Users Manual

Dakota Micro Quad Processor Part Number: DMAC-Q

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

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I. <u>INCLUDED COMPONENTS</u>

Quad Kit Contents:

- 1. Quad Processor w/ 4 Camera inputs
- 2. 12v Power Adaptor
- 3. 2000mA A/C Power Adaptor

Thank you for purchasing the Dakota Micro, Inc. Quad Processor. This Quad processor is a full color, high resolution unit, which is 100% compatible with all Dakota Micro wired and wireless systems.

II. QUAD PROCESSOR STANDARD FEATURES

- Fully compatible with all AgCam® and EnduraCam® components.
- View 1, 2 or 4 cameras at the same time.
- Up to 4 of your cameras can be wireless.
- Includes remote location control box.
- Individually mirror cameras.
- Supports both NTSC and PAL video formats.
- Easily output single or quad video signal to recorder.
- Full Quad display at real time refresh rate (60 fps).

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III. <u>INSTALLATION</u>

a. Quad Inputs & Outputs



1	Quad Control Box	Allows for control of Quad function including split screen & menu access
2	Video Out to Dakota Micro Monitor	Allows for the output of split screen image of cameras
3	Cameras 1-4 Video Inputs	Allows for the input of up to 4 AgCam or EnduraCam cameras
4	Power Input	Allows for the input of power. Power input here powers the quad and connected cameras. Monitor connected to the quad needs to be independently powered
5	Event Triggers for Cameras 1-4	Allows for the addition of "events" per camera. Individual event triggers provided for each camera.

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IV. QUAD OPERATION

a. Control Box Buttons



Button	Short Press Button Action	Long Hold (10 Seconds) Button Action
•	Quad Split Screen / Camera 1 & 2 split screen / Camera 3 & 4 split screen / Quad Power OFF	Menu Access
•	Camera 3	None
•	Camera 4	None
▼	Camera 1 & 2 Toggle	None

- 1. Your Quad will be powered automatically when it is plugged in. Since the Quad does not have a "power on" indicator light, it is easy to see if it is on by looking into the face of your cameras that are hooked up to the unit. The LED's should be glowing a light red when you cup your hands around the camera.
- 2. If you do not see video from your camera(s), try:
 - a. Pushing the **Control Box** buttons until you see your camera.
 - b. Pushing the AV button on monitor or V1/V2 button on remote. Repeatedly pushing the AV button will cycle through the two video channels.

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V. **QUAD MENU SETTINGS**



- 1. Press and hold the **(MENU)** button for 8-10 seconds.
- 2. Use arrow buttons to select desired menu to adjust.
- 3. Use \triangle to move down through individual menu options.
- 4. Use ◀ and ▶ to adjust the information on individual line items.

DELAY TIME	. Utilized with event triggers. This allows users to set the amount of
	time your camera will remain visible after the event has ended.
H MIRROR	. Horizontally mirrors your image (like a rear view mirror)
V MIRROR	. Vertically mirror your image (upside down)

Press and hold MENU button for 8-10 seconds to exit menu setup.

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VI. <u>SPECIFICATIONS</u>

Refresh Rate	NTSC: 60fps/PAL: 50fps
Resolution (HxV)	NTSC: 860x525/PAL: 660x625
Power Input	9-12VDC, 1200mA
Environmental Rating	IP50
Operating Temp	-45°F~150°F (-42°C~66°C)
Video Output Format	Full/Quad/Freeze/Auto Switch
Video Output Signal	1Vp-75 Ohm CVBS out
Video Output Port	Switchcraftx1 Monitor Out, RCAx1 Video Out
Video Input Port	X4 cameras
Warranty	1 year

VII. WARNINGS

- When selecting a camera system from Dakota Micro, be sure to utilize the appropriate system for your use. AgCam and EnduraCam cameras are designed for high impact, moisture, vibration and a variety of other rough conditions. OverView cameras and kit components are designed for light use, low vibration and low moisture. OverView 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 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 reflect 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.
- On AgCam and EnduraCam products, the photo-chromic camera lenses have been made impact-resistant and have been dropball 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.
- 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 camera system for anything other than legal surveillance and observation uses. Dakota Micro, Inc. is not liable for any illegal or nefarious usage.

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VIII. 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 Repair Authorization (RA) number.

IMPORTANT NOTE:

The Technician will note on the RA form 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 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 will use the product manufacture date.
 - Customer information, including return street addresses (**NO** PO Boxes) & phone number. If the phone number is not included, the customer will be sent a letter requesting the needed information.
 - RA Number provided by Dakota Micro Technical Support
 - Shipping and associated costs to ship product to DM factory to be borne by the customer unless otherwise specified.
- 5. Customer should mail product to:

Dakota Micro, Inc. RA # XXXXX 8659 148th Ave. SE

Cayuga, ND 58013

- 6. Upon receipt and evaluation of product at Dakota Micro Factory, it will be established if the repair is warranty or non-warranty. If requested, customer will be called and 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 requested by Order Processing after the repair is completed.
- 8. If customer is unable to be contacted over the course of 3 weeks regarding required non-warranty repairs, product will be returned, unrepaired, to the customer.
- 9. Any product returned without proper documentation may be returned at customer's expense.
- 10. Product returned with unconfirmed problems will be assessed a \$60 evaluation fee per unit
- 11. Return shipping costs will be borne by the party at fault; in other words, if Dakota Micro determines that the defective product was covered under warranty, Dakota Micro pays the shipping charges. If Dakota Micro 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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Dakota Micro, Inc.

IX. 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 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® and InnoPro® cameras; two (2) years for AgCam® / EnduraCam® monitors, and Wireless components; Twelve Months (12) for all Overview Cameras & Monitors, cables and all other 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 steps set forth in the complete Dakota Micro "Warranty & Repair Policy" listed on page 7, 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.

X. DISCLAIMER

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.

XI. CONTACT US

Dakota Micro, Inc. 8659 148th Ave. SE.

Cayuga, ND 58013

Management System Registered to ISO 9001

www.dakotamicro.com

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