



Rydeen North America Inc.
dba Rydeen Mobile Electronics
2701 Plaza Del Amo, Unit 705, Torrance, California 90503 USA
Phone: 1-877-777-8811 Fax: 1-310-943-3778

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P/N: 127075006163



BVR400 SYSTEM

Owners Manual

4 CH DVR System

v1.1

WELCOME STATEMENT & WARNINGS

Congratulations and thank you for purchasing the RYDEEN BVR400 4 CH DVR System. We hope you will enjoy using this exciting product and trust that it will make your driving experience more enjoyable and hassle-free.

Please read this Owner’s Manual carefully before using this product. If you have any further questions about your BVR400 operation, feel free to call RYDEEN, Toll Free at 1-877-777-8811 (within USA only) for product support, or visit our website:www.rydeenmobile.com.

WARNINGS

- THE FOLLOWING INSTRUCTIONS ARE INTENDED FOR AUTHORIZED RYDEEN MOBILE INSTALLERS ONLY.
- PROFESSIONAL INSTALLATION BY AUTHORIZED RYDEEN RETAILER REQUIRED TO BE COVERED UNDER WARRANTY.
- EXCESSIVE SHOCK due to dropping any components in the system or subjecting it to excessive shock and vibrations may cause malfunction and is not covered by warranty.
- The Control Box of the BVR400 System IS NOT WATERPROOF. Avoid exposing it to rain or other forms of excessive moisture.
- Water damage is not covered under the warranty.
- CAN BUS Vehicles: There is NO NEED TO CUT AN ORIGINAL VEHICLE WIRE YOU MUST SPlice WIRE ONLY AND OBTAIN POSITIVE POWER (+12V).
- MUST CHECK BEHIND BUMPER FOR ANY METAL BRACKETS OR INTERNAL BRACES BEFORE DRILLING
- The use of Rydeen BVR400 System should never replace normal operational and safety precautions needed for reversing a vehicle. Caution should always be taken in ANY vehicle operation.

MAIN SPECIFICATIONS

Item	Specification
01.Video format	Video format file: AVI
02.The recorder mode	Cycling recording
03.Video trigger mode	Acc On start-up , G-Sensor trigger recording
04.Video resolution	D1(720x480/30FPS)
05.Storage medium	Micro SD/MMC(Maximum support to 32GB SDHC)
06.Storage timing	8 GB SD card for dual video recording at same time
07.Video timing	1 min / 3 min / 5 min cycling
08.Setting delay screen off	Start delay: On/Off/15 sec (default setting is 15 seconds).
	Turning delay: 2 Sec/ 5 Sec (default setting is 2 seconds).
	Reversing delay: 10 sec/20 sec (default setting is 10 seconds)
09.Delay shutdown	Support ACC powe off delay shutdown
10.G-Sensor file storage capacity	30% of card capacity
11.Power to detect voltage value	≤11.8V
12.Working voltage	9-16V DC
13.Storage temperature	-20℃~75℃
14.Working temperature	-10℃~55℃
15.Working environment humidity	15~85%RH

WHAT’S IN THE BOX



Host (1 set)



Front, Back camera(each 1 set)



Left , Right camera(each 1set)



Video extension line (1 set)



IR receiving (1set)



Cable (1set)



Remote cotroler (1 set)



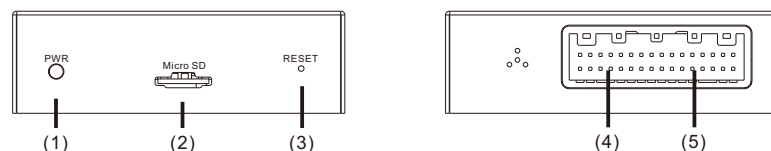
8 GB SD card (1 pc)



Manual (1 pc)

Note:
1. The picture may be slightly different from the actual product.
2. According to the product configuration you choose different, parts may be added, refer to the actual product.

CONTROL BOX INTRODUCTION



1. PWR power indicator:

(1) The power indicator: boot electricity when the indicator light is always on, no electricity no frameout.

(2) Standard video state: slowly flash (each 1 second).

(3) Alarm state (no card & stop recording & card up & down): Flash (each 0.5 seconds).

2. SD card port: Micro TF card, standard booth.

3. RESET Key: The machine on state, pressing the RESET key, the hardware will restart the machine.

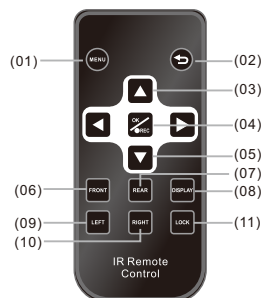
4. Power supply, trigger line, infrared remote control receiving port (PWR&Trigger&IR):

including BAT+, ACC, GND, trigger line (respectively after trigger line, left steering lamp cathode trigger line, the right steering lamp cathode trigger line, the original car screen reversing trigger line) and infrared remote control receiver.

5. The camera input and display output interface (Video in&out):

mainly includes four camera interface and a video output interface.

REMOTE CONTROL ILLUSTRATION



The remote control use matters needing attention:

- (1) Before to use remote control, please remove the battery isolation PVC film.
- (2) The product of the infrared remote control receiver, when operation please use the alignment of the receiving, and the range in two meters, there shall be no obstacle isolation.
- (3) When the control voltage is insufficient, the remote operation will slow or does not work, please replace the battery in time.
- (4) When replacing the batteries, please use the CR2025 button cell battery or the same specification cell battery.

(01) MENU Key: in the standby interface (no record) press the MENU button, display the main menu.

(02) Return key: return to the parent directory.

(03) Up arrow: in selection menu to select the last video file playback mode

(04) OK key: ① the settings menu parameters, used as a confirmation key;

② Video standby interface, used for video and stop recording function;

③ Playback of video files, used to play and pause function.

(05) Down arrow key: downward selection to select the next video file playback mode menu.

(06) Front Key: four pictures on video screen, press the FRONT key always display a forward-looking camera screen, press the return key return four screen video interface.

(07) Rear Key: four pictures on video screen, press the REAR button is always displayed a rearview camera in large screen, press the return key return four screen video interface.

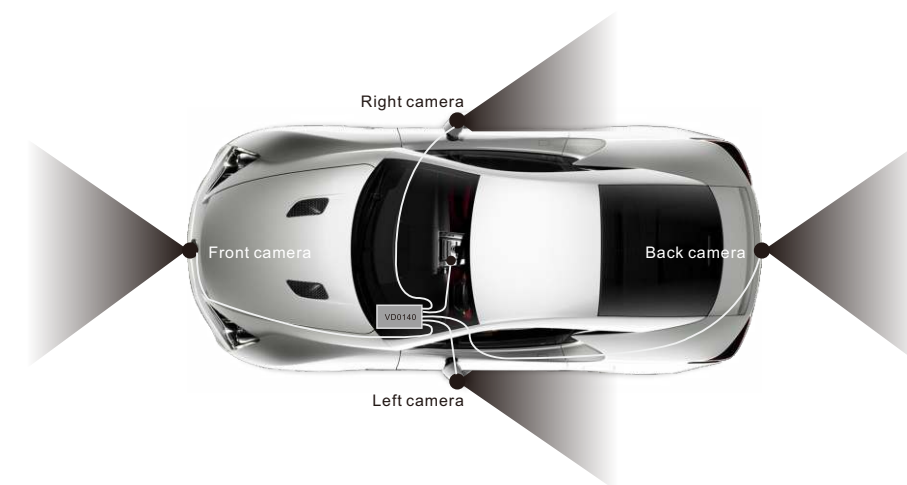
(08) DISPLAY Key: fast on / off screen function.

(09) LEFT Key: The four pictures on video screen, press the LEFT key to always show the left optic camera screen, press the return key return and four screen on video interface.

(10) RIGHT Key: The four pictures on video screen, press the RIGHT key to always show the right optic camera screen, press the return key return and four screen on video interface.

(11) LOCK Key: manual locking important document is the videos on recording, to prevent accidentally deleted.

WIRING DIAGRAM OF CAMERA INSTALLATION



FEATURES OF CAMERAS (4PCS)

front and back camera



MINy ME

Mini Camera with Super CMOS IV Sensor with NightVision™ Technology
Engineered ABS Housing
Resolution (TV LINES): 480
Minimum illumination: <0.3 LUX
Viewing Angle: 170°
Operating Voltage: 9-16V
Water-proof: IP67-IP68
Video System: NTSC (Color)
Body Color: Black (B)

left and right camera



OMNI

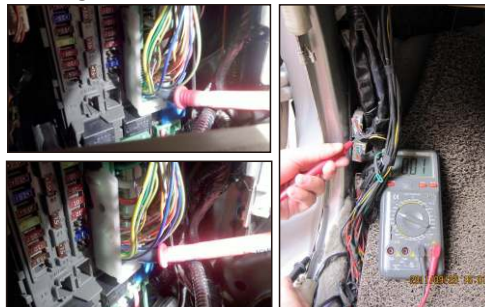
Mini Camera with Super CMOS IV Sensor with NightVision™ Technology
Engineered EPDM Outside Housing
Aluminum Alloy Metal Camera Housing
Include Black Box For Turning Lamp Detection
Resolution (TV LINES): 480
Minimum illumination: <0.3 LUX
Viewing Angles: 150°
Operating Voltage: 9-16V
Water-proof: IP67-IP68
Video System: NTSC (Color)
Image: Mirror / Standard Selectable
Selectable Side View Assist Line Image On / Off
Body Color: Black (B)

Attached: left and right steering lamp trigger line search method

Left&right steering lamp trigger line position

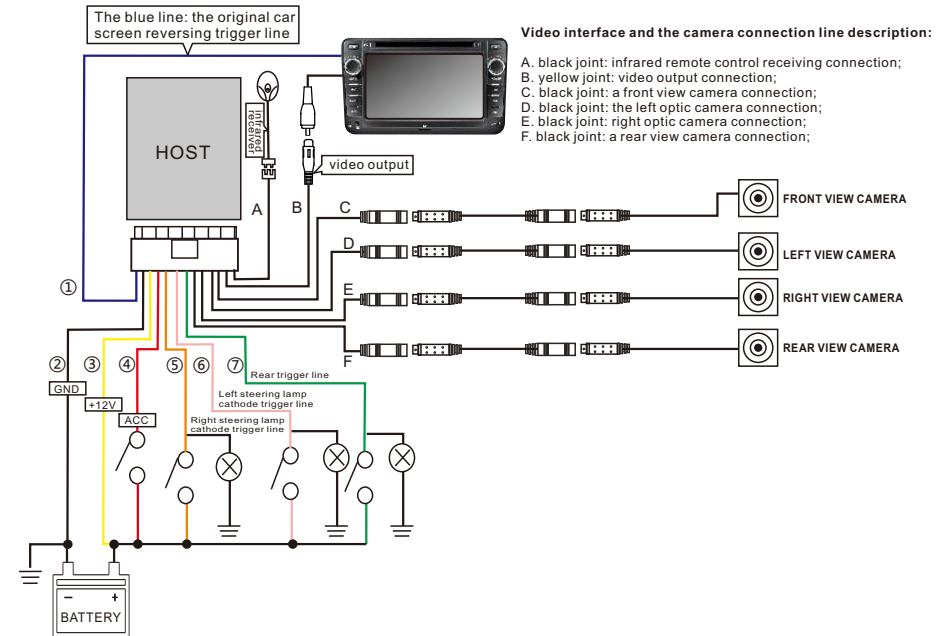


Left&right steering lamp trigger line testing methods



1. Steering lamp trigger line position: general vehicle around the steering lamp trigger line located in the center console in the bottom left, clutch the upper left position;
2. Steering lamp trigger line testing methods: ready multimeter, black probe connected to body (GND), the key in the ON state, open the left or the right steering lamp, with red pen in order to test harness voltage, such as a test to the voltage change in one line and the steering lamp change frequency, proof the line is the corresponding steering lamp trigger line;

WIRING DIAGRAM ILLUSTRATIONS



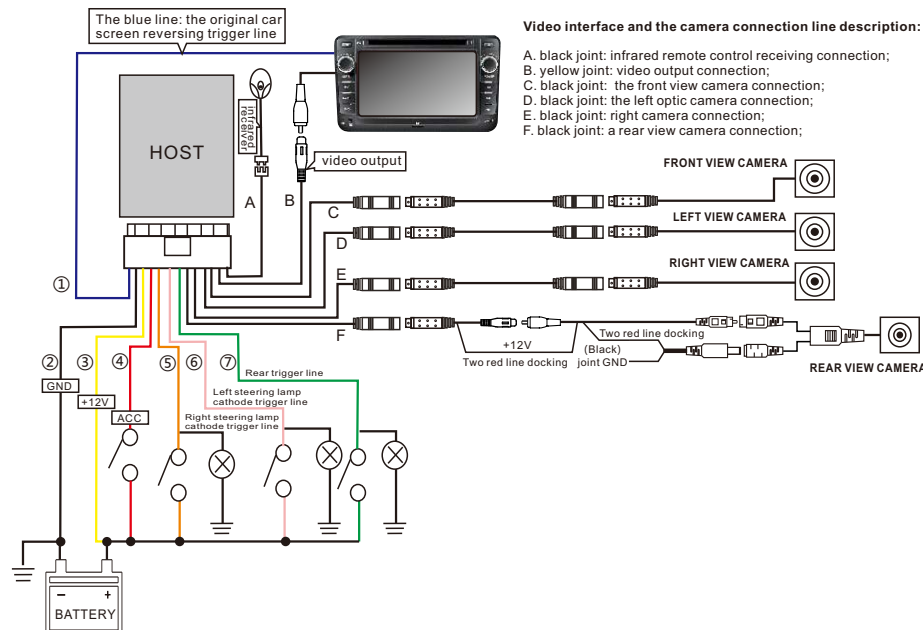
Power supply and trigger wiring diagram:

1. The blue line: connected to DVD display trigger line;
2. The black line: GND, wire, to connect the battery negative electrode;
3. The yellow line: BAT+, +12V, to connect the battery cathode;
4. The red line: ACC, connected ACC On port;
5. The orange line: pick the right steering lamp cathode;
6. The pink line: take a left steering lamp cathode;
7. The green line: connected with the reversing light power cathode;

System startup display method:

1. hang into the reverse gear trigger display, delay display according to the set time automatically shut down;
2. remote boot display, such as the need to close down or by remote control by the double flash off;
3. double flash boot display, such as the need to close again press the double flash off or remote shutdown;
4. turn on the lights start display, delay display according to the set time automatically shut down (menu steering model needs to be set to open).

WIRING DIAGRAM ILLUSTRATIONS FOR THE ORIGINAL CAR REARVIEW SYSTEM (NOTE TO CONFIRM WHETHER THE ORIGINAL CAR CAMERAS CAN SUPPORT LONG TIME ELECTRICITY)



Remark:

1. The camera power not by reversing lamp power supply, changing the host +12V power supply;
2. The screen detection line is no longer need to be controlled by the host, change to blue line for controlling.

Power supply and trigger wiring diagram:

1. The blue line: connected to DVD display trigger line;
2. The black line: GND, wire, to connect the battery negative electrode;
3. The yellow line: BAT+, +12V, to connect the battery cathode;
4. The red line: ACC, connected ACC On port;
5. The orange line: pick the right steering lamp cathode;
6. The pink line: take a left steering lamp cathode;
7. The green line: connected with the reversing light power;

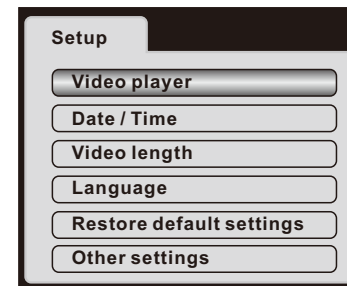
System startup display method:

1. Hang into the automobile reverse gear trigger display, delay display according to the set time automatically shut down;
2. Remote boot display, such as the need to close down or by remote control by the double flash off;
3. Double flash boot display, such as the need to close again press the double flash off or remote shutdown;
4. Turn on the lights start display, delay display according to the set time automatically shut down (menu steering model needs to be set is open).

(Reminder: install the machine, a remote manually adjust the system time, and will be SD card formatted.)

SYSTEM SETTINGS

In the remote control by pressing the "MENU" button to enter the system setup;



Video player: play video files

Date / Time: Set the system date and time

Video length: Set the video recording length of the time.

Language settings: The needs language

Restore default settings: Set the default factory

Other settings: reverse mode, parking mode, steering mode, delay off screen, format the memory card, the version number

Video playback: choose video playback, press "OK" key to enter the playlist, and then "▲" key or "▼" button to select the playback of video files. (Note: in the process of playing a video file, press "▼" button to play the next video files)

Date / time setting: set the same date and time into the system, enter the time settings menu, and then the date and time are set up according to the "▼" button and the "OK" button, set the date and time as needs, press "OK" key to maintain the set.

Video length: setting the video length, enter into the video options menu, press the "OK" key, then set the "▲" key and "▼" key. The video length can be set as: 1min/3min /5min. (the factory default settings for 3 minutes).

The language settings: set the desired language Chinese, simplified, traditional, English.

Restore default settings: all settings to set the default factory

Other settings: Reverse mode, Parking mode, Steering mode, Delay off screen, Format the memory card, The version number.

Reverse mode: the display settings reversing the picture (the factory default settings for rear + right). Select the rearview: when reversing the screen show the rearview in a big picture; Select the rear + right: when reversing the screen at the same time display the rear & right view;

Parking mode: off / record /G-record (default setting off).

- 1 Setting off, parking mode does not work;
- 2 Settings for record, parking mode is on, and under the parking mode, the machine has been recording. Until the battery voltage is lower than 11.8V, the system automatically shutdown (in order to save the vehicle start voltage);
- 3 Setting G-record, parking mode is on, and under the parking mode, the machine into standby, triggering the G-SENSOR to start recording. Until the battery voltage is lower than 11.8V, the system automatically shutdown (in order to save the vehicle start voltage);

Steering mode: on/ off to trigger display function (default setting: off).

- 1 The setting is on, after turn on lights, triggering a left / right picture display function ;
- 2 The setting is off, after turn on lights, close the function trigger left / right picture display ;

Delay shutdown the screen: sets display screen off time (3 items);

Start delay: set the auto power on ACC+ which the screen delay off time, can be set to on / off /15 seconds (default setting is 15 seconds).

Turning delay: set the auto turn off screen delay time, can be set to 2 seconds /5 seconds (default setting is 2 seconds).

Reverse delay: set the car reversing off screen delay time, can be set to 10 seconds /20 seconds (default setting is 10 seconds).

Format the memory card: "yes" or "no"; (such as "yes", will be on the memory card format).
Version number: for viewing the host system version number

PREVIEW OF THE SYSTEM WITH CAMERA IMAGES IN SPLIT SCREEN

When driving :
front , rear, left, right, four way image on display



When steering :
left and right image on display



TROUBLE SHOOTINGS

Treatments of common problems

- 1.Screen no display: check the screen cable is properly connected and terminal connection is loose.
- 2.One camera no display: check this road camera power supply is normal and whether the camera has been damaged.
- 3.The system does not start: look at the power indicator light is bright, if not bright, please check the power cable is connected properly terminal connection is loose.
- 4.The SD card suddenly can not be recognized by the system: the SD card execution in the PC format and then insert system.

Other problems

1. No video (screen without red dots):
 - ①. The SD card is full, not formatted or corrupted;
 - ②. The SD card is not inserted in place;
 - ③. Do not press the OK key, start recording.
- 2 Does not display (no image display DVD host):
 - ①. Check the 32P host jack is plugged in connection well;
 - ②. The system starts normally wait 15 seconds after the lights should be flashing;
 - ③. The machine boot wait 15 seconds before entering the main interface;
 - ④. The blue screen. Host DVD trigger line is connected, and check whether the 12V output.

One Year Limited Warranty

Rydeen North America Inc. (a manufacturer of RYDEEN" products) warrants this product (RDV360 System) 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.