



# Digital Video Recording and Playback System

## Owner's Manual

# NOTICES

## NOTICE OF INTENDED USE

**Rosen Entertainment Systems are designed to enable viewing of video ONLY for rear-seat occupants, and are not intended for viewing by the driver when used in an automobile. Such use might distract the driver or interfere with the driver's safe operation of the vehicle, and thus result in serious injury or death. Such use might also violate state or local laws.**

**Rosen Entertainment Systems disclaims any liability for any bodily injury or property damage that might result from any improper or unintended use.**

## About the Registered Marks

*This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized. Reverse engineering or disassembly is prohibited.*

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## INTRODUCTION

Congratulations on your purchase of a Rosen Entertainment Systems Digital Video Recording and Playback System (DVR)!

Here's a list of some things you can do with your system:

- Record DVD movies manually or automatically from your in-vehicle T10/T12 DVD all-in-one overhead system.
- Record movies or broadcast television from your home television with one-button simplicity.
- Record movies, audio, or photographs from your computer.
- Play media that you have recorded from your T10/T12 system or available audio/video sources.
- Manage all your recorded files with the included dock and remote control or on your personal computer.

**Note:** *This product enables the recording of various types of media. Please be sure to understand any copyright laws which may prohibit copying of certain copyrighted media. Always protect copyrighted media and the Entertainment Industry by adhering to all legal requirements.*

*Your system includes the following components:*

- One 20 GB Digital Video Recorder
- One in-home docking station
- One remote control
- Interface cables and power supply

*Supported Playback File Formats:*

- Video DivX, MPG, MPEG, AVI, VOB, VCD, SVCD
- Photo JPEG
- Audio MP3, WMA, Audio CD (CD-A)

### *PC Requirements*

- Microsoft Windows 2000, XP Home, XP Pro,
- Intel Pentium II 300MHz or more
- RAM: 128MB or more
- Interface: (2) USB ports (1.1 / 2.0)

### *TV Requirements*

- Available Secondary AV Composite (red, yellow, white RCA jacks) Input

### *Source Requirements*

- Available Secondary AV Composite (red, yellow, white RCA jacks) Output

### *General DVR Operation*

The DVR can be operated in three different modes:

- First, it can be run as a stand-alone digital video recorder in the home using the included home docking station and remote control.
- Second, it can be docked in a T10/T12 all-in-one overhead system and used to record video content from the T10/T12 internal DVD player or playback recorded media.
- Third, it can be attached to a PC via the supplied USB cable to load, playback, manage recorded video content or transfer video, MP3/WMA, CD-A, or JPEG files.

## GETTING STARTED in the Car

Use the system with the vehicle's engine running or with the ignition key switch in the accessory (ACC) position. 

Make certain that the remote and the headphones have their batteries properly installed.

### To Lower the Screen and Switch On the System:

Be sure the ignition key is in the "ON" or "ACC" position. Press the ENTER button on the front panel or the POWER button on the remote. The screen will open and the system will turn on.



### To Open the DVR Door and Install the DVR:

Slide the DVR latch to the left to release the door. Place the DVR inside the door slot with the Rosen logo facing downward and the connection jack pointing upward towards the unit. Slide the DVR into the door slot, making sure that it is flush with the bottom of the door and centered. Slide the DVR carefully, until it connects to the jack. Close the DVR door. **If seated properly, the door should have no problem closing flush to the underside of the T10/T12. If the door does not easily close or is not flush, carefully re-seat the DVR and try again.**



*DO NOT force the DVR door closed!*



DVR Menu Screen:



### To Watch a DVR Video:

1. Press SOURCE on the remote control or the control panel module (CPM) on the T10/T12 until "DVR" is displayed.
2. Use the UP/DOWN/LEFT/RIGHT navigation arrow buttons to select the "VIDEO" icon and press ENTER.
3. Use the UP/DOWN navigation arrows to select a video file for playback. Press PLAY.



## GETTING STARTED at Home

Connect the output of a video source to the AV Input jacks of the DVR home docking station. Connect the AV Output jacks for the DVR dock to an available source on your TV.

Insert the DVR into the DVR home docking station.

Connect the supplied 110v power cord to the DC 12v input on the back of the home docking station and to a wall outlet.

Press the POWER button on the dock. Turn on the TV and select the source (on the TV) to which the DVR dock is connected.



### To Watch a DVR Video:

1. Select the source on the TV until the DVR menu screen appears.
2. Use the UP/DOWN/LEFT/RIGHT navigation arrow buttons to select the "VIDEO" icon and press ENTER.
3. Use the UP/DOWN navigation arrow buttons to select a video file for playback. Press PLAY.

## DVR IN THE HOME DOCKING STATION

### Connecting the DVR home docking station to your TV and video source:

The DVR *does not have* a built-in TV tuner. Instead it makes use of the tuner built into your TV. To record programming, you must connect the DVR to your TV. Connect the docking station's "AV IN" audio/video jacks to a composite audio/video source output on your TV using the supplied video cables. In this document, we will refer to the video source as your TV, but you can actually connect to a wide number of NTSC composite video sources, including the ones listed below:

1. Digital Cable or Satellite Receiver
2. VCR
3. Camcorder
4. DVD Player
5. TV output \*
6. Home AV Receiver
7. Any other device with composite audio/video output

**\* Note:** *If you use your TV's output as the input to the DVR dock you will NOT be able to view the DVR content. This connection is purely used for recording purposes.*

To allow viewing of video content from the DVR, you must also connect the docking station's "AV OUT" audio/video jacks using the supplied RCA cables to one of the available source inputs of your TV. If your TV does not support composite audio inputs, you can use a composite audio/video to coaxial converter that can be purchased at most local electronics stores.

## INSTALLING AND REMOVING THE DVR FROM THE HOME DOCKING STATION

### • Installing the DVR

Align the DVR inside the dock slot as shown in the picture with the DVR connector pointing downward.

Gently push down on the DVR until it clicks and is fully seated in the docking station.



### • Removing the DVR

**You must first power OFF the unit.** This will ensure the DVR has completed writing any necessary file data.

Press and hold the RELEASE button, and pull the DVR directly up to release the unit.



**DO NOT** pull the DVR out of the docking station without using the release button!

**Note:** The DVR has a status indicator light and failure to wait for the red light to turn green or to allow all lights to turn off may result in file corruption. Generally, corrupted files are not recoverable and must be deleted using a computer in the file management mode!

## RECORDING WITH THE DVR IN THE HOME DOCKING STATION

Press the POWER button on the dock or remote control to turn the DVR on. Set your TV to the input source where the DVR dock is connected. Use the UP/DOWN/LEFT/RIGHT arrow keys to navigate the DVR's menus and ENTER to confirm a selection or enable some action.

A new folder named REC\_00x is created under the "my\_video" root folder every time a recording is performed in the dock. This will allow for ease of file location as well as continuous playback of consecutive files. When recording is stopped by the user or a timed recording completes, the folder is closed to all new recordings. While recording, it is possible to create "chapters" or "bookmarks" by way of the INDEX button on the remote or dock. This creates multiple video files which can be played back continuously by highlighting the folder and pressing PLAY. During folder playback, the NEXT or BACK command will jump to the "indexed" file.

**Note:** During all modes of DVR recording, all source originated on-screen information (for example: subtitles, DVD chapter timing information, etc.) will be recorded along with the content.

## DVR DOCK CONTROL PANEL BUTTONS



- 1. Power
- 2. Play/Pause
- 3. Stop
- 4. Dial Pad

- 5. Record
- 6. Fn (Index)
- 7. Menu

### 1 Power

Press this button to turn the DVR on. The power LED backlight on the dock should change from red to blue when the system comes on. Press and hold the POWER button for 2 seconds to shut the system off. Wait until the DVR powers down completely before removing it.



*Premature removal of the DVR prior to proper shut-down may damage the hard disc drive and/or the file being recorded or played back.*


### 2 Play/Pause

Press this button to pause video, audio, or slideshow playback. Press the PLAY/PAUSE button again to resume playback.

### 3 Stop

Press this button to stop and exit video, audio, or slideshow playback. The STOP button is also used to exit out of a menu.

### 4 Dial Pad

Use the dial pad to navigate the user menus when in menu mode, fast forward and rewind video, or select previous and next files for video, audio, and photo. Use the ENTER  button to confirm an action or file selection.





## 5 Record (REC)

Use this button to start and toggle between the available recording options. The first press will begin recording in “Continuous” mode indicated by all three of the 30, 60, and 90 LEDs being lit. A second press will change it to 30 minute timed recording with only the 30 LED lit. A third press will change it to 60 minute timed recording with only the 60 LED lit. A fourth press will change it to 90 minute timed recording with only the 90 LED lit. A fifth press will resume recording back to “Continuous” mode. Subsequent presses will go through the same cycle. At all times recording will continue and not be stopped. Every press will update the timer for the timed recording. Pressing of this button will not stop recording. Only the STOP button on the dock or the red STOP button on the remote control can interrupt recording.

## 6 Fn (Index)

This button performs two different functions when in the record mode and non-record mode. In the record mode, it closes the file being recorded and starts a new one. This enables the user to quickly index the recording to later recall the segment by playing the particular file created by this function. In the non-record mode it switches from file navigation to file function. In the FILE MANAGER menu it will bring up function options to copy, delete, cut, paste, and rename files. In the VIDEO and MUSIC menus, if a file is highlighted, it will bring up function options to set the repeat and random playback modes. During photo slideshow playback it will bring up the menu options to change the slideshow settings.

## 7 Menu

This button will bring up the main root menu.

## USING THE DVR REMOTE CONTROL

You can use the remote control to operate the system and access the features not available on the front panel. For definitions of the remote control's specific button functions, please see pages 13-14.

- |                              |                          |
|------------------------------|--------------------------|
| 1. Power                     | 15. Navigate Right       |
| 2. Pause                     | 16. Setup                |
| 3. Stop                      | 17. Files                |
| 4. Play                      | 18. Navigate Down        |
| 5. Previous Video/Audio File | 19. Photo Folder         |
| 6. Fast Reverse              | 20. Information          |
| 7. Fast Forward              | 21. Record               |
| 8. Next Video/Audio File     | 22. Stop Recording       |
| 9. Video                     | 23. Index                |
| 10. Navigate Up              | 24. Fn (File Navigation) |
| 11. Music                    |                          |
| 12. Menu                     |                          |
| 13. Navigate Left            |                          |
| 14. Enter                    |                          |



## DVR REMOTE CONTROL BUTTON FUNCTIONS

### 1 Power

Press this button to turn the DVR on. The power LED backlight on the dock should change from red to blue when the system comes on. Press the POWER button to shut the system off. Wait until the DVR powers down completely before removing it.



*Premature removal of the DVR prior to proper shut-down may damage the hard disc drive and/or the file being recorded or played back.*

### 2 Pause

Press this button to pause video, audio, or slideshow playback.

### 3 Stop

Press this button to stop and exit video, audio, or slideshow playback. The STOP button is also used to exit out of a menu.

### 4 Play

Press this button to start video or audio playback of a single file or all of the files in a folder. Press the PLAY button to start a slideshow or view a photo.

### 5 Previous

Use this button to play the previous video, audio file or display the last photo.

### 8 Next

Use this button to play the next video, audio file or display the next photo.

### 6 Fast Reverse

Use this button to rewind video playback.

### 7 Fast Forward

Use this button to forward video playback.

### 9 Video

Use this button to directly bring up the VIDEO menu.

### 10 Navigate Up

Press to navigate up a file or photo thumbnail menu or to navigate counter-clockwise on the main menu icons.

### 18 Navigate Down

Press to navigate down a file or photo thumbnail menu or to navigate clockwise on the main menu icons.

### 11 Music

Use this button to directly bring up the MUSIC menu.

### 13, 15 Left/Right Navigation Arrows

Press to move left or right in a menu.

## 12 Menu

This button will directly bring up the main root menu.

**Note:** This button does not work during file record or playback.

## 14 Enter

Use this to confirm an action or selected file.

## 16 Setup

This button will directly bring up the SETTINGS menu.

## 17 Files

This button will directly bring up the FILE MANAGER menu.

## 19 Photo

This button will directly bring up the PHOTO menu.

## 20 Information

This button will display the timing and file information of a video being played back. It will also turn off the file and timing information during recording.

## 22 Stop (Recording)

Use this button to interrupt recording. It only works when recording is in progress.

## 23 Index

Use this button to interrupt recordings by closing the file being recorded and starting a new one. This enables the user to quickly index the recording to later recall the segment by playing the particular file created by this function.

## 21 Record

Use this button to start and toggle between the available recording options. The first press will begin recording in “Continuous” mode indicated by all three of the 30, 60, and 90 LEDs being lit. A second press will change it to 30 minute timed recording with only the 30 LED lit. A third press will change it to 60 minute timed recording with only the 60 LED lit. A fourth press will change it to 90 minute timed recording with only the 90 LED lit. A fifth press will resume recording back to “Continuous” mode. Subsequent presses will go through the same cycle. At all times recording will continue and not be stopped. Every press will update the timer for the timed recording. Pressing of this button will not stop recording. Only the STOP button on the dock or the red STOP button on the remote control can interrupt recording.

## 24 Fn (File Navigation)

Use this button to switch from file navigation to file function. In the FILE MANAGER menu, it will bring up function options to copy, delete, cut, paste, and rename files. In the VIDEO and MUSIC menus, if a file is highlighted, it will bring up function options to set the repeat and random playback modes. During photo slideshow playback it will bring up the menu options to change the slideshow settings.



## DVR IN THE PC

- **Connecting the DVR to a PC**

The DVR can be connected to the PC using the supplied USB cable. Two USB ports are required in order to supply sufficient power to the DVR's hard drive as well as enable a communication link between the DVR and the PC. The DVR will appear as a hard disk drive on a PC. Your PC's operating system should auto detect and install the necessary drivers to support the DVR as an external hard disk drive.

- **Copying and Retrieving Content to and from the DVR**

Video files, JPEG images, and audio files can be dragged and dropped to their appropriate folders in the DVR. The same can be done for extracting content off the DVR onto your local PC. Video files that are transferred to the DVR must be placed in the "my\_video" folder. Music files must be placed in the "my\_music" folder. Image files must be placed in the "my\_photo" folder.



*The main folder names "my\_video," "my\_music," and "my\_photo" should not be renamed or changed. Doing so will prevent you from viewing any content in these folders when the DVR is plugged into the dock or the T10/T12 system.*



*File types not placed in the proper folder will not appear in the folder and cannot be played.*

The creation of sub-folders under the three main folders ("my\_photo," "my\_video" and "my\_music") is allowed and can be supported by the DVR. The sub-folders that are created during a record session can also be renamed.

### **The following files are supported for DVR playback:**

#### Video Files:

*.vob	*.mpg	*.mpeg	*.avi
*.vcd	*.svcd	*.DivX	

#### Music Files:

*.cda	*.mp3	*.wma
-------	-------	-------

#### Photo Files:

*.jpg	*.jpeg
-------	--------

Please refer to page 21 for typical connection examples.

## USING THE T10/T12 REMOTE CONTROL

You can use the remote control to operate the system and access to features not available on the front panel. The unit has two infrared sensors to receive signals from the remote. One is built into the control panel and the other faces forward in the vehicle, for use from the front seats. For definitions of the remote control's specific button functions, please refer to the T10/T12 Owner's Manual.

- |                                    |                          |
|------------------------------------|--------------------------|
| 1. Open/Optional Source Unit Power | 15. System Menu          |
| 2. Pause                           | 16. Zoom                 |
| 3. Stop                            | 17. Navigate Left        |
| 4. Play                            | 18. Enter                |
| 5. Previous Chapter/Track          | 19. Navigate Right       |
| 6. Fast Reverse                    | 20. Display              |
| 7. Fast Forward                    | 21. Setup                |
| 8. Next Chapter/Track              | 22. Navigate Down        |
| 9. Speaker Sound Control           | 23. Disc Menu            |
| 10. RES Enhanced Sound             | 24. Day/Night Brightness |
| 11. Mute                           | 25. Dome Light On/Off    |
| 12. Eject                          | 26. Output B             |
| 13. Source                         |                          |
| 14. Navigate Up                    |                          |

The remote control button titles that are lightened indicate that the button performs no function on the DVR.



The DVR can be used to record video from the internal DVD player of a Rosen T10/T12 overhead all-in-one system. It can also be used to playback recorded video, video transferred from a PC, music, and picture files.

## INSTALLING THE DVR

Open the screen of the T10/T12 overhead system to reveal the DVR door. Slide the DVR latch to the left to release the door. Place the DVR inside the door slot with the Rosen logo facing downward and the connection jack pointing upward towards the unit. Slide the DVR into the door slot, making sure that it is flush with the bottom of the door and centered. Slide the DVR carefully, until it connects to the jack. Close the DVR door. **If seated properly, the door should have no problem closing flush to the underside of the T10/T12. If the door does not easily close or is not flush, carefully re-seat the DVR and try again.**

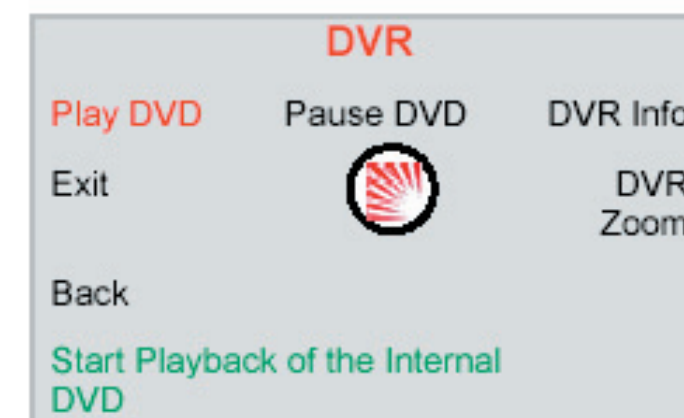
## SELECTING AND USING THE DVR

Press the SOURCE button on the remote control or the Control Panel Module (CPM) until the DVR main screen appears with the “DVR” on screen display (OSD) appearing in the upper left hand corner of the screen. Using the UP/DOWN/LEFT/RIGHT/ENTER keys navigate the DVR menu and select and enable the available features for recording and playback. ENTER will enter a menu or submenu, while STOP on the remote, or EJECT on the CPM will return you to the previous menu or submenu.

## ROSEN USER INTERFACE (RUI) MENU

The DVR source is supported by the Rosen User Interface (RUI). To bring up the RUI for the DVR, while in the DVR source, press the SYSTEM MENU button on the remote, highlight the “SourceCtrl” option and press ENTER. The DVR’s RUI can be used to play and pause the internal DVD for manual recording purposes, toggle the display of record and playback information, and toggle the available zoom modes.

RUI as it appears on the screen:



## DVR MANUAL RECORDING

Manual recording to the DVR is only allowed for recording and archiving of DVDs which you own. There are three available quality modes for recording as well as four different record durations.

The three quality modes are BEST, BETTER, and GOOD. Depending on the output file format set by the DVD player, the available hard drive space for video recording will vary.

The default recording format in the T10/T12 overhead system is 16:9 widescreen.

For dock recording in the home, the format is set by your source input device.

Source output format is 16:9 Widescreen.

	Minutes Per GB *	Total Hours per DVR **	Full Length Movies ***
BEST	30	10	6
BETTER	60	20	12
GOOD	120	40	25

\* May be lower if source output is 4:3 Pan Scan or Letterbox

\*\* Actual formatted capacity may vary.

\*\*\* Based on an average of 90 minutes per movie.

### The four record durations are:

Continuous: Records until a STOP or EJECT command is sent or the DVR runs out of hard disk drive space.

30 Minute: Records for 30 minutes and stops automatically.

60 Minute: Records for 60 minutes and stops automatically.

90 Minute: Records for 90 minutes and stops automatically.

Load a DVD and begin playback. At the point where you wish to begin recording, change source to the DVR.

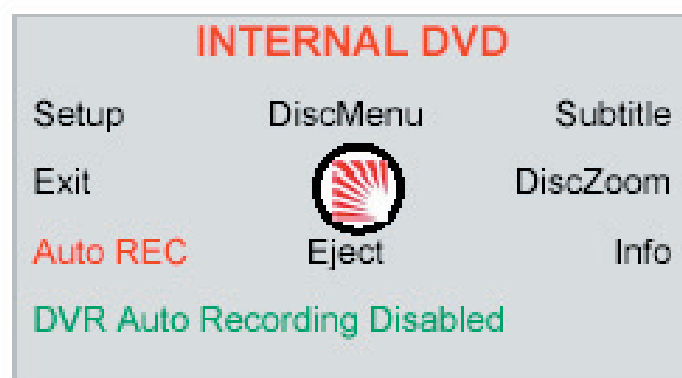
### For Dual Zone Systems, T10/T12:

If the system is setup for DUAL ZONE, press PAUSE to pause playback and then change source to the DVR. In the DVR source, navigate to the "RECORDING" menu icon and press ENTER. This will bring up the recording window with selectable options at the bottom of the screen and the video image of the Internal DVD source in the background. At this point the video from the Internal DVD should be paused. Before recording, select the desired quality and duration. The DVD should be commanded to start playback before recording starts. This can be done through the DVR RUI by pressing the SYSTEM MENU button on the T10/T12 remote control or by pressing and holding the DOWN button on the CPM for 2 seconds. Navigate to the "Play DVD" option and press ENTER. Playback will begin and the menu should close. At this time, recording can be started by selecting the "RECORD" option at the bottom of the screen and pressing ENTER. Recording will be confirmed by a "REC" OSD from the DVR and a record status that indicates the recording time elapsed as well as the record quality and duration selected. To stop recording, press the STOP button on the remote or EJECT on the CPM. To pause DVD playback, bring up the RUI and select "Pause DVD." To view the recorded file, go back to the DVR main menu, navigate and select the VIDEO icon and then locate the file. Once the file is located and highlighted, press PLAY to begin video playback.



## DVR AUTO-RECORDING

Auto-recording to the DVR is only allowed for recording and archiving of DVDs which you own. There are three available quality modes for auto-recording. Auto-record allows you to record an entire DVD movie without having to monitor its progress or manually control the DVR. Auto-recording is disabled by default and to use it, you must enable it through the RUI in the “Internal DVD” source. Select “Internal DVD” and press the SYSTEM MENU button on the T10/T12 remote control or press and hold the DOWN button on the CPM for 2 seconds. Navigate to the “Auto REC” option and press ENTER repeatedly until the desired record quality is shown, then exit the menu.



Auto-recording should now be enabled and will be activated once the main movie has begun. Auto-recording will ignore all introductory screens and previews.

Insert a disc and start the movie at the DVD's root menu. Within a few seconds of the start of the main movie, the “RECORDING” OSD should begin flashing and will continue to flash every 2 seconds and the DVR status LED will flicker red.

The system will have limited function during an auto record session to prevent unwanted activity.

The following remote control functions are still available during auto-record:

1. DISPLAY mode and COLOR adjustment
2. Daytime/Night-time Brightness
3. Dome light
4. Speaker (FMT or FMM control)
5. STOP (interrupts the Auto Record session)

During an Auto-Record session if the system is turned off, recording will be interrupted and the status will be stored until the system is turned back on. When the system turns back on, the Auto-Record feature will attempt to sync as closely as possible where it left off and resume recording. However, due to the interruption and the nature of video encoding to a hard drive, a new file will be created. Therefore, interrupted Auto-Records will result in a separate video for every interruption. For example, if a 2-hour movie was interrupted 3 times during a recording session, then 3 video files will be created in a unique folder which can be easily identified and renamed to match the nature of the content. To playback the entire movie that consists of separate files, just highlight the folder and press PLAY. At the end of a recorded segment, it will automatically buffer and play the next segment.

### *Notes about Auto-Recording:*

1. Auto-recording will not activate on any movie or segment that is less than 15 minutes in length. This prevents unwanted recordings of previews and introduction screens. For recording of movies or clips less than 15 minutes in length, manual recording using the DVR source is recommended.

### Notes about Auto Recording continued:

2. Auto-recording will begin within 1 or 2 seconds after the start of the main movie segment and stop within 10 seconds of the ending of the credits.
3. Auto-recording relies on timing information coming from the movie. If for some reason the timing information is inaccurate, Auto-Record will not begin. In this case, "chapter back" will restart the Auto-Record.
4. If Auto-Record is enabled and the same movie is re-inserted into the system, Auto-Record will begin again. The system cannot detect the presence of duplicate content.
5. Auto-Record will not begin if there is not enough hard disk drive space in the DVR to cover the specified quality mode for the movie's duration. In this case, DVR Auto-Record will automatically be disabled and must be re-enabled by the user after the hard disk drive space has been freed by off-loading content to the PC.
6. Auto-Recording may not work with all DVD movies due to the variation and nature of the movies.
7. Playback of interrupted Auto-Record sessions will result in multiple video files. When played back, it will have a momentary interruption due to DVR buffering of the new content.
8. During all modes of DVR recording, all source originated on-screen information (for example: subtitles, DVD chapter timing information, etc.) will be recorded along with the content.
9. In order for Auto-Record to work properly, ensure that the DVR is in the root menu prior to enabling Auto-Record.

### Where are my Recorded Files?

Depending on the type of recording the files will end up in different places in the DVR hard disc drive. Manually recorded content will be placed in the main folder "my\_video" as "avi" files with a generically numbered file name. The file name can be changed by entering the FUNCTION mode on the DVR or through the PC. Auto-recorded videos will be placed in a sub-folder called "REC\_xxx." The folder names can also be changed to reflect their appropriate content for easier identification. "REC\_xxx" folders are created for each Auto-Record session, namely each movie that is Auto-Recorded will end up in a "REC\_xxx" folder and will contain an "avi" file for every interruption that occurred during the Auto-Record process.

### Renaming Files and Folders

At the main menu, select the FILE MANAGER icon and press ENTER. Navigate to the file or folder to be renamed and press the "Fn" button on the remote or dock. If the DVR is being used in a T10/T12 overhead system, press the SETUP button on the T10/T12 remote control.

Control will switch to the function menu. Highlight and select the "Rename" option. The control will switch to the first character of the filename starting with the letter 'A'. Use the UP and DOWN keys to select a letter from 'A' to 'Z' or a number from '0' to '9'. Between the '0' and 'Z' there is the underscore '\_' character which can be used to separate words in the filename. Depending on the output source, this may just appear as a blank space since it's at the bottom of the screen. Use the RIGHT and LEFT keys to move between character spaces. When file renaming is complete, press ENTER to save and exit renaming mode.

## TYPICAL CONNECTION: TV, DVD, PLAYER, DOCK

1. Typical connection TV, Dock and DVD



2. Typical connection DVR output to TV input



3. Typical connection DVD output to DVR input



4. DVR to PC connection

Plug the dual USB-A male ends to two available USB 1.1 or 2.0 ports on the PC

Plug the dual USB-B mini to the DVR



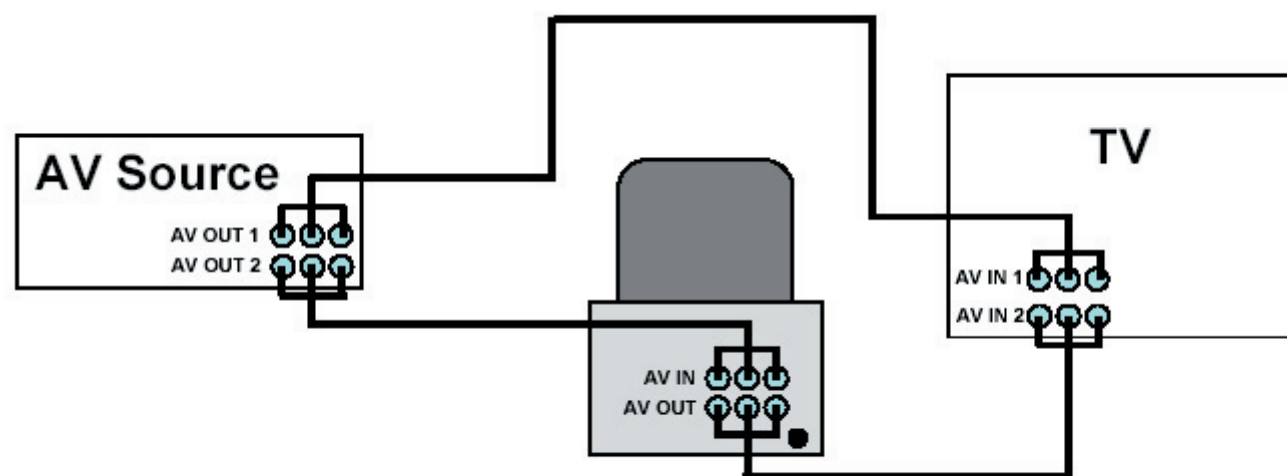


## CONNECTION DIAGRAM: SYSTEM WITH AN AV SOURCE

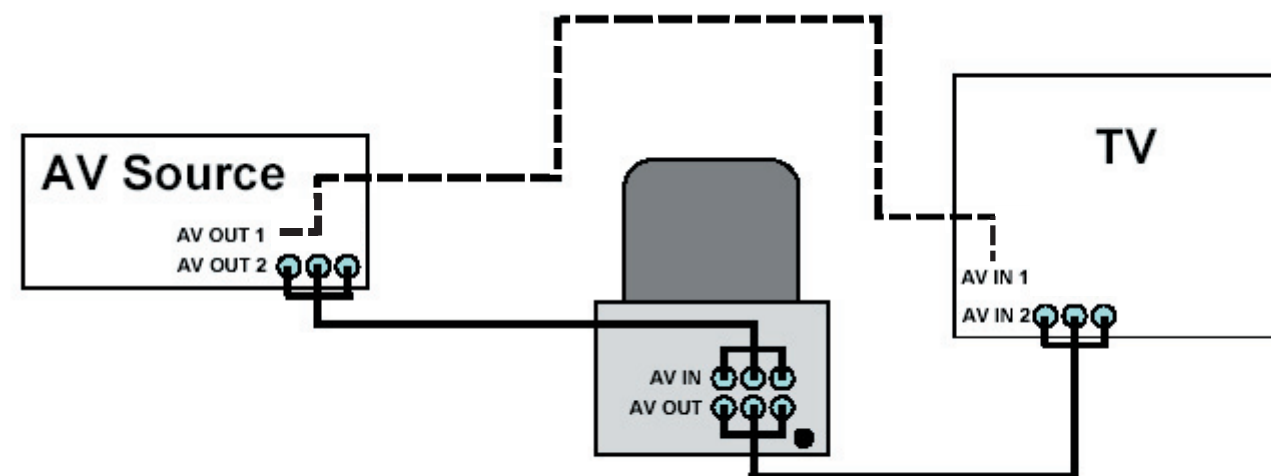
The AV Source can be any one of the following as long as it supports a minimum of two AV outputs, so that one can be routed to the DVR and one routed to the TV for non-DVR use.

- Satellite Receiver
- Cable Box
- DVD Player
- DVD Recorder
- VCR
- TiVO
- AV Receiver

### USING COMPONENT RCA CABLES:



### USING COMPOSITE S-VIDEO CABLES:

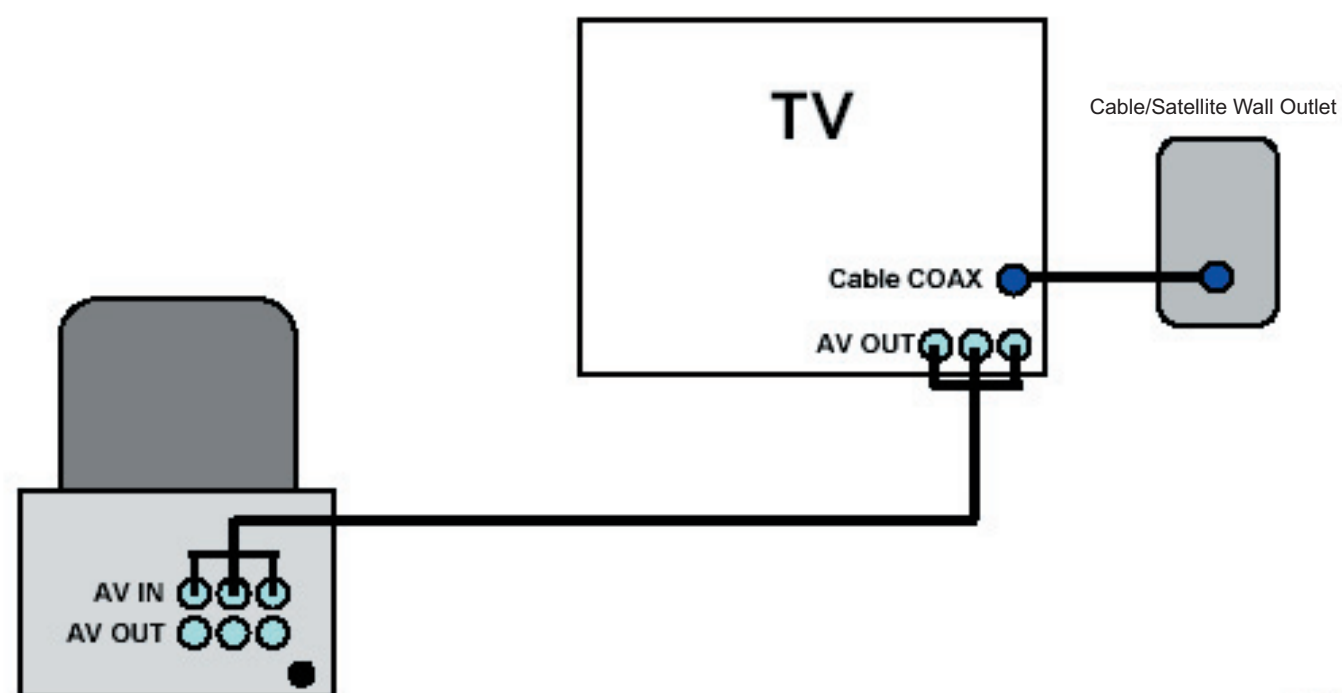




## CONNECTION DIAGRAM: SYSTEM WITHOUT AND AV SOURCE

### RECORD MODE

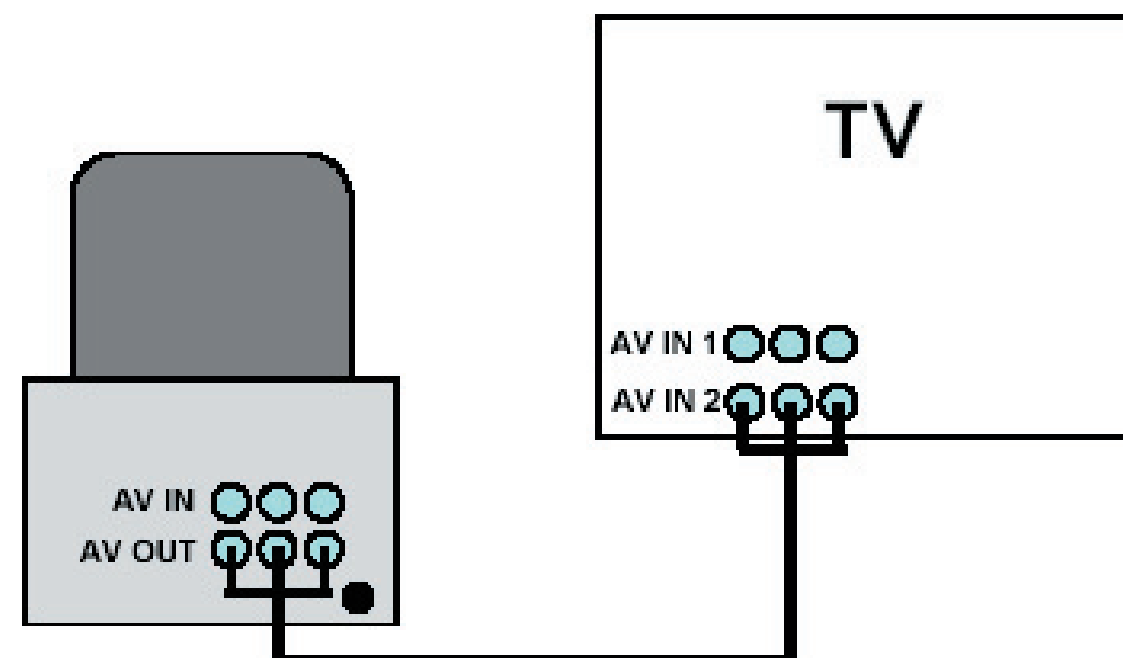
This configuration will allow for recording of any TV output, including TV broadcasts. However, the DVR menu and video playback cannot be accessed in this configuration, it is only intended for recording using the dock control panel buttons.



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### PLAYBACK MODE

This configuration will allow for playback of files recorded or loaded to the DVR. It will not enable any recording function in this configuration.



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## FAQ / TROUBLESHOOTING

**Note:** Before contacting customer support please review the following Frequently Asked Questions.

### What if my DVR has the error message “HDD Not Found?”

This message normally indicates that the DVR's processor cannot find the hard disc drive that holds all of the media, either due to damage or a temporary recognition error due to an overheating issue. Try allowing the DVR to cool down to room temperature and re-insert it into the dock or T10/T12 unit.

### What if my DVR isn't showing certain files that I uploaded in the folder menus or no files at all?

There are 3 conditions that can potentially create this difficulty:

1. The content was not properly loaded to the unit. Attempt to re-load the content and ensure proper insertion and recognition of the USB cable into your computer and that the DVR USB connection is safely removed after loading.
2. If the content is visible under the FILE MANAGER but not under any of the other folders or modes, the media that was loaded to the DVR may not be supported or is corrupted. Media folders ONLY recognize supported media files. For example the “Photo” menu would only list picture files that the DVR can display. Any non-supported files would simply be ignored, even though they are present on the DVR. The files present on the DVR can be viewed (whether they are supported by the DVR or not) by connecting the DVR to a computer via the USB cable and opening the DVR as a removable storage device. For a list of supported media files please refer to page 15 in this manual.

3. The DVR's processor cannot recognize the DVR's hard disc drive, which holds the DVR's media content. In this case please refer to the FAQ “What if my DVR has the error message ‘HDD Not Found’?” above.

### What if my DVR freezes during playback?

The DVR may experience delays or problems with playback if the media being played is unsupported or corrupted. In this case attempt to shutdown the DVR and remove it from its dock or T10/T12 unit. Re-insert the DVR into the dock or T10/T12 unit and attempt to re-start playback. If the file still experiences difficulties playing attempt to re-load this file onto the DVR, and ensure that this file is un-corrupted and fully supported. For a list of supported media types please refer to page 15 of this manual.

### What if my DVR does not playback my media files?

Unsupported or corrupted files will not play or have trouble playing back, for a list of supported media please see page 15 of this manual. Ensure that the file was uploaded to the DVR correctly from a computer. If the USB cable was damaged or if the USB was not safely removed the file may be corrupted.

### **What if my DVR does not respond to dock or T10/T12 series overhead unit commands?**

Ensure that the DVR is properly inserted into the home docking station or T10/T12. In addition, ensure that the DVR is not busy (indicator light on DVR is RED when busy). Also ensure that the DVR is not overheated, if it is allow it to cool down to room temperature. If the problem still persists check the following scenarios:

1. Home Dock ONLY: Make sure that the dock is powered on and that the connection to the dock is not damaged. If the remote commands are not properly received then ensure that the remote is pointing directly at the infrared receiver on the dock (located in front of the dock, it is a half-circle shaped piece of black translucent plastic). Also ensure that the remote has fresh batteries.
2. T10/T12 ONLY: Check that the T10/T12 is powering the DVR properly (the indicator light on the DVR should be on) and that you are in the proper source. Also ensure that the remote has fresh batteries and that the buttons you are pushing are not damaged.

### **What if my DVR only shows video in black and white?**

First ensure that the problem isn't in the monitor or television used to view the DVR content. If the DVR is overheated allow it to cool down. Also check the following scenarios:

1. Home Dock ONLY: Ensure all cables are properly plugged in and are designed for video signals. Also ensure that the DVR connection to the dock is not damaged and that the DVR is properly powered by its own power supply. Also ensure that the media file played is not corrupted and is properly supported, for a list of supported files please see page 15 of this manual.

2. T10/T12 ONLY: Ensure that the T10/T12 is set to the proper viewing source and that the DVR is properly plugged into the unit. Also ensure that the overhead unit is not damaged. Also ensure that the media file played is not corrupted and is properly supported, for a list of supported files please see page 15 of this manual.

### **What if my T10/T12 does not recognize my DVR nor power it on?**

Check that your overhead unit is properly receiving power and functioning. Also make sure that the DVR is plugged in properly. Inspect the physical connection at the end of the DVR to ensure it is clean and undamaged. Also inspect the connection of the DVR door of the T10/T12 to see that it is not jammed or damaged. Try source switching your unit several times to access the DVR screen and wait a few moments to see if the unit recognizes the DVR. Also ensure that the vehicle is properly running and supplying power to the T10/T12 (will not work if the ignition of the vehicle is OFF).

### **What if my computer does not recognize my DVR?**

Ensure that you are using the proper USB cable that came with the DVR, also ensure that both computer interface USB connections are plugged in properly and that your computer meets the minimum system requirements outlined in this manual. No additional drivers are necessary to access the DVR with the USB cable but a current, required operating system is. Check that the USB cable connection to the DVR is not damaged or jammed.

## What if my DVR does not show the output of a source I'm trying to record?

If the source that is fed into the DVR is not showing up in the Record menu of the DVR ensure that all cables are properly plugged in and that the source is playing normally.

1. Home Dock ONLY: Ensure all cables are properly plugged in and are designed for video signals. Also ensure that the DVR connection to the dock is not damaged and that the DVR is properly powered by its own power supply.

2. T10/T12 ONLY: Ensure that the T10/T12 is set to the proper viewing source and that the DVR is properly plugged into the unit. Also ensure that the overhead unit is not damaged.

## SERVICE PARTS

Part Number	Description
<b>HOME</b>	
9100527	Station, Docking – Home
9100943	Control, Remote with Battery
9100942	Transformer, Power – 115/220 to 12VDC
9100941	Cable, USB – Dual Head
9100119-50	Cable, AUX In/Out
<b>AUTO</b>	
9100938	Station, Docking – Automotive
9100119-30	Remote, IR Sensor
9100119-50	Cable, AUX In/Out
9100777	Cable, IR Remote

For other questions and capabilities please contact your authorized Rosen dealer. To locate a Rosen Entertainment Systems authorized dealer, please visit [www.rosenentertainment.com](http://www.rosenentertainment.com).





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