⊙Smart 350

User's Guide

⊙Smart 350
Mustek Digital Camera

Mustek ®
www.mustek.com.tw

Copyright Information

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and if it is not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

82-080-00030

GSmart 350 Digital Still Camera

User's Guide

Are you ready?

Please make sure your package has all the following items:

- GSmart 350 camera
- 3 AA batteries
- USB connection cable
- 2 CDs (1 installation/ 1 application)
- Camera strap
- User's Guide

Power On your Camera (Batteries or USB)

- Battery Installation:
1. Press the release button at the bottom of the camera and swing open the front cover.
2. Pull up the battery strip to release the batteries.
3. Insert the batteries as indicated by the (+/-) marks in the battery compartment.
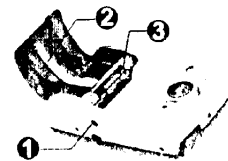
☞ The battery ▢ icon indicates low batteries.

- USB:

    To save battery power, you can review your images while your camera is linked with a computer via the USB cable.

☞ Before linking with computer, install software to avoid "unknown device" message.

Using a CompactFlash™ (CF) Memory Card (optional)

1. Turn off the camera and open the CF Card panel.
2. Slide the CF card into the slot to activate.
3. To remove: Push the Eject button (located on the bottom of the card slot).

☞ CF Card acts as primary memory if inserted in the camera. You will be unable to save images to the camera's internal memory while card is inserted.

Camera Features

Before capturing images, please familiarize yourself with the following features.

1. Lens Adjuster: Rotates to adjust Micro Display to your eyesight.
2. Micro Display Viewfinder: Allows view of subject and review of image.
3. *PWR* button: Powers the camera on/off.
4. *Up/Down Arrow* keys: Navigate On-Screen Display (OSD).
5. *SEL(Select)* button: Confirms the selection.
6. *Shutter* button: Captures the image/movie.
7. CF Card Panel: Slides back to open CF card slot.
8. Battery button: Pushes in to open front battery cover.
9. LED Indicator: Glows when power is on.
10.USB port: Provides connection to computer/power.
11.Lens: Allows fixed focus.
12.Flash: Provides lighting in low-light environments. (⚡ indicates flash recharging.)
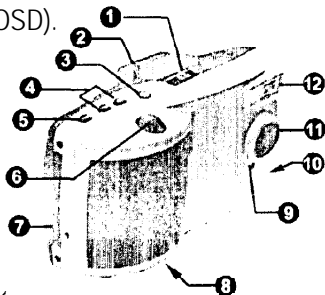
Capturing Image(s) and Short Movie(s)

Capturing Image(s)

1. Position the subject in the viewfinder.
2. Gently press the Shutter button, holding the camera steady to obtain crisp image.
3. After image capture, BUSY ⌛ icon flashes while the camera processes image.
   Once this message disappears, you may capture another image or Review.

☞ **Press the Arrow keys to change the exposure.**

Capturing a Short Movie

1. Press *SEL* button to Select **MOVIE** from the OSD; **MOVIE ON** flashes on screen,
2. Hold down *Shutter* button (camcorder icon 🎥 appears). Release *Shutter* **to** end.

☞ Camera must have **at least 400 KB available memory to select OSD MOVIE menu item.**

Reviewing Image(s) or Movie(s)

Reviewing Images on the Camera

1. Power on the camera and press the *SEL* button for the Main Menu.
2. Press the *SEL* button on REVIEW.
3. Use the Arrow keys to scroll through the options and press the *SEL* button to choose one of 4 functions. Now you may View or Delete images as you like. Please follow the OSD explanation summary **below** for more information.

☞ **Press the Shutter button to return to image capture.**

Reviewing a Captured Movie on Windows 98 or the Mac

1. First download your movie file with the transfer button on the Viewer application bundled with your camera's software.
2. Use Apple's QuickTime™ to open and play your movie.

☞ **User is unable to review movies on the camera.**

Summary of Camera's On-Screen Display (OSD)

Use Select (SEL) button to access 6 categories of OSD boxes on Micro Display.

```
   MAIN MENU
   REVIEW
   RECORD
   TIMER
   MOVIE
   INFO
   SETUP
   ESC
```
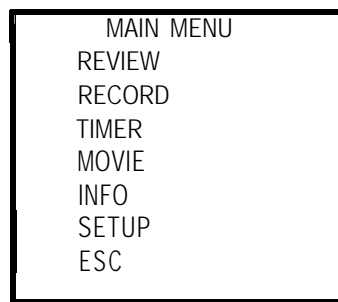
MAIN MENU: Lists topics of 6 main categories.

REVIEW: Review/Delete images in memory.
RECORD: Change camera settings for image capturing.
TIMER: Select to activate self-timer image capture function.
MOVIE: Select to activate movie capture function.
INFO: Indicates camera status.
SETUP: Allows for advanced camera functions.
ESC: Returns user to image capture.

☞ **Use *Arrow* keys and *SEL* button to navigate the OSD; use *Shutter* button for a quick exit.**

```
      REVIEW
 FULL SCREEN
 THUMBNAIL
 DIRECTORY
 SLIDE SHOW
 DELETE ALL
 ESC
```

FULL SCREEN: Allows review and deletion of single images.
THUMBNAIL: Allows 4 image review and image deletion.
DIRECTORY: Lists fixed file names of images in memory.
SLIDE SHOW: Review a slide show of images in memory.
DELETE ALL: Allows user to delete all images in memory.
ESG: Exit to MAIN MENU.

```
      RECORD
 FLASH        OFF
 EXP.         AUTO
 RES.         640x480
 QUALITY  STANDARD
 ZOOM       X1
 SAVE
 ESC
```

FLASH: Select: AUTO or OFF.
☞ **Connection with the USB line disables flash.**
EXP.: Select exposure as AUTO or choose: (-2 to t2), +/- .5
RES.: Select from 2 image resolutions: (640x480, 320x240).
QUALITY:Select either **HIGH** or **STANDARD.**
☞ **HIGH utilizes more memory than STANDARD.**
ZOOM: Select X2 for closeup capture; XI is normal capture.
☞ **X2 icon indicates camera is capturing closeup images.**
SAVE: Select SAVE to activate changes.
ESG: Exit to MAIN MENU without saving changes,

The TIMER menu item allows you to direct the camera to wait 10 seconds before you capture an image (setting the self-timer).

1. Select **TIMER** and the TIMER ON message flashes on the screen.
2. Next press the Shutter button to activate 10 second countdown, **TIMER ACTIVE** appears.
3. After the image is captured, press ?he Shutter button once more to capture more images.
☞ **After the** *Shutter* **is pressed, the user has a total of 10 seconds before the image is captured (7 second slow LED flash plus a final 3 second quick flash).**

The MOVIE menu item allows you to capture video files with your camera.
1 .Once you have selected the MOVIE menu item from the OSD with the *SEL* button, simply press and hold Shutter button to **capture.** Then release the Shutter button to end.

```
       INFO
 BATTERY      FULL
 VERSION   1   .0
 MEMORY
      USED ---KB
      FREE ---KB
      SIZE  ---KB
 ESC
```

BATTERY: Indicates either FULL or LOW for power status.
VERSION: Indicates model version (useful for future firmware upgrades).
MEMORY: Indicates current memory (CF card OR internal).
USED: Occupied memory space.
FREE: Available memory space.
SIZE: Total memory capability of the camera.
ESG: Exit to MAIN MENU.

```
       SETUP
 TIMEOUT 60 SEC
 RESTORE DEFAULTS
 LANG.        ENG
 SAVE
 ESC

 FORMAT CARD
```

TIME OUT: Select auto power off for 30/60/90/None(Seconds)
RESTORE DEFAULTS: Restore factory settings.
LANG.: Change language settings.
SAVE: Select SAVE to activate changes.
ESG: Exit to MAIN MENU without saving changes.

FORMAT CARD: Reformat CF card to delete all CF Card data and re-initialize the directory structure.

Software Installation for Windows 98
1. Insert the installation CD into your CD-ROM drive.
2. Click on **Start** and select Run.
3. In the Run **dialog** box, type *drive:\run.exe* where drive is the location of your CD-ROM drive.
4. Follow on-screen instructions to install driver and included imaging software.
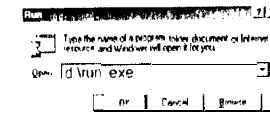
Software Installation for the Mac

1. Insert the installation CD into your CD-ROM drive.
2. Wait for the GSmart 350 **CD** icon to appear on your desktop.
3. Double-click on the **CD** icon to open the folder.
4. Double-click on the **Installer** icon.
5. Continue to follow all on-screen instructions for installation,

Installer

## Getting Connected with the PC and the Mac

1. Power off the camera and plug one end of the USB cable into the
   appropriate port at the back of your computer and the other end
   into the camera's USB port.
2. Turn on the camera.
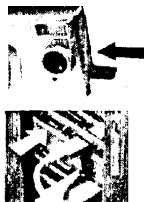
Acquiring the TWAIN driver for Windows 98

☞ **TWAIN is the industry standard protocol that allows external image devices to communi-
cate with your imaging software.**

1. Launch the TWAIN-compliant program (e.g. Photo Express).
2. Select **Digital Camera** from the File menu, **OR** Click the **Camera** icon.
3. The Select data source box appears. Choose **Mustek GSmart 350**
   and click the **Acquire** button.
4. The Viewer's main window appears and you can select the source
   of your images (camera or CF card reader).
5. Now you may transfer camera images directly into Photo Express for viewing/
   editing OR save images directly to disk.
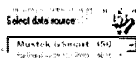
Application for the Mac

The Installer will install the software in the Mustek GSmart 350 folder.
1. Find **GSmart 350 Viewer** icon in the Mustek GSmart 350 folder and double click.
2. The Viewer's main window appears and automatically loads your captured images.
3. Follow the instructions for transferring images in the section **below.**

How to transfer your images for Windows 98 and the Mac

For Windows 98 users the user can also acquire the Viewer by clicking the
GSmart 350 **Viewer** icon from the Windows' Programs group.
1. Once connected to the computer, follow the steps **above to** acquire the Viewer.
2. **After** connecting the camera, open the Viewer and your images load automatically.
3. **To** transfer images to the computer:

- Click on the thumbnail(s) you want, then click the **Transfer** icon or double-click
  the thumbnail for quick transfer.

OR

- Click the **Select All** icon, then click the **Transfer** icon.

Video Conference and Capture Applications (Windows 98 only)

- **Open your video conference** program (e.g. Microsoft's NetMeeting™) after
  powering on camera to see your conferencing partner.

- **Capture AVI files** through the camera's **Amcap©** video capture program.
  1. Power on camera then click the **Amcap© icon** in the Windows' Program group.
  2. Select **File** to set a file in which to save your video and select **Capture** to **Start**
     capturing video.

Using the Viewer to manage your images

The Viewer contains several functions as detailed below. See the on-line help for more details.

Features and Functions:

1. Download: Selects source of images'/movies' download.

2. Total Memory: Represents megabytes (MB) of memory for all images/movies.

3. Select All: Selects all images/movies.

4. Delete: Deletes selected images/movies.

5. Image Count: Represents total number of images/movies in ?he Viewer,

6. Delete All: Causes the Viewer to delete all images/movies.

7. Print: Offers 3 print options:: all, selected, or single (Windows 98 only).

8. Save to: Allows save of images/movies to disk or to an application (Windows 98 only).

9. Transfer: Transfers images/movies to a specific directory **(First mark images).**

10. File Transfer: Total number of images/movies to be transferred,

11 .**Page** Down: Takes user to next page of images/movies.

☞ For further explanation of the Viewer functions, please see the tutorial and on-line help.
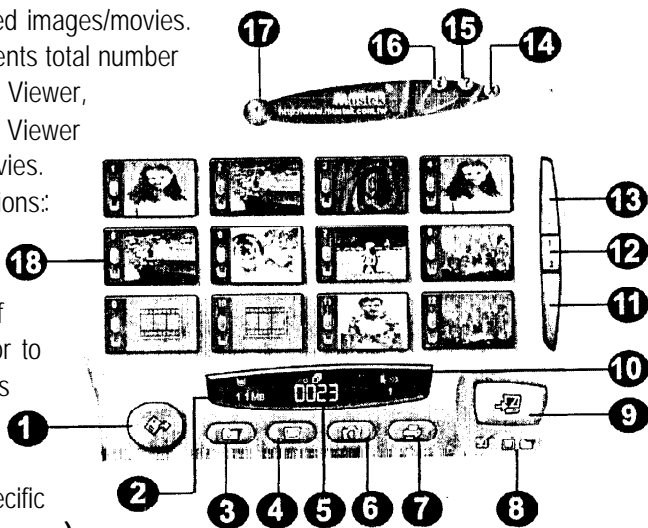
12. GoTo: Quick access to specified page of images/movies.

13. Page Up: Takes user to previous page of images/movies.

14. Exit: Allows user to exit Viewer.

15. Help: Lists help version information (Windows 98 only).

16. Product Information: Lists camera version number.

17. Web Link: Links user to the Web page (Windows 98 only).

18. Mark: Flags individual images/movies for selection.

Specifications

CCD	1/3 inch 31 OK pixels HP CMOS sensor
Dual-function	Digital camera/USB PC camera
Micro Display LCD	320 x 240, 24 bit color
Image resolution	640 x 480; 320 x 240
Memory	Internal memory; capacity of up to 12 images (Standard resolution) CompactFlash™ (CF) card interface, (CF card optional)
Computer Interface	USB
Digital Zoom	x 2
Flash	Au to/Off
Self-timer	10 second delay
White Balance	Automatic
Exposure	Automatic with 9 selectable Exposure Values (EV)
Shutter Speed	1/5 to 1/2000 second
Compression	Standard JPG file; YUV (4:1:1)
Focus Range	50cm (approx. 20") to infinity
Aperture	Fixed lens F/2.0
Lens Field of view	55 degrees
Battery	3 AA 1.5V alkaline
Dimensions	11.8 x 5.3 x 6.9 cm (4.6" x 2.1" x 2.7")
Weight	170 grams (5.6oz) (without batteries)

Helpful Hints

	Issue	Cause	Solution
Power	No power.	1. Batteries not loaded correctly. 2. Dead batteries.	1. Re-Install batteries. 2. Replace batteries.
	Sudden power failure.	1. Low battery power. 2. Auto Power Off function engaged.	1. Replace batteries. 2. Turn Power On.
Capture Images	No capture when shutter is depressed.	1. Camera not in View mode. 2. BUSY icon appears. 3. Memory is full. 4. Flash is charging.	1. Set camera to View mode. 2. Wait for camera to re-adjust. 3. Delete images in camera's memory. 4. Wait for flash icon to stop blinking on OSD.
	Flash does not work,	1. Flash is set to OFF. 2. USB is connected to the camera. 3. Environment is bright enough.	1. Set flash to AUTO in RECORD of OSD. 2. Disconnect the USB cable. 3. Continue capturing images.
	image is too bright Or too dark	1. Exposure(EXP) setting is unsuitable.	1. Adjust EXP(exposure) setting while capturing images with up/down arrows Or change EXP setting in RECORD category of OSD.
USB	Device not ready Or Connection failure.	1. Camera is not powered on. 2. USB not connected properly. 3. USB data transfer error. 4. Hardware compatibility problem. 5. Insufficient USB power	1. Power on the camera. 2. Ensure USE cable is connected. 3. Unplug and reconnect the USB cable. 4. Contact your computer vendor for help. 5. Ensure USB connects directly to computer host port, NOT keyboard or other port.
Transfer	Cannot transfer data.	1 Incorrect cable connection. 2. Camera is not turned on.	1. Reconnect the cables. 2. Turn on the camera.
Delete	CF Card error.	1. CF Card may not be formatted.	1. Format card through the OSD function. Note: You will delete all data on the CF Card if you reformat your CF Card.