4.3” Rear View Mirror Monitor with Digital Video Recorder & integrated front HD camera

RVM-043DVR User Manual
Thank you for purchasing Parkmate’s **RVM-043DVR** rear view mirror monitor with digital video recorder and integrated front HD camera. This state of the art Parkmate product is packed with features including an integrated front facing dash cam that can be coupled with an optional rear facing camera.

The DVR can record both video feeds simultaneously to capture incidents and accidents both front and rear and automatically displays the rear view camera in your mirror monitor when reverse gear is selected.

This product uses the most advanced technology and components to provide you with a long service life and integrates perfectly with the factory look of your vehicle to add a high level of safety and security to your driving experience.

**Please note:** Although this product will allow you to view and record driving blind spots, it does not remove the responsibility of driving the vehicle from the driver. The legal responsibility and safe driving practice remains with the driver at all times.

You have purchased this Parkmate product with the understanding that its use is as an aid only. We highly recommend that you have this product professionally installed to ensure that it will provide the functions it is set out to perform.
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Chapter One: Product Introduction

1.1 Product Overview

Parkmate’s RVM-043DVR rear view mirror monitor with digital video recorder and integrated front HD camera is an invaluable accessory that not only acts as your eyewitness on the road, it also offers potentially life saving safety features to protect you and your family.

Parkmate’s RVM-043DVR is equipped with a 120 degree super wide angle camera and the integrated DVR can record high definition video and still images from two separate camera inputs simultaneously at 30 frames per second. The 4.3 inch screen automatically adjusts to ambient lighting conditions and is equipped with a dedicated remote control for convenient operation. Also featuring G-Sensor and Motion Detection automatically triggered recording, the RVM-043DVR is a powerful, convenient and simple to use device that will enhance your driving experience.

1.2 Package Contents

Package contents:
- 1 x 4.3” Rear-view Mirror Monitor with integrated DVR and HD camera
- 1 x DVR rear view camera connector
- 1 x Video extension cable
- 1 x Manual
- 1 x Remote Control
- 4 x Mirror Adapter Brackets

1.3 Product Features

- Factory Replacement Mirror Monitor
- 4.3” Mirror Monitor
- In-built Digital Video Recorder
- In-built HD Front Camera
- Automatic Start Up Record & Shut Down
- Time Stamped Recorded Files
- Continuous Loop Recording
- Reverse Camera Ready
- G-sensor auto file save
- Audio Recording Capable
- Bonus 8GB Micro SD card included
- Motion detection
- Single Or Dual Camera Display & Record
- Auto Dimming LCD Display

1.4 Product Specifications

<table>
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<th>Specification</th>
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<td>Image Sensor</td>
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<tr>
<td>Front Camera Image Quality</td>
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<td>Optional Rear Camera Image Quality</td>
<td>720 x 526</td>
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<td>Display Screen</td>
<td>4.3” / 16:9</td>
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<td>Memory Storage</td>
<td>Micro SD Card</td>
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<td>Focus Range</td>
<td>12m - infinite</td>
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<td>Photo Format</td>
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<td>Audio</td>
<td>Built-In Microphone &amp; Speaker</td>
</tr>
<tr>
<td>Working Temperature</td>
<td>-20°C ~ 70°C</td>
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<tr>
<td>Language</td>
<td>English, Spanish, Dutch, Chinese, Korean, Japanese, Russian</td>
</tr>
</tbody>
</table>
1.5 Introduction to Button Function

NOTE: REMOTE FUNCTIONS WILL NOT WORK WHILE IN RECORDING MODE

Rear Camera Recording Display

Front Camera Recording

Light Sensor

Indicator - Flashes when recording

Short press: on/off screen display

Long press: on/off DVR

The front camera records video and still images in front of your car.
Rotation angle: X-150, Y-360, Z-150

Bracket

Power on / off

Begin recording / stop recording / confirm

When the mirror is not recording:
press "MENU" to select.
(Does not function when recording.)

Forward / Up

When the mirror is not recording:
press "MODE" to change the mode.
(Does not function when recording.)

Back / down / change the video display

Picture in picture switch

NOTE: REMOTE FUNCTIONS WILL NOT WORK WHILE IN RECORDING MODE
1.6 Introduction to Cables

Chapter Two: Product Installation

2.1 How to Install RVM-043DVR Rear view Mirror

Different vehicles use different mounting brackets depending on the manufacturer.

Note: While the mirror in some vehicles is easy to remove, in some it may be a difficult process. If you find it difficult to remove your factory installed rear-view mirror, please do not force it as you could break your windscreen. In the case of difficult mirror removal, we recommend you seek a professional to dismantle the original rearview mirror.
2.2 How to change base & install RVM-043DVR Rear view mirror on Windsheild

Please see below a list of brackets for various vehicles. Choose the appropriate bracket for your vehicle and change the base according to the instructions that follow.

No. 1 Fits most Toyota / Mazda / Ford / Nissan
No. 2 Fits most Honda / Subaru / Suzuki
No. 3 Fits most Hyundai / Kia
No. 4 Fits most Peugeot / Renault

1
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2.3 How to install the (optional) rear view camera

The rear view camera is usually installed above the middle of the license plate frame.

If your vehicle does not already have a reverse camera installed it is recommended you install a camera in the middle rear of the car to allow for both front and rear simultaneous recording and rear view blind spot viewing during reversing. When you select reverse gear the mirror monitor automatically displays the rear camera.

If you install the optional rear view camera, please ensure you select a high quality camera as it will be functional at all times while the vehicle is operational and recording to the DVR. We also recommend you select a wide angle camera that clearly captures both a rear view traffic and reverse parking viewing angles.
Chapter Three: Functions

3.1 Highly reflective mirror
Clear rear view displayed on highly reflective mirror

![Highly Reflective Mirror](image1)

3.2 Optional Reverse Camera
When you select reverse gear, the rear-view monitor will automatically display the (optional) reverse camera.

![Not in reverse](image2)

![In reverse](image3)

3.3 Automatically Adjusting Brightness
The brightness of the screen varies with ambient light to give the driver a clear image when reversing.

![Weak Light](image4)

![Strong Light](image5)

3.4 Start-Up & Shut Down
Once your vehicle has powered up, your mirror monitor will start-up within 3 seconds and the DVR (digital video recorder) will automatically start recording.
Once your vehicle is powered off, your rear view mirror will shut-down within 12 seconds.
While your vehicle is powered, you can turn off the screen by pressing the power button in the centre bottom of the mirror or press it again to turn the screen back on.
3.5 Date

It is recommended to set the date and time so they can be accurately captured on your recordings for future reference. To set the date and time, ensure the DVR is not recording, press “MENU” on the remote control. Press “MODE” to switch to “SETTINGS” menu, then switch to “DATE SET” by selecting “up” or “DOWN”. Press the “REC” button to enter into “DATE SET” then use “MODE” to switch between year, month, day, minute and second. Use “UP” and “DOWN” buttons to adjust the date and time. Press the “REC” button to finish and save your settings.

3.6 Language

A range of languages are available for you to select to operate the product easily.

To select your language, when the DVR is not recording, press “MENU” on the remote. Press “MODE” to switch to “SETTINGS” menu, then switch to “LANGUAGES” by pressing “UP” or “DOWN”. Press the “REC” button to enter into “LANGUAGES”, use “UP” and “DOWN” to choose the language you need. Press the “REC” button to finish and save your settings.

3.7 Video Resolution

Your DVR has two video resolutions for you to select, either VGA or 720P. Selecting VGA will extend the memory of your Micro SD card however it will create a lower resolution file.

To select resolution, ensure the DVR is not recording. Press the “MENU” button on the remote, press “MODE” to enter the settings menu, select “MP”, use “UP” and “DOWN” buttons to switch to either “VGA” or “720P”, press the “REC” button to confirm your settings and exit.

3.8 Set the video recording time

The DVR can record video in blocks of “1 minute”, “2 minutes”, “5 minutes” and “off” for customers to choose.

To select the video recording time, ensure the DVR is not recording, press “MENU” on the remote to enter the settings menu, press “MODE” to switch to “RECORDING TIME” menu, use “UP” and “DOWN” buttons to switch among “1 minute”, “2 minutes”, “5 minutes” and “off”, press the “REC” button to confirm your settings and exit.
3.9 Recording Source

The DVR has “front camera recording”, “rear camera recording” and “dual camera recording” modes for to suit your preference.

To select camera/s to record from, ensure the DVR is not recording, press the “MENU” button on the remote to enter the settings menu, press “MODE” to switch to “RECORD MODE” menu, use “UP” and “DOWN” buttons to switch between “front camera recording”, “rear camera recording” and “dual camera recording” and “off”, press the “REC” button to save your settings and exit.

3.10 Voice Recording

The DVR has the ability to record video without sound in order to save memory space.

To enable or disable voice recording, ensure the DVR is not recording, press the “MENU” button on the remote to enter the settings menu, press “MODE” to switch to “SETTING” menu, use “UP” and “DOWN” buttons to switch to “RECORD AUDIO” menu. Press “REC” to enter and use “UP” and “DOWN” buttons to select “ON” or “OFF”. Press the “REC” button to confirm your selections and exit.

3.11 Video Recording

After starting the car, the DVR will automatically start recording video.

The “REC” on the top left corner of the screen starts flashing. Press the “REC” button on the remote to manually stop or restart video recording.

Press the “down” button to switch the video input display.
Press the “PIP” button to view two video sources which can be displayed on the screen at the same time.

### 3.12 Motion Detection

Setting Motion Detection restricts your camera to recording only when it senses motion. To enable motion detection ensure the DVR is not recording, press the “MENU” button on the remote to enter the settings menu, press “MODE” to switch to “SETTING” menu, use “UP” and “DOWN” to switch to “MOTION DETECTION” press the “REC” button to enter and use “UP” and “DOWN” to select “ON” or “OFF” motion detection. Press the “REC” button exit and confirm your settings.

### 3.13 G-sensor and sensitivity

When the DVR detects strong sudden movement (eg during an accident or incident) it can automatically save the current video and ensure it can’t be overwritten for later viewing. These video files will be saved on the Micro SD card and will not be deleted or overwritten by loop recording.

**Note:** Your Micro SD card can only save fifteen G-sensor files. When G-sensor files reach more than 15, the DVR will begin to write over the oldest files, keeping the most recent 15 G-sensor saved incidents.

To enable G-sensor recording, ensure the DVR is not recording, press the “MENU” button on the remote to enter the settings menu, press “MODE” to switch to “SETTING” menu, use “UP” and “DOWN” to switch to “G-sensor”, press “REC” to enter and use “UP” and “DOWN” to buttons to select G-sensor sensitivity or turn off G-sensor.
3.14 Playback Mode
To enter Playback mode, press the “mode” button to switch to playback mode, press the “UP” and “DOWN” buttons to select the video file.
Press “REC” to play/stop the video.
Press “MENU” to enter the delete video menu, press “REC” to delete the current video.

3.15 Photo Mode
To set your DVR to Still Photo Mode, ensure the DVR is not recording, press the “MODE” menu on the remote to enter picture mode. Press the “MENU” button to set the picture “resolution” in the “MP” menu, press “REC” button to manually take pictures after completing your settings.

3.16 Storing separate video source files
Video files of multiple connected cameras recorded are separately saved into two files on the Micro SD card. When you remove the Micro SD card from the mirror and read it on your computer, the card will show two folders - “DCIMA” and “DCIMB”. The “DCIMA” folder will show videos from the front camera and the “DCIMB” folder will show videos from the rear camera.

3.17 Formatting Micro SD Card
It is possible to format your Micro SD card from the DVR - please note, formatting the card will erase all content on the Micro SD card.
To format your Micro SD card, ensure the DVR is not recording, press the “MENU” button on the remote to enter the settings menu, press “MODE” to switch to “SETTING” menu, use “UP” and “DOWN” to switch to “Format”. Press the “REC” button. The screen will display a window asking if you wish to “FORMAT SD CARD”, select “YES”. Press the “REC” button to confirm your settings and format the card.
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Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

This warranty is provided in addition to your rights under the Australian Consumer Law.
Directed Electronics warrants that this product is free from defects in material and workmanship for a period of 12 months from the date of purchase or for the period stated on the packaging. This warranty is only valid where you have used the product in accordance with any recommendations or instructions provided by Directed Electronics.

This warranty excludes defects resulting from alterations of the product, accident, misuse, abuse or neglect.

In order to claim the warranty, you must return the product to the retailer from which it was purchased or if that retailer is part of a National network, a store within that chain, along with satisfactory proof of purchase. The retailer will then return the goods to Directed Electronics. Directed Electronics will repair, replace or refurbish the product at its discretion. The retailer will contact you when the product is ready for collection. All costs involved in claiming this warranty, including the cost of the retailer sending the product to Directed Electronics, will be borne by you.

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