TROUBLESHOOTING

Problem	Possible Causes
No picture, no sound	Improper connection with 12v power adapter. Use of unauthorized power supply. Power Switch is on OFF position
No picture	Check whether AV cable is securely plugged in
No sound	Check whether audio connector is secure, or the sound volume is turned off or down
Dark picture	Ensure that bright and contrast settings are properly adjusted. Ensure monitor is warm enough
No color	Ensure color settings are properly adjusted in menu
Upside down or lateral inverted picture	Check horizontal/vertical adjustment on remote.
No car-backing function (i.e. Picture)	Event trigger is not securely connected
Remote Controller Fault	Battery may be dead or improperly installed: replacement battery Model:CR2025,3V
	Remote controller is not pointed in the direction of the receiving sensor: Make sure remote is pointed at the monitor
	Long distance or improper angle: The effective distance between the remote controller and the receiving sensor is 7 meters and the angle is ?30?.
	Obstacle: Move any obstacles out of the path

Dakota Micro, Inc.

8659 148th Ave. SE

Cayuga, ND 58013

www.dakotamicro.com

OVERVIEW

a new degree of vision

Quad View Monitoring System

User Guide

Part Numbers: DMOV-7MQ-C2

www.dakotamicro.com

FEATURES

- 7?LED Backlit, high resolution TFT LCD screen capable of displaying 4 cameras
- Wide voltage input: 11-32V
- 4 Channel Inputs, displays 4 images simultaneously
- Manual or automatic image switching modes
- Forward/Mirror image selection
- Event Triggers provided for all 4 cameras. Cameras can be triggered for events such as backing up or door opening
- Power provided to only active camera, prolonging the life of the cameras.
- AV input and output jacks provided
- Auto ON/OFF LED sensor automatically triggers night vision when required
- Includes credit card style remote control
- Backlit control buttons enable easy menu navigation in all lighting conditions

WARNINGS

- Please read entire manual before using our products
- Before you power your rear view monitoring system, ensure that all cables are properly connected to avoid damage to the system
- Monitor IS NOT WATERPROOF, please do not place the monitor outdoors
- Ensure that all cables are routed a sufficient distance from high temperature areas and rotary objects
- To ensure proper heat dispersal, ensure that vent holes in monitor remain clear
- Do not open the monitor or camera casing, doing so will void the warranty
- DO NOT watch DVD?s etc. while driving
- Please do not use caustic chemicals to wipe the camera and/or monitor

⚠ WARNINGS

System is intended for light use and is not intended to be utilized in harsh conditions such as high vibration, high moisture, use in or around corrosive substances or other high impact or corrosive situations. Should a heavy duty camera be required for your application, an AgCam or EnduraCam camera from Dakota Micro should be utilized and is warranted for this type of use. Warranty will be void on this system should it be utilized outside of its recommended applications.

DAKOTA MICRO LIMITED WARRANTY

Subject to the disclaimer, limitations and other directions stated hereafter, Dakota Micro, Inc. warrants that the Product will be free from defects in material and workmanship for periods as stated hereafter from the date of original purchase. **THIS WARRANTY IS EXPRESSLY MADE IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS. THE EXCLUSIVE REMEDY OF THE BUYER IS LIMITED TO REPAIR OR REPLACEMENT OF THE PRODUCT. EXCEPT AS STATED IN THIS WARRANTY, DAKOTA MICRO SHALL NOT BE LIABLE FOR ANY LOSS, INCONVENIENCE, OR DAMAGE, INCLUDING DIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, RESULTING FROM THE USE OR INABILITY TO USE THE PRODUCT, WHETHER RESULTING FROM BREACH OF WARRANTY, NEGLIGENCE, STRICT LIABILITY OF ANY OTHER LEGAL THEORY**. Any oral statements or representations made by anyone which are contrary to or at variance with the terms stated in this **LIMITED WARRANTY** are void.

Dakota Micro will, at its option, either repair the defect or replace the defective Product or part thereof with a new or remanufactured equivalent at no charge to the purchaser for parts or labor for the period of three (3) years for AgCam/EnduraCam cameras, two (2) years for AgCam/EnduraCam monitors, quads and wireless, Twelve Months (12) for all OverView Cameras & Monitors as well as all other cables and accessories.

The Dakota Micro limited warranty periods outlined above apply throughout the United States and Canada only. A one (1) year maximum limited warranty for all Products applies to all other geographic locations unless otherwise stated in writing by Dakota Micro.

This limited warranty does not apply to any issues connected with appearance that have no relation to the performance of the Product nor to any Product the exterior of which has been damaged or defaced, which has been subjected to improper voltage or other misuse, abnormal service or handling, or which has been altered or modified in design or construction.

In order to enforce the rights under this limited warranty, the purchaser should follow the process set forth on page 3 of this Policy, and provide proof of purchase to Dakota Micro.

Neither the sales personnel of Dakota Micro nor any dealer or any other person is authorized to make any warranties other than those described herein, or to extend the duration of any warranties beyond the time periods described herein.

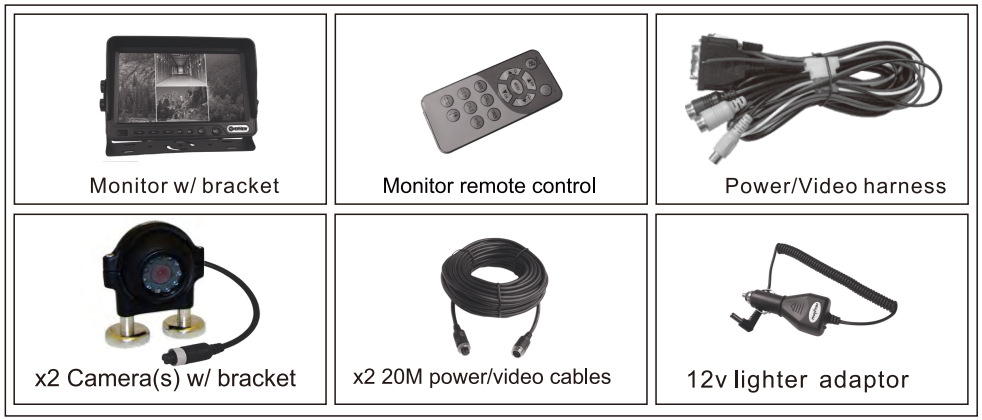
The warranties described herein shall be the sole and exclusive warranties and remedies provided by Dakota Micro. Correction of defects, in the manner and for the period of time described herein, shall constitute complete fulfillment of all liabilities and responsibilities of Dakota Micro to the purchaser with respect to the Product, and shall constitute full satisfaction of all claims. In no event shall Dakota Micro be liable or in any way responsible for any damages or defects in the Product which were caused by repairs or attempted repairs performed by anyone other than Dakota Micro.

Some states do not allow the limitation or exclusion of incidental or consequential damages, so said limitation may not apply to you.

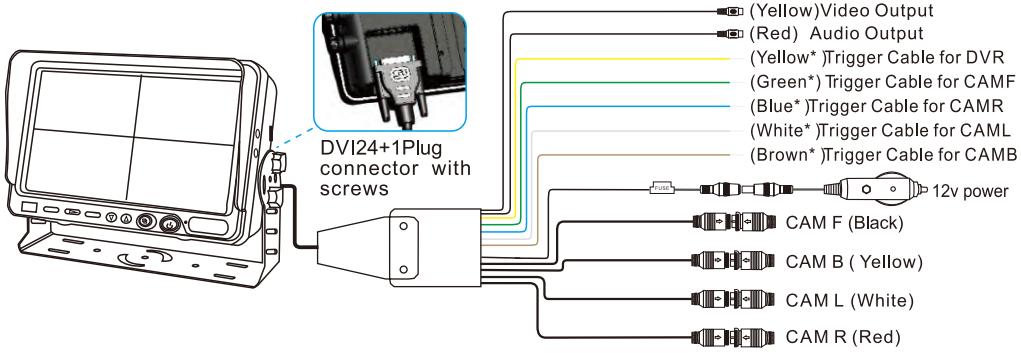
Any action at law, suit in equity, or other judicial proceeding for the enforcement of any right provided for herein or otherwise, or with respect to any claim that a purchaser may have against Dakota Micro shall be instituted only in the Courts of the State of North Dakota, either in the state district court located in Wahpeton, North Dakota or in Federal District Court location in Fargo, North Dakota. Without regard to conflicts of law principles, the laws of the state of North Dakota shall govern the interpretation and enforcement of the terms of this Limited Warranty and all aspects of the relationship between Dakota Micro and the purchaser.

This warranty gives you specific legal rights and you may also have other rights, which may vary from state to state.

Included Components



Connection Chart



1) Cameras 1-4 have an available event trigger wire. Cameras are identified as F (front), B (Back), L (Left) and R (Right)

2) Regardless if monitor is ON or in Standby mode, if power is applied to the trigger, activated camera will become powered

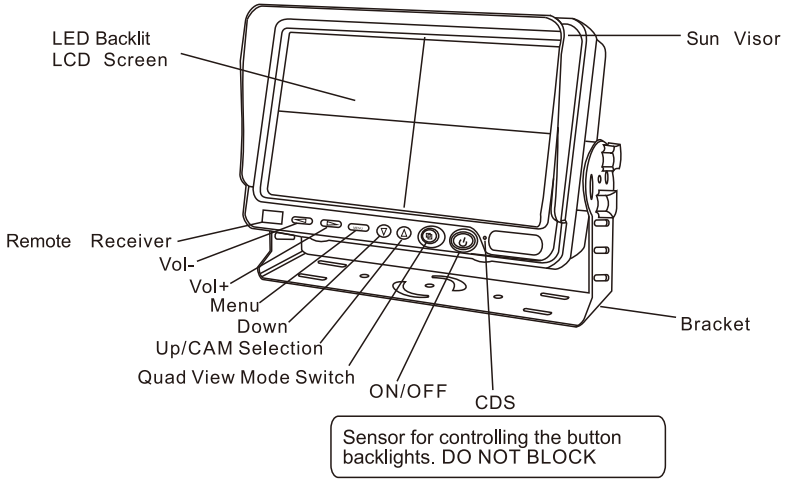
3) Camera F has highest priority, camera R the lowest. Example: if both camera F and B are triggered simultaneously, camera F will take precedence.

4) Peripheral DVR trigger cable
   1. When the monitor is in quad view or front and back view, the cable has a DC12V output.
   2. When the back trigger cable makes the monitor activated, the peripheral DVR trigger cable has a DC12V output

** Event Trigger wire colors are subject to change without notice and may vary slightly from colors indicated above .*

Monitor

I. Monitor Introduction



II. Specifications

Screen Size	7” (16:9) digital panel
Overall Size	185mm(W)x124mm(H)x48(D) without mounting bracket
Weight	400g
Power Input	AC 10.5-16.9V, 1,200 ma (2 cameras)
Color System	NTSC/PAL auto switch
Operating Temp	-4°F~122°F (-20°C~50°C)
Brightness	400cd/m^2
Resolution	800(RGB) x 480
Contrast	500:1
Number of Camera Inputs	4

Monitor

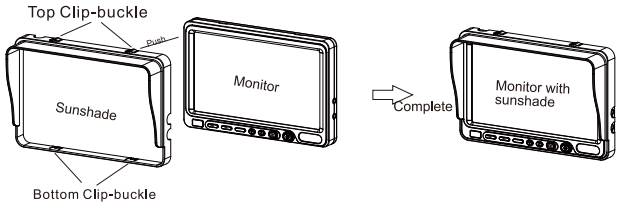
III. Installation of DVI 24+1 Plug

Install DVI24+1Plug

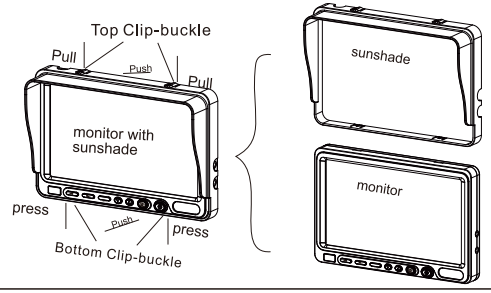
Plug in securely and tighten screws

IV. Install/Remove Sun Visor

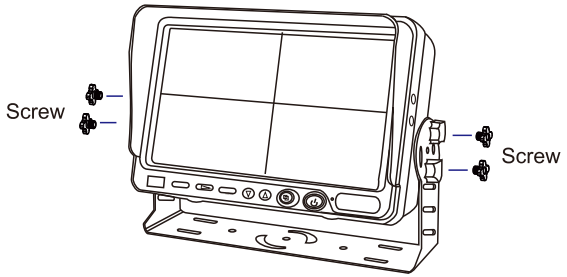
Installation



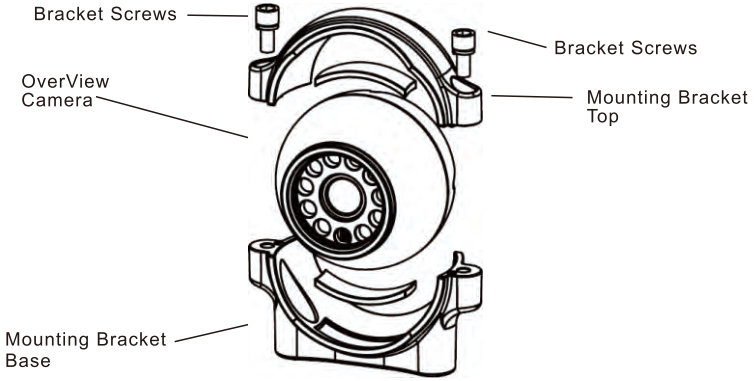
Remove



V. Installation of Monitor Bracket

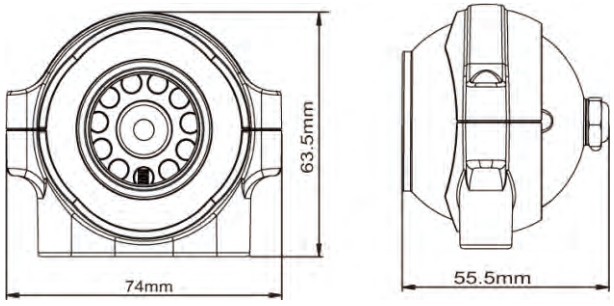


Camera



Camera Specifications

Video System	NTSC
Image Pick-up Device	Sharp 1/3” Color CCD
Horizontal Resolution	600 Horizontal lines
Minimum Illumination	0 LUX @ F2.0
Lenses Furnished	Board Lens 2.8mm
Synchronous System	Internal Synchronization
Operating Temp	-4°F~122°F (-20°C~50°C)
Power Supply	Dc12v +/-10%
Waterproofing Criteria	Ip69K
Dimensions	74mm(W) x 55.5mm(D) x 63.5mm(H)



Remote Control

III. Button Function

MUTE
Press Mute to turn sound off ， to resume volume, press Mute again or press VOL+

POWER
For ON/OFF

Up/CAM
a.To select menu option
b.To switch images in the mode of one camera view in order: B→L→R→F

VOL-/+
a. Adjust volume of monitor.
b .A djust brightness,contrast,etc.
c. Activate other functions, such as: mirror/normal image switch, delay time adjustment, etc.

MENU
Menu D isplay.

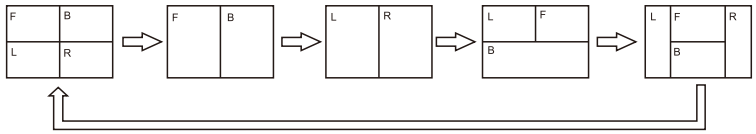
MODE:
User can use this key to select four modes: standard color,soft color, rich color and bright.

CALL
Press t his button is to display currently displayed AV channel

SLEEP
Time setup of sleep off, it is used to set the time off within 120 minutes.

Language
Language selection of Chinese or English,

Quad View Switc h
Turn monitor on， press Quad Vi ew Mode S witch key, the quad view will be changed in the order displayed below:

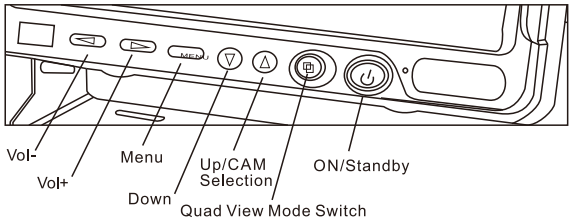


Press this button to flip the picture horizontally.

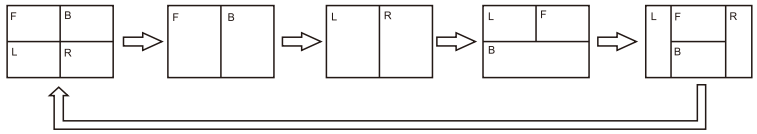
Press this button to flip the picture vertically.

Monitor

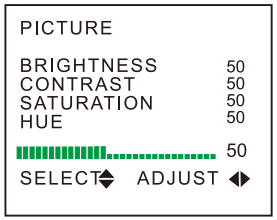
VI. Monitor Operation:



1. Press ON\Standby to turn monitor ON/OFF.
2. Quad View Mode Switch: Turn monitor on and press "Quad View Mode Switch key", the quad view will be changed as below one by one:



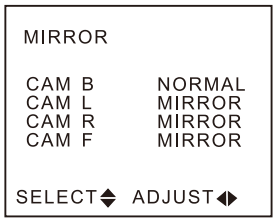
3. Up/CAM Selection:
   a. After pressing the Menu key, pre ss the Up/CAM Selection to select menu and set up;
   b . To switch the images in single camera mode in the following order B→L→R→F
4. Down: To select menu and set up.
5. Menu： Menu display.
6. VOL-/+ :
   a. Adjust volume of monitor.
   b. Adj ust brightness, contrast, etc.
   c . Activate other functions such as: mirror/normal image switch, delay time adjustment, etc.
7. Monitor Me nu Instruction
   Press Menu key do display as following: PICTURE, MIRROR, TRIGDELAY,SYSTEM
   a. PICTURE



Press Up/Down to select brightness, press Vol+/-to set up the value between 0 and 100.
Press Up/Down t o select CONTRAST/SATURATION/HUE. pressVol+/- to set the value.

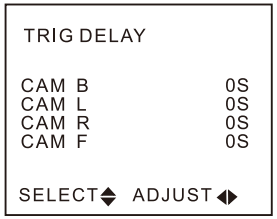
Monitor

b. Normal/Mirror Image
Monitor displays Camera function as listed below:



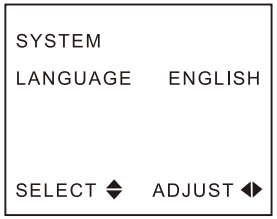
Press Up/Down to select CAMB / CAML / CAMR / CAMF
press Vol+/-to set up Normal/Mirror image of CAMB / CAML / CAMR / CAMF

c. TRIGDELAY
Monitor displays camera function as listed below:



Press Up/Down to select CAMB / CAML / CAMR / CAMF
press Vol+/-to set up TRIGDELAY (0-10 seconds) of CAMB / CAML / CAMR / CAMF.

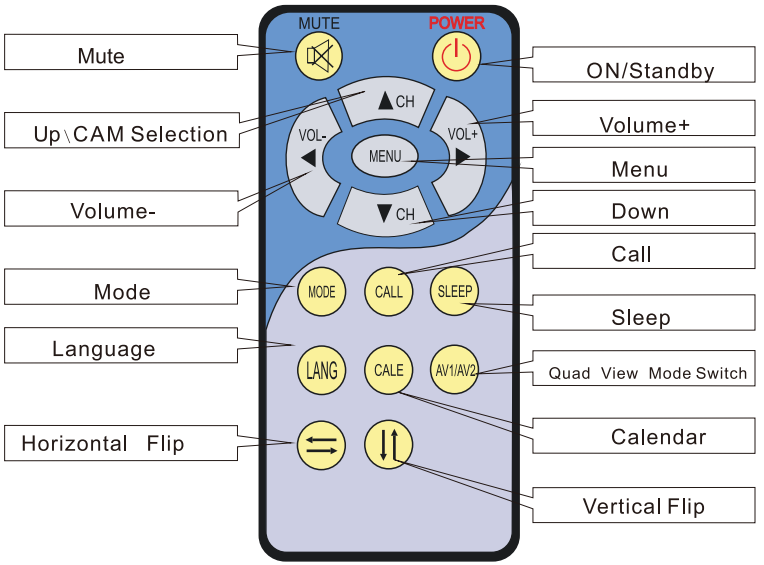
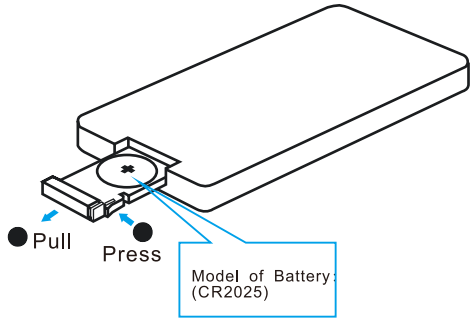
d. Language



Press Up/Down to select Lang uage, press Vol+/- to select Chinese/English.

Remote Control

I. Introduction



II. Replace Battery