

RYDEEN[®]

find your road



Owner's Manual

MV437FL

**High Brightness Frameless Mirror
with Auto Brightness Control**

V1.0

⚠ WARNINGS ⚠

- **THE FOLLOWING INSTRUCTIONS ARE INTENDED FOR AUTHORIZED RYDEEN SYSTEMS INSTALLERS ONLY.**
- **PROFESSIONAL INSTALLATION BY AUTHORIZED RYDEEN RETAILER REQUIRED TO BE COVERED UNDER WARRANTY.**
- Dropping your MV437FL unit or subjecting it to excessive shock and vibrations as this may cause it to malfunction and is not covered by warranty.
- **The MV437FL unit IS NOT WATERPROOF.** Avoid exposing it to rain or other forms of excessive moisture. **Water damage is not covered under the warranty.**

1. Installation

- 1) Remove existing mirror from vehicle.
- 2) If existing mirror tab is D-tab style mount MV437FL mirror to windshield and go to step 3. If original mirror is not D-tab style or headliner mount go to step 2a.
- 2a) Locate the supplied D-tab and the rearview mirror adhesive and install on windshield as per adhesive instructions.

Note: DO NOT ATTEMPT TO REMOVE THE EXISTING TAB AS DAMAGE TO THE WINDSHIELD MAY OCCUR

- 3) Remove the knee bolster on the driver side as well as the A-pillar cover (it may also be necessary to remove the sun visor and maybe even the overhead console in order to freely route the power harness from the knee bolster to the mirror connector).
- 4) Connect the power harness to the mirror and use supplied mirror harness wire cover in order to neatly route the cable up the windshield to the headliner.
- 5) Reassemble all above covers and make connections at knee bolster.

2. Wiring

RED- 12V+ Ignition

Black- Chassis Ground

Green- Not Used

VIDEO Camera RCA- Video input for camera (priority). The circuit switches automatically when video is sensed by powering up the reverse camera

VIDEO IN RCA- AUX Video input (DVD, MP4 etc.) This circuit is secondary and so it will be over written when Camera video is sensed.

**Alternative wiring method for NOT having
keep the power connection all the time**

Do not use this method if Video 1 & Backup Camera input are in use

- 1) Connect the camera's 12V and GND wire to reverse tail lamp.
- 2) Connect the camera's RCA to the mirror's Camera input
- 3) Connect the MV437FL 12V+ wire (RED) to the camera's "reverse trigger output" (RED) near the RCA
- 4) Connect the MV437FL ground wire (BLACK) to chassis GND

3. Setup

- 1) Turn Ignition ON
- 2) If AUX video 1 source is connected (turn video source ON then press PWR button on mirror and the image should appear on screen)
- 3) Shift vehicle into reverse, the camera image will appear on the screen
- 4) Shift vehicle out of reverse and the camera image will disappear and go back to its previous stage
- 5) The white window on the back side is the photo sensor to activate the monitor self-dimming/auto-brightness.

4. Power Button Operation

CAMERA input mode: Short press to adjust brightness of screen, long press about 3 seconds will turn on/ turn off the Auto Brightness function(Default is AUTO ON)

VIDEO 1 input mode: Turns ON and OFF LCD

5. Removable Mount Structure

MV437FL is equipped with the removable mounting stem structure, which allows to exchange with the following available ball joint mounting stems.



6. Trouble Shooting

Q: The Green LED never turns ON and I do not get a picture?

A: Test to confirm that (+ & -) are connected properly and fuse is good.

Q: The Green LED is ON but I do not see any picture?

A: Make sure that the video RCA's are connected properly and that the camera is powered up properly as per camera instructions.

Q: The Green LED is always ON?

A: Follow the "Alternative installation method"

Q: The image on the mirror is opposite (left is right and right is left) what is wrong?

A: The **White** jumper on the camera harness is connected (should be cut in half).

Q: I do NOT like the parking lines, how can I turn them OFF?

A: Connect the **Green** jumper at the camera harness to turn the parking line feature OFF.

7. Technical Support Contact Info

If you have other questions about the **RYDEEN products**, please contact your retailer or Technical Support:

- Telephone: **1-877-777-8811 (within USA only)**
- Email: **tech1@rydeenmobile.com**
- Web Address: **www.rydeenmobile.com**

One Year Limited Warranty

Rydeen North America Inc. (a manufacturer of "RYDEEN" products) warrants this product (Parking Sensor Systems) only to the original purchaser as described by the following:

Warranty Period

Rydeen warrants this product for a period of one (1) year from the original purchase date.

Warranty Coverage

This warranty covers all defects in material and workmanship except as specified below.

1. Installation by anyone other than an authorized RYDEEN retailer voids the warranty.
2. Any products distributed outside of the USA by Rydeen North America Inc. (RYDEEN) or which is not purchased in the USA or Canada unless the product is purchased through the USA Military Exchange Service.
3. Any product(s) which are purchased from an unauthorized retailer (in store or online).
4. Any products in which the serial number label or the model number label are removed, torn, modified or replicated.
5. Any damage defects or malfunctions resulting from any of following:
 - a) When defect occurs during shipment of product (freight carrier's responsibility).
 - b) Installation or removal of product.
 - c) Accidents, act of nature, misuse, abuse, neglect, unauthorized product modification or failure to follow product owner's manual instructions.
 - d) Any repair or attempt to repair without RYDEEN authorization.
 - e) Any other cause which is not related to product defect.
 - f) Any cosmetic damages due to normal wear and tear.
 - g) Any consumable items (such as fuse or batteries).

If any problems develop with your RYDEEN products during or after the Limited Warranty Period, or if you have any questions regarding the operation or installation of the product, you should contact your RYDEEN retailer. If the problem or your question is not handled to your satisfaction, please contact Rydeen Customer Service Department at 1-877-777-8811 (within the USA only) Monday - Friday between 9:00 AM to 4:00 PM Pacific Standard Time or visit www.rydeenmobile.com.



www.rydeenmobile.com

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