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Contact Information.

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Limited Warranty.

GATEKEEPER SYSTEMS INC. (the company) warrants that any product manufactured or supplied by Gatekeeper Systems and found in the reasonable judgment of Gatekeeper Systems to be defective in material or workmanship will be repaired or replaced by Gatekeeper Systems without charge for parts and labor.

This warranty shall cover the following periods and equipment:

CAMICAJY-653	1 YEAR
CAMICAJY-663	1 YEAR
DVRIMOJY-M07N	1 YEAR
DVRICBJY-RS04	1 YEAR
CAMICAGSCXXX	5 YEARS

The warranty periods as noted above each commence on the date of invoicing. During the period of the warranty the Company, at its discretion will repair and/or replace all improperly functioning Equipment.

The Gatekeeper Systems product including any defective part must be returned to Gatekeeper Systems within the warranty period. The expense of delivering the Gatekeeper Systems product to Gatekeeper Systems for warranty work will be paid by the customer. The expense of delivering the Gatekeeper Systems product back to the customer will be paid by Gatekeeper Systems. Gatekeeper Systems responsibility in respect to claims is limited to making the required repairs or replacements and no claim of breach of warranty shall be cause for cancellation or rescission of the contract of sale of any Gatekeeper Systems sale. Proof of purchase will be required by the customer to substantiate any warranty claim. All warranty work must be performed by an authorized Gatekeeper Systems service representative.

This warranty does not cover any Gatekeeper Systems product that has been subject to misuse, neglect, negligence, or accident, or that has been operated in any way contrary to the operating instructions as specified in the Gatekeeper Systems Installation and Operating manual. This warranty does not apply to any damage to the Gatekeeper Systems product that is the result of improper maintenance or to any Gatekeeper Systems product that has been altered or modified so as to adversely affect the products operation, performance or durability or that has been altered or modified so as to change its intended use.

The warranty does not extend to repairs made necessary by normal wear or by the use of parts or accessories which are either incompatible with the Gatekeeper Systems product or adversely affect its operation, performance or durability.

Gatekeeper Systems reserves the right to change or improve the design of any Gatekeeper Systems product without assuming any obligation to modify any product previously manufactured.

ALL IMPLIED WARRANTIES ARE LIMITED IN DURATION TO THE SPECIFIED PERIOD FOR EACH PRODUCT CATEGORY AS LISTED IN THIS DOCUMENT. ACCORDINGLY, ANY SUCH IMPLIED WARRANTIES INCLUDING MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OTHERWISE, ARE DISCLAIMED IN THEIR ENTIRETY AFTER THE EXPIRATION OF THE APPROPRIATE 5 YEAR OR 1 YEAR WARRANTY PERIOD. GATEKEEPER SYSTEMS OBLIGATION UNDER THIS WARRANTY IS STRICTLY AND EXCLUSIVELY LIMITED TO THE REPAIR OR REPLACEMENT OF DEFECTIVE PARTS, AND GATEKEEPER SYSTEM DOES NOT ASSUME OR AUTHORIZE ANYONE TO ASSUME FOR THEM ANY OTHER OBLIGATION.

GATEKEEPER SYSTEMS ASSUMES NO RESPONSIBILITY FOR INCIDENTAL, CONSEQUENTIAL OR OTHER DAMAGES INCLUDING, BUT NOT LIMITED TO THE EXPENSE OF RETURNING THE GATEKEEPER SYSTEM PRODUCT TO GATEKEEPER SYSTEMS CORPORATE HEAD OFFICE, MECHANIC'S TRAVEL TIME, CUSTOMER LABOR EXPENSES, TELEPHONE OR TELEGRAM CHARGES, RENTAL OF LIKE PRODUCT DURING THE TIME WARRANTY SERVICE IS BEING PERFORMED, TRAVEL, LOSS OF USE OF THE PRODUCT, LOSS OF TIME OR INCONVENIENCE.

Warranty Service

To obtain warranty service, the purchaser must notify the Company during the warranty period. The Purchaser will discuss the defect or problem with a Company technician, and once the problem has been identified the Company will issue a return authorization number authorizing the purchaser to return faulty merchandise to the company for repair or replacement as determined by the company. Advance replacements will be issued for the first 30 days from invoice date.

This Warranty applies to all Gatekeeper Products manufactured by Gatekeeper Systems and sold in the United States and Canada. This warranty gives you specific legal rights, and you may also have other rights which vary from State to State.

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Rear Vision Quad View Check List.

Use the provided check list to ensure that you have received all of the components required for your complete Rear Vision Quad View by Gatekeeper Systems Inc. Parts listed are for one complete Rear Vision Quad View, with no options added at time of ordering



DVRICBJY-CB04



DVRICB04_Keyboard



WHCM028-511-0



CAMICAJY-653 (1.7mm)
CAMICAJY-663 (2.5mm)
[Order code dependant]



DVRIMOJY-MO7N (Includes Remote)



CAB000188 (1 Unit)

Figure 1: Rear Vision Quad View Stand-Alone Components.

Camera View Triggers.

Rear Vision Quad View comes with six sensor triggers. These triggers can be assigned to a specific camera by using the information contained within Table 1.

WIRE LABEL	WIRE COLOR	CAMERA DISPLAYED
POC	YELLOW	3 AND 4 [Split Screen Left/Right].
QUAD	WHITE	1; 2; 3 AND 4
1	BLUE	1
2	GREEN	2
3	ORANGE	3
4	BROWN	4

Table 1: Sensor Triggers.

DIP Switches.

By use of the dip switches located on the rear of the Rear Vision Quad View, individual camera displays can be changed to Mirror View. By use of an individual DIP Switch specific cameras can be set to mirror image. By default all cameras are set to Normal view and so the DIP Switch settings will all be set to the Bottom. If a mirrored image is set, the LCD screen will display an M on respective camera.



Figure 5: DIP Switch Setting.

Quad Unit Connections.

The Quad System Controller has several connections, both Input and Output.

1. DIP Switches: Controls Mirror View. (See Page 9)
2. Camera Input.
3. Power/Trigger Sensor Connector. (See Page 7, Figure 3.)
4. Video Out: RCA Connector.
5. Audio Out: RCA Connector.
6. Keyboard Input. (See Page 8)
7. LCD Monitor Output.

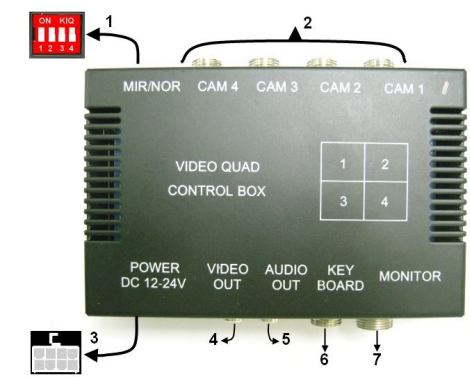


Figure 6: Quad System Control Unit.

Keyboard Function.

By default Rear Vision Quad View will display a quad view when ignition is first applied, however, by using the keyboard camera selection can be done dynamically. By pressing the corresponding Cam Button, Cam 1; Cam2; etc. the LCD will display the view as seen by that camera and the relevant indicator will be illuminated.



If the Power Button is pressed once on the keyboard the LCD will turn off and the indicator light (A) will not be illuminated. If the Power Button is pressed a second time the last camera view selected will be displayed and the indicator light (A) will be illuminated. To revert to full Quad view press the Quad Button. When the system is in Quad view the Quad view indicator (B) will be illuminated, (Blue).

Figure 4: Keyboard Function Indicators.

- Default operating mode is quad. If this setting has been changed and there is a need to restore to the previous operating mode, press the Power button for 5 seconds.
- To switch back to current mode, press and hold the Power button for 5 seconds again.
- Default LCD display is NTSC to switch to PAL Press and hold the Quad button for 3 seconds.
- To revert back to NTSC press and hold the Quad button for 3 seconds.

After initial power-up the default operating mode is Quad Control Box and LCD Monitor are in an ON state. To set the Rear Vision Quad View to go into Sleep mode, select Quad View (Quad LED is on), then press the "Quad" button for 5 seconds. Power off the Quad Control Box. Wait for 5 seconds and then power up the Quad Control Box. Both Quad Control Box and LCD Monitor will be in sleep mode.

Note: Quad LED must be on before the change is able to be made.

Introduction

Congratulations on your purchase of the Rear Vision Quad View from Gatekeeper Systems Inc. Prior to installing or using the Rear Vision Quad View, please read this manual in its entirety in order to fully understand the correct procedures for installation, setup and operation of the system.

Rear Vision Quad View has been designed specifically to be a user friendly system controlled and configured using the supplied remote controls.













Rear Vision Quad View offers:

- Ease of Use.
- Outdoor camera with 18 IR LED's.
- 7 inch LCD displays up to 4 cameras (quad view, single camera).
- Compatible with most analog cameras.
- Wide Temperature Operating Range.
- Compact and Easy to use Remote Control.
- Minimal Power Consumption.
- Versatile mounting options.
- Video can be simultaneously recorded on a DVR.

Complete with all required cabling and a viewing monitor, Rear Vision Quad View is a high clarity, compact system with minimal power consumption offering un-paralleled versatility for real time situation monitoring. The operator controlled LCD monitor can display a single camera full screen or up to four cameras in a quad view format.

PLEASE NOTE: To obtain the most current version of this manual please go to www.gatekeeper-systems.com and log into The Gate.

Important Safeguards; Warnings and Information.

-  Remove Main Power Fuse Prior To Any Electrical Work Or Jump Starting The Vehicle.
-  Connect 12V constant to ignition.
-  Rear Vision Quad View is intended for indoor use; keep away from water and moisture.
-  To activate the Rear Camera only during reverse connect the trigger wire to a switched 12V power supply, such as back-up horn. The monitor will preview just the Rear Camera until that switched power is removed.
-  Rear Vision Quad View must be mounted more than two feet away from any two-way radio equipment. Do not mount Rear Vision Quad View near a heat source and do not block vents on the enclosure.
-  Do not remove the cover of the Rear Vision Quad View. Doing so will directly result in voiding the manufacturer's warranty. If your Rear Vision System requires repair, contact Gatekeeper Systems Inc. (GSI) at 1.888.666.4833.
-  The Rear Vision Quad View power negative cable should be connected to a solid chassis grounding area, or negative post of battery.
-  All unused cables, sensor/indicator wires should be individually insulated, tied off and protected from touching ground. Unused cabling should never be grounded.
-  Always refer to your applicable Vehicle Safety Regulations before mounting any hardware.
-  Preferred location for Rear Vision Quad View is either on, or, inside the bulkhead.
-  Ensure sufficient airflow for enclosure vents.
Default operating mode is Quad Control Box and LCD Monitor are turned ON after +12V DC is supplied. To change default operating mode to let Quad Control Box & LCD Monitor in sleep mode (OFF) after +12V DC is supplied, make sure it is in Quad view (Quad LED is on), then press and hold "Power" button for 5 seconds. To switch back to default operating mode, make sure it is in Quad view (Quad LED is on), then press and hold "Power" button for 5 seconds.
-  Default LCD display is NTSC. To switch to PAL, press and hold the "Quad" button for 3 seconds. To revert back to NTSC, press and hold the "Quad" button for 3 seconds.

LCD Remote Control.

The LCD Display can be controlled using the supplied remote control.

If the Left or Right arrow is depressed this will display the Volume Bar, once the key is released the Volume Bar will remain on the screen for seven seconds before automatically saving the configuration.

1. Power Button.
2. Menu Button.
3. Video Select (AV1/AV2). AV1 is video from the recorder; AV2 is real time videos from cameras.
4. Right Arrow.
5. Left Arrow
6. Zoom Select (Select Zoom 16:9 for full screen display; Select Zoom 4:3 for small screen display)

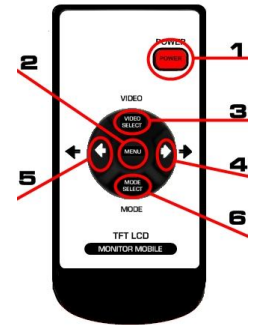


Figure 2: LCD Remote Control.

Using the LCD Remote Control.

When there is a need to adjust settings of the LCD, the LCD Remote control can be used. The main button to be used is typically Video Select (3) in figure 2, using this button will switch the LCD between AV2 (Quad View) and AV1 (video from recorder).

Menu Button (2) will bring up the configuration menu for the LCD. Settings which can be changed : Brightness; Contrast; Color; Tint; Language (English is default), Zoom, Horizontal and Blue.

Pin Definition.

PIN NUMBER	SPECIFICATION	WIRE COLOR
1.	+24V DC	RED
2.	GND	BLACK
3.	POC	YELLOW
4.	QUAD	WHITE
5.	SEL4	BROWN
6.	SEL3	ORANGE
7.	SEL2	GREEN
8.	SEL1	BLUE

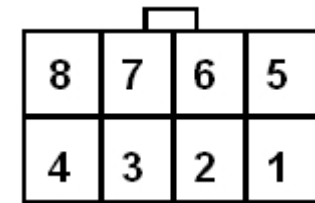


Figure 3: Pin Locations.