



# **PROSECUTOR VCR**

## **TRUNK-MOUNTED SYSTEM Operation Manual**

March 2006

**Prosecutor of Texas LLC.  
Humble, Texas  
[www.policevideo.com](http://www.policevideo.com)**

**IMPORTANT**

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**To keep your warranty valid, it is important to consult with a Prosecutor of Texas technician before installing the Prosecutor VCR System, as well as reading, filling out and returning the following form.**

**Failure to do so will VOID the Prosecutor VCR System warranty.**

**IMPORTANT**

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**Tel: (281) 446-9010**

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**Website: [www.policevideo.com](http://www.policevideo.com)**

A completed copy of this Installation WorkSheet must be mailed to the following address to activate warranty coverage. **Failure to submit this document within 10 days from installation will void the product warranty:**

Prosecutor of Texas LLC  
 Warranty Registration  
 1906 Treble Drive  
 Humble, TX 77338

## Prosecutor After-Installation Test Worksheet

Sales Order # \_\_\_\_\_

Serial # \_\_\_\_\_ Wireless Frequency \_\_\_\_\_

	<b>I. Pre-Test Verification</b>		<b>Pass</b>
1.	Inspect vehicle and record any abnormalities before installation begins. Notes: _____		_____
2.	Install Prosecutor System per installation instructions in manual.		_____
3.	Verify connection of DB25M-DB25M cable between control head and vault.		_____
4.	Verify connection of camera cable to control head.		_____
5.	Verify connection of interface cable between control head and interfaces.		_____
6.	Verify connection of windshield LED cable assembly.		_____
7.	Verify connection of the power cable to the Vault.		_____
8.	Make sure POWER button on the control head is the only button that lights up. If not, check the MON ON/OFF switch.		_____
<b>II.</b>	<b>System Test</b>		
1.	Press POWER button to power up the system. Check that the video is present and that the monitor has a quality image.		_____
2.	Insert a VHS Tape into the vault VCR.		_____
3.	Check ZOOM and FOCUS buttons function. A beep should sound whenever a button is pressed. Confirm the camera focus on object when any ZOOM button is pressed.		_____
4.	Check RECORD, PLAY, STOP, REW, and FFW functions. A beep sound is made when a button is pressed.		_____
5.	With the transmitter, walk about 300 feet in front of the vehicle. Turn the transmitter ON. The RECORD and AUDIO ON indicators should illuminate on the control head. Also, the windshield LED should illuminate, red for RECORD and green for AUDIO ON.		_____
6.	Turn ON and OFF the transmitter 2 times and check the AUDIO ON indicator. The indicator should illuminate 2-3 seconds after the transmitter is turned on.		_____
7.	Turn OFF the MIC. The VCR should continue recording.		_____
8.	STOP, REW, and PLAY the recorded tape. Check the quality of the recorded video and audio.		_____
9.	Turn ON the siren switch, the system should go to record and SRN message appears in video.		_____
10.	Turn ON the light-bar switch, the system should go to record and LTS Message appears in video.		_____
11.	Check the BRK (brakes) and TS (turn signal) in a similar manner if these inputs used. The message will appear in the video but the system will not go into RECORD.		_____

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- 12. Switch the BSEAT rocker to backseat MIC. Talk into the backseat MIC. Check the audio quality. Pay special attention to background noise. \_\_\_\_\_
- 13. Check video monitor for backseat images and video quality. \_\_\_\_\_
- 14. Switch the BSEAT rocker to original position. Check video monitor for camera images. \_\_\_\_\_

**III. System Programming**

Using the hand-held IR remote, point it to the control head and perform the following functions:

- 1. Do a master reset by pressing PAUSE/STILL for at least 6 seconds. \_\_\_\_\_
- 2. Make note of the version number. **VERSION** \_\_\_\_\_
- 3. Press and hold STOP to get into programming menu. If you get the "Programming

is Locked" message turn off the programming keylock switch on the rear of the vault. When you see the "User Password", press STOP again to enter the menu. Program the following settings per customer requirement: \_\_\_\_\_

- Set Time/Date \_\_\_\_\_
- Titler \_\_\_\_\_
- Messages \_\_\_\_\_
- Mode and Password \_\_\_\_\_
- Record Settings \_\_\_\_\_
- Display Settings \_\_\_\_\_
- Interface Selection \_\_\_\_\_

Notes \_\_\_\_\_

**IV. Power Down**

- 1. Press POWER button on the control head to power down the system. \_\_\_\_\_
- 2. Make sure POWER button on the control head is the only button that lights up. \_\_\_\_\_

**V. Appearance**

- 1. Check system for prominent visual damage or scratches. \_\_\_\_\_
- 2. Check for proper serial numbers. \_\_\_\_\_
- 3. Clean up LCD display as needed. \_\_\_\_\_

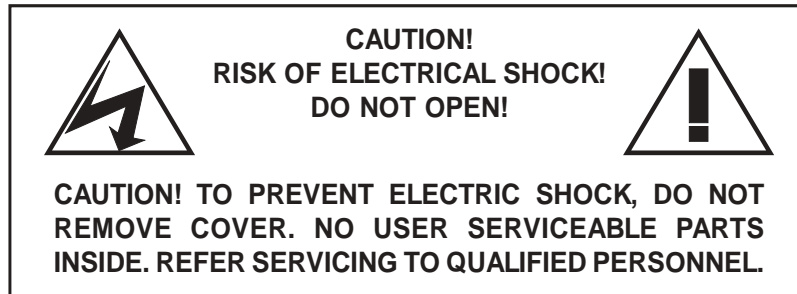
**INSTALLED BY** \_\_\_\_\_ **DATE** \_\_\_\_\_

**TESTED BY** \_\_\_\_\_ **DATE** \_\_\_\_\_

**CUSTOMER CONFIRMED** \_\_\_\_\_ **DATE** \_\_\_\_\_

# Please Read

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## WARNING

**TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DONOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. DANGEROUS HIGH VOLTAGE IS PRESENT INSIDE THE ENCLOSURE. DO NOT OPEN THE CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.**

## NOTE

This equipment has been tested and found to comply with the limits for class A digital device, pursuant of part 15 of the FCC Rules. These limits are designed reason able 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 withtheinstructions manual, may cause the harmful interference to radio communications. Operations 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.

USER-INSTALLER CAUTIONS: YOUR AUTHORITY TO OPERATE THIS FCC VERIFIED EQUIPMENT COULD BE VOIDED IF YOU MAKE CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE TO PART 15 OF THE FCC RULES.

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 **Compliant**

# Table of Contents

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Foreward _____	7
Features & Specifications _____	8
Instructions in Brief _____	11
Installation _____	14
Connections _____	18
Basic Operations _____	19
Programming _____	22
Warranty & Information _____	30

## Foreword

We thank you for your purchase of the Prosecutor VCR Trunk-Mounted System. You have purchased a high quality system that will provide you with many years of trouble free service.

Should you have any question about the system, or any problems, please call (800) 482-9211 or fax (281) 446-9013. We service all components of the system in-house as well as through our ever-growing Dealer Base.

This guide will provide the user with enough information to operate the Prosecutor VCR properly and effectively. As you read through this guide, if you have any questions, ideas, or suggestions about the system or the guide itself, please feel free to call us at your convenience.

Thank You

### **PROSECUTOR OF TEXAS LLC.**

**1906 Treble Drive**

**Humble, TX 77338**

**Tel: 281-446-9010**

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**Email: [prosecutoroftexas@policevideo.com](mailto:prosecutoroftexas@policevideo.com)**

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# Features & Specifications



CONTROL HEAD  
CAMERA  
WIRELESS MICROPHONE  
(RECHARGABLE)

VIDEO RECORDER  
VAULT  
WIRING HARNESS  
OPERATION MANUAL

## Features

### System

- ✦ Smallest Trunk VAULT Available
- ✦ 16 X Optical Zoom Low Light Auto Focus Camera, 1.0 Lux, 8X Digital Zoom
- ✦ Easy to use overhead controls
- ✦ Programmable Industrial Grade VCR with proprietary RS-232 Controller
- ✦ Environmentally Controlled Vault for VCR.
- ✦ Record activation by body transmitter control
- ✦ Record Over Protection
- ✦ Radar Gun / Laser / GPS / Alcohol Meter Interface included as Standard Equipment
- ✦ Covert Mode
- ✦ Outside Vehicle Viewable "Record" & "Audio On" Indicators
- ✦ Backseat Microphone Standard Equipment
- ✦ On-screen Time and Date Stamp with Title
- ✦ Manual and Automatic Operation
- ✦ Camera Position can easily be adjusted via Windshield Bracket
- ✦ Backseat Camera available

# Features & Specifications

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## Camera

- ✦ Model AVE-8002
- ✦ Hi-Resolution 450 TV Lines – Solid State
- ✦ Optics Lens - 16X Zoom (f=3.9-63mm)
- ✦ Min. Illuminance 1.0 Lux
- ✦ White Balance Auto/Preset/Manual
- ✦ Digital Zoom 8X
- ✦ Operating Temp. 0 deg.C - 40 deg. C
- ✦ Power 12VDC +/-2V 4W
- ✦ Dimensions 2.65"W X 2.56"H X 4.4"D (67.3cm x 65cm x 118cm)
- ✦ Regulation FCC – Class A
- ✦ Focus Auto/Near/Manual/Wide
- ✦ Back Light Compensation

## Control Head

- ✦ 4-inch color TFT LCD monitor
- ✦ Durable membrane switch with backlight
- ✦ Both LCD monitor and switch backlight can be turned off for “quiet” operation
- ✦ Audio volume control and LCD brightness control
- ✦ LED output indicating both audio and recording are functional
- ✦ Constructed with 18-gauge steel
- ✦ Dimensions: 11x6.25x3 inches (27.94cm x 15.88cmx7.62cm)
- ✦ Weight: 3.7lbs (1.68kg)

## Vault

- ✦ Constructed with 14-gauge steel, lockable and tamper resistant
- ✦ Dimensions: 11.5"W X 6.5"H X 16"D (29.21cmx16.51cmx40.64cm)
- ✦ Weight: 28.82 lbs (13.02 kg)
- ✦ Removeable vault with trunk mounted bracket
- ✦ Non-reflective black powder coated matte finish
- ✦ Tamper resistant locking door
- ✦ Environmentally controlled
- ✦ Specialty Radar / Laser / GPS / Alcohol Meter / Laptop / DL Card Reader Interface ready
- ✦ Dual Wireless Microphone Capability (optional)
- ✦ Shielded antenna input
- ✦ Raised mounting straps included
- ✦ Backseat Microphone
- ✦ Backseat Camera Ready (optional)

## Wiring Harness

- ✦ Control Cable 25-Conductor shielded with DB-25 connector
- ✦ Power Cable 16-gauge stranded – fused to battery 10A
- ✦ Radar/Laser/GPS Interface 2-Conductor shielded with DB-9 connector (optional)
- ✦ Antenna Shielded 75 coax terminated via RF to chassis of vault
- ✦ Interface 6-Conductor Shielded to Lights, Siren, Ignition, Brakes and Turn Signals



# Features & Specifications

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## VCR

- ✦ Industrial grade Stereo HiFi VHS Mobile Recorder
- ✦ Operating Voltage 11V to 15V DC / 15W
- ✦ Operating Temp 0 to 40 C (32 to 108F)
- ✦ Recording Method Dual-head (4 heads total for flickerless playback)
- ✦ Recording time 8 hours (with T-160 tape)
- ✦ FFW/REW Time < 5 minutes using T-120 tape
- ✦ Horizontal Resolution > 250 lines
- ✦ Audio Stereo or two channels mono
- ✦ On-screen display Time, Date, Title, 5 indicators, tape time, VCR status, Interface Readout and programming menu when selected
- ✦ Automatic search for the last recorded portion of tape before recording
- ✦ Recording can be started with Audio transmitter, Siren signal, Light signal or BRK / TS
- ✦ Recording can be activated with Overhead Controls

## VHF Audio Transmitter and Receiver

- ✦ Compliant with FCC Part 74 and Industry Canada RSS-123 rules
- ✦ Transmitter dimensions 3.6" x 2.5" x 1" (9cm x 6.5cm x 2.5cm)
- ✦ Weight: 2.82 oz (0.08kg)
- ✦ High quality Wireless Microphone System with Ultra-sonic Tone-Coded-Squelch
- ✦ Frequencies in VHF range – more than 50
- ✦ Working range - 300 ft - Maximum 1000 ft
- ✦ Battery life – 12 to 15 hours with 2 AA NiMH Rechargeable Batteries (included). Max 25 hrs
- ✦ Comes with a Dual-Station Battery Charger
- ✦ Wind-Screen and Tie clip
- ✦ Holster – Forward Cantered; optional Patent Leather or Basket Weave
- ✦ Audio Receiver mounted inside the Vault
- ✦ Shielded Antenna mounted on trunk – ¼ or 1/2 wave whip design
- ✦ Built-in Microphone or External Lapel Microphone

## 900MHz Spread Spectrum Transmitter and Receiver (optional)

- ✦ Compliant with FCC Title 47 Part 15 Subpart C
- ✦ Digitally Coded over 9000 Combinations, automatically matches code when transmitter is placed in the receiver base
- ✦ Multiple units can be used with NO interference
- ✦ 1000 ft range with internal antenna
- ✦ Full duplex two-way voice communication (optional)
- ✦ Remote Activation of Transmitter when VCR in Record Mode
- ✦ 6 - 8 Hours of Talk Time per charge, Standby two days
- ✦ Rechargeable Battery Charges while in base
- ✦ Convenient Mounted Charging and Receiver Base up front next to officer
- ✦ Built-in Microphone or External Lapel Microphone
- ✦ Operating Temperature 10 – 110 degrees F
- ✦ Transmitter Dimensions: 63.7mmW x 32mmD x 111.5mmH (2.5" x 1.23" x 4.4")
- ✦ Transmitter Weight: 156 g (5.3 oz.)

# Instructions in Brief

## Control Head



### 1. AUDIO ON

The Audio Light will be ON when the wire less microphone is turned ON.

### 2. LOW TAPE

The Low Tape Light is the warning that the tape is about to END.

### 3. OUT TAPE

The Out Tape light indicates that this is the end of the tape.

### 4. RECORD

The Record light indicates that the VCR is in Recording mode.

### 5. ZOOM IN

Press this button to Zoom In the image of the front camera.

### 6. ZOOM OUT

Press this button to Zoom Out the image of the front camera.

### 7. NEAR FOCUS

Press this button to focus the objects.

### 8. FAR FOCUS

Press this button to focus the objects.

### 9. STOP

Press this button to STOP the tape.

# Instructions in Brief

## 10. REWIND

Press this button to Rewind the tape while the VCR is in the stop mode or Press in Play mode to do a reverse picture search.

## 11. PLAY

Press this button to start the play back mode.

## 12. F.F.

Press this button to Fast Forward the tape while VCR is in the stop mode or Press in Play mode to do a forward picture search.

## 13. RECORD

Press this button to start the recording. The light on the Record button (No. 4) will be on when the VCR is in the record mode.

## 14. IR REMOTE SENSOR

Point the IR remote toward the sensor.

## 15. POWER

Press to turn the power on and off.

## 16. LCD DISPLAY

This Displays the live images of the camera or recorded images off of the VCR.

## 17. SPEAKERS

Plays the live sound from the microphone or from the VCR.

## 18. BRIGHTNESS

This controls the brightness of the LCD display.

## 19. VOLUME/ MONITOR CONTROL

Move this knob clockwise or counter clockwise to control the Speaker's volume. You can also control the LCD monitor and control head's display light by this knob.

## 20. CAMERA INPUT

Connect the front camera to this connector.

## 21. CONTROL

DB-25 connector for control head interfacing with vault.

## 22. INTERFACE

Connector for interfacing siren, light bar, ignition, brakes, and turn signals.

## 23. LED

The Red LED will turn ON when the VCR is Recording and a Green LED for the audio signal from the control head. This will help the officer determine the control head record status from outside the vehicle.

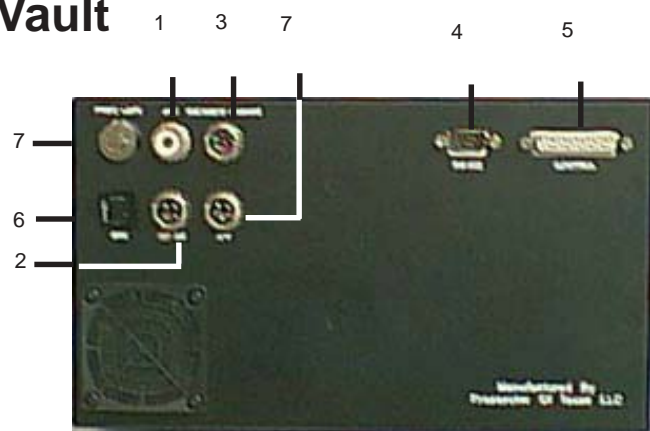
## 24. BSEAT

You can select the front or rear camera / microphone by switching the BSEAT switch.

## 25. A/V Connector

This connector gives the user access to the audio and video output and can input an additional audio or video signal. This is a factory installed option.

## Vault



### 1. Antenna Connector (PL259)

### 2. Power Connector (4 Pin Din)

### 3. Rear Camera & microphone connector (8 Pin Din)

### 4. Connector for Radar / Laser / GPS / laptop or Alcohol Meter (DB-9)

### 5. Vault Control Connector (DB-25)

### 6. 3 Amp Circuit Breaker

### 7. A/V Connector (5 Pin Din)

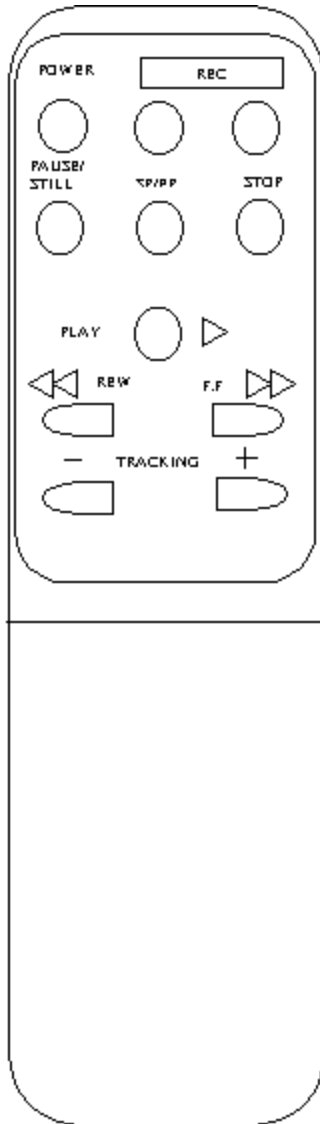
### 8. Program Key Lock

When the key in the vertical position, the Prosecutor System and the IR remote control functions are in the "Ready to Record or Playback" mode. When the key is in the horizontal position, the Prosecutor System and IR remote control functions are in the "Ready to Program" mode.

# Instructions in Brief

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## IR Remote Control



### POWER

Don't use this button. The VCR power is controlled by the internal microprocessor. The VCR will automatically power up when 12VDC is applied to the VCR.

### REC

Press these two (2) buttons simultaneously to manually start recording.

### PAUSE/STILL

Press during recording to pause recording. Press during the playback to freeze the picture.

**Caution:** If this button is held for 6 seconds then it will master reset the VCR and clear all the programming to factory default.

### SP/EP

Don't use this button. Recording speed can only be set in the on screen programming mode.

### STOP

Press this button to stop a running tape. Alternatively press and hold that button for 3 to 5 seconds to access the programming mode.

### PLAY

Press this button to start the play back mode.

### REW

Press to rewind the tape during the stop mode and to reverse picture search in play back mode.

### FAST FORWARD

Press to fast forward the tape during the stop mode, and forward picture search in the play back mode. In programming mode use this button to access the menu selection.

### TRACKING

Use (+) or (-) button to manually adjust the tracking of the picture. In the programming mode use these buttons to move the cursor upward or downward.

# Installation

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To properly install the Prosecutor VCR System, please read and perform each of the following steps in order.

## Preparation

Disconnect the car battery cables. Remove the lower half of the rear seat. Remove the kick panel and trim strips on front and rear passenger side of the car. Remove or loosen the lower half of the trim on the door post between the front and the rear door enough to get cables under.

## Camera Mount

Remove the mount foot from the camera mount. If you are using a windshield mounted camera, mount the foot to the window by following the directions on the included adhesive package, making sure to follow the instructions exactly. If you are not mounting the camera to the windshield, follow the directions on the adhesive package and mount the foot in the desired location, paying special attention not to obstruct air bag deployment. Allow adhesive to set until the end of the installation before mounting the camera.

## LED

The LED wire connection will hook into the rear of the control head. Place the LED cable somewhere on the front dashboard, making the LED end visible outside the front windshield of the vehicle. (On the driver's side of the windshield is recommended. This way the cable can be placed up the side panel and run across the edge of the headliner to the rear connection of the control head.)

## Vault Mount

When installing in a Ford Crown Victoria, Prosecutor VCR recommends mounting the VCR Vault inside the trunk on the lower left (driver's) side adjacent to the air suspension switch. See diagram:



Partially remove carpet from work area.



1/2"  
Dia.  
hole

Find the 1/2" Dia. locating hole.



Measure 5-3/4" across from the hole.



Measure 3-7/8" out from the edge, use 17/64 metal drill bit to drill a hole.

# Installation

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Measure 6-5/16" back from the center of the first hole, get the center point of the second hole and use 17/64 metal drill bit to make a hole.



Put the carpet back on, punch holes through carpet to match drilled holes. Place (2) 1/4" x 1" Hex head bolts on the left 2 holes of mounting plate, (remember thumbscrew of the mounting plate should face to the bumper direction) and match holes drilled in trunk floor. Place flat washer, then lock washers and hex nuts (or lock nuts) on bolts from outside of trunk floor. Tighten bolts to secure mounting plate.



Place a hex head sheet metal screw at the middle hole of mounting plate.



Put the VCR vault on mounting plate and lock them together by using the mounting plate thumb-screw.



Connect all applicable cables to the vault.

# Installation

## Vault Mount(Continued)

Connect the Control Console cable , rear Camera and Mic cable, Antenna cable and the Power cable to the rear of the vault. Bundle the cables to create a service loop so that the vault can easily be unlocked, removed from the base plate and cables disconnected.

## Control Console

Remove the control head mounting plate from the control console (4 screws on front). Remove the sun visors inner attachments (closest to the rear view mirror). Position the control mounting plate between the sun visors such that when the control box is attached, the monitor can be viewed from driver's position. Align the hole over the sun visor's inner attachment holes and reinstall the sun visor attachments, making sure the control head mounting plate is captured by the attachments. If additional support is desired (requires making holes in headliner), 3/4-inch self-drilling screws can be used to attach the mounting plate to the secondary metal under the headliner. Wait to mount the control box until the end of the installation.

**Note: If you have a ticket light (round light) added to your vehicle, you have to use the ticket light adapter.**

Attaching the control head mounting plate between the sun visors.

To determine whether or not you need the ticket light adapter, position the control box behind the light. You should have at least 2 inches between the control box and window, but still be able to get to the monitor controls on top of the control box. Most Ford Crown Victoria's will not need this, most Chevy Caprices will.

## Antenna Mount

This is a common lip antenna. Position the antenna at the desired location on top of the trunk. For mounting, see the instructions enclosed with the antenna.

**Note: If the Radio Frequency Interface is significant, a permanent 1/4 inch wave VHF antenna may be needed to mount through the fender of trunk.**

## Rear Camera & Microphone

Position the camera and microphone to the desired location at the rear of the vehicle. For mounting, see the instructions enclosed with the rear camera.

## Interface Cable

This is the gray cable with a 6-pin connector on one end and the orange, black, blue, white, yellow and Red wires on the other end. Route the interface cable from the control head to the fuse box. Start at the center of the headliner, to the driver side of the central cable, leaving about 4 inches of the 6 pin plug end of the cable hanging down. Route across, under edge of the headliner, down the door to the fuse box. Attach the **orange** wire to switched 12 V. Extend **white** wire to the light box wire that gets 12 V when the overhead lights are activated. Attach the **blue** wire (+) and the **black** wire (-) to the siren. If the siren is AC instead of DC, you can use the same connections. **Note: For AC; the blue wire is hot, the black wire is neutral.** Attach the **yellow** wire to the turn signals and the **red** wire to the brakes switched 12VDC. Attach the **green** wire to the ground.

## DB-25 Control Cable

This is the 25 foot DB-25 male to DB-25 male cable. Connect one side of the cable to the control head and other to the vault. Route the cable through the back seat to the front of the car, up the front door post, along the front edge of the headliner, to the middle of car. Leave about 4 inches hanging from the headliner. (Pictures of cables being routed located on next page with power cable routing.)

Attaching the cables to the rear of the vault.



# Installation

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## Power Cable

This is the gray cable with **red**, **black** and **blue** wires on one end and a 4 pin connector on the other end. Verify the 4-pin connector is connected to the vault in the trunk and make sure the detent of the connector is correct... do not force this connector. Route the cable through the rear seat panel, under the back seat and carpet, to the battery area of the car (routing through the firewall to the battery is preferred). Secure the red wire (through the firewall) to +12V to the battery. Connect the **black** and **blue** wires together to chassis ground.



View of DB-25 and power cables coming from trunk, positioned behind the rear passenger side seat, heading toward front passenger seat. Note: cables go under carpet.



View of DB-25 cable located on front passenger side, under trim, heading upward toward headliner. Note: power cable will go through firewall towards battery.



View of DB-25 cable, under headliner, heading toward control head.

## Final Assembly

Attach the front camera to the camera mount and attach the camera cable to the control box. Also, attach the control cable, interface cable and LED cable to the control box. Securing the cables out of sight in the headliner, mount the control box to the back plate using the 2 screws that were previously removed. Secure vault to base plate and lock in place. Verify cables are properly routed and are not pinched or in a bind.



View of camera being attached to windshield mount. Note: cable of camera goes upwards into headliner.



View of DB-25, interface, LED, camera and power cables being connected to control head.



View of control head being mounted with wires already attached to connections

Reinstall previously removed panel, trim, seats and other hardware. Reconnect car battery cables.

## Power up the system

After completing the installation assembly, turn on the volume/monitor control switch. If the light on the POWER does not turn on, check all the system connections and fuse in the power cable near the car battery. If the "POWER" light is illuminated on the control console, the system can be turned on by using one of the following methods:

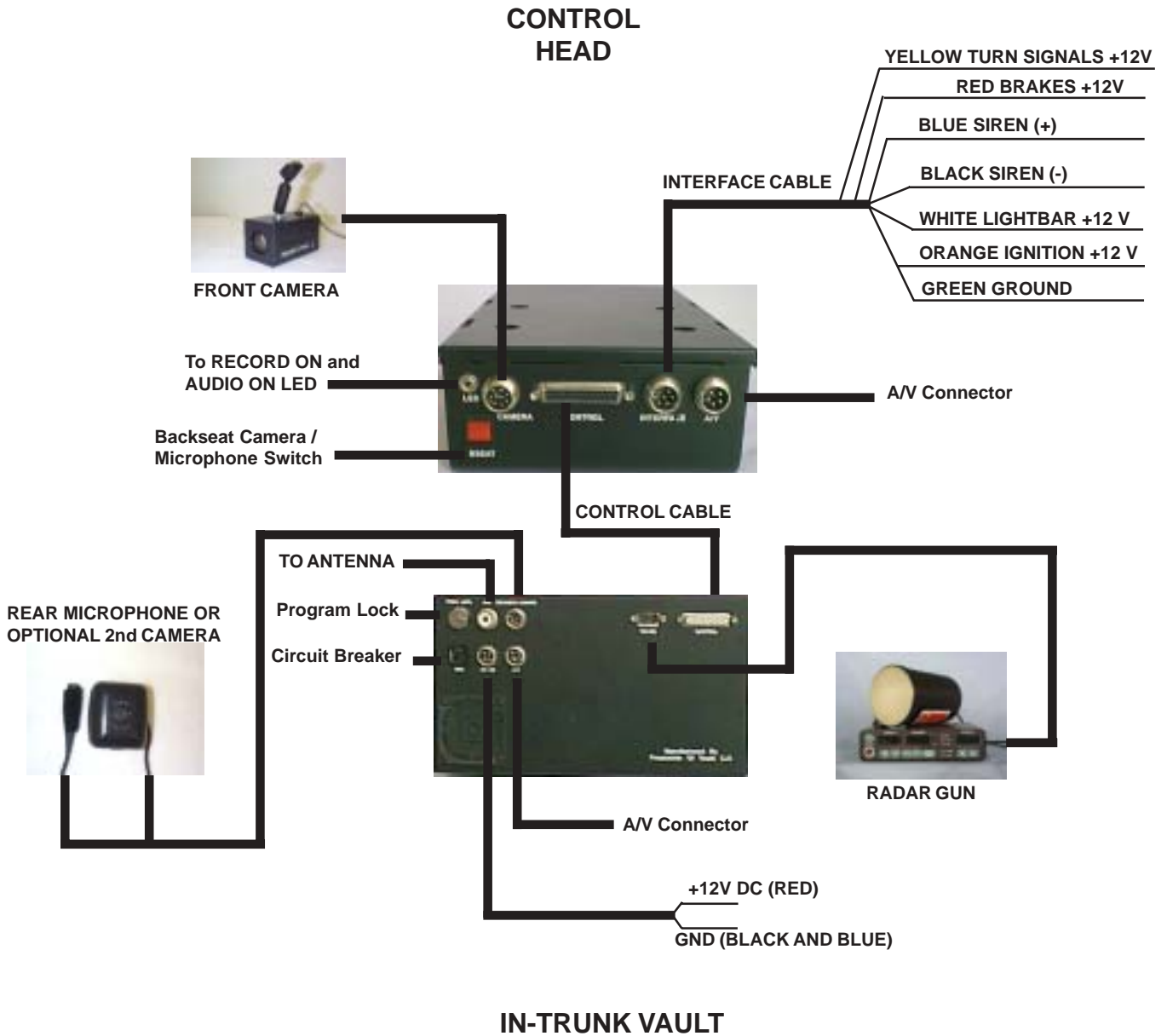
Control console activation - Press the "POWER" button on the control console.

Microphone activation - Place the remote microphone transmitter power switch in the "ON" position. The green LED will illuminate on the microphone transmitter and the system will be powered up.

The audio receiver powers up automatically when the power cable is connected to the battery and the control cable is connected to the control console.



# Connections



# Basic Operations

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## POWER UP THE SYSTEM

Complete the installation of the “In-Trunk System” as describe in the previous section. Turn On the volume/monitor control switch. If the light on the Power does not turn on, check all the system connections. If Light on the POWER is on, then you can turn on the system using one of the following methods:

### 1. From Control Head:

Press the “POWER” button on the control head and it will turn “ON” the system

### 2. Microphone Activation:

Place the Microphone/Transmitter power switch in the “ON” position, the green LED will come on the Microphone/Transmitter and the system will automatically turn on.

### 3.Light Bar Activation:

If you have connected the white wire to the light bar then activation of the light bar will automatically power up the system and go immediately into the RECORD mode.

### 4. Back Seat Microphone / Camera

When the back seat microphone or camera is switched on, the VCR will power up automatically go into the record mode. You will see the “AUD” indicator in the video along with AUDIO ON and RECORD on the control head. When you turn this switch off the system will remain powered up.

If the system is already powered up then either of the following actions will trigger the system to RECORD:

#### 1. Siren Activation:

If you have connected the blue and black wires to the siren, the system will automatically go into the RECORD mode when the siren is activated if the system is previously powered up.

#### 2. Brakes and/or Turn Signal Activation;

If you have connected either or both the yellow wire to the Turn Signals and the red wire to the Brakes then upon activation of these functions will display the message in the video. They are programmable to automatically activate the system to RECORD but the default programming is this function is OFF.

## VHF Wireless Microphone

The VHF audio receiver powers up automatically when the power cable connects to the battery and the control cable connects with the control head.

### Note

*The wireless receiver consumes 140 mA of current. We recommend disconnection of the Control cable from the Control head if the vehicle is not used for more than a week.*

## Optional 900Mhz Wireless Microphone

The 900Mhz audio receiver powers up automatically when the power cable connects to the battery. See precautions above. Since the receiver is also the charger base it can pull up to 330ma while the transmitter is charging. Upon complete charge the battery draw will drop back to 140mA nominal. This transmitter has two methods of activation;

1) The transmitter in the “OFF” position is set for automatic activation. Whenever the VCR goes into the RECORD mode the transmitter is automatically turned on along with a faint beep of the transmitter for the duration of the recording. It can not be turned off by the user. Upon exit of the record mode the transmitter will automatically be turned off again.

2) With the Microphone/Transmitter power switch in the “ON” position, the green LED on the base station will come on along with a faint beep of the transmitter and the system will automatically turn on and record audio and video. When this switch is turned off the unit will also exit the record mode after any programmable dwell time is timed out.

### Note

Inside the battery compartment of the transmitter is a master on/off switch. If the transmitter is not used for more than two days this should be turned off so as not to deplete the battery.

## INSERT CASSETTE

First power up the system, then insert the tape into the cassette opening until the VCR pulls the cassette in.

### Note

*Do not force the tape in to the mechanism as this will damage the VCR. If the input voltage is less than 12 VDC or if the system power is OFF, then VCR will not accept the cassette*

# Basic Operations

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## START RECORDING

You can start recording by either pressing the control head's "RECORD" button or pressing the record buttons on the IR remote control. When the VCR is in the Record mode the light on the VCR's RECORD button will be ON. You can also program the VCR to power up in the Record mode.

### Note

See the Record Setting under the programming for more details.

## STOP RECORDING

Press the "STOP" button on the control head or press the "STOP" button on the IR Remote control to terminate the recording.

### Note

When using the optional 900Mhz Wireless System there is a maximum of 10 second delay from pressing "STOP" to when the VCR stops actually recording and/or the "AUDIO ON" and "RECORD" indicators are turned off. The double beep of pressing the "STOP" button will be the indicator the command has been received and the STOP function has been initiated.

## EJECTING THE TAPE

First unlock the vault door and gain access to the VCR. Press the "Stop/Eject" button on the VCR once to stop the recording and press it again to "Eject" the cassette. When the cassette approaches the end of the tape, a "LOW TAPE" light will illuminate on the control head. When the end of the tape is reached, the control head will begin "beeping", and the "OUT TAPE" light will illuminate on the control head. You can press the "STOP" button from the control head, or use the IR Remote Control, or eject the cassette from the VCR to stop the beeping. You must remove the tape from the VCR and install a new one to reset all the above warnings. A "CASS OUT" message will appear on the LCD display acknowledging that the Cassette is out of the VCR.

## AUTO POWER DOWN

The Prosecutor System has an automatic power down feature in case the user turns off and exits the vehicle and does not manually power down the system. The Prosecutor System will automatically turn off after one hour if no manual buttons or any automatic function is initiated within in this time frame. This will allow the system to be used with the vehicle off if the user desires, but if the user forgets to turn it off, it will automatically shutdown to conserve battery power after one hour.

## CAMERA

The video camera mounted in the windshield can be manually moved at any time to gain a better view of the target scene. Upon Zooming in the camera to get a license plate view or other reason, the camera will autofocus for 1 second and then go to the focus locked mode. This allows a constant in focus image of the target view even if things move in the view. However the user can manually focus the camera with the "Near" and "Far" buttons on the control head. When the camera is zoomed out again the camera will again auto focus for one second and then go to the locked mode.

## COVERT MODE

The Prosecutor system can work in the covert mode which means it is still recording and operating but looks like it is switched off. On the left side of the control head is the volume/monitor on/off control. To enter the covert mode rotate the volume to the lowest level unit you feel the switch engage. All lights to the keypad and the LCD monitors will be turned off. Warning: If you press any button on the control head the beep will be audible.

## LED Indicator Cable

The external LED cable from the control head has two LEDs. The Red LED signifies the VCR is in the Record mode and the green LED signifies the Audio is on and working. This is a visual indication from outside the vehicle that the system is recording properly for the user to view conveniently.

# Basic Operations

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## A/V Interface

The A/V Interface connector allows the external audio/video input or output on either the control head or vault. The vault connector is usually used for the 900Mhz External Wireless audio but can be used for other purposes. This option is not standard and needs to be installed at the factory. The installed plug is a dummy.

## Backseat Microphone and Camera

The backseat microphone and/or camera is connected to the vault. The standard configuration is with backseat microphone only. Therefore you must connect this cable to the vault or when you select the backseat switch you will not see video from the front camera. When selected you enable the backseat microphone but are still recording the wireless microphone. Make sure the volume control on the control head is turned down or you will hear feedback when selecting this option.

## COMMON QUESTIONS

1) **The unit operates erratically** -- Check the "Program Lock" in the rear of the vault and make sure the program lock is ON.

2) **I get no picture on the monitor** -- Make sure the backseat microphone connector is installed on the vault. The reason for this is that if no back seat camera is installed the video has to be looped through this connector via a jumper. If the connector is not installed then no video will pass from the front camera to the monitor.

3) **The car battery is being drained** - The Prosecutor System pulls 140mA from the car battery constantly. Therefore in about 1-2 weeks this will drain the battery if the vehicle is not used. If the vehicle is not being used for extended periods of time, disconnect the power to the battery via the yellow fuse holder on the power cable. You might also install a cut off switch on the power switch for convenience. Verify the "ignition" wire is connected properly. The ignition must be connected to the switched 12VDC side of the ignition. The Prosecutor System enables the climate control system whenever the ignition is on. Therefore if wired incorrectly and the temperature gets too cold or too hot the heater or fan will come on and deplete the battery rapidly.

4) **No Power to Control Head** -- Check the fuse on the power cable in the yellow case close to the battery. Also check the circuit breaker on the rear of the vault. If either are blown, verify the connection of the power cable to the vault and make sure the detent is correct for if this reversed will blow either or both. Verify the control cable is tight on both the vault and the control head.

5) **Low Voltage** - Verify the installation is directly to the battery terminals and not using an auxillary fuse panel or other location. If an old installation check the power connection for might have gotten corroded and needs cleaning.

6) **VCR eating tapes** -- Verify you are using quality tapes with low friction coefficient for maximum VCR life. Cheap tapes drag and cause problems. Lack of cleaning the VCR in 6 months intervals will cause excessive dirt build up and cause tape problems or complete VCR failure... clean regularly. If a tape was attempted to be inserted without the power on and forced in the VCR, most likely the loading mechanism is damaged and needs replacement. This is a non-warranty repair.

7) **Bad Recording or Playback** -- Usually this means the VCR heads need cleaning. Return the VCR to the factory for complete cleaning and alignment. Properly maintained VCRs can last up to 5 years, however, if not maintained then will need to be replaced sooner.

# Programming

In this section we discuss some of the powerful programming features of the Prosecutor VCR system. The programming mode can only be accessed by using the IR remote control. The following table shows some of the IR Remote button functions used in the programming mode.

## Things to Note:

- “STOP”- Press and hold the remote control’s “STOP” button for 5 seconds to access the main menu
- “F.F.” - Press this button to enter or exit any selection
- “+” - Press this button to move the cursor up
- “-” - Press this button to move the cursor down

## ACCESSING MAIN MENU

To access the on-screen programming, press the “STOP” button of the remote control for about 5 seconds. If you get the “Programming is Locked” message then you must first unlock the programming key lock on the rear of the vault. The following programming menu will be appear on the monitor of the control head.

**User Password**  
00000000

If you have never changed the factory default password then just press “STOP” again on the IR remote. The following Main Menu will appear.

If you have previously selected a password other than the default you will need to enter in that password now.

## Main Menu

Set Time/Date  
Mode and Password  
Record Settings  
Display Settings  
Camera Settings  
Interface Selection  
Master Reset  
Exit

## SET TIME & DATE

An Internal clock generates the time and date that is superimposed on the LCD display. After the clock is set, the date and time modes are displayed on the monitor screen (live picture).

## T/D Display

- 1 Under the “T/D Display” menu place the cursor in front of T/D display and press the “F.F” button of the remote control.
- 2 Press the “+” or “-” button to select “ON” or “OFF”.
- 3 Press the “F.F.” button again to make your selection.
- 4 To exit out of the T/D Display, place cursor in front of “Exit” and press the “F.F.” button.
- 5 Exit out of all of the menus to activate your selection.

## Time / Date

T/D Display	ON
Time Format	12 Hour
Date Format	MM/DD/YY
Daylight Saving	DISABLED
Set Time/Date	
Reset Time/Date	
Exit	

## Selecting Time Format

- 1 Place the cursor in front of “Time Format” and press the “F.F” button.
- 2 The cursor will start blinking.
- 3 Now push the “+” or “-” button to select either the “12” or “24” time display modes.
- 4 After selecting the desired mode press the “F.F.” button.
- 5 Exit all of the menus to activate your selection.

# Programming

## Date Format

- 1 Place the cursor in front of "Date Format" and press the "F.F." button.
- 2 The cursor will start blinking.
- 3 Chose the format from the selection yy/mm/dd or mm/dd/yy or dd/mm/yy by pressing either the "+" or "-" button.
- 4 Exit of all the menus to activate your selection.

## Set Time / Date

- 1 Place the cursor in front of the "Set Time/Date" and press the "F.F." button.
- 2 The "Set Time/Date" window will pop up on the screen as shown in the figure below.



- 3 By pressing the "+" or "-" button you can change the Time or Date.
- 4 Press the "REW" and "F.F." button to move the cursor either left or right side.
- 5 After setting the Time and/or Date press the "STOP" button.
- 6 Exit all of the menus to activate your selection.

## Reset Time Date

- 1 Select "Reset Time/Date".
- 3 Press the "F.F." button.
- 4 It will reset the time and date to the factory default settings.
- 5 Exit all of the menus to activate your selection.

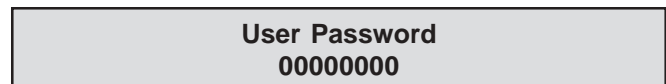
## Mode and Password

This menu is the administration menu that only authorized persons should enter. It allows you to change the basic configuration of the Prosecutor System operational mode from hot climates to normal climates. Do not change the operational mode of the system without consulting the factory for the unit is specially configured at the factory for either of these operational modes. Also this menu allows access to change the user password and the administrator passwords. Make sure you write down the passwords for future reference so you do not forget. All passwords are case sensitive.



Change User Password  
Change Admin Password  
Climate Setting Normal  
Battery Protection Mode  
Exit

- 1 Place the cursor in front of "Change User Password" using the "+" or "-" button.
- 2 Press the "F.F." button and the following menu will pop up on the screen.



- 1 Enter the current password. If you have never previously entered a password press "STOP"
- 2 Press "FF" button selects next position
- 3 Use the "tracking up or down" button to sequence through the available numbers or letters.
- 4 Press "STOP" when you have entered the entire password correctly (case sensitive).

After entering the current password the following will display.

# Programming

## New User Password 00000000

- 1 Enter the new password.
- 2 Press “FF” button to select the next position
- 3 Use the “tracking up or down” button to sequence through the available numbers or letters.
- 4 Press “STOP” when you have entered the entire password correctly (case sensitive).

After entering the new password the following will be displayed.

## Confirm Password 00000000

- 1 Enter the new password again by the same method above.
- 2 Press “STOP” when you have entered the entire password correctly (case sensitive). You will return back to the Mode and Password Menu.

## Administrator Password

To change the Administrator Password select “Change Admin Password” from the Mode and Password menu. Follow the steps similar to changing the User password.

## Climate Setting

- 1 Place the cursor in front of “Climate Setting” using the “+” or “-” button.
- 2 Press the “F.F.” button, and you will note a blinking cursor in front of the selection.
- 3 Use the “+” or “-” to toggle the selection from “Normal” to “Hot”
- 4 Press the “F.F.” button and you will return to the selection mode to return to the main menu select Exit and press “F.F”

**WARNING: DO NOT CHANGE THE CLIMATE SETTING WITHOUT CONSULTING THE FACTORY.**

The climate setting changes the function of the climate control of the vault. In “**Normal**” mode the heater is connected and turns on when the vault is too cold. When the climate control is set for “**Hot**” the heater circuit is connected to cooling units and turns on when the unit is too hot. Therefore changing this setting without the proper hardware installed will cause serious damage to the Prosecutor electronics in the vault.

## Battery Protection Mode

**Record Time Out Manual, 10 – 180 min**  
**No Record Time Out Manual, 10-180 min**  
**Cimate Control Manual/Auto**

These new features allow the user to program how long the system remains powered up after the vehicle ignition is turned off, thus protecting the battery from draining. The climate control also allows the user to select when the climate control is active. When manual the system has to be turned on manually for the climate control to operate. In the Auto mode, after ignition is turned on the unit automatically goes into the climate control mode.

## Record Time Out Manual, 10-180 min.

This first mode sets the time before turning off the system after the ignition is turned off while the system remains in the record mode. If programmed for “Manual”, this leaves the system on indefinitely until the user presses the “Power” button manually. If you select a time from 10 minutes to 180 minutes, the unit will remain powered up for this programmable time and then turn off even though the unit was left in the record mode.

This is useful for departments that continuously record from the moment the vehicle is started to the time the shift ends. If the officer turns off the ignition and exits the vehicle and forgets to turn off the system, the system will automatically turn off and not drain the battery.

## No Record Time Out Manual, 10-180 min.

This second mode sets the time before turning off the system after the ignition is turned off while the system is powered up. In this mode if no functions on the system are operated this starts the time out. If programmed for “Manual”, this leaves the system on indefinitely until the user presses the “Power” button manually. If you select a time from 10 minutes to 180 minutes, the unit will remain powered up for this programmable time after the last function is pressed by the user.

This is useful for departments that leave the system on continuously but not always in the record mode, or have an event during the day from the powered down mode and the system remains in the powered up mode. If the officer turns off the ignition and exits the vehicle and forgets to turn off the system, the system will automatically turn off and not drain the battery.

# Programming

## Climate Control

The climate control allows the user to select when the climate control is active. When “**Manual**” the system has to be turned on manually via the power button or LTS/Audio activation from “**Off**” mode for the climate control to operate. In the “**Auto**” mode, after ignition is turned on the unit automatically goes into the “**Climate Control**” mode. When in the “**Auto**” mode the unit will show all keypad lights on and the LCD display a dull blue illumination. If the unit is activated or powered up the unit will turn on to the fully operational mode.

## RECORD SETTINGS

Access the sub menu of “**Record Settings**” by placing the cursor next to “**Record Settings**” and press the “F.F.” button. The following sub menu will appear:

Recording Setting	
Recycle Rec	OFF
Rec-Over Protect	OFF
Power-Up Record	OFF
Alarm Rec Dwell	30 min
Tape/Speed	E180/LP
Exit	

### Recycle Record

If you turn on this feature, at the end of the tape the VCR will automatically rewind the tape and record over previously recorded information.

### Record Over Protect

If you turn on this feature, the VCR will NOT record over previous recorded information. Instead it will search the tape to find the end of the recording and begin the new recording there.

**Note:** To use this feature you must insert a new or properly erased blank tape **ONLY**. Reviewing of any tape when this mode is selected will later cause a delay to “start recording” depending on how far from the last recording the tape is currently positioned. Therefore when using this feature it is recommended **that the tape not be reviewed** during any operational shift.

## Power-Up Record

If you turn on this feature, the VCR will begin recording as soon as the VCR is powered up.

**Note:** A tape must be in the VCR to begin “Power-Up Rec”.

The default for these 3 settings (Recycle Record, Record-over Protect and Power-Up Record) is “OFF”. To change any or all settings to “ON”, place the cursor beside the item, press the “F.F.” button, and the cursor will start blinking. Press the “-” or “+” button to switch between ON or OFF. Make your choice and press “F.F.” to save the selection and return to the sub-menu.

## Alarm Record Dwell

Alarm Dwell’s default setting is 30 minutes; the settings available are: 0, 1, 2, 5, 10, 15, 20, and 30 minutes. The setting you choose will be the minimum recording time after the Alarm Record Signal goes from high to low, or active to inactive. To change the default settings of Alarm Record Dwell, place the cursor in front of Alarm Rec Dwell under the Record settings menu and press the “F.F.” button. Use the “+” or “-” key to select the required time. After making the selection press the “F.F.” button and it will return you to the Record Settings sub-menu.

## Tape/Speed

The default setting for this feature is T120/EP in NTSC mode and T180/SP in the PAL mode. Consult the following table for correct mode of recording. An EP setting will triple the number of minutes of recording time, i.e. 3 x a 120 or 160 min. tape. An SP setting enables the exact number of minutes of recording time, as stated on the tape (usually labeled T120 or T160).

When you are finished with the sub-menu, move the cursor to EXIT and press the “F.F.” button to return to the main menu.

Type	Recording Mode	System	Recording Time
T120	SP	NTSC	2 hrs
T120	EP	NTSC	6 hrs
T160	SP	NTSC	3 hrs
T160	EP	NTSC	8 hrs
T180	EP	NTSC	9 hrs
E180	SP	PAL	3 hrs
E180	LP	PAL	6 hrs
E240	SP	PAL	4 hrs
E240	LP	PAL	8 hrs



# Programming

## DISPLAY SETTINGS

The VCR adds alphanumeric information to the video signal from the camera and sends it to the VCR for recording or to the monitor to display. The display settings let you select the position, the gray scale and the format of the text. Following are the options in display settings.

- 1 From the remote control press the "STOP" button for 5 seconds, the main menu will pop up on the screen.
- 2 Under the main menu move the cursor in front of "Display Setting" and press the "F.F." button.
- 3 The "Display Setting" menu will pop up on the screen as shown in the figure below.

Display Setting	
Display Format	Bottom
Horizontal Position	
Vertical Position	
Gray Scale / Background	
Titler	
Messages	
Time Remaining	ON
Next Page	
Exit	

Display Setting	
Previous Page	
VCR Status	ON
Input Voltage	ON
Temperature	F
Flash Display	OFF
Exit	

### Display Format

The Display Format displays alphanumeric information either on the top or bottom of the screen. To set the display use the following instructions.

- 1 Place the cursor in front of "Display Format" using the "+" or "-" button.
- 2 To select a display format press the "F.F." button.
- 3 Choose either "Top" or "Bottom" using the "+" or "-" button.
- 4 Press the "F.F." button to choose your selection.
- 5 Exit all of the menus to activate your selection.

### Horizontal Position

Horizontal position sets the alphanumeric text position horizontally. Follow the steps below to set the Horizontal position.

- 1 Under the display setting menu place your cursor in front of "Horizontal Position".
- 2 Press the "F.F." button to select the horizontal position.
- 3 A small box will pop up on the screen.
- 4 Press the "+" or "-" button to select the appropriate position.
- 5 After selecting the position press the "F.F." button
- 6 Exit all of the menus to activate your selection.

### Vertical Position

Vertical position sets the alphanumeric text position vertically. If the Display Format is set on "Top" then the vertical position lets you choose the position from the top of the screen to the middle of the screen. If the display format is set to the bottom then the vertical position can be moved from the middle of the screen to the bottom of the screen. Follow the steps below to set the vertical position.

- 1 Place the cursor in front of "Vertical Position".
- 2 Press the "F.F." button to select "Vertical Position".
- 3 A small box will pop up on the screen.
- 4 Press the "+" or "-" button to select the appropriate vertical position.
- 5 After selecting the position press the "F.F." button.
- 6 Exit all of the menus to activate your selection.

# Programming

## Gray Scale / Background

Gray Scale / Background color sets the gray scale and background color of the alphanumeric text on the display. Follow the procedure below to set the gray scale or background color.

- 1 Place the cursor in front of "Gray Scale / Background Color".
- 2 Press the "F.F." button to select "Gray Scale / Background Color".
- 3 A small box will pop up on the screen.
- 4 Press the "+" or "-" button to select the appropriate gray scale or background color and press the "F.F." button.
- 5 Exit all of the menus to activate your selection.

## Titler

You can program up to a 20 character title on the screen. Follow the procedure below to program the title on the screen. The default title is "PROSECUTOR".

- 1 Press the "STOP" button of the remote control to access the main menu.
- 2 Place the cursor in front of the title using the "+" or "-" button then press the "F.F." button.
- 3 Use the "+" or "-" button to select an alphanumeric character.
- 4 Use the "F.F." button to enter next character or use the "REW" button to edit a previously entered character.
- 5 You can enter up to 20 characters in a title.
- 6 After entering the title press the "STOP" button to exit out of the title editing mode.
- 7 Exit all of the menus to activate your selection.

### Things to Know

"-" button moves the alphabet in ascending order and numerics in descending order.

"+" button moves the alphabet in descending order and the numerics in ascending order.

"F.F." button moves the cursor toward the right position.

"REW" back space

"STOP" Exits out of the editing mode.

## Messages

The trunk system has two message inputs, each message can display up to 6 characters. These messages are activated on the LCD display when the Prosecutor VCR system gets a signal from the interface cable (if siren, lights, brakes or turn signals are on). See the Installation section for the connections (pin-outs) of the interface cable. By default the "SRN" message appears on the screen when the siren is on. Similarly, the "LTS" message appears on the screen when the lights are turned on. The message "Record" comes on when an input is received (lights or sirens) by the VCR and the VCR begins recording.

- 1 Enter the main menu programming mode.
- 2 Place the cursor in front of "Message" using the "+" or "-" button.
- 3 Press the "F.F." button, and the menu will pop up on the screen.

### Message Menu

Set Message  
Set Message Record  
Exit

- 1 Place the cursor in front of "Set Message" using the "+" or "-" button.
- 2 Press the "F.F." button, and the following menu will pop up on the screen.

### Set Message

Message 1  
Message 2  
Message 3  
Message 4  
Message 5  
Exit

# Programming

---

- 1 Place the cursor in front of the message that you want to change and press the "F.F." button.
- 2 A blinking cursor will appear on the screen.
- 3 Enter the letter or numeric character using the "+" or "-" buttons.
- 4 After entering the first letter, press the "F.F." button to move the cursor to the next place.
- 5 Again use the "+" or "-" button to select the next letter.
- 6 Repeat steps 3 to 5 until you enter the complete title.
- 7 After entering the title press the "Stop" button, it will return you to the "Set Message" menu.
- 8 Enter all the remaining messages the same way.
- 9 Select "Exit" to return to the Message Menu.

## Set Message Record

- 1 Place the cursor in front of "Set Message Record" using the "+" or "-" button.
- 2 Press the "F.F." button, and the following menu will pop up on the screen.

<b>Set message record</b>
---------------------------

Message 1	ON
Message 2	ON
Message 3	ON
Message 4	OFF
Message 5	OFF
Exit	

- 1 Place the cursor in front of the message that you want to change and press the "F.F." button.
- 2 A blinking cursor will appear on the screen.
- 3 Using the "+" or "-" buttons toggle between ON or OFF.
- 4 After selection press the "F.F." button.
- 5 Again use the "+" or "-" button to select the next Message to program.
- 6 Repeat steps 1 to 5 until you entered all messages.
- 7 Select Exit to return to the Message Menu.
8. Select Exit again to return to the Main Menu.

## Time Remaining

The time remaining displays the time left to record. To turn on Time Remaining, follow the instructions below.

- 1 Under "Display Setting", place the cursor in front of Tape Counter.
- 2 Press the "F.F." button to select "Tape Counter".
- 3 Press the "+" or "-" button to turn the VCR Status either "ON" or "OFF".
- 4 After making the selection press the "F.F." button.
- 5 Exit all of the menus to activate the selection.

## VCR Status

VCR Status displays all the VCR operating modes on the screen. Follow the procedure below to turn the VCR Status On/Off.

- 1 Under "Display Setting" place the cursor in front of VCR Status.
- 2 Press the "F.F." button to select "VCR Status".
- 3 Press the "+" or "-" button to turn VCR Status either "ON" or "OFF".
- 4 After making the selection press the "F.F." button again.
- 5 Exit all of the menus to activate the selection.

## Input Voltage

The VCR can display the input voltage on the screen. You can turn off or on the voltage message from the display settings. A "LOW VOLTAGE" message will start flashing on the screen if the input voltage is less than 9V. If the voltage is less than 9V and the cassette is out then a "CASS OUT" message will start flashing on the screen. The VCR will not accept a tape if the input voltage is less than 9V. Follow the steps below to turn the voltage display on or off.

- 1 Under the main menu place the cursor in front of Display Setting and press the "F.F." button.
- 2 Now place the cursor in front of "Input Voltage" and press the "F.F." button.
- 3 Press the "+" or "-" button to select "ON" or "OFF".
- 4 Exit all of the menus to activate your selection.

## Temperature

A built in temperature sensor tracks the internal temperature of the VCR and vault . You can view the internal temperature by enabling the temperature display in the display setting menu. If the temperature goes higher than 90 F (32 C) then the fan is turned on. If the temperature goes lower than 40 F (4 C) then the heater is turned on. If the temperature goes lower than 32 F (0 C) then the VCR will be turned off. The display can either be in fahrenheit (F) or celcius (C). Follow the steps to enable the temperature display on the screen.

- 1 Under the main menu place the cursor in front of "Display Settings" and press the "F.F." button.
- 2 Place the cursor in front of "Temperature" and press the "F.F" button.
- 3 Press the "+" or "-" button to select "F", "C" or "OFF".
- 4 Exit all of the menus to activate your selection.

## Flash Display

This feature flashes the entire on-screen display every second. This allows the user to view the scene behind the on-screen data unobscured. This is useful with content-rich viewing where there is no dead viewing area of the picture to place the on-screen data.

1. Under the main menu place the cursor in front of "Flash Display" and press the "F.F." button.
2. Press the "+" or "-" button to select "ON" or "OFF".
4. Exit all of the menus to activate your selection.

## CAMERA SETTINGS

This menu item allows the system to program all setups of the camera and setup and enable the auto zoom function.

### Camera Settings

**Auto Zoom Mode** On/Off  
**Camera Setup**  
**Exit**

## Auto Zoom Mode

After you have done the following programming the auto zoom function will be initiated by pressing the "Zoom In" button on the keypad. Upon pressing and releasing you will hear one beep of the keypad and the camera will zoom in automatically and after the preset time will zoom back to the original starting position.

You may at any time cancel the Auto Zoom mode by briefly pressing the "Zoom Out" button. You will hear a beep and the camera will zoom back to the original setting immediately.

You may also focus near or far at any time during the Auto Zoom mode so a clear image can be obtained. This feature is mainly used for recording a clear view of the license plate of a vehicle. Both vehicles must be stationary for the camera to auto focus correctly on the license plate. The same is true for when the camera times out. Therefore this feature should only be used if the vehicle is stationary.

The Auto Zoom mode must be set to "ON" for this function to operate and to enter to Auto Zoom Setup.

### Auto Zoom Mode

<b>Auto Zoom</b>	<b>ON</b>
<b>Preset time</b>	<b>1,2,3,4,5,6,7,8,9,10</b> <b>15,20,25,30,45 secs, 1-10 min</b>

### Auto Zoom Setup Exit

When you enter to Auto Zoom Setup the key of the remote control are define as follows.

**FFW** : Zoom In  
**REW** : Zoom Out  
**+** : Focus Far  
**-** : Focus Near  
**STOP** : Save and Exit

When you enter the auto zoom setup mode you must only use the remote control to zoom the camera in or out to the preset zoom in position. You can manually focus if you choose by using the respective buttons on the remote. **DO NOT USE THE KEYPAD FOR ANY CAMERA FUNCTION WHILE IN THIS PROGRAMMING MODE.**After you have selected the desired zoom and focus position, press "Stop" to save and exit.

The preset time selects how long the camera remains zoomed in before automatically zooming out to the last manually zoomed position.

## Camera Setup

The "Camera Setup" menu can program all the camera setups and functions. Place the cursor in front of "Camera Setup" and press "FF". Following menu will appear on the monitor. The "FF", the "Trk Up/Down" will be used as normal to change the selected items. The "Stop" button can be used at any time to save and exit this menu. The following menu is the factory defaults along with all user programming selections.

### Menu 1

Initial set	OFF
Black light off	ON
Color	ON
Negative	OFF
Focus	PUSH AUTO
Flickerless	OFF
WBC mode	AUTO

### Menu 2

Camera ID	OFF
Sharpness	10
Brightness	43
Zoom start	X1
Zoom end	X128
Focus from	1 CM
AE mode	AUTO

## INTERFACE SELECTION

The Interface Selection sub menu displays the choices of the types of external devices that will interface to the Prosecutor System. This includes radar guns, laser speed guns, GPS, Alcohol Meters, Laptops, Data Radios, Driver license card reader, Accelerometers and any RS-232 compatible device. This menu also lets you set the baud rate between the interface and the external device. The following menu will appear if you select the "Interface Selection" from the main menu.

### Interface Selection

Enable Interface	OFF
Select Radar Gun	
Select Laser Gun	
Select GPS	
Select Alcohol Meter	
Set Baud Rate	
Exit	

- 1 Under the Interface Selection menu above place the cursor in front of the desired selection line by using the "+" and "-" buttons and press the "F.F" button to select that programming line.
- 2 Press the "+" or "-" button to select the desired sub menu programming line.
- 3 When you have located the make and model of the interface you desire press "F.F" to select and the menu will automatically exit back to the main Interface Selection menu above.
- 4 Select Exit to go back to the Main Menu.

To enable or disable the Interface completely select the first line, Enable interface via the "F.F" button and use the "+" and "-" buttons to toggle ON or OFF.

### Select Radar Gun

The following are the Radar Guns currently available to interface directly with the Prosecutor System. If you do not see the desired unit on this list please contact the factory for it is updated continuously.

Decatur Genesys I and II  
Decatur Hunter  
Generic  
Kustom  
MPH Python  
Municipal TS-4  
RG2RS  
Stalker Dual SL  
Next Page  
Exit

### Select Radar Gun

Previous Page  
Stalker Dual SL  
Targetron Rapid Fire  
Tribar Muni Quip  
Exit

# Programming

## NOTE Generic

This accepts any RS-232 data and displays it on the monitor. This can be from a computer, data radio, laptop, or other device with RS-232 communications. The DB-9 Connector uses Pin 2 for RXD (Receiving Data) and Pin 5 which is ground.

## Laser Guns

LTI 20.20  
Laser Atlanta

## GPS

NEMA 0183 LAT/LONG  
NEMA 0183 LAT/LONG/SPD/KPH  
NEMA 0183 LAT/LONG/SPD/MPH

## Alcohol Meter

AlcolMeter SD-400P  
Intoxilyzer 400

## RG2RS

This is a special radar gun interface, which, when installed with the Prosecutor System, will enable the following radar guns to connect to the VCR: The RG2RS must be purchased separately and is not included with the Prosecutor System. The following are the Radar Guns supported by the RG2RS.

ACM STALKER  
Decatur HUNTER, GENESYS 1 & II  
KUSTOM KR-10SP, TROOPER  
MPH K-55  
TARGETRON RAPID FIRE PLUS

## Card Reader

The card reader selection allows single, dual and 3 track magnetic card readers to be connected to the RS-232 input. The raw data from the magnetic card like drivers license, access control cards, etc, will be read and displayed on the video screen. Card readers that have RS-232 output can connect directly, but for ones that do not or if you want to tap the data of an existing card reader in other equipment, contact Prosecutor for the additional interface card required.

## BAUD RATE

Here you select the correct baud rate for your Radar gun. The choices available are: 1200, 2400, 4800, & 9600.

## MASTER RESET

Master Reset, resets all the programming to factory default settings. Follow the steps below to do a Master Reset.

- 1 Under the main menu place the cursor in front of " Master Reset".
- 2 Press the "F.F." button to choose the selection.
- 3 The master reset menu will pop up on the screen.
- 4 Use the "+" or "-" buttons to place the cursor in front of " Do Master Reset"
- 5 Press the "F.F." button to perform a master reset on the Prosecutor VCR system.
- 6 A copyright menu will pop up on the screen notifying you that the Prosecutor VCR system has been reset.

**Warning: If you do a Master reset this will clear all settings and exit the programming mode.**

# Warranty Information

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## PROSECUTOR OF TEXAS TERMS & CONDITIONS OF SALE AND LIMITED WARRANTY

In consideration of PROSECUTOR OF TEXAS ("Seller") selling its products to Buyer, and for all sales by Seller, unless specifically agreed in writing by Seller, the following Terms & Conditions shall exclusively apply to all such sales, regardless of any other documents, prior agreements, or prior course of dealing:

1. Acceptance. The acceptance of all offers by Seller is expressly limited to the terms herein AND ANY ADDITIONAL OR DIFFERENT TERMS SUGGESTED BY BUYER OR PRINTED ON BUYER'S OWN TERMS AND CONDITIONS ARE HEREBY REJECTED UNLESS EXPRESSLY ASSENTED TO IN WRITING BY SELLER.

2. Shipment and Deliveries.

(a) Unless otherwise specifically agreed to in writing, Seller does not guarantee a particular date for shipment or delivery of the goods quoted. Shipment and delivery dates quoted are estimates of approximate dates.

(b) Unless otherwise specified, all shipments and deliveries shall be F.O.B. Seller's warehouse dock in Humble, Texas. Upon shipment request, Seller shall only assume expenses and risks of placing the goods quoted into the possession of the carrier, making contracts for the transportation of such goods as may be reasonable under the existing circumstances at time of shipment, giving notification to Buyer of shipment and delivering or tendering in due form any document necessary to obtain possession of the goods.

**ANY LOSSES, DAMAGES OR CLAIMS ARISING OUT OF THE ACTS OR OMISSIONS OF THE CARRIER SHALL BE THE RESPONSIBILITY OF THE BUYER.**

(c) If partial shipments are contemplated pursuant to the order, Seller shall have the right to deliver any portion of the equipment or material ordered and to bill Buyer therefor. Buyer agrees to pay for the same in accordance with the terms of payment herein.

3. Assignment. This Agreement is not assignable without written consent of Seller and any attempted assignment without such consent shall be void.

4. Excusable Delays. Seller shall be excused from and under no circumstances shall be liable for any loss of damage caused by, included but not limited to, delay in performance, or failure to fill any order or orders due to fire, strikes, labor matters, governmental regulations, acts of the elements, transportation, failure to receive materials or causes of a like or different nature reasonably beyond its control in the reasonable conduct of its business.

5. Returns. Returns of standard stocking items with no restocking fee can only be made within thirty (30) days of invoice to Buyer. All such returns must be in unopened original packaging. Any other returns must have prior written consent of Seller and restocking fee of not less than fifty percent (50%) will apply.

6. Changes or Cancellation. Order may be changed or canceled by Buyer only with the consent of Seller and upon payment of equitable adjustment charge or cancellation charges. Such charges shall take into account costs and expenses thereto incurred, purchase or contract commitments made by the Seller and all other losses due to such modifications or cancellations including a reasonable profit.

7. Limited Warranty. The only warranty to Buyer is the one printed on the warranty certificate included with the product, except as otherwise provided in any written agreement signed by Seller.

a) SELLER'S PRINTED PRODUCT WARRANTY. For 90 days from the date of shipment, Seller will pay for parts and labor; and Seller will for a period of one (1) year from date of shipment pay for parts only. Seller warrants to Buyer that the equipment and materials quoted is free from defects in material or workmanship **UNDER NORMAL USE AND SERVICE**. If a printed product warranty certificate is supplied with the equipment and such certificate specifies a warranty period of a longer duration, said warranty certificate shall control the length of the warranty period. If said warranty certificate contains other terms and conditions which either conflict with or

are additional to the provisions of these terms, terms which are additional shall be incorporated by reference herein and terms which are in conflict with any provision contained herein shall have no force or effect.

b) **PERMISSIBLE VARIATIONS, STANDARDS AND TOLERANCES.** Except in the particulars specified by Buyer and expressly agreed to in writing by Seller, all material and equipment shall be produced in accordance with Seller's standard practices. All equipment and material, including that produced to meet an exact specification, shall be subject to tolerances and variations consistent with usages of the trade and within practical and reasonable factory inspection methods. Equipment or materials which are rated or certified by independent rating or certifying trade associations or organizations and bear their respective symbols or sales, shall signify only that such equipment was produced to meet such standard within the permissible variations and tolerances, such equipment or material will meet the safety, ratings or capacity requirements to which the symbol or seal applies under laboratory testing procedures specified by said associations or organizations as distinguished from field testing. Seller makes no certification as to installed performances of the equipment or material other than as heretofore set forth.

**WITHIN THE AFOREMENTIONED LIMITATIONS SELLER EXPRESSLY DISCLAIMS AND EXCLUDES ANY IMPLIED WARRANTY AS TO CORRECTNESS OF ANY STANDARDS OR RATINGS WHICH ARE INCONSISTENT WITH THE AFORESTATED FACTS AND RESTRICTIONS.**

c) **WARRANTIES EXCLUDED. SELLER EXPRESSLY DISCLAIMS AND EXCLUDES ANY EXPRESS OR IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEEDS OR IS INCONSISTENT WITH THE WARRANTY HEREIN EXPRESSLY SET FORTH.**

d) Equipment manufactured or supplied by others (manufacturers other than Seller) but furnished by Seller hereunder carries the same warranty to Buyer as Seller receives from the other manufacturer.

e) **NOTWITHSTANDING ANY PROVISION TO THE CONTRARY,** should Buyer specify that Seller supply a particular manufacturer's product which is not the brand standardly supplied by Seller, Buyer shall look only to the other manufacturer's warranty and Seller shall not warrant such item. Buyer shall obtain only the warranty which comes with such other manufacturer's product.

f) **EXCLUSIONS:** Seller's warranty does not cover the following.

- (1) in transit damage claims, improper handling by carrier or post office (NOTE - only the consignee of the shipment can file a claim with the common Carrier);
- (2) damages caused by incorrect use, modification, carelessness, unauthorized alterations, improper storage or unauthorized service, installation or repairs;
- (3) damages caused by fire, flood, lightning, collision, acts of God or other events beyond the control of Seller.
- (4) products or parts thereof that have had serial numbers removed, altered or defaced;
- (5) products received for repair without a RMA number and a sales or delivery receipt showing the date of original purchase;
- (6) hostile operating conditions;
- (7) use of components that do not meet Seller's specifications;
- (8) damage or failure caused by or resulting from the operation of the product with incorrect voltage;
- (9) external parts such as cabinets or keypads;
- (10) periodic maintenance and adjustments resulting from normal use such as video head cleaning, etc.; and
- (11) damage resulting from using cleaning cassettes.

g) In the event Buyer makes a warranty claim and Seller's warranty does not apply, Buyer shall reimburse Seller for all reasonable expenses incurred by Seller in diagnosing the installation/repair problem. Seller shall not be responsible for any damages to the Product or other property due to installation or service by a party not authorized by Seller.

8. **Buyer's Exclusive Remedies.** If the Product to be supplied to Buyer shall fail to conform to this contract or any applicable express or implied warranty, Buyer shall immediately notify Seller of such condition and afford Seller a reasonable opportunity to inspect said Product. Seller shall, at its option, either repair or replace such nonconforming Product. Seller shall not be responsible for labor charges for removal or installation of such equipment or material or charges for transportation, handling and shipping except as provided in Seller's written service



policy. No Product shall be returned without Seller's consent.

**SELLER SHALL NOT BE LIABLE FOR ANY SPECIAL, DIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF A COMMERCIAL NATURE ARISING OUT THE USE OF OR INABILITY TO USE SELLER'S PRODUCT BY REASON OF THE FACT THAT SUCH PRODUCT DOES NOT CONFORM TO THE CONTRACT OR TO ANY EXPRESS OR IMPLIED WARRANTY. SELLER'S MAXIMUM LIABILITY SHALL BE LIMITED TO THE COST OF REPAIR AND/OR REPLACEMENT OF THE PRODUCT CLAIMED TO BE DEFECTIVE OR NONCONFORMING SUBJECT TO SELLER'S RIGHT OF REMOVAL AND RETURN OF PRODUCT.**

All of the foregoing shall constitute Buyer's **sole and exclusive remedy** and Seller's **sole and exclusive liability** for supplying nonconforming or defective Product.

9. Credit Approval. Shipments and deliveries of Product shall at all times be subject to the approval of Seller's Credit Department. If Buyer shall fail to make any payments in accordance with the terms and provisions of this agreement, Seller, in addition to its other rights and remedies, but not in limitation thereof, may, at its option, decline to make shipments or deliveries hereunder except upon receipt of payment or satisfactory security or upon such terms and conditions satisfactory to Seller.

10. Terms of Payment. Payment terms for goods shipped hereunder will be net thirty (30) days from the date of invoice. Seller reserves the right to add to any account outstanding for more than thirty (30) days and Buyer agrees to pay a service charge of 1-1/2% of the principal amount due at the end of each month or the maximum allowable legal interest rate, if a lesser amount.

11. Creation of a Lien. In the event that 'the purchase price is not paid when due and credit is extended to the Buyer, then in consideration therefor Buyer grants to Seller a security interest in the Product and said security interest shall extend to all parts or accessories now or hereafter attached to the Product and the proceeds therefrom.

12. Taxes. Prices quoted by Seller do not include any existing or future sales, use or similar taxes which are or may be levied upon the sale, delivery or service of the Product by federal, state or other governmental authorities. Such taxes shall be for the account of the Buyer who shall promptly pay the amount thereof to the Seller on or before the time when such tax or taxes are payable by Seller to applicable taxing authority or authorities. If the sale is tax exempt, Buyer shall provide Seller with a proper tax exemption certificate upon acceptance of order or in any event, prior to shipment of Product. Should any question as to applicability of such taxes to any sales later arise, Buyer shall fully cooperate in resolving such question and pay any such taxes then determined to be owing.

13. Waiver. Seller's failure at any time to require performance by Buyer of any provision of these terms and conditions shall not be deemed a waiver of future compliance therewith and shall not affect the right of the Seller to require compliance therewith at any time thereafter.

14. Indemnity. Buyer agrees to save and indemnify and keep harmless Seller against all liability, claims, demands or judgment for damages arising from accidents to persons or property occasioned by Buyer, his agents, or employees, and will defend any and all suits and will reimburse and indemnify Seller for all expenditures or expenses including court costs and counsel fees made or incurred by Seller by reason of such accident.

15. Unauthorized Representations. Buyer agrees that it is not Seller's agent, assign or authorized dealer. All performance claims, additional warranty periods, or other representations made to third party purchasers shall not be binding on Seller and shall be the sole responsibility of the Buyer. Buyer shall indemnify Seller for any and all damages incurred by Seller due to any unauthorized representations.

16. Time For Claims. **ANY CLAIM(S) BY BUYER ARISING FROM THE PERFORMANCE OR NONPERFORMANCE BY SELLER MUST BE BROUGHT WITHIN ONE (1) YEAR FROM THE DATE SUCH CLAIM AROSE.**

17. Applicable Law. All sales shall be governed and construed under the laws of the State of Texas. Should any part of this agreement, for any reason be declared invalid, such decision shall not affect the validity of the remaining portion, which will remain in force and effect as if this agreement had been executed with the invalid portion eliminated.

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