# CAPTUREVIEW®

## CV-1 8 x 22 VGA Digital Camera Binocular

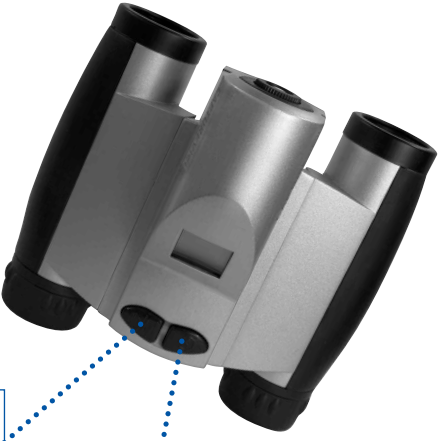
MEADE®

# Contents


Quick Start ..... 4
Features ..... 6
Introduction ..... 8
How to Use Your Binocular ..... 9
  Adjust Eye Relief ..... 9
  Adjust the Barrels ..... 9
  Focus the Binocular ..... 10
How to Use Your Camera ..... 11
  Insert Batteries ..... 11
  Select an Operation ..... 11
Taking Pictures and Video ..... 12
  Take a Still Picture ..... 12
  Capture Video ..... 13
Operations ..... 14
  Use the Mode and Shutter Button ..... 14
  Use the Camera Mode ..... 15
  Change the Camera Resolution ..... 15
  Use the Video Mode ..... 16
  Erase (Delete) Pictures or Video ..... 16
  Find Out How Many Pictures You've Taken ..... 17
  Use the Self-Timer ..... 17
  Find Out How Much Power is Left in the Battery ..... 18
  Find Out Why CaptureView is Beeping ..... 19
  Download Pictures ..... 19
  Install Image Editing Software ..... 21
Other Software and System Requirements ..... 22
Maintenance and Troubleshooting ..... 23
Specifications ..... 24

# Quick Start

## *How to start taking pictures...*



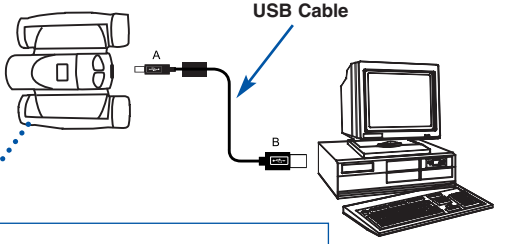
1 **Install 2 AAA batteries** (not included).

2 **Turn on camera.** Press and hold down Mode for 3 seconds.

3 **Point at something interesting.**

4 **Press the Shutter.** You've taken a picture!

## *How to download your pictures...*




**5** **Plug in.**
Connect CaptureView to your PC or Mac (OS 9.0 or higher) using the included USB cable.

**6** **Sit back and relax a minute.**
If using Windows 98ME or higher, CaptureView automatically installs on your PC. No drivers are needed. If using Windows 98SE or lower, drivers must be installed on your PC and can be found on the included CD-Rom.

**7** **Install Ulead Photo Express.**
Insert the CD, click on Ulead Photo Express and follow the on-screen instructions.

**8** **Enjoy your photos.**
Open Ulead Photo Express to view, edit and print your pictures.

# Features

**Fig. 1: Top View**
1. Eyepieces
2. Mode Button
3. Shutter Button
4. LCD Panel
5. Objective Lens
6. Barrel

**Fig. 2: Front View**
7. Camera Lens

**Fig. 3: Bottom View**
8. Diopter Scale (on right eyepiece)
9. Focus knob
10. Battery Compartment Lid (push forward and lift to remove)

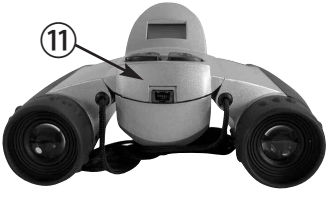



**Fig. 4: Rear View**
11. USB Port

# Introduction

Congratulations on purchasing the Meade® CaptureView® CV-1. CV-1 is an 8 x 22mm full-featured binocular. It is integrated with a digital camera that requires no film to capture pictures or video. This manual is designed to quickly guide you through the operation of your CaptureView CV-1. For best results, take a few moments to become familiar with the operation of your device, and save the manual for future reference.

CaptureView has the following features:

- Fully functional binocular.
- Capture pictures and video, and view them on your PC.
- Transfer pictures and video to your PC for easy printing and editing.
- E-mail pictures to your friends and family.
- LCD display panel indicates status for ease in performing desired operations.

***Important Note:*** *Images in the camera will be lost if the batteries are depleted or if the batteries are removed for more than 60 seconds. Accordingly, change the batteries when they run low. Images will be maintained in memory for approximately 60 seconds when changing batteries.*

*To conserve battery life, remove batteries after downloading images to a computer. There is continual battery drainage even when CaptureView is turned off.*

*Be sure CaptureView is off before changing batteries.*

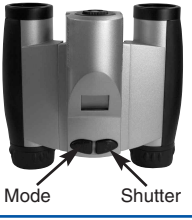
**WARNING! Never use a Meade binocular to look at the Sun!** Looking at or near the Sun will cause instant and irreversible damage to your eye. Eye damage is often painless, so there is no warning to the observer that damage has occurred until it is too late. Do not point the binocular at or near the Sun. Children should always have adult supervision while observing.

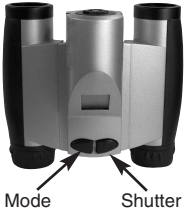
| If you want to... | Do this... |
|---|---|
| **Adjust Eye Relief**<br> | If you wear eyeglasses, fold down the rubber eyecups and hold the eyepieces up against your glasses. |
| **Adjust the Barrels**<br>*You need to adjust the barrels, as the distance between your eyes is usually different than the distance between another person's eyes.*<br> | 1. Hold CaptureView up to your eyes in the normal viewing position. Use both hands to hold each barrel firmly.<br>2. Pull the barrels apart or push the barrels together until you see a single circular field with both of your eyes. |

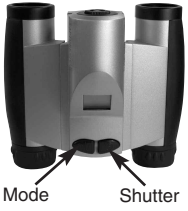
# How to Use Your Binocular

| If you want to... | Do this... |
|---|---|
| **Focus the Binocular**<br> <br> | 1. Set the Diopter Scale on underside of CaptureView at its center point between “+” and “-.”<br>2. Choose an object (such as a telephone pole) that is at least 50 feet (15m.) away.<br>3. Looking with **only your left eye**, rotate the Focus Knob until the object you are viewing is focused.<br>4. Looking with **only your right eye**, rotate the Diopter Scale until the object you are viewing is focused.<br>5. Now, looking **with both eyes**, rotate the Focus Knob to focus on both far and near objects. |

CaptureView performs best under good lighting conditions. Take some time to practice capturing still pictures and video. Depending on the available light and your distance from the object, captured images may not appear as bright or centered as viewed through the binoculars. CaptureView has a fixed focus (you cannot focus the camera manually) and takes focused pictures even if the image in the binoculars is out-of-focus.

| If you want to... | Do this... |
|---|---|
| **Insert Batteries**<br> | 1. Make sure camera is off before changing batteries.<br>2. Push the battery compartment lid forward and lift to open.<br>3. Insert 2 AAA 1.5v (user-supplied) batteries into the compartment, noting the correct polarity as illustrated inside the compartment. |
| **Select an Operation**<br>  | • Press and hold the Mode button for 3 to 5 seconds to turn on the camera.<br>• Press the Mode button to display and cycle through the operation icons on the LCD.<br>• Press the Shutter button when the desired icon is displayed to select an operation. |

| If you want to... | Do this... |
| --- | --- |
| **Take a Still Picture**<br>  <br><br>*The amount of pictures you can take:*<br>*High Resolution (640 x 480): 360*<br>*Low Resolution (320 x 240): 1600*<br>*The number of photos you may take will decrease if you have also taken video.* | 1. Press and hold down the Mode button for 3 to 5 seconds to turn on the camera. The camera will beep and the camera icon displays on the LCD. The counter, battery life and resolution icons also display.<br>2. Point the binoculars at an object. You may use the focus knob to focus the image in the binocular, but keep in mind that the camera has a fixed focus and is not affected by the focus knob.<br>3. Hold CaptureView steady and press the Shutter button. Note that the counter advances. For example, if the counter reads “016,” this means that this is your sixteenth picture. |

| If you want to... | Do this... |
| --- | --- |
| **Capture Video**<br>  <br><br>*The maximum length of a movie:*<br>*Up to 200 seconds.*<br>*The length of video will decrease if you have also taken still pictures.* | 1. Press and hold down the Mode button for 3 to 5 seconds to turn on the camera.<br>2. Press the Mode button once and the Video mode icon displays.<br>5. Point the binoculars at the scene you wish to capture.<br>4. Press the Shutter button. The camera now captures video.<br>5 The counter keeps counting (in seconds) as you capture video. Press the Shutter button again to stop recording video. Note that the counter stops and the number of pictures advances by one (a video counts as one object). |

| If you want to... | Do this... |
|---|---|
| **Use the Mode and Shutter Buttons**<br> <br><br>***Note:*** *If you do not perform an operation for 60 seconds, the camera automatically switches off.*<br>Operation Icons<br> <br> | • Press and hold the Mode button for 3 to 5 seconds to turn the camera on or off.<br>• Use the **Mode** button to cycle through the operation icons.<br>As you press the Mode button, the operation icons display on-screen in the following order:<br>Camera<br>Video<br>Resolution<br>Self-timer<br>Erase Last Image<br>Erase All Images<br>The next press returns you to the Camera icon.<br>• Press the **Shutte**r button when the desired icon is displayed to select an operation.<br>• Use the **Shutter** button to take a picture, and to begin or end the recording of a movie. |

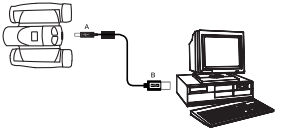
| If you want to... | Do this... |
| --- | --- |
| **Use the Camera Mode**<br> <br>Camera Icon | • Keep pressing the Mode button until the Camera icon displays. Then press the Shutter button to take a still picture. |
| **Change the Camera Resolution**<br>* * High Resolution Icon<br>* Low Resolution Icon<br>H: High Resolution mode (640 x 480).<br>L: Low Resolution mode (320 x 240).<br>(The default setting is High Resolution.) | • Select a Resolution setting before taking a still image:<br>1. The first time you turn on the camera, it displays the High Resolution icon. This is the default setting.<br>2. To change the resolution, keep pressing the Mode button until the Low Resolution icon displays. Then press the Shutter button to select Low Resolution. Low resolution allows you to capture more images with your camera. |

| If you want to... | Do this... |
|---|---|
| **Use the Video Mode**<br> <br>Video Icon<br><br>***Note:*** *The length of a movie depends on how much memory you have available.* ***Audio recording is not available with this camera.*** | • Keep pressing the Mode button until the Video icon displays. Then press the Shutter button to begin recording a movie. Press the Shutter button again to stop recording. |
| **Erase (delete) Pictures or Video**<br> <br>Erase Last Icon<br><br> <br>Erase All Icon | • **Erase Last.** Keep pressing the Mode button until the Erase Last Image icon displays and then press the Shutter button. The icon flashes. Press the Shutter button again to erase the last captured image or movie.<br>• **Erase All.** Keep pressing the Mode button until the Erase All Image icon displays and then press the Shutter button. The icon flashes. Press the Shutter button again to erase all the images and video. |

| If you want to... | Do this... |
| --- | --- |
| **Find Out How Many Pictures You Have Taken**<br> <br>Counter Display<br><br>***Note:*** *If you take more than 999 pictures, the camera counter returns to 001. The camera icon flashes, indicating that the number of pictures is 999 plus the number displayed on the counter.* | • Check out the LCD Counter. The counter displays the number of pictures or videos taken, from 0 to 999. |
| **Use the Self-timer**<br> <br>Self-Timer Icon | • Keep pressing the Mode button until the Self-timer icon displays and press the Shutter button.<br>The camera then pauses for about 10 seconds: It sends out 6 slow and then 6 fast warning beeps before taking the picture. |

| If you want to... | Do this... |
| --- | --- |
| **Find Out How Much Power is Left in the Batteries**<br> <br>Full Power Indicator Low Power Indicator | • Check the battery indicators on the display. |
| **Find Out Why CaptureView is Beeping**<br><br>***Note:*** *When the battery is low, CaptureView sends out six short high beeps. It is recommended you download the pictures or change the batteries at this time. If you change the battery, remember that you have 60 seconds to change the batteries before your images are deleted.* | **Listen for the following patterns:**<br>**Power on:** Two short high beeps.<br>**Wake up:** One long high beep.<br>**Sleep:** One short high beep.<br>**Takes a picture:** One short high beep.<br>**Failed to take picture due to insufficient memory:**<br>Three short high beeps<br>**Low battery:** Six short high beeps (beeps only when power is On).<br>**Self-timer:** Sends out 6 slow, then 6 fast beeps before taking a picture. |

| If you want to... | Do this... |
| --- | --- |
| **Download Pictures**<br> <br>USB Port | **If using Windows 98SE or lower**, drivers must be installed on your PC and can be found on the included CD-Rom.<br>**If using Windows 98ME or higher**, CaptureView automatically installs on your PC. No drivers are needed.<br>Your PC considers the camera as a mass storage device and displays it like a hard drive. You can then copy your still pictures or video to your computer or even copy files to the memory on the camera. |

| If you want to... | Do this... |
| --- | --- |
| **Download Pictures (continued)**<br>  <br>***Note:*** *See "Troubleshooting," page 23, for more information about connecting CaptureView to your PC.* | 1. Using the provided USB cable, plug the one end of the cable into the camera's USB port and the other end into your PC's USB port.<br>2. **If using Windows 98SE or lower**, drivers must be installed on your PC. See the included CD-Rom.<br>**If using Windows 98ME or higher**, CaptureView automatically installs on your PC. No drivers are needed.<br>3. After setup is complete, using Windows Explorer, you can browse the camera's memory as if it were a hard drive.<br>4. If CaptureView does not appear in Windows Explorer, it might be using a drive letter that has already been assigned by your PC (e.g., C:, D:, E:, etc.). Use Windows' Disk Manager program to change the drive letter to an unassigned letter (e.g., K:).<br>5 You may now copy images or files from the camera's memory to your PC just as you would with any external hard drive or flash memory. |

| If you want to... | Do this... |
| --- | --- |
| **Install Image Editing Software (Ulead Photo Express)**<br><br>***Note:*** *If you are connected to the internet and you click on the Meade logo on the splash screen, you will go to* ***meade.com.*** | 1. Insert supplied CD Rom into your PC's drive.<br>2. A splash screen displays. Click on "Ulead Photo Express."<br>3. Follow on-screen instructions.<br>4. After you click "Finish," the Ulead Photo Express icon appears on your desktop.<br>5. Double-click the icon to launch the program. You can now view, edit and print your images. Photo Express allows you to browse the camera's memory as if it were a hard drive. |

## Operations

**Other Software**

The included CD ROM contains other software programs by Ulead that will assist you in editing your images, allow you to transfer images to email, and provide you with other useful functions. Ulead Photo Express®, Photo Explorer, and Cool 360™, and CaptureView Manager are proprietary programs, and may not be sold, licensed or distributed without the express written consent of Ulead. For more information about Ulead Photo Express, visit the Ulead website at *www.ulead.com/pe*. Click on the "Product Documents" link in the Download section of their homepage to find a link for the Photo Express manual.

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## System Requirements

- Windows 98SE/Win Me/Win 2000/Win XP
  **Note:** If using Windows 98ME or higher, CaptureView automatically installs on your PC. No drivers are needed. If using Windows 98SE or lower, drivers must be installed on your PC and can be found on the included CD-Rom.
- 200MHz (or equivalent) processor or faster.
- 64MB of RAM free over System requirements
- Video (VGA) card with 2MB of RAM for minimum 16-bit (High Color) display.
- 4x CD-ROM drive.
- USB port (1.1).
- 600MB of free hard drive space.

If you have questions regarding your PC system specifications, please contact your PC manufacturer.

## Maintenance

**Care of your CaptureView**

1. Never immerse CaptureView in liquid. Remove dust or stains with a soft cloth dampened with water or neutral detergent. Keep in a dry, cool dust-free environment or a container when it is not being used.

   Do not spray liquid cleaners directly onto LCD. Using only gentle pressure, wipe the LCD with a slightly dampened cleaning cloth.
2. ***Important Note:*** *Images in the camera will be lost if the batteries are depleted or if the batteries are removed for more than 60 seconds. Accordingly, change the batteries when they run low. Images will be maintained in memory for approximately 60 seconds when changing batteries.*

   *To conserve battery life, remove batteries after downloading images to a computer. There is continual battery drainage even when CaptureView is turned off.*

   *Be sure CaptureView is off before changing batteries.*
3. Avoid dropping CaptureView. Do not disassemble CaptureView.

## Troubleshooting

**It is very important to use the following connection and disconnection procedures to download pictures.**

1. Only connect CaptureView to your PC when the PC is on and Windows has completed loading.
2. Your CaptureView camera and PC must be connected before running the CaptureView Manager program.
3. Avoid physically connecting, disconnecting and reconnecting the camera during a download session. Instead, disconnect the camera using Windows software: Right-click the USB on-screen icon and select disconnect (or connect to reconnect).

# Specifications

| | |
|---|---|
| Binocular power | 8X |
| Binocular objective lens diameter | 22mm |
| Binocular optical design | Folding roof prism, fully-coated |
| Binocular close focus | 16 ft. |
| Field of view (diagonal) | 8.2° |
| Binocular field of view | 382 ft. at 1000 yds. |
| Image capture resolution | 640 x 480, 320 x 240, 24-bit color |
| Maximum length of movie | Up to 200 seconds |
| Camera aperture | f/4.0; fixed lens |
| Optimum camera range | 49 ft. to infinity |
| Memory | 16MB SDRAM |
| Storage capacity at each resolution | 640 x 480: 360 images<br>320 x 240: 1600 images |
| Operating system requirements | Windows 98SE/2000/Me/XP |
| Operating environment | 41° to 104° F (5° to 40° C). 20%-85% relative humidity, non-condensing |
| Interface type | USB |
| Display | Icon LCD |
| Weight | 9.7 oz. (276g) |
| Product dimensions | 4.75" W x 2.4" H x 4.25" D |
| Batteries (user supplied) | Two x AAA 1.5V alkaline |
| Accessories (included) | USB cable, instructions, neck strap, cleaning cloth, carry case, CD ROM with image editing software |

# BINOCULAR/DIGITAL CAMERA LIMITED WARRANTY

**Every Meade binocular/digital camera is warranted by Meade Instruments Corporation ("Meade") to be free of defects in materials and workmanship for a period of ONE YEAR from the date of original purchase in the U.S.A. and Canada. At its option, Meade will repair or replace the product, or part thereof, found upon inspection by Meade to be defective, provided the defective part or product is returned to Meade, freight prepaid, with proof of purchase. This warranty applies to the original purchaser only and is non-transferable. Meade products purchased outside North America are not included in this warranty, but are covered under separate warranties issued by Meade International Distributors.**

**RGA Number Required: Prior to the return of any product or part, a Return Goods Authorization (RGA) number must be obtained from Meade by writing, or by calling Meade Customer Service at (800) 62-MEADE. Each returned part or product must include a written statement detailing the nature of the claimed defect, as well as the owner's name, address, and phone number.**

**This warranty is not valid in cases where the product has been abused or mishandled, where unauthorized repairs have been attempted or performed, or where depreciation of the product is due to normal wear-and tear. Meade specifically disclaims special, indirect, or consequential damages or lost profit, which may result from a breach of this warranty. Any implied warranties which cannot be disclaimed are hereby limited to a term of one year from the date of original retail purchase.**

**This warranty gives you specific rights. You may have other rights which vary from state to state. Meade reserves the right to change product specifications or to discontinue productions without prior notice. This warranty supersedes all previous Meade binocular warranties.**

**ANY RETURN MADE IN THE U.S.A. UNDER THIS LIMITED WARRANTY MUST FOLLOW THIS PROCEDURE:**

1. **Carefully package your binocular/digital camera to avoid shipping damage; use a thick-walled carton box for mailing.**
2. **Enclose a written statement detailing the exact nature of the service needed. Be sure to include the RGA number, your name, address, plus daytime and evening telephone numbers.**
3. **Enclose $10.00 to cover handling and return-shipping, by check or money order payable to "Meade Instruments." Non-warranty repairs may entail additional charges which will be confirmed with you before any binocular/digital camera repairs are initiated.**
4. **Insure the package and send your binocular/digital camera, freight prepaid, to:**

**Meade Instruments Corporation,**
**Attn: Binocular/Digital Camera Repair**
**6001 Oak Canyon, Irvine, California 92618**

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*ADVANCED PRODUCTS DIVISION*

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