

## User Manual

Dakota Micro® AHD 7" Waterproof Monitor









DM Part Number(s)	Description(s)
AG-WH7	This AGCO Dakota Micro® kit includes one (1) AHD 7" waterproof 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" Waterproof Monitor	
Dakota Micro® AHD 7" and 9" Monitor Wire Harness <b>PN: DM-MWH</b>	
Dakota Micro® AHD 7" and 9" Monitor Remote <b>PN: DM-HRMT</b>	
Dakota Micro® 7" Waterproof Monitor U-bracket and Hardware	
Dakota Micro® 2.1 Barrel Male to Auxiliary Power <b>PN: DM-12V</b>	
Dakota Micro® 2.1 Barrel Male Hardwired Power <b>PN: DM-HDWRE</b>	

## Optional Components

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

## Standard Features

### Monitor

- Features the latest in Analog HD technology
- Waterproof monitor with twist locking watertight power connection
- Ultra-bright LED backlit screen
- 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

## 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:

1. 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 damage 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.

## 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

1. 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







1. 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.
2. 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.

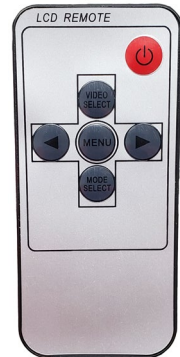
## Monitor & Remote Operations



1		Power ON/OFF
2		Allows user to navigate left through menus
3		Allows user to navigate right through menus
4		Allows user to access menu. Once in menu toggles through menu options.
5		Allows user to decrease parameter and toggle menu settings ON/OFF
6		Allows user to increase parameter or toggle menu settings ON/OFF
7		Each button press switches between AV1, AV2, AV3, & AV4. Also selects menu options within sub menus.

**Remote Operations**

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



**Monitor Wire Harness Details**

**Harness Components**

1. 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**

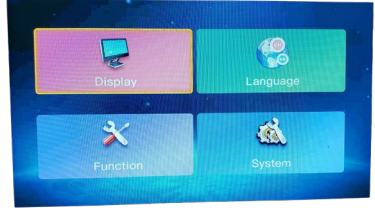
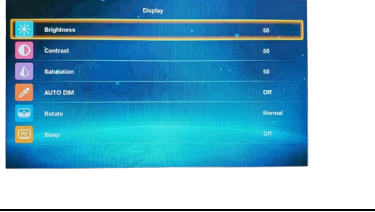
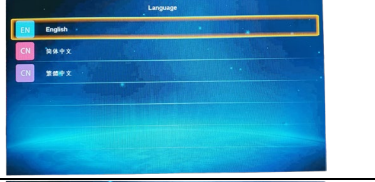

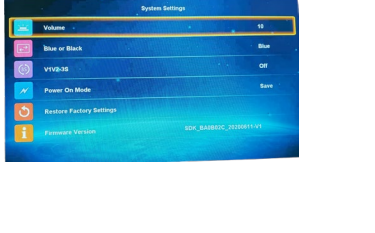
1. Camera 1- Green
2. Camera 2- Purple
3. Camera 3- Gray
4. Camera 4- White

**Event Trigger Wires Explained**

Event trigger wires can be attached to any 12v or 24v positive output event switch or supply. The event circuit should be neutral in its normal state and change to HIGH (12v or 24v) when the event is active. This will cause the monitor to automatically switch to that camera, regardless of the state of the monitor (i.e. ON/OFF or different channel selection). Up to 3 cameras can be triggered on and simultaneously displayed at the same time. For example, if you have trigger wires 2 and 4 hooked up to a positive event, a split screen of cameras 2 and 4 will be displayed. You can also set a camera to be a priority so when it is triggered it will override any other image to full screen. See Menu Setting for more details.

**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.
3. 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.
4. Use the AV on the monitor or Video/Mode Select on remote to move up and down through the individual menu selections.
5. 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.

	<p><b>Display:</b> Display settings  <b>Language:</b> Select preferred language  <b>Function:</b> Image preference settings  <b>System:</b> Software settings</p>
	<p><b>Brightness:</b> Adjust the brightness of the image.  <b>Contrast:</b> Adjust the contrast of the image.  <b>Saturation:</b> Adjusts the saturation of the image.  <b>AUTO DIM:</b> Turn ON/OFF auto dim  <b>Rotate:</b> Rotate image horizontal, vertical, or both  <b>Sleep:</b> Set timer when the monitor will go to sleep</p>
	<p><b>Language:</b> Set the language for the monitor menu</p>
	<p><b>Reversing Guide:</b> Turn Reverse lines on/off  <b>Reversing Priority:</b> Not applicable on this monitor  <b>Reversing Delay:</b> Allows user to set the amount of time monitor will remain on when a trigger has been disengaged.  <b>CH1 MIRROR:</b> Mirror Channel 1  <b>CH2 MIRROR:</b> Mirror Channel 2  <b>CH3 MIRROR:</b> Mirror Channel 3  <b>CH4 MIRROR:</b> Mirror Channel 4</p>
	<p><b>Volume:</b> Adjust the volume level.  <b>Blue or Black:</b> Adjust the background color  <b>V1V2-3S:</b> Allows user to have images automatically change on a 3 second loop.  <b>Power On Mode:</b> Keep the monitor at the screen you shut it off as.  <b>Restore Factory Settings:</b> Factory Reset  <b>Firmware Version:</b> Latest version of the monitor</p>

**\*\*All product specifications and warranty details are available at [www.dakotamicro.com](http://www.dakotamicro.com)\*\***