



User Manual

Dakota Micro® AHD 7" Monitor



DM Part Number(s)

DM-H7

This Dakota Micro® kit includes one (1) AHD 7"
monitor and accessories.

Always read the manual prior to operating this equipment. Also, please follow all safety signs and precautions.

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Included Components

Description	Picture
Dakota Micro® AHD 7" Monitor	THE COORD
Dakota Micro® AHD 7" and 9" Monitor Wire Harness PN: DM-MWH	
Dakota Micro® AHD 7" and 9" Monitor Remote PN: DM-HRMT	
Dakota Micro® 7" Monitor Sun Shade PN: DM-7SHADE	
Dakota Micro® 7" Monitor U-bracket and Hardware DM: DMAC-7M Bracket	
Dakota Micro® 2.1 Barrel Male to Auxiliary Power PN: DM-12V	

Optional Components

Description	Picture
Dakota Micro® 2.1 Barrel Male to Electrical Outlet Power	
PN: DM-PA3	

Standard Features

Monitor

- Features the latest in Analog HD technology
- LED backlit
- View both NTSC and PAL cameras
- Advanced LCD technology allows you to clearly see your image from any angle
- Mirror the view of any of your cameras for use as a backup camera
- 2-year warranty
- 16:9 aspect ratio
- 4 camera inputs
- Event triggers for each camera allow for triggered events to bring your camera to full view (I.E. putting the vehicle in reverse)
- Color, brightness, contrast, and volume controls that allow comprehension for use in different environments.
- Remote control, sunshade, multiple power options and metal U-bracket monitor stand included.

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Monitor Installation & Mounting

Mounting Precautions

Remove your monitor carefully from packaging and inspect all mounting hardware. Mounting location is the most important part of the monitor installation as it ensures you the maximum visual benefit from your Dakota Micro system. With that said, when installing your monitor, ensure to follow these three (3) precautions:

- The monitor is out of direct sunlight. This will prolong the life of the unit as well as ensure optimum visibility.
- 2. The monitor does not obstruct view.
- 3. The monitor does not interfere with the normal operation of equipment.

Warning: Dakota Micro, Inc. is not responsible for any damages caused to your monitor or yourself due to the improper installation or use of a suction cup monitor mount, whether it be product sold by Dakota Micro or product purchased from another source.

Universal Bracket Mounting

- 1. Hold monitor U-bracket in place on monitor.
- 2. Attach bracket with included wing bolts.

Finalizing Universal Bracket Installation

- 1. With the mount and monitor attached, find, and mark the desired position for the monitor.
- 2. Remove the monitor from the mount.
- Attach the monitor to the mount and tighten the wing nuts. (DISCLAIMER: Use ONLY the nuts included in kit, bolts any longer will damage your monitor)

Power

Supplying Power with 12v Power Adapter

- 1. Attach the power input connector on monitor to your included 12v cigarette lighter power adapter.
- 2. Plug Cigarette lighter adapter into 12v power source.

Hardwire Power Adapter

- If you would like to hardwire your power supply, please contact your local Dakota Micro, Inc. dealer for available hardwire power adapters (PN: DM-HDWRE)
- 2. Dakota Micro hardwire power adapters have a maximum circuit capability of 5 amp.

Fuses

- There is a small in-line glass fuse located on the red power wire. When replacing this fuse, use a MAX 3
 AMP glass fuse.
- There is a small glass fuse located on the inside tip of the 12v portion of the power adapter (PN: DM-12v). When replacing this fuse, use a MAX 4amp glass fuse.

Monitor & Remote Operations

Monitor Operations



1		Non-Functional
2		Non-Functional
3		Non-Functional
4	- Key	To Decrease parameter
5	+ Key	To Increase parameter
6 MENU Allows users to access th	Allows users to access the menu. Once in the menu, toggles through menu options	
7	AV	Each button press switches between AV1, AV2, AV3, & AV4. Also, selects menu options withing sub menus.
8	Power	Powers Monitor ON and OFF (2 Second delay)

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Remote Operations

(6)	POWER ON/OFF
•	Decrease parameter or toggle menu settings ON/OFF
	Increase Parameter or toggle menu settings ON/OFF
VIDEO SELECT	VIDEO SELECT- Manually toggles between cameras, AV1, AV2, AV3, AV4, and then back to AV1. Also, moves up within sub menus.
MODE	Changes the view of the screen 16:9 and 4:3 or moves down through the sub menu options.
MENU	MENU- Allows users to access menu. Once in menu, toggles through menu options.



Monitor Wire Harness Details

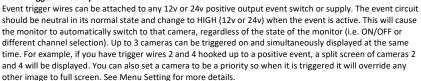
Harness Components

- Input to Monitor
- 2. AV 1-4 Event Trigger Wires
- 3. Fuse
- 4. Power Input
- 5. RCA- Video Output
- 6. AV1- Audio/Video Input
- 7. AV2- Video Input
- 8. AV3- Video Input
- 9. AV4- Video Input

Event Trigger Wire Color Guide

- 1. Camera 1- Green
- 2. Camera 2- Purple
- 3. Camera 3- Gray
- 4. Camera 4- White

Event Trigger Wires Explained



Menu Settings

- 1. Press the MENU key on the monitor or remote to bring up the menu.
- 2. Press the MENU key again to toggle through the menu options.
- Use the and + keys on the monitor or the Left and Right arrow keys on the remote to change the value of the highlighted item.
- Use the AV on the monitor or Video/Mode Select on remote to move up and down through the individual menu selections.
- To exit, allow monitor to time out (approx. 15 seconds) or exit the menu faster by pressing the menu button to go through all the menu options.



Brightness: Adjusts the brightness of the image.

Contrast: Adjusts the contrast of the image. **Saturation:** Adjusts the saturation of the image.

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Tint: Adjusts the tint of the image. **Volume:** Adjusts the volume level.

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Guideline CH1-4: Allows user to turn ON/OFF guides. Guidelines appear only during triggered events.

Car Delay CH1-4: Allows user to set duration of triggered camera on individual camera.



Rotate: Allows user to rotate the whole image for all channels.

Mirror CH1-4: Allows user to choose specific channels they may want to mirror.



Language: Allows user to change the language. AV1-4 Loop 3s: Allows user to have images automatically change on a 3 second loop.

No Signal: Allows user to change the color of the screen when there is no camera signal.

Zoom: Changes the screen between 16:9 and 4:3

Auto Dim: Turns auto dim on/off
Reset: Factory Reset

VER: Latest version of the monitor

Specifications

specifications		
LCD Monitor		
Screen Size	16:9 Digital Panel	
Overall Size	4.84in(123mm) (H) x 7.04in(179mm) (W) x 1.14in(29mm) (D)	
Weight	13.97oz (396g)	
Power Input	DC 12-24v	
Color System	NTSC/PAL auto switch	
Operating Temp.	-4°F(-20°C) ~158°F(70°C)	
Brightness	800cd/m ²	
Resolution (HxV)	1024(H)x600(V)	
Contrast	800:1	
Viewing Angle	L/R: 85° Up: 85° Down: 85°	
Operating Voltage	Min. 12v (Check monitor label for specific voltage range)	
Lighting Source	LED Backlight	
Environmental Rating	IP50	
Video Output Port	1 RCA Video Out- Analog(CVBS) ONLY	
Video Input Port	4 AHD video input channels	

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Warnings

- 1. When selecting a camera system from Dakota Micro, Inc., be sure to utilize the appropriate system for your use. AgCam®, EnduraCam® and InnoPro® cameras are designed for high impact, moisture, vibration, and a variety of other rough conditions. OverView® and RazerCam™ cameras and kit components are designed for light use, low vibration, and low moisture. OverView® and RazerCam™ equipment is not warranted when used in situations outside of the above-mentioned parameters. We always request that customers keep in mind that our less expensive OverView® and RazerCam™ product line is cheaper because it does not feature the reliability and durability of our AgCam® and EnduraCam® lines. The warranty available on these products reflects that durability.
- To avoid electrical shock and maintain optimal functionality, do not open the enclosures. High voltage may be present and there are no user serviceable parts inside. All warranties will be void should any enclosures be tampered with in any way.
- Do not use any harsh chemical solvents, cleaning agents or corrosive detergent to clean away dirt on the surface of the screen or lens.
- 4. On AgCam® and EnduraCam® products, the photo-chromic camera lenses have been made impact-resistant and have been drop-ball tested according to Sec. 3.84,21 CRF BUT ARE NOT UNBREAKABLE. Because they have been hardened chemically, they show no stress pattern. Inspect your lenses frequently. Chipped or scratched surfaces will reduce protection. Such lenses should be replaced only by the manufacturer.
- 5. Power to cameras is not interrupted by turning off monitor; 12v power source must be terminated when not in use to avoid battery drain. To avoid this problem be sure when hard wiring a unit, use a fused circuit.
- Do not use your Dakota Micro, Inc. camera system for anything other than legal surveillance and observation uses. Dakota Micro, Inc. is not liable for any illegal or nefarious usage.

Product Warranty/Repair Process

- 1. For Technical Support call 1 701-538-4403 OR email techsupport@dakotamicro.com
- 2. Technician will assist in troubleshooting product malfunction.
- 3. If product malfunction cannot be remedied and a repair is deemed necessary, Technician will issue a case number.

IMPORTANT NOTE: The Technician will note if the repair APPEARS to be a warranty or non-warranty issue based on customer description of the issues at hand. No final determination can be made until inspection and testing of the equipment is completed at the factory.

- 4. To ensure fast and effective repairs, customer is required to send:
 - Dakota Micro, Inc. product that technician has requested/deemed necessary in the proper diagnosis and repair of
 malfunction. This may include some or all components of the kit.
 - · Original/Copy of purchase receipt.
 - For serialized items ONLY, if a copy of the original purchase receipt cannot be provided, then Dakota Micro, Inc. will
 use the product manufacture date.
 - Customer information, including return address, phone number & email address.
 - Case Number provided by Dakota Micro, Inc. technical support
 - Shipping and associated costs to ship product to Dakota Micro, Inc. factory to be borne by the customer unless otherwise specified.
- 5. Customer should mail product to:

Dakota Micro, Inc.

Case # XXXX

8659 148 ½ Ave. SE

Cayuga, ND 58013

- Upon receipt and evaluation of product at Dakota Micro, Inc. factory, it will be established if the repair is warranty or nonwarranty. Customer will be notified of any applicable charges.
- 7. If the repairs are deemed non-warranty and require a service/repair fee of any kind, a credit card number will be required.
- 8. If customer is unable to be contacted over the course of 3 weeks regarding required non-warranty repairs, product will be held for 30 days and, if no response from customer, product will be discarded.
- 9. Any product returned without proper documentation may be returned at customer's expense.
- 10. Product returned with unconfirmed problems may be assessed an evaluation fee of up to \$60 per unit.
- 11. Return shipping costs will be borne by the party at fault; in other words, if Dakota Micro, Inc. determines that the defective product was covered under warranty, Dakota Micro, Inc. pays the shipping charges. If Dakota Micro, Inc. determines that it was the customers fault, the customer will pay shipping charges. If a particular circumstance cannot be determined than the cost of shipping charges will be decided on a discretionary basis depending on the situation at hand.

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Consumer 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, INC. 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, Inc. 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 five (5) years for AgCam® /EnduraCam® cameras; three (3) years for InnoPro® cameras; two (2) years for AgCam® /EnduraCam® monitors, and Wireless components; Twelve (12) Months for all Overview® and RazerCam™ Cameras & Monitors, cables and all other accessories.

In addition to the five (5) years for AgCam® /EnduraCam® cameras Dakota Micro will warranty for the life of the camera against any variety of ingress within the camera housing. This includes moisture and dust particles that are found inside the camera resulting from a manufacturing defect and does not include ingress because of damage caused by no fault of Dakota Micro, Inc.

The Dakota Micro, Inc. 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, Inc.

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 in the Product Warranty/Repair Process, and provide proof of purchase to Dakota Micro, Inc.

Neither the sales personnel of Dakota Micro, Inc. 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, Inc. 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, Inc. to the purchaser with respect to the Product, and shall constitute full satisfaction of all claims. In no event shall Dakota Micro, Inc. 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, Inc.

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

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, Inc. 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 located 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, Inc., and the purchaser.

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

Disclaime

Dakota Micro Inc. products, specifications, pricing, and programs are subject to change without prior notice. Dakota Micro Inc. reserves the right to make design changes at any time without obligation to retroactively install them on previously sold units.

Contact Us



www.dakotamicro.com

Management System Registered to ISO 9001

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