

FCC STATEMENT

This DVR-390H complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This DVR-390H may not cause harmful interference, and
- (2) This DVR-390H must accept any interference received, including interference that may cause undesired operation

Note:

This equipment has been tested and found to comply with the limits for Class B digital DVR-390Hs, 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 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 separation between the equipment and 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.

Use of shielded cable is required to comply with Class B limits in Subpart B of Part 15 of the FCC rules. Do not make any changes or modifications to the equipment unless otherwise specified in the manual. If such changes or modifications should be made, you could be required to stop operation of the equipment.

Safety Precautions

- ▲ Do not expose the DVR-390H to moisture and make sure no water gets inside the DVR-390H.
- ▲ Do not touch the power plug during a thunderstorm if you are using the AC power adapter. This may cause an electrical shock.
- ▲ Do not use the DVR-390H if any foreign objects have entered into it.
- ▲ Do not place the DVR-390H in an unstable location such as on a wobbly table or sloping surface.
- ▲ Do not insert or drop metallic or other foreign objects into the DVR-390H through access points such as the SD memory card slot.
- ▲ Do not attempt to modify the DVR-390H.
- ▲ Never operate the DVR-390H in any way while driving a vehicle.
- ▲ Do not cover or wrap the DVR-390H or the AC power adapter with a cloth or quilt. Always use the DVR-390H and its accessories in well-ventilated locations.
- ▲ Handle the DVR-390H carefully and do not bump the DVR-390H into any hard object.
- ▲ If you are using the AC power adapter, unplug the adapter from the AC power outlet after you have switched it off. Ensure that any connector cords or cables to other devices are disconnected before moving the DVR-390H.
- ▲ When leaving the DVR-390H unused for long periods, such as during a vacation, always unplug the DVR-390H from the power source (batteries or AC power adapter) for safety.
- ▲ **WARNING:** Handling the USB and AV cables on this product may exposure you to lead, a chemical known to the State of California to cause birth defects or other reproductive harm. ***Wash hands after handling.***

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INTRODUCTION

Overview

Congratulations on purchasing the DVR-390H Digital Multimedia Player! With this device, you will be able to capture still images, record live-video, record live-audio, and record and encode your favorite videos directly from a VCR, DVD player, or your traditional camcorder. Then you can playback your videos, still images, audio files, and also MP3 files anytime, anywhere.

Cool features provided by the DVR-390H include:

Features	Benefits
3.6" LCD Monitor	Allows you to comfortably view still images and videos as well as adjust the settings of your DVR-390H.
Built-in 20GB HDD	A 20 GB hard disk drive allows you store a large number of videos, images, audio files, and even MP3 files. You may also use the HDD to store unrelated data and computer files.
MP3/Audio Player	Allows you to play back MP3 music or audio files using the built-in speaker, external earphones, or headphones.
Voice Recorder	Allows you to record voice using a microphone.
Docking Cradle	With the DVR-390H in its cradle, you can enjoy watching your videos and slide shows. In addition, the cradle allows you to playback your images and videos on a TV monitor screen, or record from your TV or video player using the AV cable.
Swivel Camera Module (Optional Accessory)	With its 270-degree swivel Camera, you will enjoy the ultimate freedom of capturing images and recording video clips. The three megapixel digital camera is capable of capturing still images with resolution up to 2048 x 1536.

Common Package Contents

Carefully unpack your DVR-390H and ensure that you have the following items:

- Media player
- Docking Cradle
- AV cable
- USB cable
- Earphone and earphone cable
- Microphone
- User's manual
- Software CD-ROM
- Hand strap
- Pouch
- Tripod stand

Optional Accessories:


- SD memory card
- Camera Module
- AC power adapter/charger
- Rechargeable lithium-ion battery

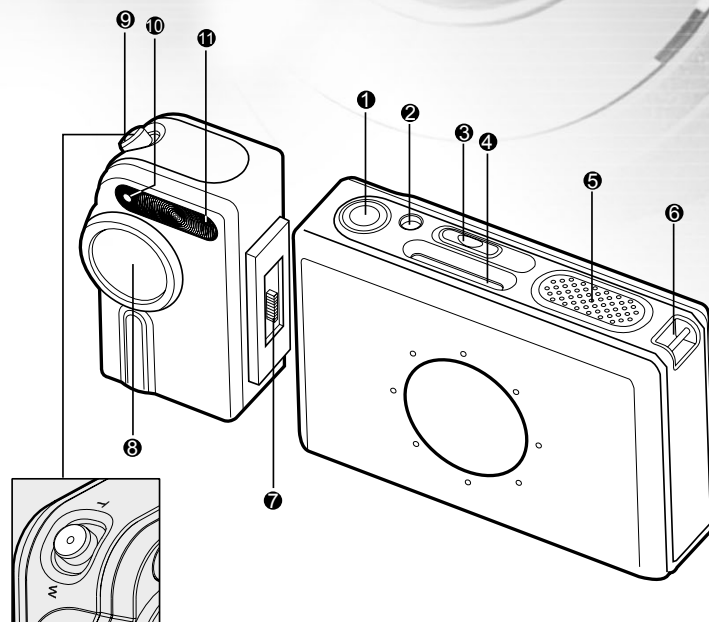
Note:

- The components and accessories that come with your DVR-390H may be different from those described in this manual. This is due to the fact that different retailers often specify slightly different product inclusions and accessories to suit their market requirements, customer demographics, and geographical preferences. Products will often vary between retailers especially with accessories such as batteries, chargers, AC adapters, memory cards, cables, carrying cases/pouches, and language support. Occasionally a retailer will specify a unique product color, appearance, and internal memory capacity. Contact your dealer for precise product definition and included accessories.









GETTING TO KNOW YOUR DVR-390H

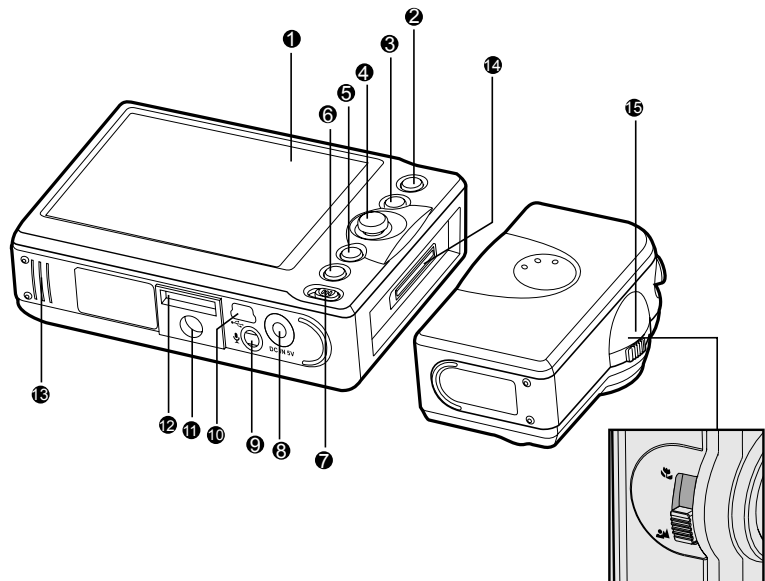
Front View of Media Player and Camera Module

1.  Power button
2. Headphone jack (standard 3.5 mm)
3. **VOL** (Volume) button
 - + Volume up
 - Volume down
4. Secure Digital (SD) memory card slot
5. Integral Speaker
6. Hand-strap eyelet
7. Camera Module interface
8. Camera Lens
9. Shutter button and Digital zoom control
 - T** Telephoto (Zoom in)
 - W** Wide-angle (Zoom out)
10. Self-timer LED
11. Integral Flash



Rear View of Media Player and Camera Module

1. LCD monitor
2.  Display button
3.  Menu button
4. Multi-selector control
5.  Play/Pause button
6.  Delete/Back button
7. Camera Module release tab
8. **DC IN 5V** terminal
9.  MIC LINE-IN jack
10.  USB port (B-mini)
11. Tripod socket
12. Cradle connector
13. Battery cover door
14. Camera Module interface
15. Lens focus control
 -  Normal focus
 -  Macro (close-up focus)

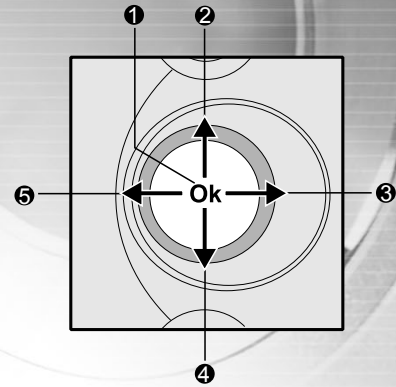


Multi-Selector Button

The multi-selector button acts in two ways. Some operations require that you press straight down on the center of the button. Other functions require that you toggle it like a joystick or game controller. The controller operations (up, down, left, and right) are called “keys” and are referred to as: Up key, Down key, Ok key, etc.

Whenever an instruction says “Press Ok” you should depress the multi-selector button in the center of the button without shifting it left, right, up, or down.

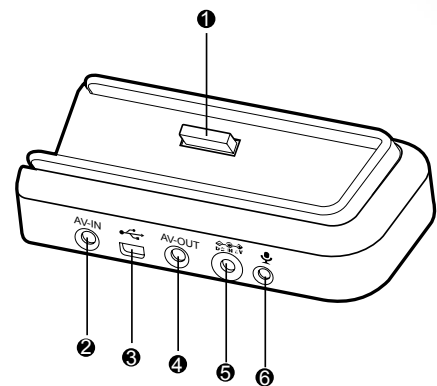
#	Function	Operation
1.	Ok/Stop/Digital zoom key	Press down
2.	Up/Flash key	Press (shift) upward
3.	Right key	Press (shift) rightward
4.	Down/Self-timer key	Press (shift) downward
5.	Left key	Press (shift) leftward



Top View of Docking Cradle

The cradle serves two distinct purposes. First, it acts as a holder for the player. The cradle positions the player for comfortable desktop viewing of a slideshow or video presentation. Secondly, the cradle accommodates the wiring for video-in, video out, power, and USB connections.












1. Cradle connector to Player Body
2. **AV-IN** (Audio/Video In) jack
3. USB port
4. **AV-OUT** (Audio/Video Out) jack
5. **DC IN 5V** terminal
6. MIC LINE-IN jack

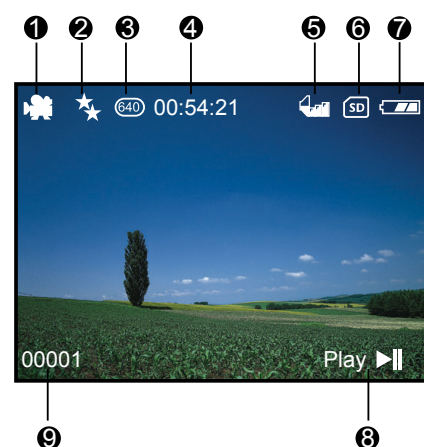


LCD Monitor Icons





The DVR-390H display presents information about player functionality and your multi-media content. Two rows of icons and on-screen text messages will provide you with useful information. The display icons and their meanings will change depending upon how you are using the player. The following sections explain the various icons and text messages.

Video Playback

1.  Video mode icon
2. Video quality
 - ★ Super fine
 - ★ Fine
 - ★ Normal
3. Video resolution
 - ④ 640 x 480
 - ③ 320 x 240
4. Duration of current video
5. Sound level (speaker volume)
 -  Low volume
 -  Mild volume
 -  Medium volume
 -  High volume
 -  Fully volume
 -  Mute (no sound)
6. SD Memory Card indicator (if a card is present)
7. Battery power indicator
 -  Full battery power
 -  Medium battery power
 -  Low battery power
 -  Virtually no battery power
8. Play/Pause indicator
9. Video File number





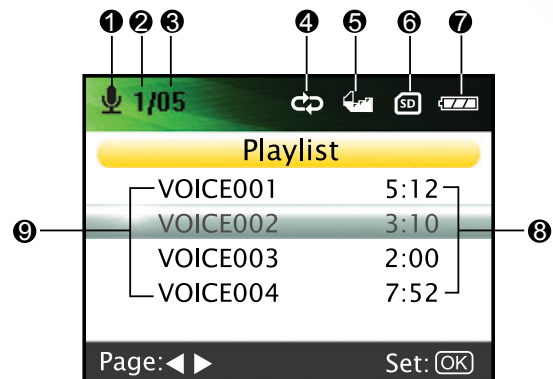
Still Image Playback

1.  Still image mode icon
2. Image quality
 - ☆ Super fine
 - ★ Fine
 - ★ Normal
3. Image resolution
 -  2048 x 1536 (Native 3 MP)
 -  1600 x 1200
 -  1280 x 960
4. SD Memory Card indicator (if a card is present)
5. Battery power indicator
6. Image File number
7. File Folder number




Audio and MP3 Playback


1.  Audio/MP3 mode icons
2. File (or song) number
3. Total number of files or songs
4.  Repeat/Repeat all indicator
5. Sound level (speaker volume)
6. SD Memory Card indicator (if a card is present)
7. Battery power indicator
8. Duration of song or sound file (minutes: seconds)
9. Audio File name



Video Recording

1.  Video mode icon
2. Video quality
3. Video resolution
4. Available recording time
5. SD Memory Card indicator (if a card is present)
6. Battery power indicator
7. Digital Zoom status
8. EV compensation (icon present only when selected)
9. White balance (default no icon, only when selected)
Automatic (no icon presented)

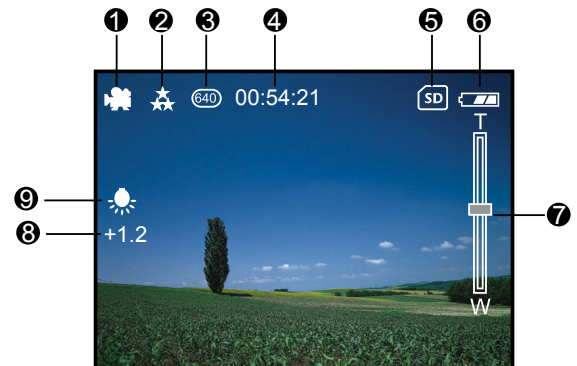
 Daylight

 Shade

 Fluorescent-1










 Fluorescent-2

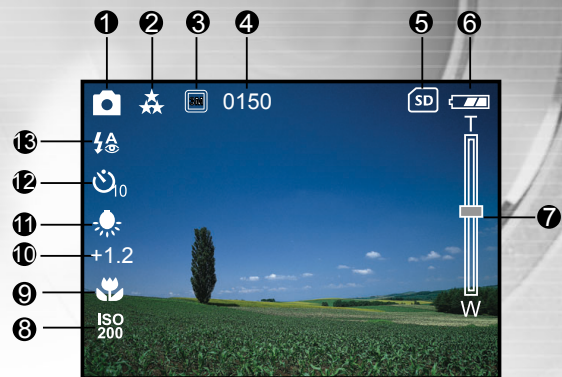
 Lamp



In this mode your DVR-390H may be used as a solid-state (tape less) camcorder. Your videos will be stored to the internal hard drive, or memory card, if present. Much like a traditional camcorder your videos (with audio) can be recorded and played back at a later time. Unlike a traditional camcorder, however, your videos will be stored in full digital format as ASF video files using MPEG4 compression.


Still Image Capture

1.  Still image icon
2. Image quality
3. Image resolution
4. Available number of shots
5. SD Memory Card indicator (if a card is present)
6. Battery power indicator
7. Digital Zoom status
8. ISO sensitivity
 - Automatic (no icon presented)
 -  ISO100
 -  ISO200
 -  ISO400
9. Lens focus setting
 - Normal (no icon presented)
 -  Macro (close focus)
10. EV compensation (icon present only when selected)
11. White balance setting
12.  Self-timer indicator (if used)
13. Flash mode
 -  Red-eye reduction
 -  Flash off
 -  Automatic flash

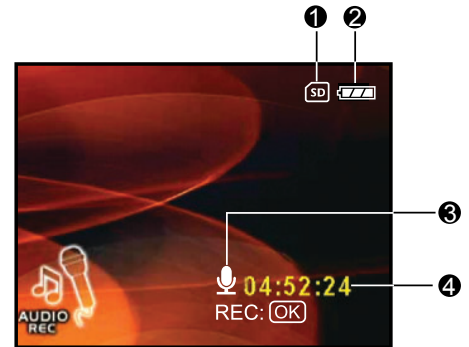


In this mode your DVR-390H may be used as a three megapixel digital camera. Your images will be stored to the internal hard drive, or memory card, if present. Your images will be saved to memory in the common JPG format for play back at a later time.


Audio Recording

1. SD Memory Card indicator (if a card is present)
2. Battery power indicator
3.  Audio mode icon
4. Available recording time

In this mode your DVR-390H may be used as a solid-state (tape less) voice (or sound) recorder. Your sound recordings will be stored to the internal hard drive, or memory card, if present. Much like a traditional tape recorder your sound files can be recorded and played back at a later time. Unlike a traditional tape recorder, however, your sounds will be stored in full digital format as ASF files.

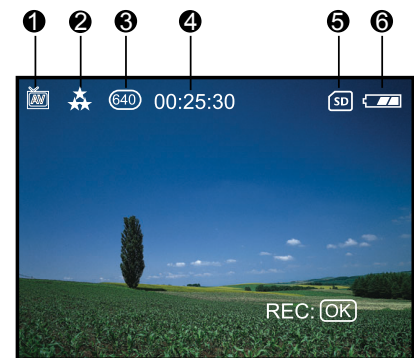


Audio Video (Line input) Recording

1.  AV-IN mode (icon)
2. Video quality
3. Video resolution
4. Available recording time
5. SD Memory Card indicator (if a card is present)
6. Battery power indicator

In this mode your DVR-390H may be used as a solid-state (tape less) video recorder - from a video source. (Think of it as a VCR – without tapes.) Your video recordings will be stored to the internal hard drive, or memory card, if present. Much like a traditional VHS recorder your videos can be recorded and played back at a later time.

Unlike a traditional VCR, however, your videos will be stored in full digital format as ASF files using MPEG4 compression. The video source may be a VCR or DVD player, a traditional camcorder, or a TV signal passed through a monitor. The video signal will be input to the DVR-390H using the “AV-IN” jack on the docking cradle.

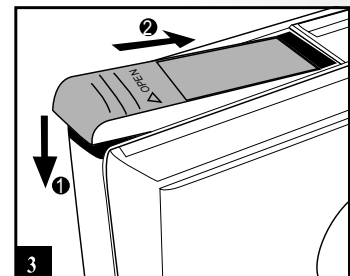
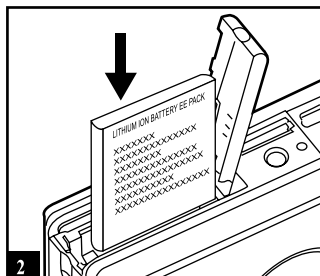
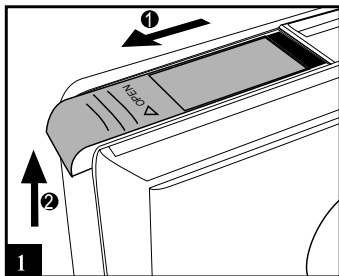


GETTING STARTED

Installing the Battery (Optional Accessory)

We highly recommend using specified rechargeable lithium-ion battery to realize the full capability of your DVR-390H. Charge the battery before initial use in the DVR-390H. Make sure that the power of the DVR-390H is off before inserting or removing the battery.

1. Slide the battery cover in the direction of the [OPEN] arrow.
2. Insert the battery in the correct orientation, as shown.
3. Close the battery cover.



Note:

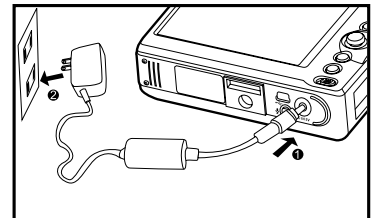
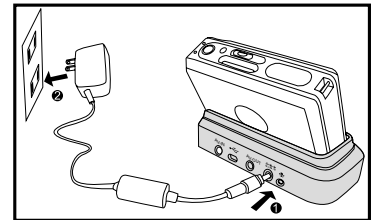
- If you are not going to use the battery for an extended period of time, remove it from the DVR-390H to prevent leakage or corrosion.
- Avoid using the battery in extremely cold environments as low temperatures will shorten the battery life and reduce the DVR-390H performance.

Charging the Battery

The state-of-charge of the battery will affect the performance of the DVR-390H. To maximize battery performance and lifetime, it is recommended that you fully charge the battery and then fully discharge it (through normal use) at least one time. The DVR-390H battery is charged while it is inside the player. Charge the battery by using the optional AC power adapter.

Please note that the DVR-390H must be powered off before charging the battery. Otherwise, the battery will not be charged, and the power will be provided only to the DVR-390H.

1. Place the media player on the cradle. Plug the AC power adapter into the "DC IN 5V" terminal on the back of the cradle.
 - If you are not using the cradle, you may plug the AC power adapter directly to the "DC IN 5V" terminal of the media player.
2. Insert the other end of the AC power adapter into a wall outlet.
 - It is recommended that the battery be fully discharged before being recharged.
 - Charging time varies according to the ambient temperature and the status of battery.



Note:

- The DVR-390H must be used with the specified AC power adapter. Damage caused by the use of an incorrect adapter is not covered under the warranty.
- Always make sure that the DVR-390H is off before removing the battery.
- The battery may feel warm after it has been charged or immediately after being used. This is normal and not a malfunction.
- When using the DVR-390H in cold environments, keep the DVR-390H and its battery warm by holding it inside your jacket or other warm protective environment.
- If you remove the battery, you must insert the (charged) battery within two hours in order to make sure that the date and time will not be reset.

Using an AC Power Adapter

Using an AC power adapter prevents the DVR-390H from automatically powering off while transferring video clips/images to your computer or recording video clips from a video source.

Note also the steps in the preceding section “Charging the Battery”.

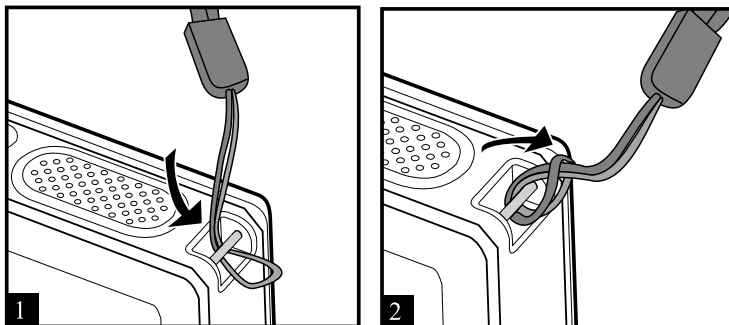
Note:

- Make sure to use only the AC power adapter specified for the DVR-390H. Damage caused by the use of an incorrect adapter is not covered under the warranty.

Attaching the Hand Strap

To prevent the accidental dropping of your media player, attach and use the hand strap.

Follow the illustration shown below.

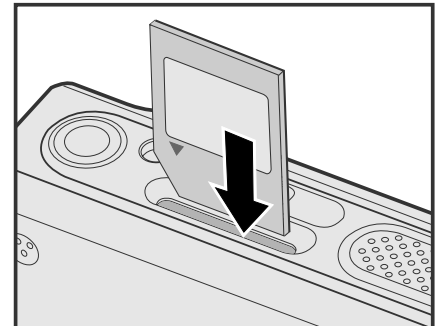


Inserting and Removing an SD Memory Card (Optional Accessory)

The DVR-390H comes with 20 GB of internal memory, allowing you to store a considerable number of images, videos, and audio files. You may expand the memory capacity and enjoy the convenience of added data portability by using an optional SD (Secure Digital) memory card. This allows you to store additional files and share them easily with other electronic devices you may already own.

Inserting an SD memory card

1. Always make sure the DVR-390H is turned off before inserting or removing a memory card.
2. Insert an SD memory card in the correct orientation as shown.
 - Insert an SD memory card (contact pins first) with the pin-side of the SD card facing the LCD display side of the DVR-390H. Insert the card as far as it can go. You will hear and feel it click into place.



Note:

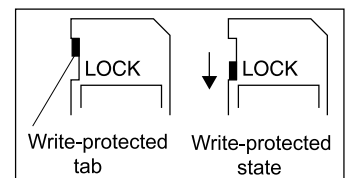
- When an SD memory card is inserted, the SD memory card has the first priority. All data will be saved or read only to/from the SD memory card.

Removing an SD memory card

Make sure the DVR-390H is turned off. Press lightly on the edge of the memory card and it will eject.

Note:

- To prevent valuable data from being accidentally erased from an SD memory card you can slide the write protect tab (on the side of the SD memory card) to "LOCK".
- To save, edit, or erase data on an SD memory card, you must unlock the card. You will not be able to store data (images, videos, etc) on a locked (protected) memory card.



Attaching and Removing the Camera Module (Optional Accessory)

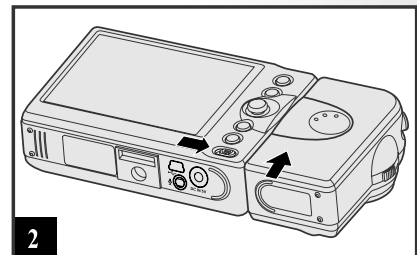
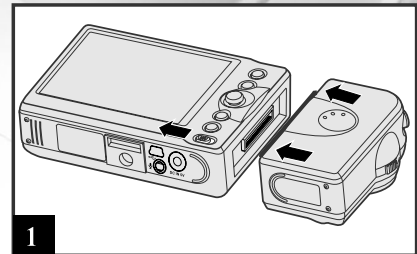
You can capture an image or record video clips by using the camera module.

Note: The DVR-390H must be powered off before attaching or removing the camera module, otherwise, the DVR-390H will automatically shut down.

Attaching the Camera Module

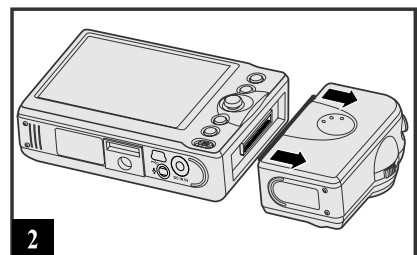
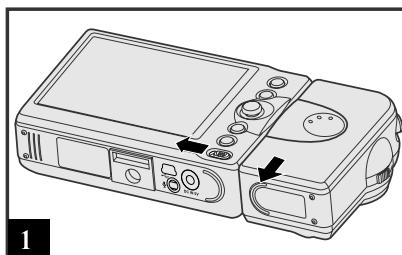
First, note the six small guide rails on the player body and corresponding notches in the camera module swivel connector.

1. Insert the lower corner of camera module swivel connector into the camera receptacle on the media player.
2. Note how the release tab (slide button) on the player body begins to retract.
3. Seat the camera fully into the player receptacle.
4. Slide the camera module upwards slightly until the release tab clicks and returns to its locked position.



Removing the Camera Module

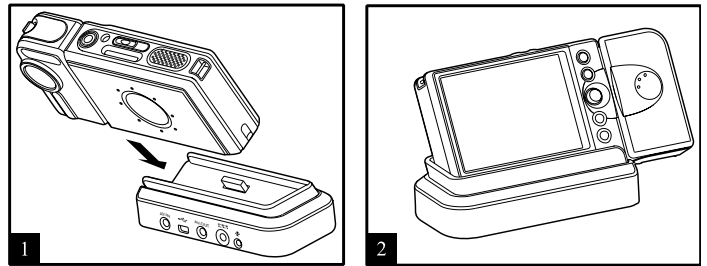
1. Slide the camera release tab to the left end and hold it there.
2. Push the camera module downward slightly, and then remove the camera module from the media player body.



Docking Cradle

With the docking cradle, you can position your DVR-390H and play back your images and video clips on your desktop. You may also use the cradle or connect to other media devices to play back (output to a TV monitor or another recorder recording device, for example) or record (input from a video source such as a DVD player, for example). In conjunction with an AC adapter the cradle will facilitate the charging of the DVR-390H battery.

1. Position media player on the cradle.
2. Match the docking connectors and carefully insert the media player until it fits in place.



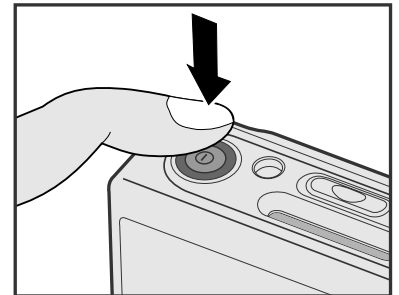
Turning the Power On/Off

Load the battery or connect the AC power adapter to your DVR-390H.

- Press the **Power** button to turn on your DVR-390H.
- To turn off your DVR-390H, press again the **Power** button and hold about 2 seconds.
- You can also select **POWER OFF** mode to turn off your DVR-390H.

Note:

- The power is turned off automatically when the DVR-390H has not been operated for a defined period time. To resume the operation condition, turn the power on again. Refer to section in this manual titled "Power off" in the System Menu for further details.
- Whenever the DVR-390H is turned on with the camera module present, it may take several additional seconds to charge the flash capacitor.



Choosing the Display Language

When first turning the DVR-390H on, the Language setting screen will automatically appear, letting you choose a language for information displayed on the LCD monitor.

- Select the desired language using the **Up/Down** keys and press the **Ok** key to confirm.




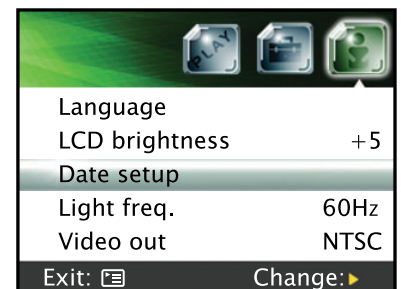
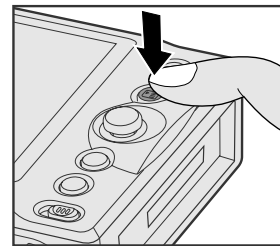
Setting the Date and Time

The date and time setting screen will automatically appear if/when:

- The DVR-390H is turned on for the first time.
- The DVR-390H is turned on after leaving the DVR-390H without the battery for an extended period of time. (Typically, more than two hours.)


Changing the date and time setting

1. Turn on your DVR-390H.
2. Use the **Up/Down/Left/Right** keys to select any mode. Press the **Ok** key to enter that mode.
3. Press the  Menu button.
 - The **Menu** screen is displayed.
4. Move to **Custom** menu by using the **Left/Right** keys.
5. Select **Date setup** with the **Up/Down** keys, and use the **Right** key to enter its setup menu.
 - The **Date setup** screen is displayed.
6. Select the item's field with the **Left/Right** keys and adjust the value for the date and time with the **Up/Down** keys.
7. After confirming all settings are correct, press the **Ok** key.



Entering the Main Menu

After turning on the DVR-390H, the Main Menu screen appears, letting you select the desired mode by using the **Left/Right/Up/Down** keys, and enter the one you've selected by using the **Ok** key.


- For returning to **Main Menu** from each mode, press the  Menu button and hold about 2 seconds (long key).

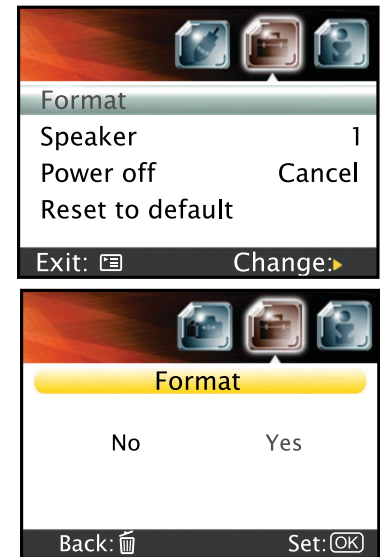


Formatting Internal Memory or an SD Memory Card

Formatting erases all images, videos, sound, MP3 files and folders that are stored on the SD memory card or internal memory. All data in memory (even data not associated with the DVR-390H) will be deleted after formatting. Formatting is not possible if an SD memory card is locked.

Important Note: The DVR-390H assigns preference to SD card memory. Whenever an SD memory card is inserted the DVR-390H will automatically begin to use the SD card instead of internal memory. An SD memory card is not only assigned “first priority” but also exclusivity. Access to internal memory is not available when an SD card is used. If it appears that you cannot find your images and songs, try removing the SD card to again be able to “see” the internal memory. Only when the SD memory card is removed will internal memory be accessible.

1. Turn on your DVR-390H.
2. Use the **Up/Down/Left/Right** keys to select any mode. Press the **Ok** key to enter that mode.
3. Press the  Menu button.
 - The **Menu** screen is displayed.
4. Move to **System** menu using the **Left/Right** keys.
5. Select **Format** with the **Up/Down** keys, and use the **Right** key to enter its setup menu.
 - The **Format** setup screen is displayed.
6. Select **Yes** with the **Left/Right** keys. Press the **Ok** key to confirm.
 - To cancel formatting, select **No**.





Note:

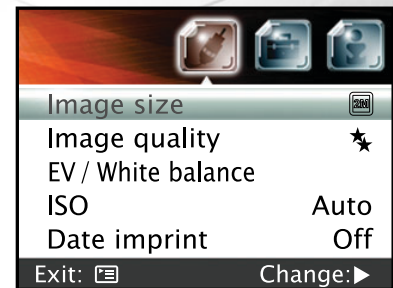
- You should format an SD memory card before using it for the first time and occasionally thereafter.
- Formatting will also erase protected images as all data is erased. Before formatting, make sure that all data is unnecessary.
- Formatting is an irreversible action and data cannot be recovered at a later time.

Setting Image and Video Resolution and Quality

Resolution and quality settings determine the file size and compression ratio for your images and videos. These settings affect the number of images and videos that can be stored in memory, or on a memory card. High resolution and quality settings are recommended for printed output and situations requiring the finest detail. Lower resolution/quality images and videos take up less memory space and may be quite suitable for sharing images via e-mail, in a report, or on a web page.

To change image/video resolution or quality, perform these steps:

1. Turn on your DVR-390H.
2. Use the **Up/Down/Left/Right** keys to select "**VIDEO REC**" or "**IMAGE REC**". Press the **Ok** key to enter the desired mode.
3. Press the  Menu button.
4. Navigate to the Image Size (or Video Size) menu using the **Left/Right** keys.
5. Use the **Right** key to view the resolution choices.
6. Select the desired resolution with the **Up/Down** keys, and press the **Ok** key to confirm.
7. Press the  Menu button to exit the **Menu** screen.



Note:

- At the bottom of each screen there are navigational instructions to help you make a selection, exit the menu, go back, etc.

PLAYBACK MODES

Video Playback

In Video Playback mode, you can view previously recorded video clips. These may be videos that you have captured yourself using the camera module, videos that you recorded from a video source (using AV input), or possibly even video clips that you have transferred from your computer – provided they are of compatible file format. You may play back videos from internal memory or those that may be stored on a memory card.

Viewing video clips

1. Turn on your DVR-390H.
2. Use the **Up/Down/Left/Right** keys to select **VIDEO PLAY** mode. Press the **Ok** key to enter the Video playback mode.
3. Your video clips appear on the LCD monitor as small thumbnail sized frames. Each video is represented by the first frame of the video. Select the desired video clip by using the **Up/Down/Left/Right** keys.
4. Press the **Play/Pause** button to play the selected video clip.
 - To pause playback at any time, press the **Play/Pause** button again.
 - To stop playback, press the **Ok** button.



Note:

- To adjust the volume of those videos that include audio, press the **+** button to increase the volume, press the **-** button to decrease the volume.

Still-Image Playback

In Still-Image Playback mode, you can view your still-images, magnify (enlarge) them for detailed viewing, or run a slide show. When placed in the cradle the DVR-390H sits as a convenient angle for desktop viewing. Consider using your DVR-390H as a desktop electronic photo gallery display. Use the AC adapter, adjust your settings, and use your DVR-390H as an electronic desktop photo album.

Viewing still images

1. Turn on your DVR-390H.
2. Use the **Up/Down/Left/Right** keys to select **IMAGE PLAY** mode and press the **Ok** key to enter still-image playback mode.
3. Your still images appear on the LCD monitor in thumbnail mode. Select the desired image by using the **Up/Down/Left/Right** keys, and press the **Ok** key to display the image full-screen.

Zoom Playback

You may enlarge your still images to view the finer details. You may zoom up to 4 times the normal display size.


1. Select the image you want to enlarge by using the **Up/Down/Left/Right** keys.
2. Adjust the zoom ratio by using the **Ok** key.
 - The image is displayed enlarged. You will see a red frame with a red box inside. The red frame indicates the entire image, while the red box shows the location of the currently enlarged area.
3. Use the **Up/Down/Left/Right** keys to select the area of enlargement.
4. To return to regular size, press the **Ok** key.

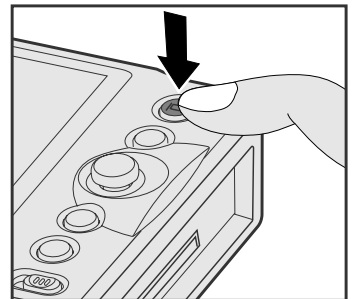
Note:

- Press the **Ok** key to move cyclically through the available zoom and display stages: Thumbnail-> 1x-> 2x-> 4x-> Thumbnail.



Displaying Image Information

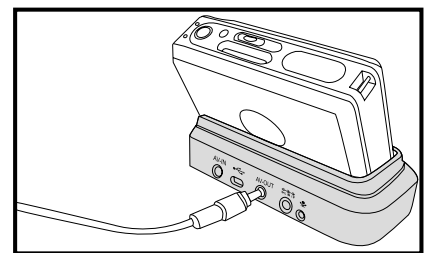
You may view detailed image information by pressing the  Display button when playing back an image.



Playing Back Videos and Images on a TV Monitor



You can play back your videos and images on a TV screen or digital projector. Before connecting to any video device, however, make sure to select, on the DVR-390H, the video broadcast standard (**NTSC** or **PAL**) which matches the video broadcast standard of the video equipment you are going to connect to the media player. It is also recommended that you use an AC power adapter while viewing your images and video files on a TV monitor.

1. Place the DVR-390H in the cradle.
2. Plug one end of the AV cable into the **AV-OUT** jack of the cradle.
3. Connect the other end to the Audio and Video input jacks on your TV Monitor. It is important to note that the yellow RCA jack is the video signal and the other RCA jacks (usually red and black) are audio (left and right channels).
4. Turn on your TV and the DVR-390H.
5. Command the DVR-390H to play back still images or videos, as desired, as discussed in the previous sections.
 - The method of playback operation is the same as playing back still images and video clips on the media player itself.
 - Connecting the DVR-390H to a VCR or DVD recorder is similar.



Protecting Videos and Images

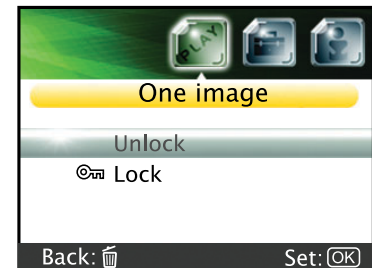
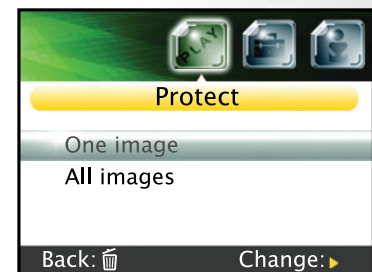
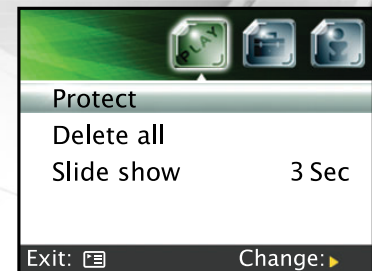
You can protect your video clips and images from accidental deletion by selecting the **Protect** function in the **Video** or **Image Playback** modes. Follow these steps to protect an image or video.

1. Turn on your DVR-390H.
2. Use the **Up/Down/Left/Right** keys to select **Video** or **Still-Image Playback** mode. Press the **Ok** key to enter that playback mode.
3. Press the  Menu button to open the **PLAY** menu.
4. Select **Protect** by using the **Up/Down** keys.
5. Use the **Right** key to enter **Protect** submenu.
6. Use the **Up/Down** keys to select "**One image**" (or "**All images**"), and then press the **Right** key to enter its submenu.
 - To protect all images, select "**All images**" in this step.
7. Select **Lock** by using the **Up/Down** keys, and then press **Ok**.
 - Once the video clip/image is protected, the  Protection icon will be displayed on each protected video and image.

Canceling protection

To cancel protection for an image or video clip, display the image or video for which you wish to remove the protection.


1. Perform the above steps 1~6..
2. Select **Unlock** using the **Up/Down** keys. Press the **Ok** key to confirm.

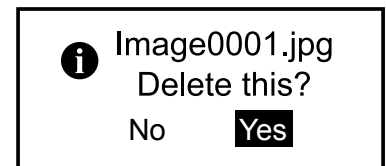


Deleting Videos and Images


You may selectively delete any unprotected image or video from your DVR-390H. To delete videos or images from internal memory, remember to remove your SD memory card.

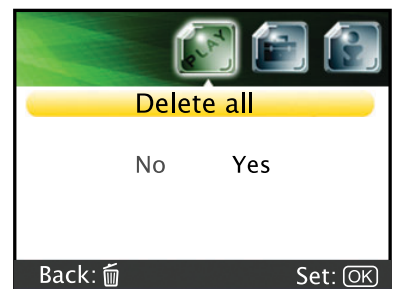
To delete one video or image

1. Turn on your DVR-390H.
2. Use the **Up/Down/Left/Right** keys to select **Video** or **Still-Image Playback** mode. Press the **Ok** key to enter that mode.
3. Select the unwanted video or image by using the **Up/Down/Left/Right** keys.
4. Press the  Delete button.
5. **"Delete this?"** appears on the image.
6. Use the **Left/Right** keys to select **Yes**. Press the **Ok** key to confirm.
 - If you wish to cancel the deletion, select **No**.
7. Repeat the above steps to delete additional videos and images.
 - If all videos and images have been deleted, **"No images!"** will display.






To delete all videos or images at once

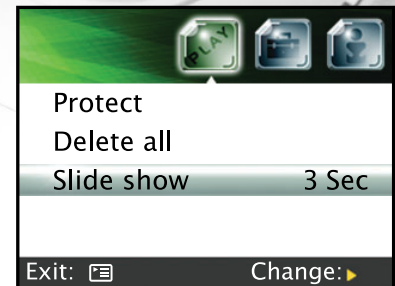
1. Perform the above steps 1 and 2.
2. Press the  Menu button to enter the **Video** or **Still-Image Playback** menu.
3. Select **Delete all** by using the **Up/Down** keys.
4. Use the **Right** key to enter **Delete all** menu.
5. Use the **Left/Right** keys to select **Yes**. Press the **Ok** key to confirm.
 - If you want to cancel the deletion, select **No**.
 - If all videos and images have been deleted, **"No images!"** will display.



Slide Show Display

The slide show function enables you to play back your images automatically in sequential order as a slide show. This is a very useful and entertaining feature for reviewing recorded images and for presentations.

1. Turn on your DVR-390H.
2. Use the **Up/Down/Left/Right** keys to select **IMAGE PLAY** mode. Press the **Ok** key to enter playback mode.
3. Press the  Menu button to enter **IMAGE PLAY** menu.
4. Select **Slide show** using the **Up/Down** keys.
5. Use the **Right** key to enter **Slide show** submenu.
6. Set the playback interval by using the **Up/Down** keys. Press the **Ok** key to confirm the interval.
7. The images appear on the LCD monitor in thumbnail mode. Press the **Ok** key to start slide show.
 - The slide show presents your images on the LCD monitor, one by one, with the interval that you set.
 - To stop the slide show display, press the **Ok** key.
 - To pause the slide show display, press the  Play/Pause button.
 - To resume the slide show, press the  Play/Pause button again.









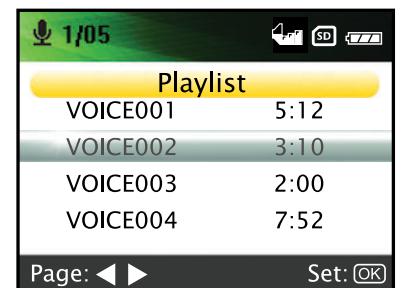
Note:

- The **Auto Power Off** function is disabled while playing a slide show.

MP3 and Audio Playback

The DVR-390H allows you to play MP3 and ASF audio files anytime, anywhere.

1. Turn on your DVR-390H.
2. Use the **Up/Down/Left/Right** keys to select **MP3** or **Audio Play** modes. Press the **Ok** key to enter that mode.
3. Scroll through the playlist by using the **Up/Down** keys and change the page by using the **Left/Right** keys.
 - After pressing the **Ok** key, a  /  (audio/MP3) icon will indicate the type of the selected file.
4. Press the  Play/Pause button. A message offering the choices: **Current**, **Select**, and **All** is presented up, allowing you to play the current file, the selected files or all files.
5. Press the **Ok** key to confirm which option you want.
 - To pause playback, press the  Play/Pause button.
 - To resume playback, press again the  Play/Pause button.
 - To stop playback, press the **Ok** key.
 - To delete an MP3 or audio file, press the  Delete button. "**Delete this?**" appears on the screen. Use the **Left/Right** keys to select **Yes**. Press the **Ok** key to confirm. To cancel the deletion, select **No** instead.



Note:

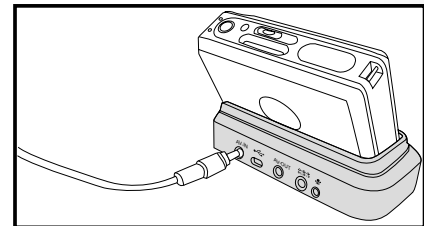
- There are two ways to adjust the volume: Press the **+** / **-** button while playing an MP3 or ASF audio file or set **Speaker** volume (from 0 to 5) in the **System** menu before playing your MP3 or audio files.
- The DVR-390H can record and play back ASF audio files.
- The DVR-390H can only play back MP3 files. It cannot record (encode) MP3s.

RECORDING MODES

Recording from a video source using Audio/Video (AV) direct Input

In this mode your DVR-390H may be used as a solid-sate (tape less) video recorder - from a video source. (Think of it as a VCR – without tapes.) Your video recordings will be stored to the internal hard drive, or memory card, if present. Much like a traditional VHS recorder your videos can be recorded and played back at a later time. Unlike a traditional VCR, however, your videos will be stored in full digital format as ASF files using MPEG4 compression. The video source may be a VCR or DVD player, a traditional camcorder, or a TV signal passed through a monitor. The video signal will be input to the DVR-390H using the “AV-IN” jack on the docking cradle.

1. Place the media player in the cradle.
2. Plug one end of the AV cable into the **AV-IN** jack on the cradle.
3. Connect the other end of the AV cable to the audio and video-out jacks on your video source.
4. Turn on your video source and the DVR-390H.
5. Use the **Up/Down/Left/Right** keys to select **AV-IN REC** mode. Press the **Ok** key to enter that mode.
6. Press **Ok** to start recording. To stop recording, press **Ok** again.



Note:

- The AV cable must be connected to your DVR-390H and video source, otherwise, the AV-IN record function will not be available to use.

Audio Recording

The DVR-390H allows you to record audio files anytime and anywhere. In this mode your DVR-390H may be used as a solid-state (tape less) voice (or sound) recorder. Your sound recordings will be stored to the internal hard drive, or memory card, if present. Much like a traditional tape recorder your sound files can be recorded and played back at a later time. Unlike a traditional tape recorder, however, your sounds will be stored in full digital format as ASF files.

To record audio files, follow these steps:

1. Make sure the microphone has been inserted into the MIC LINE-IN jack on the media player or cradle.
2. Turn on your DVR-390H.
3. Use the **Up/Down/Left/Right** keys to select **AUDIO REC** mode. Press the **Ok** key to enter that mode.
4. Press the **Ok** key to start recording
 - To stop recording, press the **Ok** key again.

Note:

- The audio record function will work even if the camera module is not present.

CAPTURE MODES

Video Recording using the Camera Module (Video Rec Mode)

In this mode your DVR-390H may be used as a solid-state (tape less) camcorder. Your videos will be stored to the internal hard drive, or memory card, if present. Much like a traditional camcorder your videos (with audio) can be recorded and played back at a later time. Unlike a traditional camcorder, however, your videos will be stored in full digital format as ASF video files using MPEG4 compression.

1. Make sure the microphone has been inserted into the MIC LINE-IN jack on the media player or cradle.
2. Turn on your DVR-390H.
3. Use the **Up/Down/Left/Right** keys to select **VIDEO REC** mode. Press the **Ok** key to enter that mode.
4. Compose the image using the **T** (zoom in)/**W** (zoom out), if desired.
5. Fully press the **Shutter** button.
 - Video recording will begin.
 - Pressing **Shutter** button again to stop recording.

Note:

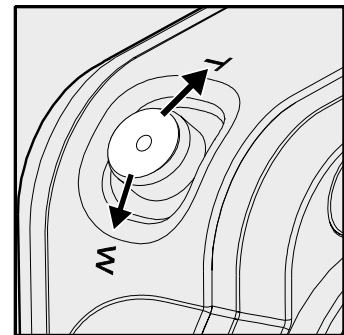
- When recording video clips, self-timer cannot be activated.

Using the Digital Zoom

Zoom photography allows you to capture telephoto and wide-angle shots. By using the digital zoom, images can be enlarged by pressing the **T** (zoom in) button so that the subject appears closer or appears further away by pressing the **W** (zoom out) button.


Note:

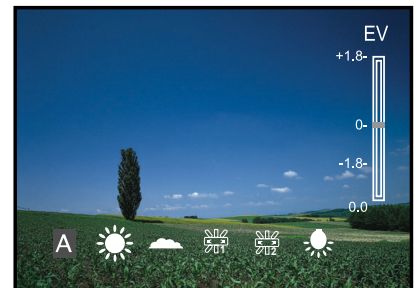
- In **Video** or **Image Rec** modes, the digital zoom range is from 1x to 2x.



Setting the Exposure Value and White Balance

Images can be captured with the overall scene intentionally made brighter or darker. These settings are used when a suitable brightness (exposure) cannot otherwise be obtained in circumstances where the difference in brightness between the subject and the background (the contrast) is large, or when the subject that you wish to capture is very small within the scene. Exposure can be set in 0.3 EV units.

1. Power on the DVR-390H. Make sure the DVR-390H is in **IMAGE/VIDEO REC** mode.
2. Press the  Menu button to enter **IMAGE/VIDEO REC** menu.
3. Use the **Up/Down** keys to select **EV / White balance** option, and then use the **Right** key to enter its submenu.
4. Use the **Up/Down** keys to select the exposure value.
 - The range of exposure compensation is:
-1.8, -1.5, -1.2, -0.9, -0.6, -0.3, 0, +0.3, +0.6, +0.9, +1.2, +1.5, +1.8.
 - The larger the value, the brighter the image. The smaller the value, the darker the image. The selected EV is displayed on the LCD.
5. Use the **Left/Right** keys to select white balance mode.
 - For white balance options, please refer to “EV / White balance” in the **MENU OPTIONS** section.



Capturing still images using the Camera Module (Image Rec Mode)

After connecting the camera module to your DVR-390H you may capture images anytime, anywhere. In this mode your DVR-390H may be used as a three megapixel digital camera. Your images will be stored to the internal hard drive, or memory card, if present. Your images will be saved to memory in the common JPG format for play back at a later time.

1. Turn on your DVR-390H.
2. Use the **Up/Down/Left/Right** keys to select **IMAGE REC** mode. Press the **Ok** key to enter that mode.
3. Compose your shot on the LCD monitor.
 - For detailed information on how to use digital zoom, please refer to section in this manual titled "Using the Digital Zoom".
4. Fully press the **Shutter** button to capture an image.

Flash Modes

The flash is designed to function automatically when lighting conditions warrant the use of flash. You can capture an image using a flash mode suitable to your circumstances.



1. Power on the DVR-390H. Make sure the DVR-390H is in **IMAGE REC** mode.
2. Press the **Flash** key repeatedly until the desired flash mode appears.
3. Compose the image and press the **Shutter** button.

The table below will help you choose the appropriate flash mode:



Flash mode	Description
[] Automatic flash	The flash fires automatically according to the ambient lighting conditions. Select this mode for general flash photography.
[] Red-eye reduction	Use this mode to reduce the red-eye phenomenon when you want to capture natural-looking images of people and animals in low-light conditions. The flash always fires twice, and the image is captured at the second firing.
[] Flash off	The flash will not fire. Select this mode when taking images in a place where flash photography is prohibited, or when the distance to the subject is beyond the effective range of the flash.

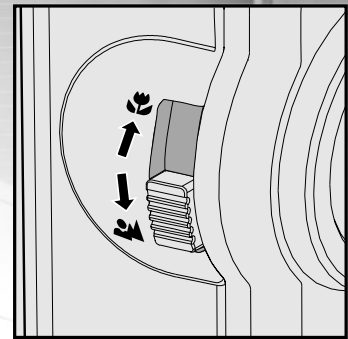
Setting the Focus

You can adjust the lens focus setting according to the distance to the captured object. Two settings are available: **Macro** (for close-up shots) and **Normal**.

Slide the lens focus switch to select which focus setting you want. Select  (Macro) mode when you want to capture a close up photography; select  (Normal) mode when you want to capture image at a normal distance.


Note:

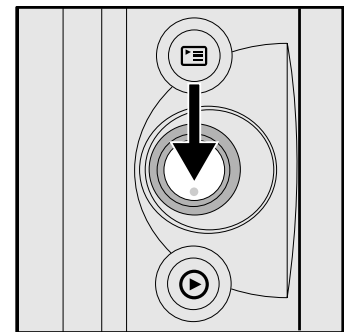
-  (Macro) focus range is two to four feet.;
-  (Normal) focus range is four feet to infinity.



Using the Self-timer

The self-timer is useful for low-light levels (in conjunction with a tripod) and situations where you may wish to join into the scene when taking group shots. The self-timer duration is 10 seconds. After the self-timer is set, the shutter automatically releases after 10 seconds. The self-timer LED starts blinking relatively slowly for seven seconds and then blinks rapidly for the final three seconds.

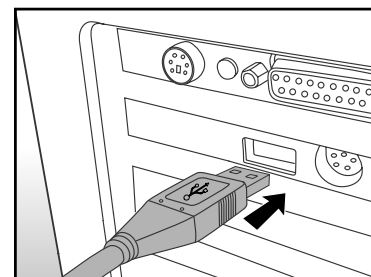
1. Power on the DVR-390H. Make sure the DVR-390H is in **IMAGE REC** mode.
2. Compose the image.
3. Press the **Self-timer/Down** key. When this function is enabled, the  icon will display on LCD monitor.
 - While the self-timer action is proceeding, the self-timer icon displayed on the LCD monitor blinks.
4. Press the **Shutter** button.
 - An image will be captured in ten seconds.
 - To cancel the self-timer during countdown, press the **Self-timer/Down** key again.
 - The self-timer does not function with Video Recording.



USB-IN MODE

By using the **USB-IN** function, you can transfer files between your DVR-390H and computer.

1. Turn on your DVR-390H and computer.
2. Connect one end of the USB cable to an available USB port on your computer.
 - Please install the USB driver before connecting the USB cable to you computer. (For detailed information, refer to the section “Install the USB Driver for Windows 98” below.)
3. Connect the other end of the USB cable to the USB port on the DVR-390H.
4. Use the **Up/Down/Left/Right** keys to select **USB-IN** mode, and then press the **Ok** key to activate the **USB-IN** function.
5. Now you can transfer files between your DVR-390H and computer. For further details, refer to section “Transferring Files Between Your DVR-390H and Computer” in the following page.



Installing the USB Driver for Windows 98

Windows 98 computers

The USB driver on the CD-ROM is exclusively for computers running Windows 98 Second Edition. Installing the USB driver on computers running Windows 2000/ME/XP is neither necessary, nor recommended.

1. Insert the CD-ROM that came with the DVR-390H into your CD-ROM drive. The welcome screen appears.
2. Click “Install USB Driver”. Follow the onscreen instructions to complete the installation. After the USB driver has been installed, restart your computer.



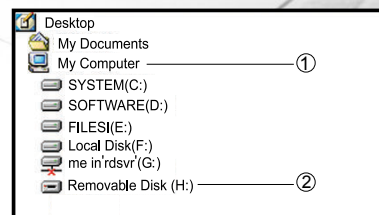
Macintosh OS 9.6 and OSX computers

Mac extensions for the DVR-390H. Mac OS 9.6 and OS X will find that your computer automatically recognizes the DVR-390H as a USB mass storage device. When the DVR-390H is connected to your Mac, a volume will be mounted to the desktop.

Transferring Files Between Your DVR-390H and Computer

Windows users

1. From the Windows desktop, double click on "My Computer".
2. Look for a new "Removable Disk" icon. This "Removable Disk" is actually the internal memory or the SD memory card in your DVR-390H. Typically, the DVR-390H will be assigned drive letter "e" or higher.
3. Open the "Removable Disk" and subsequent folders by double clicking on them. Your images/videos/audio are inside these folders.
4. Select the images/videos/audio that you want, and then choose "Copy" from the "Edit" menu. Open the destination location (folder) and choose "Paste" from the "Edit" menu.
 - You may also drag and drop image/video/audio files from the DVR-390H to a desired location.



Mac users

Open the "untitled" or "unlabeled" disk icon, and the destination location on your hard disk. Drag and drop from the DVR-390H to the desired destination.

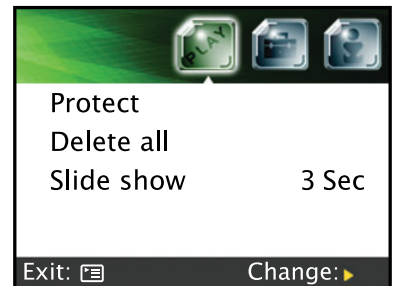
Note:

- Memory card users may prefer to use a memory card reader.
- Video playback application is not included with the package. Make sure that video playback application has been installed in your computer.

MENU OPTIONS - SUMMARY

Video and Image Play Menu

Use this menu to create an on-camera slide show. You can also use the play menu to protect or delete one or all images.



Protect

You may protect images and videos from accidental erasure. Refer to the section in this manual titled "Protecting Videos and Images" for further details.

Delete all

Please refer to section in this manual titled "Deleting Videos and Images" for further details.

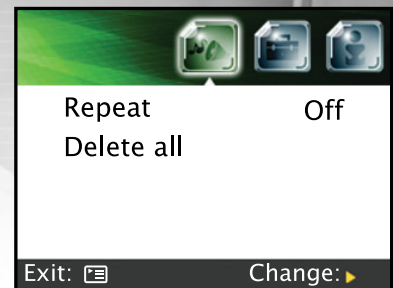
Slide show

Automatically plays back still images sequentially at a selected interval:

1 Sec, 3 Sec, 5 Sec, 7 Sec, or 9 Sec.

Audio and MP3 Play Menu

Use this menu to play selected Audio and/or MP3 files or delete these files at once.



Repeat

This option allows you to repeatedly play your MP3 or audio files according to your preferences. Select **Off** to play the listed files only once.

Delete all

Deletes all audio or MP3 files in a single operation. Select **Yes** or **No** by using the **Left/Right** keys. Press the **Ok** key to confirm.

Audio Video Input Menu

Video size

Sets the desired video resolution.

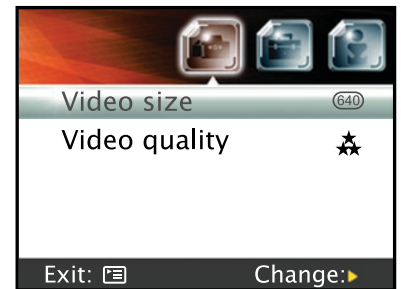
640: 640 x 480 pixels

320: 320 x 240 pixels

Video quality

Sets the quality (compression rate) at which video is to be recorded.

- ☆ Super fine
- ★ Fine
- ★ Normal



Video Recording Menu

Use this menu to select video resolution, video quality, exposure value, and white balance.

Video size

Sets the desired video resolution.

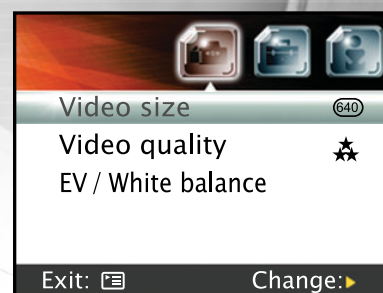
640: 640 x 480 pixels

320: 320 x 240 pixels

Video quality

Sets the quality (compression rate) at which the video is to be recorded.






- ☆ Super fine
- ★ Fine
- ★ Normal



EV / White balance

The human eye adapts to changes in light so that white objects still appear white even when the light changes. With a digital camera, however, the color of the subject is influenced by the color of the light surrounding it. This color adjustment is called “white balance adjustment”. This setting allows you to set the white balance when capturing images under specific lighting conditions.

Options on the White Balance menu:

Icon	Lighting conditions
[Auto]	Automatically adjusts the white balance
 [Daylight]	Outdoors on a bright day
 [Shade]	For overcast, shaded, twilight or evening skies
 [Fluorescent-1]	Fluorescent lighting
 [Fluorescent-2]	Fluorescent lighting
 [Lamp]	Tungsten lighting

For information about Exposure value, please refer to section in this manual titled “Setting the Exposure Value and White Balance”.

Still Image Recording Menu

You can use this menu to select still-image resolution and quality. You may also adjust exposure value, white balance, and ISO.

Image size

Sets the desired image resolution.







- : 2048 x 1536 pixels
- : 1600 x 1200 pixels
- : 1280 x 960 pixels

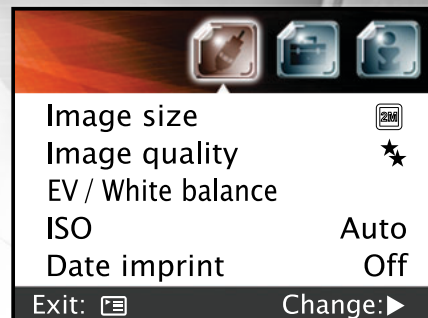
Image quality

Sets the quality (compression rate) at which the still images will be compressed and stored as JPG files.

-  Super fine
-  Fine
-  Normal

EV / White balance

Refer to the similar section on the previous page.



ISO

You may select the preferred photographic ISO for image capture. The higher the ISO sensitivity value the greater sensitivity, but with increased noise. With a higher sensitivity, images can be captured with less light.

[Auto]: Automatic adjustment

[100]: Sensitivity equivalent to ISO100

[200]: Sensitivity equivalent to ISO200

[400]: Sensitivity equivalent to ISO400

Date imprint

The capture date can be printed directly on your still images. This function must be activated before the image is captured.

On: Imprints the date on the still images when capturing images.

Off: Does not imprint the date on the still images when capturing images.

System Menu

Format

This option formats the internal memory (or SD memory card) and erases all stored images and data including non-camera/player data.. Please refer to section in this manual titled “Formatting Internal Memory or an SD Memory Card” for further details.

Speaker

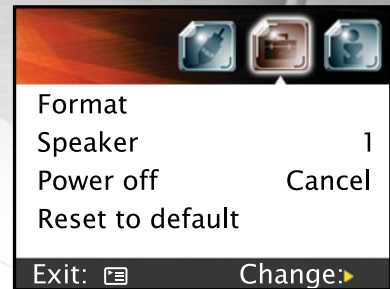
Sets the play volume.
The play volume can be adjusted from 0 to 5.

Power off

If the DVR-390H goes unused for a certain period of time while the DVR-390H is powered on, it will switch to idle mode, and eventually turn itself off to conserve power.
If the DVR-390H is idle, re-activate it by pressing any button. If the DVR-390H has powered-off, then you must turn it on again by pressing the **Power** button.
Use the **Up/Down** keys to select the power-off interval, then press the **Ok** key to confirm. The power-off interval has five options: **3 Min, 5 Min, 10 Min, 30 Min, Cancel (power-off is disabled)**.

Reset to default

This returns all basic settings to the DVR-390H's default values. The time setting will not be reset.
No: Does not return to the default settings and the current settings are retained, unchanged.
Yes: Returns the DVR-390H to the original factory (default) settings.



Custom Menu

Language

This option allows you to select the language for the menus and the text displayed on the LCD monitor.

LCD brightness

Adjusts the LCD monitor's brightness from [+5] to [-5].

Date setup

After removing the batteries from the DVR-390H, the date and time may return to the default settings. If this happens, reset the date and time when using the DVR-390H. Refer to section in this manual titled "Setting the Date and Time" for further details.

Light freq.

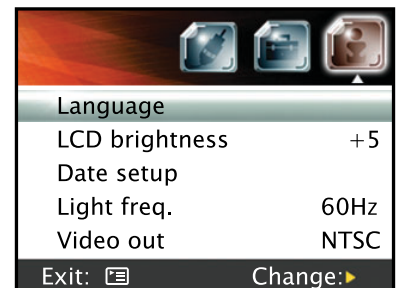
Sets the frequency of the sensor. Two options are available: [50Hz] or [60Hz]. The image performance of the camera, if used indoors, will be optimized if you select the indoor lighting frequency that matches the local standard for your location.

Video out

Sets the video output format (broadcast standard) for displaying recorded images and video clips on a television or transferring to another video device.

NTSC: NTSC broadcast standard.

PAL: PAL broadcast standard.



INSTALLING WinDVD Creator

WinDVD Creator is easy-to-use software that can help you to edit recorded video clips and make your own DVDs. WinDVD Creator can let you easily transfer your recorded videos, add images, music, titles, and transitions between scenes, introduce special effects, and edit your videos. This program also includes Automatic Scene Detection that automatically breaks up the video you transfer into both short clips and scenes.

To Install WinDVD Creator:

1. Insert the CD-ROM packaged with the DVR-390H into the CD-ROM drive. The welcome screen appears.
2. Click "Install WinDVD Creator". Follow the on-screen instructions to complete the installation.



WinDVD Creator System Requirements:

PC Subsystem	Minimum	Recommended
Processor	Intel Celeron 800MHz	Intel Pentium III 600MHz *For Direct DVD Support, requires P4 1.6GHz higher for real-time requirement
RAM	128 MB	256 MB
Operating System	Windows 98SE/ME/2000/XP	Windows 2000/XP
Sound	On board AC'97 Codec	Windows compatible sound card that supports 48KHz playback (PCI recommended)
Video	On board Graphic Windows compatible PCI graphics card (overlay support is recommended)	Windows compatible AGP or PCI graphic (overlay support is recommended)
Hard Drive	* 70 MB got installation * 620 MB for every hour of VCD quality MPEG-1 video * 2 GB for every hour of DVD quality MPEG-2 video	
Other	CD or DVD burner required for VCD and DVD burning. Appropriate hardware needs to import video from external sources like DV cameras and camcorders.	

* WinDVD Creator is PC compatible only.

INSTALLING Muvee™ autoProducer

Muvee™ autoProducer is the fastest, easiest and most fun way to transform your videos into slick productions. It takes one minute to learn and is typically a hundred times faster than any other video editing software. Simply give the program your video, add in some music, select an editing style, and it does the rest! Create myriad different productions instantly - each one in a radically different style, and with a polished, professional feel.

To Install Muvee™ autoProducer:

1. Insert the CD-ROM packaged with the DVR-390H into the CD-ROM drive. The welcome screen appears.
2. Click "Install Muvee™ autoProducer". Follow the on-screen instructions to complete the installation.



Note:

- For information on how to use Muvee™ autoProducer, please refer to its online help.
- Muvee™ autoProducer is PC compatible only.

INSTALLING PhotoSuite

PhotoSuite is a very user-friendly image-editing program. With PhotoSuite, you can breezily retouch, compose and organize your images. It contains a variety of templates, such as photo frames, birthday cards, calendars and more. Get your images ready and go explore this amazing program.

To Install PhotoSuite:

1. Insert the CD-ROM packaged with the DVR-390H into the CD-ROM drive. The welcome screen appears.
2. Click "Install PhotoSuite". Follow the on-screen instructions to complete the installation.



Note:

- For information on how to use PhotoSuite to edit and retouch your recorded images, please refer to its online help.
- For Windows 2000/XP users, make sure to install and use the PhotoSuite while logged in as a user with an Administrator account.

INSTALLING Acrobat Reader

The CD-ROM includes a PDF (portable document format) copy of the user's manual. To view a PDF you must have Acrobat Reader installed in your computer. Acrobat Reader is included on the DVR-390H CD ROM. Using Acrobat Reader, you can read the user's manual and print sections of interest.

1. Insert the CD-ROM that came with the DVR-390H into the CD-ROM drive. The welcome screen appears.
2. Click "Install Acrobat Reader".
Follow the on-screen instructions to complete the installation.



USER'S MANUAL ON CD-ROM

A copy of the user's manual provided on the CD-ROM is in PDF format. It is a backup copy of the printed manual. If you misplace the printed guide, you may print another copy from the CD-ROM. The only requirement for viewing the User Manual on the CD-ROM is that you have Acrobat Reader installed on your computer. Updates to this manual, and versions in other languages may be found on our website.

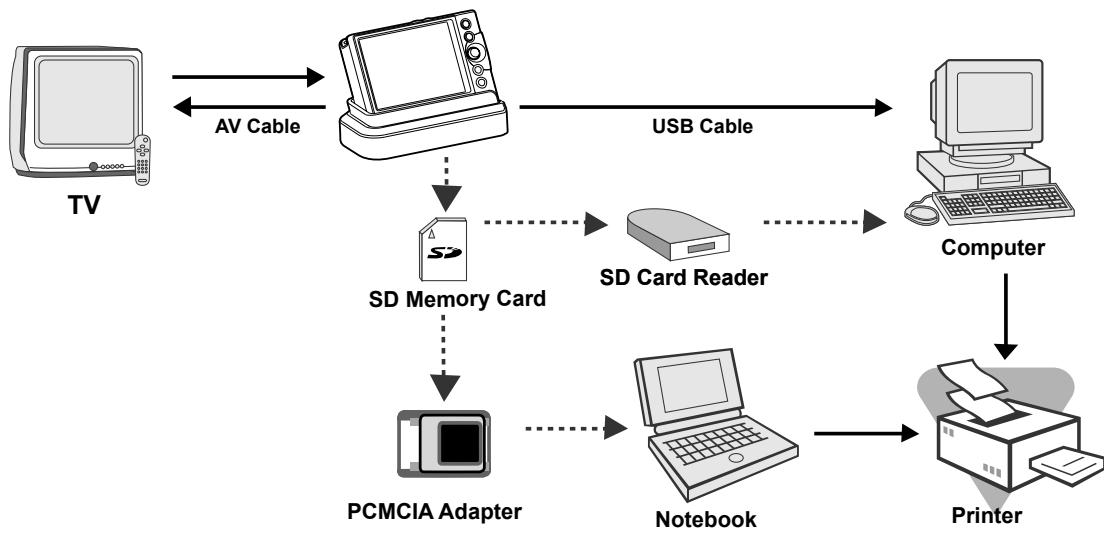
1. Insert the CD-ROM that came with the DVR-390H into the CD-ROM drive. The welcome screen appears.
2. Click "Install User's Manual". Follow the on-screen instructions to complete the installation.
Alternatively, browse the CD ROM to find the PDF file.



For Mac users:

1. Insert the CD-ROM that came with the DVR-390H into the CD-ROM drive.
2. Select and double-click "Install User's Manual".
3. Select and double-click the language that you want.
4. Drag and drop the PDF file from the current location to the destination location.
5. View the user's manual by opening it.

CONNECTING THE DVR-390H TO OTHER DEVICES



SPECIFICATIONS

Item	Description
Image sensor	3 Mega Pixel Sensor
Image resolution	2048 x 1536, 1600 x 1200, 1280 x 960
Video resolution	VGA 640 x 480, QVGA 320 x 240
LCD monitor	3.6" color TFT LCD
Lens	Fixed Focus Lens F/3.5 Range of Focus: Macro: 2 to 4 feet (0.7 M to 1.4 M) Normal: 4 feet to infinity (1.4M to Infinity)
Memory type	Built-in 20GB Hard Disk Drive
External (removable) Memory	Secure Digital (SD) Memory Cards - up to 512 MB
Self-timer	10 - second delay
Digital zoom	4x for Image playback 2x for Image and Video Capture
Compression formats	Still image: JPG Video: MPEG-4 (ASF file format) Audio: IMA-ADPCM
Flash Mode	Automatic, Red-eye reduction, Flash off
Exposure compensation	Automatic or, Manual: +/- 1.8 EV (in 0.3 EV units)
White balance	Automatic with presets for Daylight, Shade, Fluorescent-1, Fluorescent-2, Lamp

Item	Description
Power	Rechargeable lithium-ion battery (optional) AC power adapter, 5VDC/3A (optional)
Media Player ports and interface	Headphone jack: 3.5 mm plug (stereo) MIC LINE-IN jack: 2.5 mm plug (mono) Speaker (mono) USB port (B-mini) DC IN 5V terminal
Cradle interface	USB port (B-mini) DC IN 5V terminal AV-IN jack AV-OUT jack MIC LINE-IN jack: 2.5 mm plug (mono)
Dimensions: Media player body Camera module	4" x 2.8" x 1.3" (106 x 71 x 32 mm) 1.6" x 2.8" x 1.3" (40 x 71 x 32 mm)
Weight: Media Player body	Approx. 10 ounces (285 g)

* Design and specifications are subject to change without notice.