

Dakota Micro DMAC-CK1

Dakota Micro AgCam 92° AHD Camera DMAC-CK1 User Manual

Model: DMAC-CK1

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Dakota Micro AgCam 92° AHD Camera (DMAC-CK1). Please read this manual thoroughly before using the product to ensure proper function and longevity. The AgCam is designed for robust performance in demanding environments, offering clear visibility for various applications.

PRODUCT FEATURES

The AgCam DMAC-CK1 camera is engineered with several key features to provide reliable performance:

- **Solid Aluminum Anodized Housing:** Provides durability and protection against environmental factors.
- **100% Waterproof Triple O-ring Sealed Housing:** Ensures complete water resistance for use in wet conditions.
- **Auto Shading, Triple Hardened Glass Lens:** Delivers clear images and resists scratches and impacts.
- **Automatic Infrared Illuminators:** Enables clear vision in low-light or no-light conditions.
- **High Strength Magnetic Mount:** Allows for flexible and secure placement on various surfaces.



Image: AgCam 92 degree AHD Camera highlighting its key features including solid aluminum housing, waterproof sealing, hardened glass lens, infrared illuminators, and magnetic mount.

SAFETY INFORMATION

Please observe the following safety precautions:

- Ensure all connections are secure before operating the camera.
- Do not attempt to disassemble or modify the camera, as this will void the warranty and may cause damage.
- Keep cables clear of moving parts and high-temperature areas to prevent damage.
- Mount the camera securely to prevent it from falling during operation, especially in moving vehicles or machinery.
- Use only the provided cables and accessories to ensure compatibility and optimal performance.

PACKAGE CONTENTS

Your AgCam DMAC-CK1 package includes:

- 1x AgCam 92° AHD Camera
- 1x 60-foot Camera Cable
- 1x 20-foot Camera Cable

SETUP AND INSTALLATION

1. Mounting the Camera

The AgCam features a high-strength magnetic mount for easy and secure attachment. Choose a mounting

location that provides the desired field of view and is free from obstructions. Ensure the surface is clean and flat for optimal magnetic adhesion. The camera can also be permanently mounted using screws through the base if preferred.

2. Connecting the Cables

Connect the camera to your monitor or recording device using the provided cables. The camera uses a secure, threaded connector. Align the connector pins carefully and twist the locking collar until it is hand-tight to ensure a waterproof and reliable connection.



Image: A hand connecting the cable to the rear port of the AgCam camera, showing the threaded connection mechanism.



Image: A close-up view of the robust, multi-pin connectors used for the AgCam camera cables, designed for secure and waterproof connections.

Use either the 20-foot or 60-foot cable depending on the required distance. Route the cables carefully to avoid pinching, abrasion, or interference with moving parts. Secure the cables with cable ties or clips as needed.

3. Powering On

Once all connections are made, power on your monitor or recording device. The camera will automatically activate and begin transmitting video. Refer to your monitor's manual for specific instructions on selecting the correct input.

OPERATING INSTRUCTIONS

The AgCam DMAC-CK1 is designed for straightforward operation:

- **Automatic Operation:** The camera automatically adjusts to lighting conditions. Its auto shading feature and automatic infrared illuminators ensure optimal image quality day or night.
- **Field of View:** The 92° field of view provides a wide perspective, suitable for monitoring large areas or for backup assistance.
- **Wireless Communication (Wi-Fi):** While the camera itself is wired for video transmission, some compatible monitors or systems may offer Wi-Fi connectivity for additional features or remote viewing. Consult your monitor's documentation for details on Wi-Fi integration.

MAINTENANCE

To ensure the longevity and optimal performance of your AgCam camera:

- **Cleaning:** Gently wipe the camera lens and housing with a soft, damp cloth. Avoid abrasive cleaners or solvents that could damage the lens or finish.
- **Cable Inspection:** Periodically inspect cables for any signs of wear, cuts, or damage. Replace damaged cables immediately to prevent system failure or water ingress.
- **Connection Check:** Ensure all cable connections remain tight and secure, especially after prolonged use or exposure to vibrations.
- **Storage:** When not in use for extended periods, store the camera in a clean, dry environment.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No image on monitor	Loose cable connection No power to monitor/camera Incorrect monitor input selected	Check all cable connections, ensure they are tight. Verify power supply to both camera and monitor. Select the correct video input on your monitor.
Flickering or distorted image	Damaged cable Poor connection Electrical interference	Inspect cables for damage; replace if necessary. Ensure connections are secure. Relocate cables away from power sources or other electronics.
Poor image quality at night	Infrared illuminators obstructed Lens dirty	Ensure nothing is blocking the front of the camera. Clean the camera lens gently.
Camera not mounting securely	Mounting surface is not magnetic or uneven Debris on magnetic base	Ensure the surface is ferrous metal and flat. Clean the magnetic base and mounting surface.

SPECIFICATIONS

- **Model:** DMAC-CK1
- **Field of View:** 92 degrees
- **Lens:** 3.6mm

- **Housing:** Solid Aluminum, Anodized, Triple O-ring Sealed
- **Water Resistance Level:** Waterproof
- **Illumination:** Automatic Infrared Illuminators
- **Mounting:** High Strength Magnetic Mount
- **Compatible Devices:** Monitor
- **Wireless Communication Technology:** Wi-Fi (for compatible systems/monitors)
- **Manufacturer:** Dakota Micro, Inc.
- **UPC:** 817436013449

WARRANTY AND SUPPORT

The Dakota Micro AgCam DMAC-CK1 camera comes with a **3-year factory warranty**. For warranty claims or technical support, please contact Dakota Micro directly. Keep your purchase receipt as proof of purchase.

For further assistance, visit the official Dakota Micro website or contact their customer support team.