cucamonga, CA 91730-5857 || 909.373.1800 || www.insightvideonet.com

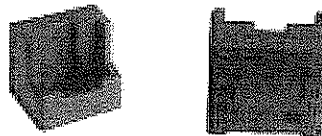
900 MHz Full Duplex Two-Way Audio

TPRF-900 Features & Functions

- Digitally coded – over 9000 combinations
- 1000 feet range at the open field
- Full duplex two-way voice communication
- Activates transmitter from receiver
- 23 hours of operation per charge
- Rechargeable battery
- Charges battery while in base
- Automatically matches code when transmitter is placed in the base
- Built-in microphone in the transmitter
- Multiple units can be used with no interference – 40 available channels



Away unit



Base Unit

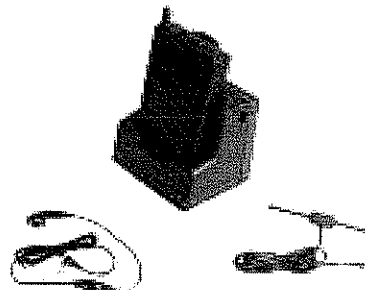
Applications

- Mobile applications

RJ45 8pin description



1. Brown: VCC : DC power (10V ~ 16V DC)
2. Blue: GND: DC power GND
3. Yellow: : RX + TX Audio signal
4. Green: Audio Ground
5. Red: No Connection
6. Black: 2.8V out when the unit is on. Short this pin to GND to remotely turn on the Away Unit
7. Orange: 5V when Away Unit is Off, 0V when Away unit is On. Use this pin for recording trigger
8. White: 5V Normally, Plug mic-earphone to base unit then 0V. 0V indicates two-way voice communication feature is On.



Earphone (Optional)

External Antenna (Optional)

TPRF-900 Set

Specifications

Operating Voltage	Away: 4.8VDC	Base: 12VDC
Frequency	900 MHz	
Operating Range	1000 feet	
Operating Temperature	10 – 110 degree F	
LED Indicators	Away: low battery warning	Base: charging indicator, code matching indicator
Jacks	8 pin RJ-45 for power, audio out, and trigger out – see above diagram	
Battery	Charging time: 5 hours empty to full TX time: 6 – 8 Hours Stand-by time: 1 week	
Controls	Power On/Off, Channel searching, volume control,	
Dimensions	Away: 63.7mm x 32mm x 111.5mm(WxDxH)	Base: 88.1mm x 67.7mm x 81mm(WxDxH)
Weight	Away: 156g	Base: 198g



6100 West Sam Houston, North
Houston, Tx 77041
800.880.8855
www.safetyvision.com

POLICE REFERENCES 2006

(Insights cust)
Haughton Police Dept
Haughton, LA
Lt. Ricky Bridges
318-949-6666

(Insights cust)
West Lafayette Police Dept
Lafayette, Indiana
Chief Daniel Marvin
765-775-5200

SV Customers

Washington Cnty Sheriffs Ofc
1206 Old Independence Rd
Brenham, TX 77833
LT Ruempe
979-277-6251

Pawnee Nation Police Dept.
301 Agency Road
Pawnee, OK 74058
Michelle Rice
304-746-2160

West Melbourne Police Dept.
2290 Minton Road
W Melbourne, FL 32904
LT Chuck Schrum
321-723-9673

Kemah Police Department
1401 State Hwy 146
Kemah, Texas 77565
LT Rick S.
281-334-5414

Walton Cnty Sheriffs Dept
72N 6th St
Defuniak Springs, FL 32433
Joe Preston
850-267-2000

Angleton Police Department
104 Cannan Dr
Angleton, Texas 77515
LT Jones
979-849-2383

Lake County Sheriffs Office
1301 N. Milwaukee
Libertyville, IL 60048
Chief, John Jansky
847-377-7065

Hedwig Village Police Department
9000 Gaylord St
Houston, Texas 77024
Captain J.S. Pynes
713-461-4797

SAFETY VISION, L.P. PATROL RECORDER MDVR-CF

Installation and Users Guide

**MOBILE DIGITAL VIDEO RECORDER
COMPACT FLASH STORAGE**



April 2006

LIMITATION OF LIABILITY

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FCC COMPLIANCE STATEMENT

FCC INFORMATION : THIS EQUIPMENT HAS BEEN TESTED AND FOUND TO COMPLY WITH THE LIMITS FOR A CLASS A DIGITAL DEVICE, PURSUANT TO PART 15 OF THE FCC RULES. THESE LIMITS ARE DESIGNED TO PROVIDE REASONABLE PROTECTION AGAINST HARMFUL INTERFERENCE WHEN THE EQUIPMENT IS OPERATED IN A COMMERCIAL ENVIRONMENT. THIS EQUIPMENT GENERATES, USES, AND CAN RADIATE RADIO FREQUENCY ENERGY AND IF NOT INSTALLED AND USED IN ACCORDANCE WITH THE INSTRUCTION MANUAL, MAY CAUSE HARMFUL INTERFERENCE TO RADIO COMMUNICATIONS. OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA IS LIKELY TO CAUSE HARMFUL INTERFERENCE IN WHICH CASE THE USER WILL BE REQUIRED TO CORRECT THE INTERFERENCE AT HIS OWN EXPENSE.

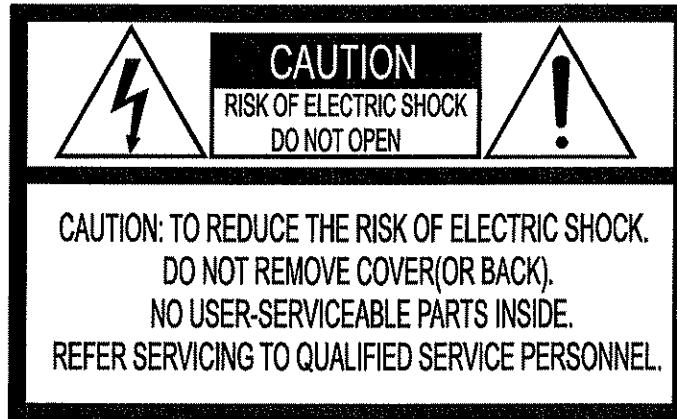
CAUTION : CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

THIS CLASS A DIGITAL APPARATUS MEETS ALL REQUIREMENTS OF THE CANADIAN INTERFERENCE-CAUSING EQUIPMENT REGULATIONS.
CET APPAREIL NUMÉRIQUE DE LA CLASSE A RESPECTE TOUTES LES EXIGENCES DU RÈGLEMENT SUR LE MATÉRIEL BROUILLER DU CANADA.

WARNINGS AND CAUTIONS

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE. DO NOT INSERT ANY METALLIC OBJECTS THROUGH THE VENTILATION GRILLS OR OTHER OPENINGS ON THE EQUIPMENT.

CAUTION



EXPLANATION OF GRAPHICAL SYMBOLS



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instruction in the literature accompanying the product.

IMPORTANT SAFEGUARDS

1. **READ AND RETAIN INSTRUCTIONS**
Read the instruction manual before operating the equipment. Retain the manual for future reference.
2. **CLEANING**
Turn the unit off and unplug from the power outlet before cleaning. Use a damp cloth for cleaning. Do not use harsh cleansers or aerosol cleaners.
3. **ATTACHMENTS**
Do not use attachments unless recommended by manufacturer as they may affect the functionality of the unit and result in the risk of fire, electric shock or injury.
4. **MOISTURE**
Do not use equipment near water or other liquids.
5. **ACCESSORIES**
Equipment should be installed in a safe, stable location. Any wall or shelf mounting accessory equipment should be installed using the manufacturer's instructions. Care should be used when moving heavy equipment. Quick stops, excessive force, and uneven surfaces may cause the equipment to fall causing serious injury to persons and objects.
6. **VENTILATION**
Openings in the equipment, if any, are provided for ventilation to ensure reliable operation of the unit and to protect it from overheating. These openings must not be blocked or covered.
7. **POWER SOURCES**
The equipment should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied at the installation location, contact your dealer. For equipment designed to operate from battery power, refer to the operating instructions.
8. **GROUNDING OR POLARIZATION**
Equipment that is powered through a polarized plug (a plug with one blade wider than the other) will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. Do not defeat the safety purpose of the polarized plug.

Alternate Warning: If the equipment is powered through a three-way grounding-type plug, a plug having a third (grounding) pin, the plug will only fit into a grounding-type power outlet. This is a safety feature. Do not defeat the safety purpose of the grounding-type plug. If your outlet does not have the grounding plug receptacle, contact your local electrician.
9. **CORD AND CABLE PROTECTION**
Route power cords and cables in a manner to protect them from damage by being walked on or pinched by items placed upon or against them.
10. **LIGHTNING**
For protection of the equipment during a lightning storm or when it is left unattended and unused for long periods of time, unplug the unit from the wall outlet. Disconnect any antennas or cable systems that may be connected to the equipment. This will prevent damage to the equipment due to lightning or power-line surges.
11. **OVERLOADING**
Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.
12. **SERVICING**
Do not attempt to service the video monitor or equipment yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

13. DAMAGE REQUIRING SERVICE

Unplug the equipment from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- A. When the power supply cord or the plug has been damaged.
- B. If liquid has spilled or objects have fallen into the unit.
- C. If the equipment has been exposed to water or other liquids.
- D. If the equipment does not operate normally by following the operating instructions, adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage to the unit.
- E. If the equipment has been dropped or the casing damaged.
- F. When the equipment exhibits a distinct change in performance.

14. REPLACEMENT PARTS

When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

15. SAFETY CHECK

Upon completion of any service or repairs to the equipment, ask the service technician to perform safety checks to verify that the equipment is in proper operating condition.

16. FIELD INSTALLATION

The installation of equipment should be made by a qualified service person and should conform to all local codes.

Mobile Digital Recorder Features

The Mobile Digital Recorder is a true VCR replacement with advanced features that take it beyond the standard trunk-mounted VCR. The digital recorder features two video/audio inputs and one video /audio output. The DVR operates as a simplex recorder offering up to 640 x 240 resolution recording at 30 frames/sec and simultaneous dual channel audio recording. The recorder may also be used as a time-lapse mode for recording frame rate up to 1 frame every 8 seconds.

Multiple trigger inputs are available that can be connected so the recorder can be used as an event recorder. The triggered events are also logged along with the video and audio. The unit features a LED recorder status output as well as a Open Collector trigger output. Additionally, the unit features a stealth record mode allowing audio and video recording without any indication that the unit is even powered on.

The unit has low power consumption while recording and milliamp power consumption when powered off. The embedded operating system allows for instant power up less than 6 seconds. With selectable video quality and frame rates, the unit automatically calculates the amount of recording time available.

Conditioned power is provided to supply 12VDC to external cameras and other accessories such as a wireless Ethernet access point. The unit features an Ethernet port with a built-in web server and ftp server for archiving video, audio, and logged data.

A front panel Compact Flash socket is available for easy video archiving. The Compact Flash allows storage of audio/video AVI files and JPG files requiring no special GUI to review audio/video on a PC or the recorder. Integrity of the archived video files is maintained with authentication software. A simple GUI verifies the content of the archived files.

The small mechanical size allows several recorders to fit in the space of an existing VCR or allow the unit to be mounted in a standard automotive DIN format.

- True low cost VCR replacement
- Event recording with programmable dwell time and frame rate
- Compact Flash socket for video/audio archiving with authentication
- Ethernet connection for video/audio archiving
- Compatible with most multiplexers
- Low power consumption (less than a VCR)
- Small mechanical packaging
- Automatic pre alarm buffering up to 60 seconds
- Quick search by time, event, or recording session
- Dual channel audio recording
- Password protected and keypad lock out
- Locking Compact Flash access slot.
- Instant power up cycle
- Selectable video quality and frame rate.
- Multiple alarm inputs
- Date and Time Stamp

MDVR-CF INSTALLATION

The MDVR-CF features dual captured nuts in both sides of the unit allowing for multiple installation options. Utilizing standard brackets, the MDVR-CF can be installed as a bottom mount as shown in Figure 1 and as a DIN mount as shown in Figure 2.

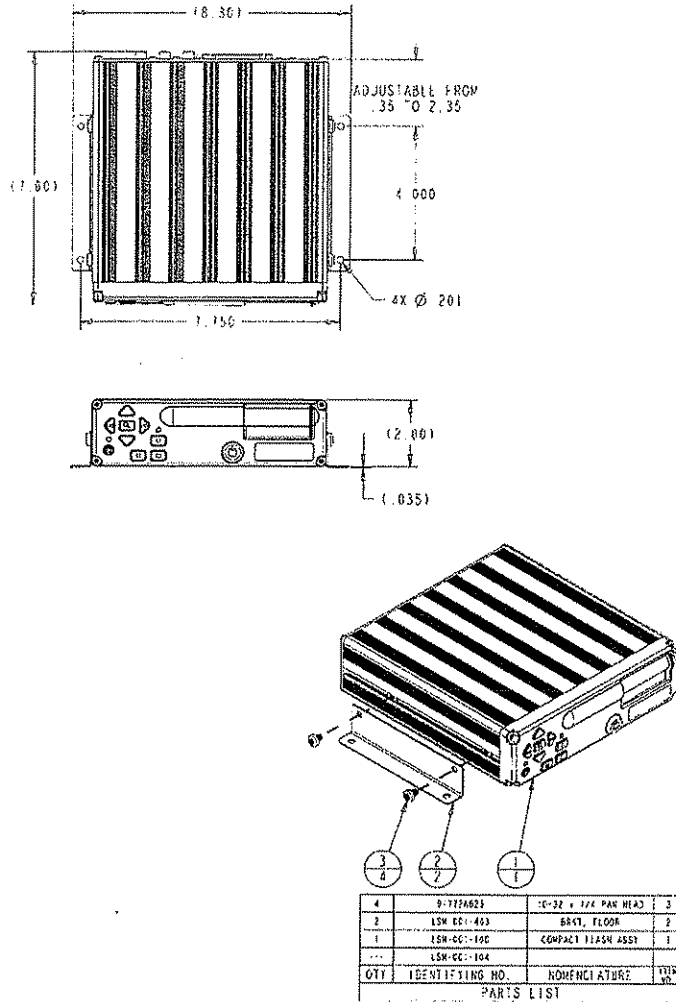
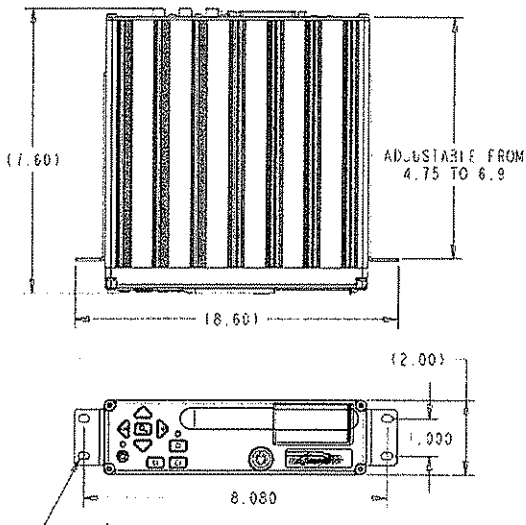


Figure 1: MDVR-CF Bottom Mounting Drawing



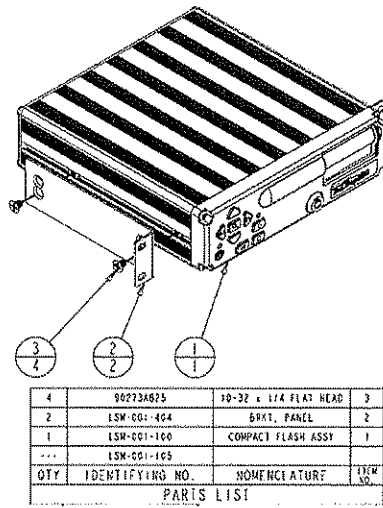


Figure 2: MDVR-CF Front Mounting Drawing

MDVR-CF Connection

The MDVR-CF features a variety of connection points for various accessories as shown in Figure 3 below:

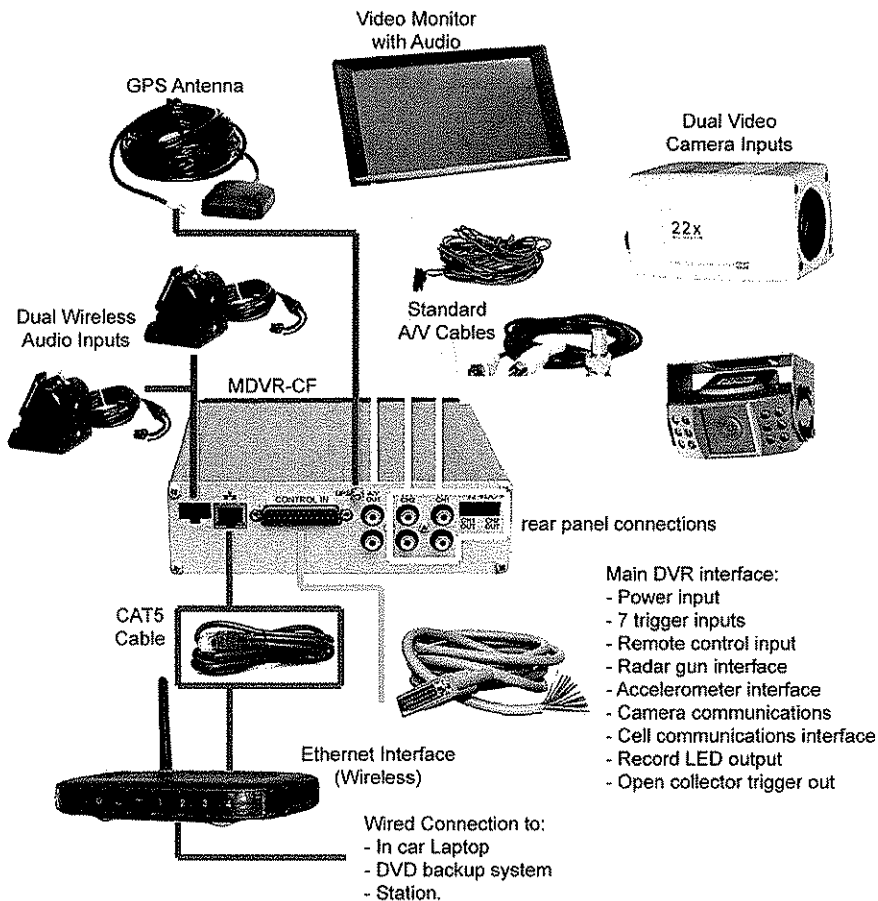


Figure 3: MDVR-CF Connection Guide

The external connections feature:

- Dual camera audio and video input
- Dual camera 12V power output
- Video / Audio monitor output
- External magnetic attachment GPS Antenna
- Dual Audio inputs / Wireless audio compatible w/ triggers
- Standard TCP/IP Ethernet connection featuring:
 - Built-in Web server
 - Built-in File Transfer Protocol (FTP) server
 - Connection to in-car Laptop computer for video display & control.
 - Compatible with wired or wireless access points for 802.11 a/b/g connections.
 - Connections to external Ethernet based DVD-RAM video backup systems.
- Main DB-25 Connector featuring:

- Direct automotive power connection. The MDVR features an internal resettable fuse.
- 7 trigger inputs.
- 1 record status LED output.
- 1 Open Collector trigger output.
- Serial interface to a remote control unit.
- Serial interface to a Radar Gun.
- Serial interface to an accelerometer.
- Serial interface to a zoom camera for one-touch control.
- Serial interface to a Cell-based wireless network for real-time tracking.

Digital Recorder Front Panel Operation

Below is a description of the functions of the Digital Recorder front panel buttons. Some buttons will have different functions depending upon if the recorder is recording, stopped, or playing back video.

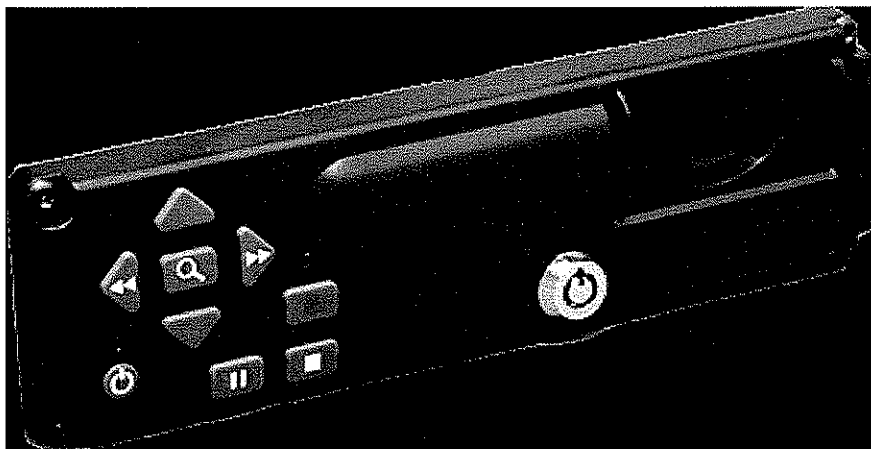


Figure 4: Front Panel Controls

Power Button:

One method of powering on the unit is by pressing the power button. Powering the unit off is possible with or without password entry.

Arrow Keys (mode dependant):

Pause Playback Mode: Left & Right Arrow Keys adjust slow playback speed,

Up & Down Arrow Keys single frame step through the video.

Playback Mode: Left & Right Arrow Keys adjust fast (up to 90x) playback speed. Up Arrow Key selects audio output from channel 1 playback while Down Arrow Key selects audio output from channel 2 playback.

Live & Record Modes: Up Arrow Key selects video channel 1 record and audio output from channel 1 output to the audio out connector. Down Arrow Key selects video channel 2 record and audio output from channel 2 output to the audio out connector. These selections override trigger inputs for the duration of the recording. The Right Arrow Key is the predefined Camera Zoom Action button.

Search Button:

The center search button allows searching the video recorded on the Compact Flash card by bringing up the search menu. Holding this button for greater than 3 seconds brings up the main configuration menu. This menu features an optional password protection screen if enabled.

Pause Button:

The Pause Button allows pausing of playback video and resume play of video.

Stop Button:

The Stop Button stops playback of video and moves into live view mode.

Record Button:

The Record Button begins recording of the video of the selected channel.

Basic MDVR-CF Operation

The OSD shown in Figure 5 below is the basic OSD for the Record, Live View and Playback Modes of operation. The video is recorded without these overlays, but the data shown is attached to each video frame as meta data for extraction by the video player software.

Time & Date:

This time and date is either entered manually and kept current with by the MDVR or is acquired and synchronized by the GPS unit if the option is selected.

Trigger Inputs:

There are 6 user selectable trigger inputs with a 1 character symbol.

MDVR Status:

Determines the status of the MDVR; includes stop, record, playback and playback speed, and pause.

MDVR Name:

This is the 14 character field to identify car, officer and MDVR unit. This field can be divided up into 3 fields by the back-end software for database searching.

GPS Information:

This included Latitude, Longitude and current vehicle speed.

Accelerometer / Radar:

This display defaults to display x and y accelerometer in units of g-force. If a Radar Gun is attached, these two fields default to target car speed and lock speed.

Remaining Record Time:

This is the remaining storage time left on the Compact Flash card in units of hours:minutes.

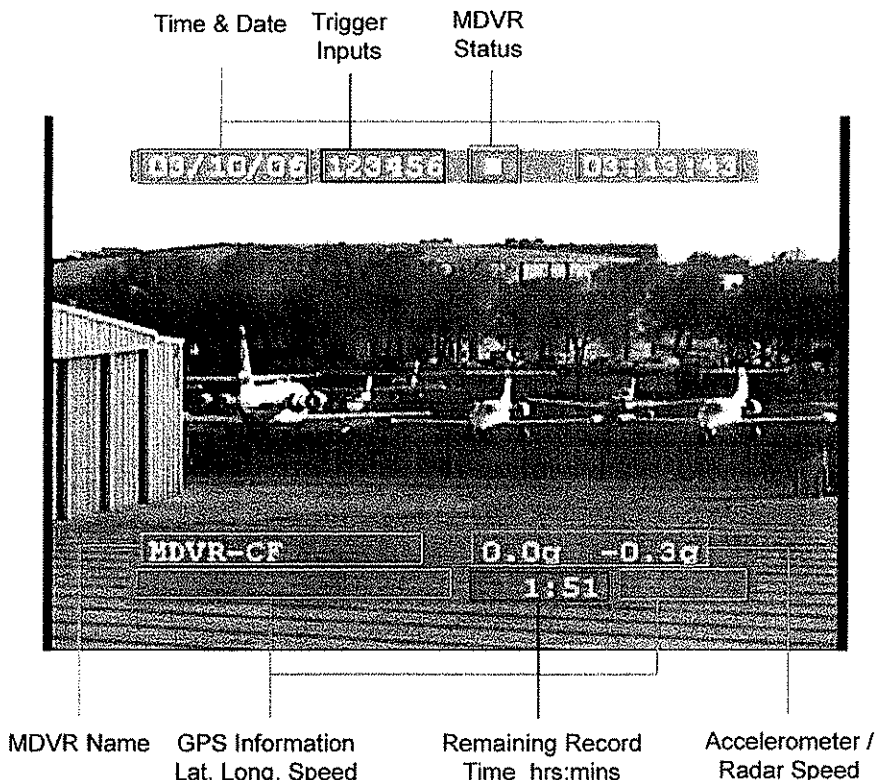


Figure 5: Basic OSD

MDVR-CF Video Search Menu

The OSD shown in Figure 6 below is the video search menu used for searching recorded video files on the Compact Flash card. The column on the left shows the days with the column on the right showing time in that day. An asterisk in the left column signals that record was triggered by an event.



Figure 6: Recording Search Menu

MDVR-CF Main Menu

The OSD shown in Figure 7 below is the main unit menu. From this menu access to all other setup screens is possible.

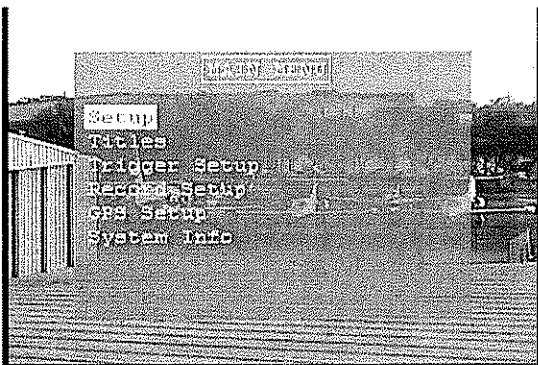


Figure 7: Main Menu

MDVR-CF Configuration Menus

Setup Menu (Figure 8)		
Field	Action	Default
Units	Selection of English or Metric units.	English
Video Switching	Selects the method of video switching either by trigger input, time period or no switching.	Trigger
Video Dwell Time	Selects the time between video switch.	0 sec
Radar	Select type of Radar Gun or none.	TBD
Time Setup	Brings up the Time Setup menu.	
Advanced	Brings up the Advanced Setup	

Setup	menu	
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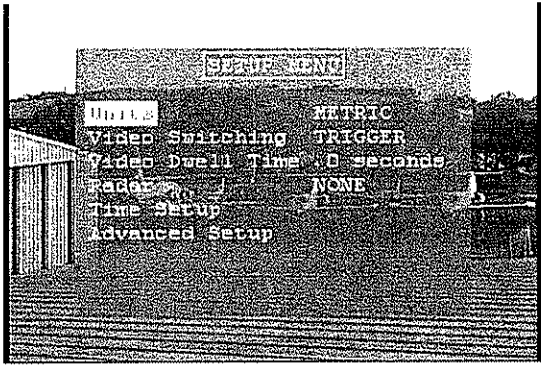


Figure 8: Setup Menu

Time Setup Menu (Figure 9)		
Field	Action	Default
Date	System date (assuming GPS date is OFF)	01/01/06
Time	System time (assuming GPS time is OFF)	00:00:00
Daylight Savings	Automatic adjustment for daylight savings time change.	ON

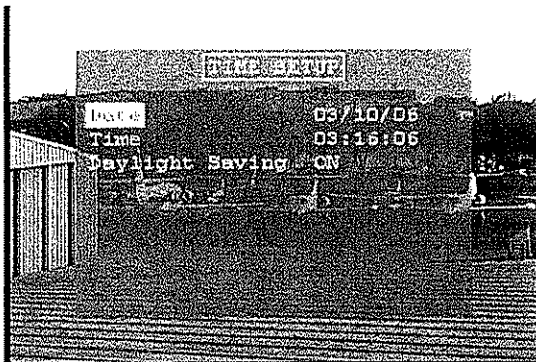


Figure 9: Time Setup Menu

Time Setup Menu (Figure 10)		
Field	Action	Default
Restore Defaults	Restores the factory default settings.	
Erase Media	Permanently deletes all recorded data from the selected	

	media.	
Power Password	Sets the password field or no password to allow the power button to turn OFF the unit.	
Menu Password	Sets the password field or no password for the menu.	
Network Setup	Opens the Network Setup menu.	
HTTP Setup	Sets up the password for the web server access.	

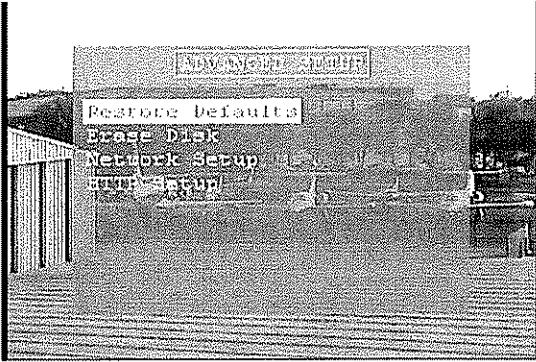


Figure 10: Advanced Setup Menu

Network Setup (Figure 11)		
Field	Action	Default
IP Config	Selects manual or DHCP setup.	
IP Address	Manually entered IP address	
Subnet Mask	Manually entered subnet mask	
Gateway	Manually entered gateway address	
Primary DNS	Manually entered Primary DNS server address	
Secondary DNS	Manually entered Secondary DNS server address	
Save	After configuration, the save option must be selected	

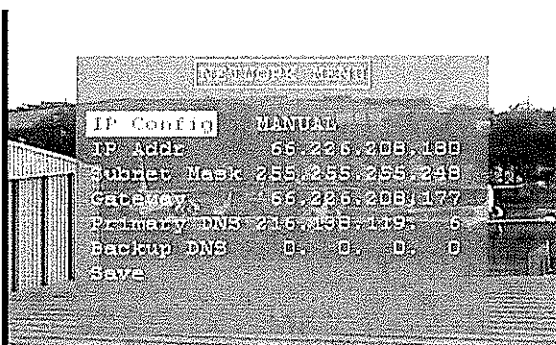


Figure 11: Network Setup Menu

Network Setup (Figure 12)		
Field	Action	Default
Username	Users Name	dvrStart
Password	Password	myPass40
HTTP Port	HTTP Port	80
Save	After configuration, the save option must be selected	



Figure 12: HTTP Setup Menu

Title Setup (Figure 13)		
Field	Action	Default
System Name	14 character name (ie. Car # / Officer / Other)	MDVR-CF
Trigger x	1 character trigger name	1 - 7

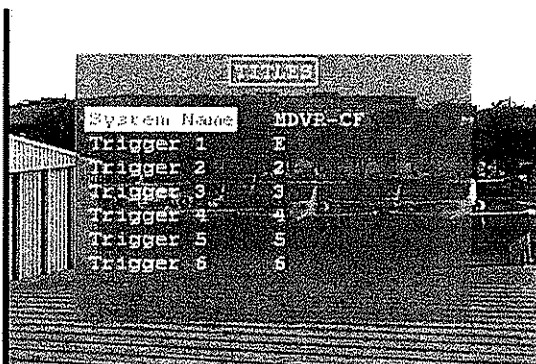


Figure 13: Titles Setup Menu

Trigger Setup (Figure 14)		
Field	Action	Default
Trigger 1-6	Enter a name for the trigger event / Enter if the trigger is active high or low / Select the action for the trigger event (MARK EVENT, START RECORD, STOP RECORD, RECORD while active, SWITCH CAMERA, STEALTH REC, DISABLE)	Trigger-x / Active H / No Action
Speed	Enable recording at a given input speed.	Disabled
Accel	Enable recording if one of the axis of the unit experience g-force beyond the trigger point.	Disabled



Figure 14: Trigger Setup Menu

Record Setup (Figure 15)		
Field	Action	Default
Image Size	Selects the image resolution 640 x 240 / 320 x 240	320 x 240
Image Quality	Image quality selection of HIGH, MEDIUM HIGH, MEDIUM, MEDIUM LOW, LOW. Lower image quality provides longer record time at lower video quality.	MEDIUM
Frame Rate	Selects the frame rate from 30 FPS down to 1/8 FPS.	30 FPS
Audio Recording	Selects whether to record 2 channels of audio or no audio (video only).	ON
Total Time	Displays the recording time capacity based on the Compact Flash card size and	

record settings above.

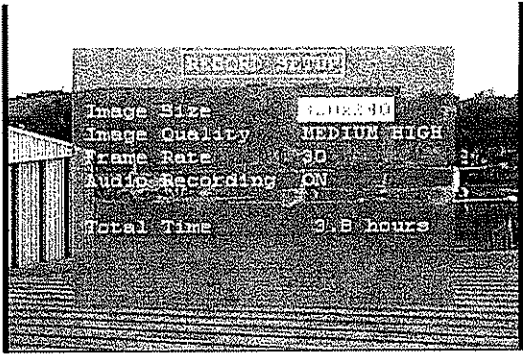


Figure 15: Record Setup Menu

GPS Setup (Figure 16)		
Field	Action	Default
Use GPS	Selects whether to utilize the GPS positioning data.	YES
Use GPS Time	Selects whether to utilize the GPS time and date settings.	YES
UTC / Local Time	Selects the difference between universal time and local time (in hours – 6 for Central Time).	- 6

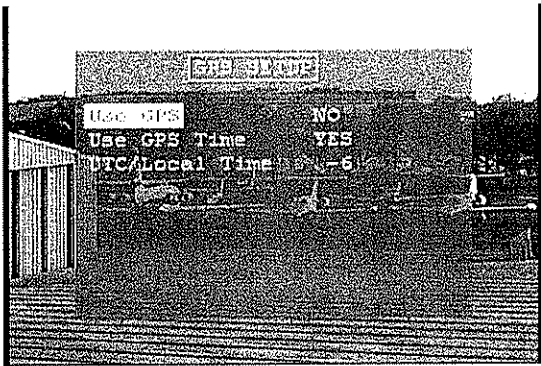


Figure 16: GPS Setup Menu

System Info (Figure 17)		
Field	Action	Default
Disk Capacity	Storage capacity of the record media.	
Percent Used	Percentage of used space on the record media.	
Percent Free	Percentage of free space on the record media.	

Firmware Version	Version of the installed firmware.	
MAC Address	Ethernet MAC address of the unit. Unique for each unit.	

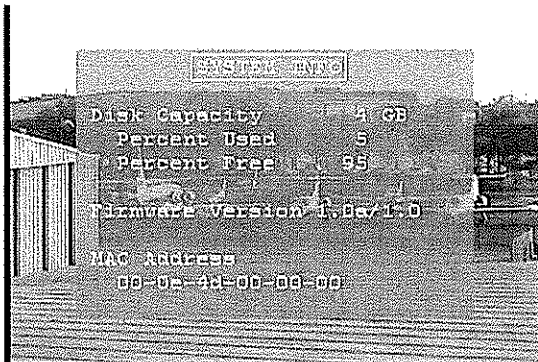
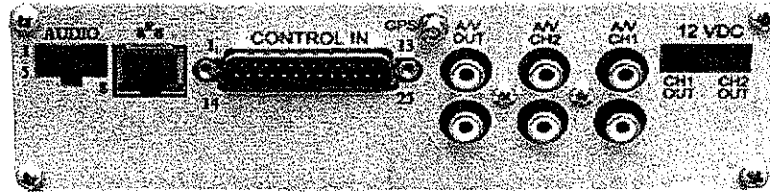


Figure 17: System Info Menu

Back Panel Connections



Audio Interface Connector	
8-pin Molex 43045-0800	
Pin #	Function
1	Audio 1 Signal In / Also tied to RCA Audio 1.
2	Audio 2 Signal In / Also tied to RCA Audio 2.
3	Ground
4	Trigger 7 / Mic Trigger In
5	Open Collector Output.
6	Ground
7	12V Power Output. Powered on all the time.
8	Ground

Main Interface Connector	
25-pin DSUB	
Pin #	Function
1	Record LED Out; 3.3V with a 1k series resistor.
2	12V Camera Output
3	Trigger In 1
5	Trigger In 2
6	Trigger In 3 / Remote power on / Ignition
7	Trigger In 4
8	Trigger In 5
9	Trigger 6

10	AUX 12V Output w/ 100ohm series resistor.
11	Trigger 7 / Mic Trigger In on 8-pin Molex.
14	Spike protected Automotive Power Output.
15-16	Automotive Power Input
4, 12, 13, 17,18, 25	Automotive Ground
19	RS232-RX 4
20	RS232-TX 4
21	RS232-RX 3
22	RS232-TX 3
23	RS232-RX Radar IF
24	RS232-TX Radar IF
25	Ground

- Notes:**
1. Pins 23 & 24 are dedicated to the Radar Interface Only.
 2. Pin 11, Trigger 7 / Mic Trigger Input are also connected to pin 4 of the 8-pin Molex. Use only one or the other.
 3. Pin 14 is protected automotive output power which could range from 10V to 26V.

Camera Power Connector
2-pin Molex 43650-0200

Equipment Specification

Specifications	
Power Supply Input Rating	Standard automotive power; 8 – 24 Volts DC.
On Power Consumption w/o Cameras or Audio	< 270 mA
Off Power Consumption w/o Audio connected	< 10 mA
12V Camera Power Output Max	Two 12V @ 1 Amp regulated switched power outputs.
12V Audio Output	Constant on 12V @ 250mA output.
Compression	Motion JPEG compression w/ selectable compression ratios of 10:1, 12.5:1, 15:1, 17.5:1, 20:1)
Resolution:	Selectable 640 x 240 or 320 x 240.
Frame Rate:	Selectable 30 FPS to 1/8 FPS.
Operating Temperature:	0 C ~ 40 C ambient temp.
External Trigger inputs:	7 input triggers.
External signal outputs:	1 LED driver, 1 Open Collector output.
Archive Media Type:	Type 1 Compact Flash Support
Unit Weight:	1.4kg (3.0 lbs)
Unit Size:	7 in (178 mm) x 2 in (51 mm) x 8 in (203 mm)