

Leaf AFi Camera System

User Guide



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1 Quick start



Quick start

	<p>Charge the battery.</p> <p>See Battery charging on page 31.</p>
	<p>Format your CompactFlash® (CF) card, and then insert it into your imaging module.</p> <p>See Formatting a CompactFlash card on page 34 and Inserting a CompactFlash card on page 36.</p>
	<p>Attach a PQ or PQS lens.</p> <p>Attaching a lens on page 64.</p>
	<p>Turn on the Leaf® AFi camera system and set the shutter release mode. See Turning on the camera system and setting the shutter release mode on page 73.</p>
	<p>Set the exposure mode.</p> <p>See Selecting an exposure mode on page 98.</p>



Set the focus mode.

See Focus modes on page 105.



Push the shutter release button to take a shot.

See Taking a shot on page 75.

2 Getting to know your camera system



Leaf AFi camera system

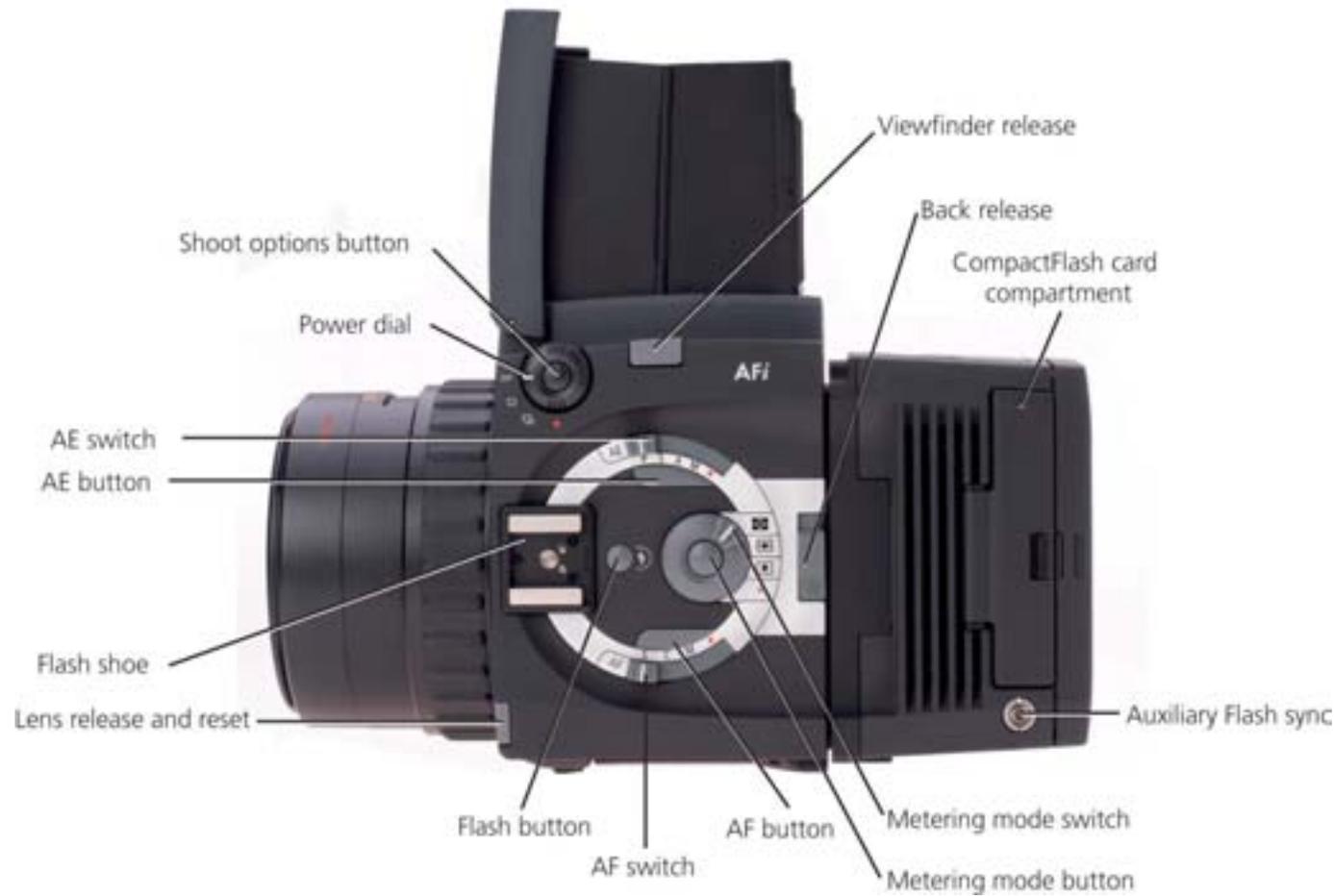
The Leaf *AFi* camera system is an all new, innovative, high-end digital camera system that is geared toward the practical needs of professional photographers. Designed and developed with input from the world's leading photographers, the Leaf *AFi* camera system integrates the very best components available, including the latest Schneider autofocus digital (AFD) lenses. These lenses have been optimized for use with high resolution sensors, offering optimal focus while making the best use of high resolution charge coupled device (CCD) sensors.

The Leaf *AFi* camera system is the world's first medium-format camera to include a large (6 x 7 cm) built-in LCD touch screen, offering an innovative graphic user interface, and a variety of functions and predefined settings. With the adjustable ergonomic handgrip, you can shoot in comfortable positions, and the handgrip display shows essential camera settings that are visible from any shooting position.

Front view



Side view showing controls



Base view



Top view showing handgrip



Top view



Back view

The Leaf AFi imaging module includes a built-in (6 x 7 cm) LCD touch screen with an innovative graphic user interface.

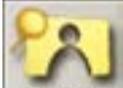


Use the stylus provided to tap the touch screen.



Imaging module display

The imaging module has four views for setting up your shoot and for editing and managing your shots.

 Camera	<p>Use the options in Camera view to prepare for your shoot:</p> <ul style="list-style-type: none">• Designate the Shots folder• Assign a base name for your shots• Set global settings, such as ISO, compression, camera orientation, gray balance, develop curve, color, sharpness, and crop mask size• Enter camera and copyright information
 Shoot	<p>Each shot appears on the imaging module in Shoot view. Use the the buttons to evaluate and edit your shots:</p> <ul style="list-style-type: none">• Set the gray balance for future shots• Use the histogram, the picker tool, and the exposure alarms to check exposure• View the image at full-screen size and zoom into your shots to check the focus• Use the grid to check composition



Use **Edit** view to manage your shots:

- Display images in various layouts for easy browsing
- Sort and move images from one folder to another
- Flag, annotate, and delete single or multiple images



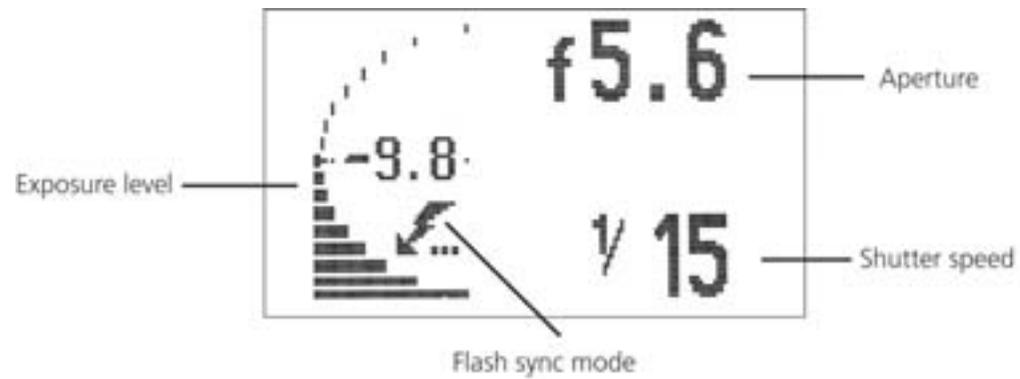
Use the options in **Setup** view to set your preferences and configure your imaging module:

- Set options for working in **Shoot** view
- Set user button functionality
- Set the date, time, owner information, and language
- Restore the imaging module factory settings
- Configure the imaging module display and sounds
- Turn Bluetooth® on for wireless connectivity with your HP® iPAQ® Pocket PC
- Select a power source when tethered
- Quickly format your CF card

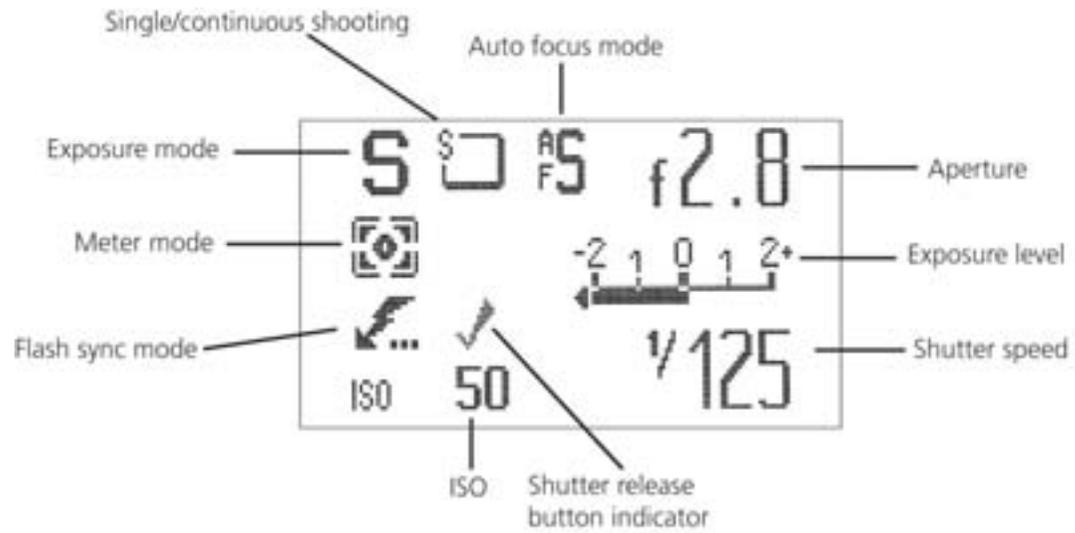
Handgrip display

The handgrip display has two user interfaces: **AUTOMATIC** which displays basic information, and **ENHANCED**, which displays detailed camera settings.

Automatic handgrip display



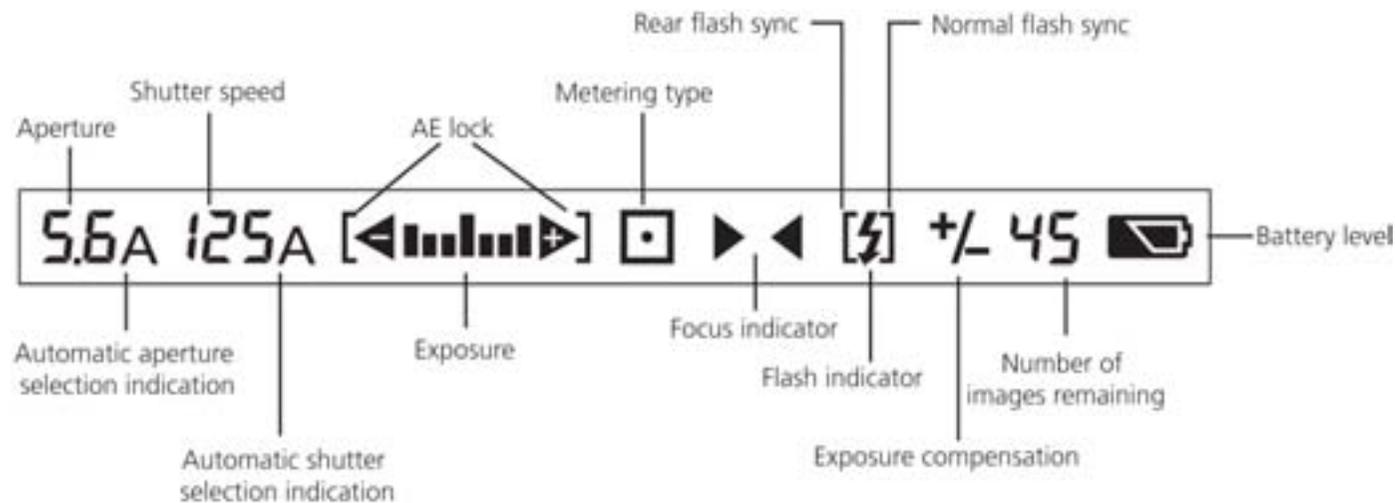
Enhanced handgrip display



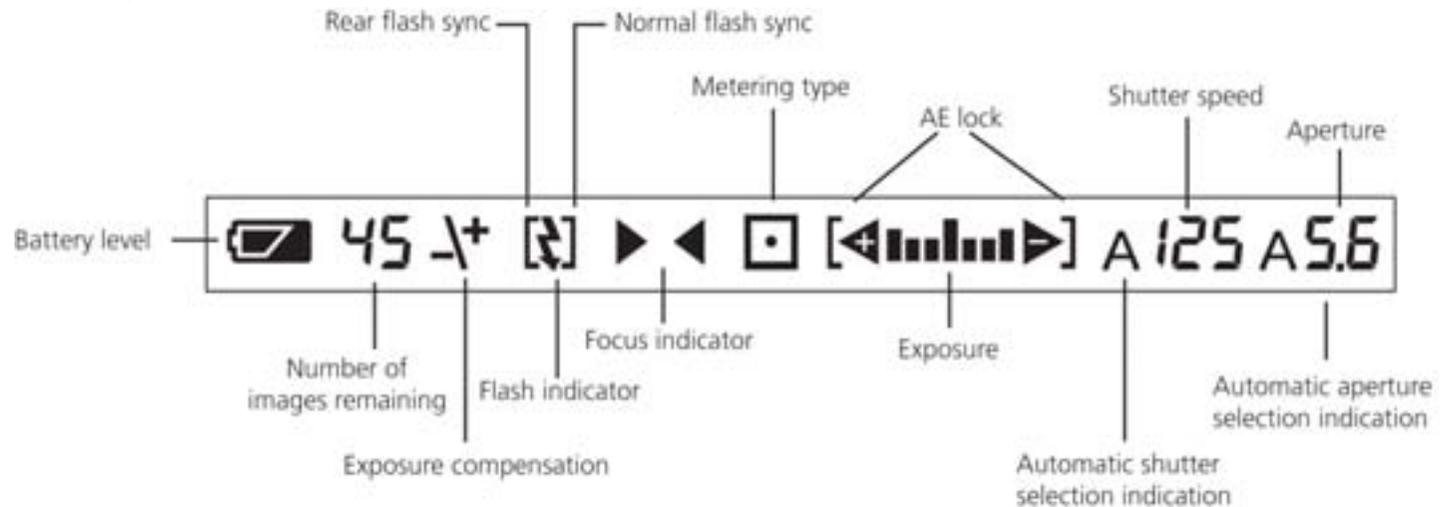
Viewfinder display

The organization of the information in your viewfinder display differs depending on which viewfinder you use. Familiarize yourself with the differences between the displays of the camera system's viewfinders.

Display in waist-level viewfinder



Display in the 45° prism + 90° viewfinder



An **A** appearing next to the aperture or shutter speed signifies the following:

- When the AE switch is set to P (program autoexposure), the **A** indicates that the camera will automatically select the aperture and the shutter speed.
- When the AE switch is set to S (shutter priority exposure control), the **A** indicates that you have selected the shutter speed and that the camera will automatically select the aperture.
- When the AE switch is set to A (aperture priority exposure control), the **A** indicates that you have selected the aperture and that the camera will automatically select the shutter speed.

3

Preparing the battery and CF card



Battery charging

The Leaf AFi camera system utilizes a sophisticated power mechanism, which is designed to maximize battery life. Follow the charging instructions to get the most from your batteries.

There are two ways to use the battery charger:

- Plugged into a wall socket
- Plugged into a cigarette lighter in your car

Before using the camera system for the first time, charge the batteries for 12 hours. After the initial charge, charging the batteries takes just a few hours.

Note: The first time you charge the battery, be sure to charge the battery for 12 hours, regardless of the indicator light turning off.

Maximizing battery use

Many factors contribute to the amount of shots that can be taken with a single battery. The following will help you get the most out of your battery:

- Set your camera system to enter sleep mode, or turn it off, when not in use.
- Set the backlight on the imaging module to turn off after the camera system has been idle for a certain amount of time.
- Do not lock the mirror up unnecessarily.

Note: Extreme (cold or hot) temperature environments have an adverse effect on battery power. Charging batteries in extreme temperature environments does not guarantee a full charge.

Note: Older batteries are less effective, even when not used.

Battery status icons

The camera and imaging module each have their own battery status icon.

- The battery icon on the viewfinder display indicates the power status of the battery in the handgrip. It has two levels, full and 50%.
- The battery icon on the imaging module indicates the power status of the imaging module. The icon has five levels - 100%, 75%, 50%, 25% and 0%.

Note: When using a single battery in the camera handgrip, the battery icon on the imaging module also reflects the status of the battery in the handgrip.

Charging the battery

Before using the camera system for the first time, charge the batteries for 12 hours. After the initial charge, charging the batteries takes just a few hours.

Before performing this procedure, refer to the Safety Guide (part number 761-00055A-MUL) on the Leaf Capture software CD.

Use the hähnel MCL 103 battery charger provided with the Leaf A*Fi* camera system to charge the lithium ion battery.

1. Connect one end of the 12-volt DC power supply cable to the MCL 103 battery charger.
2. Connect the other end of the power supply cable to a wall outlet.

Note: The 12-volt DC power supply is designed for use with 100-240 input voltages (50-60Hz).

Important: Use only the power supply cable provided.



3. Holding the battery with the contacts facing down, slide the battery into the charger all the way down until the contacts meet.

Charging begins, and an indicator light turns on. The indicator light begins to blink when the battery is 95% charged. Charging is complete when the indicator light turns off.

Note: The first time you charge the battery, be sure to charge the battery for 12 hours, regardless of the indicator light turning off.

Note: The battery should not be left in the charger when the charger is not connected to a power supply. If a battery is left in an unpowered charger, the red indicator light on the charger and the green indicator light on the power supply are illuminated using power from the battery, giving the false impression that the battery is being charged. If you do not take the battery out of the charger, the battery will discharge.

4. To remove, slide the battery off the charger.

Charging the battery in your car

Use the 12-volt cigarette lighter power adapter provided with the Leaf A*Fi* imaging module to charge the lithium ion battery in your car.

Before performing this procedure, refer to the Safety Guide (part number 761-00055A-MUL) on the Leaf Capture software CD.

1. Connect one end of the power adapter cable to the hähnel MCL 103 battery charger.
2. Connect the other end of the car lead cable to the 12-volt car socket.
3. Holding the battery with the contacts facing down, slide it into the charger all the way down until the contacts meet.

Charging begins, and an indicator light turns on. The indicator light begins to blink when the battery is 95% charged. Charging is complete when the indicator light turns off.

Note: The battery should not be left in the charger when the charger is not connected to a power supply. If a battery is left in an unpowered charger, the red LED on the charger is illuminated using power from the battery, giving the false impression that the battery is being charged. If you do not take the battery out of the charger, the battery will discharge.

4. To remove, slide the battery off the charger.

Formatting a CompactFlash card

You must format a CompactFlash card before using it in the Leaf A*Fi* camera system.

There are two ways to format your CF card: a regular format and a quick format.

Regular format

Perform a regular format in each of the following circumstances:

- The CF card is new.
- You have used the CF card in a non-Leaf digital camera back.

You can format the card on a computer running the Apple® Mac OS® operating system or the Microsoft® Windows® operating system. To read the card, you can use a card reader or the Leaf *AFi* imaging module.

Note: If you use the Leaf *AFi* imaging module as a card reader, we recommend that you format the card on a computer running Mac OS X.

Note: Formatting the CF card erases all data on the card.

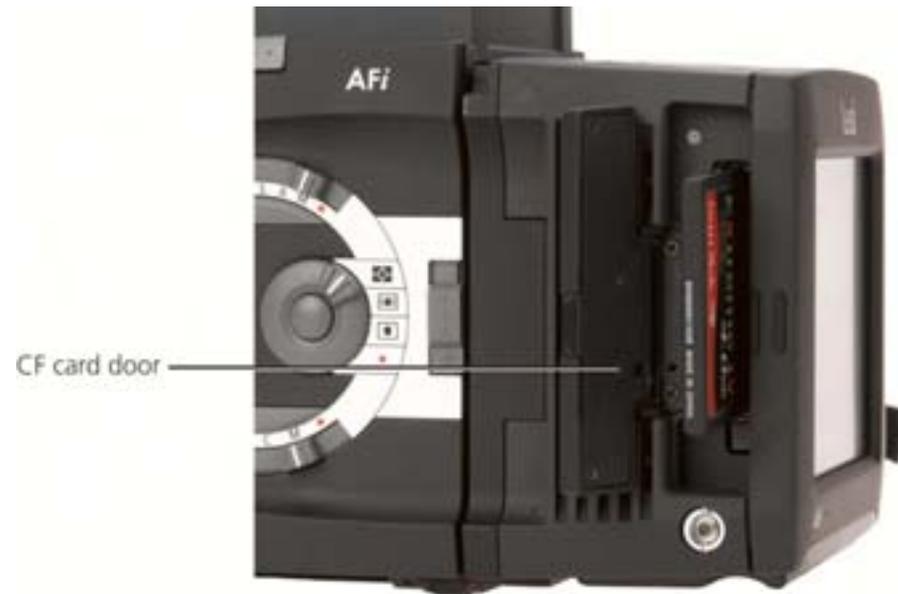
Quick format

Perform a quick format in your Leaf *AFi* imaging module if you have been using the CF card with your imaging module, and you want to erase all the data on the card or if the card is not performing as expected—for example, you cannot save pictures on the card, saving on the card takes a long time, or messages indicate a problem with the card.

Inserting a CompactFlash card

Insert a CF card in your imaging module to save your shots onto when you are shooting portable, and then to use as a card reader when downloading your shots or formatting the card.

1. Open the CompactFlash card door on the imaging module.



2. Insert the CompactFlash card.

Formatting a CompactFlash card in Mac OS X

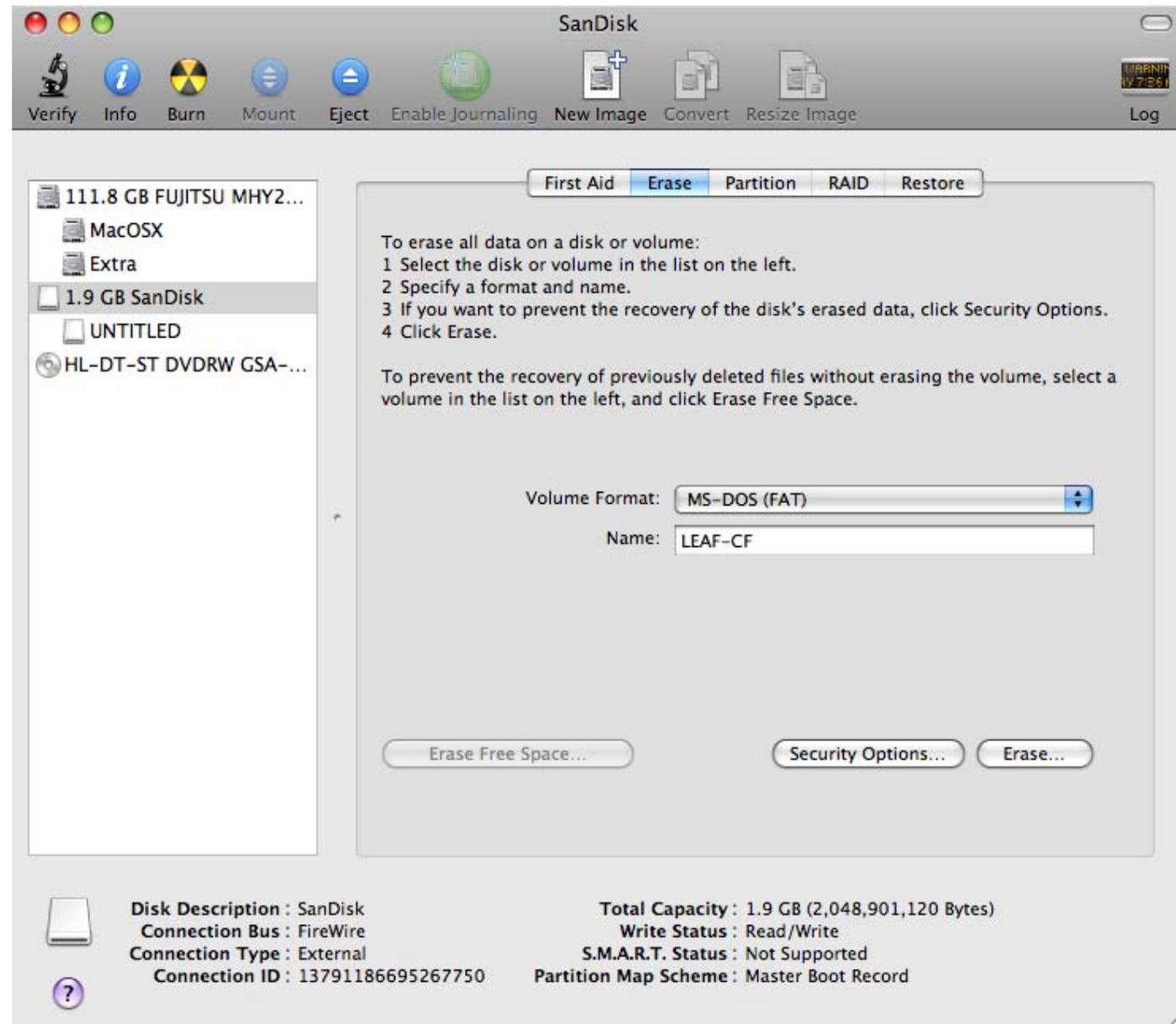
You must format a CompactFlash card before using it in the Leaf AFi camera system.

Note: Formatting a CF card erases all data on the card.

1. Insert the CompactFlash card into the card reader or the Leaf AFi imaging module.
2. On the desktop, double-click the system disk.
3. Select **Applications > Utilities > Disk Utility**.

4. On the left panel of the Disk Utility dialog box, select the removable disk that you want to format.
5. Click the **Erase** tab.
6. In the **Volume Format** box, select **MS-DOS (FAT)**.

7. In the **Name** box, type LEAF-CF.



8. Click **Erase**.

The Erase Disk message appears.

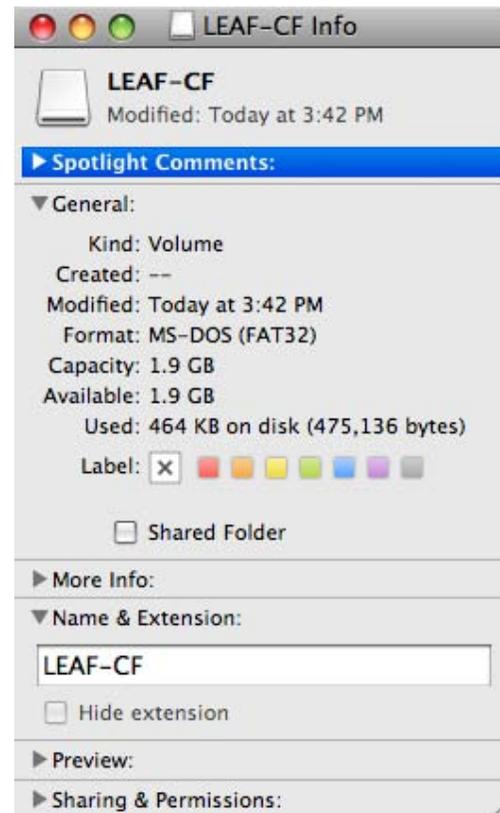


9. Click **Erase**.

Formatting is complete when the progress bar disappears from view, the **Volume Format** box shows **MS DOS (FAT32)**, and the **Name** box shows **Untitled**.

10. On the desktop, select **LEAF-CF volume**.

11. Select **File > Get Info** .



12. In the Leaf-CF Info window, check that **Format** shows **MS-DOS (FAT32)**.
13. Close the Disk Utility application.
14. Drag the **LEAF-CF** volume to **Trash**.

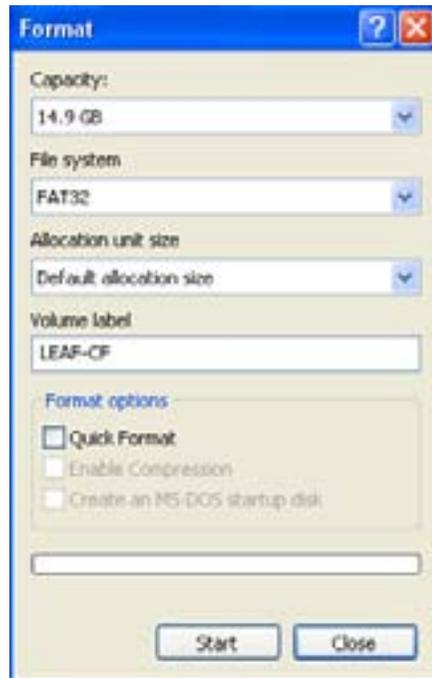
The CF card is now ready for use with the Leaf A*Fi* camera system.

Formatting a CompactFlash card in Windows

You must format a CompactFlash card before using it in the Leaf A*Fi* camera system.

Note: Formatting a CF card erases all data on the card.

1. Insert the CompactFlash card in a card reader.
2. In Windows Explorer, click **My Computer**.
3. Right-click **Removable Disk**, and from the menu, select **Format**.
The Format dialog box appears.



4. In the File System box, select **FAT32**.
5. In the **Volume label** box, type LEAF-CF.

6. Click **Start**.



7. In the warning message, click **OK**.
The CF card is formatted. When the format is complete, a message appears.



8. Click **OK**.
9. In Windows Explorer, click **My Computer**.
10. Right-click **LEAF-CF**, and from the menu, select **Eject**.

You can now remove the CF card and use it with the Leaf AFi camera system.

Performing a quick format on a CompactFlash card

Perform a quick format on a CF card to erase all the data on the card or if the card is not performing as expected, for example, you cannot save pictures on the card, saving on the card takes a long time, or if you receive error messages concerning the card.

If the CF card is new, or if you have used the CF card on a non-Leaf digital camera back, perform a regular format and not a quick format.

This task is performed on the Leaf AFi imaging module, in **Setup** view. You can only perform a quick format in portable mode.

Note: Formatting a CF card erases all data on the card.

1. Tap **Quick Format**.



2. Tap the disk that you want to format, and then tap **choose**.



3. Tap **ok**.

Removing a CF card in portable mode

Remove the CompactFlash card from the imaging module to change cards or to download your images using an independent CF card reader.

Do not remove the CF card from the imaging module while:

- The indicator light on the imaging module is blinking
- The CF card icon on the imaging module is blinking
- The indicator light inside the CF card compartment is blinking

- Open the CompactFlash card door, and then press the release button.



Removing a CF card in tethered mode

Remove the CompactFlash card from the imaging module to change cards or to download your images using an independent CF card reader.

Removing the CF card from the imaging module while shooting in tethered mode stops communication between the imaging module and Leaf Capture software.

Do not remove the CF card from the imaging module while:

- The indicator light on the imaging module is blinking
- The CF card icon on the imaging module is blinking
- The indicator light inside the CF card compartment is blinking

1. In the Leaf Capture software, click **Disconnect**.

2. Do one of the following:

- If you are tethered to a Mac, eject the CF card via the Apple® Macintosh® desktop.
- If you are tethered to a PC, eject the card via the CF card icon in the icon tray.

The CF card ejects from the imaging module.

4 Powering the camera system



Power supply

There are various ways to power your Leaf AFi digital camera system:

- A single battery solution, using a battery located in the handgrip
- A split supply solution using a battery in the handgrip and a second battery on the imaging module. This solution gives you longer battery life, enabling longer shooting times and the flexibility to remove the imaging module and continue working with it while the power is still on. The second battery powers the imaging module only.
- A split supply solution using a battery in the handgrip and powering the imaging module using a 12-volt DC power supply
- A split supply and tethered solution, using a battery in the handgrip and powering the imaging module via your computer using an Apple FireWire® cable

Notes:

When using a split supply solution, you must manually turn off the imaging module in the following circumstances:

- When you turn the power dial to OFF.
- When the camera system enters sleep mode.

Inserting a battery in the handgrip

You must have a charged battery in the handgrip in order to use your camera system.

Before using the camera system for the first time, charge the batteries for 12 hours. After the initial charge, charging the batteries takes just a few hours.

Note: If you are changing batteries, make sure that the camera is switched off before you remove the battery so that you do not lose any of your settings.

1. Open the case of the handgrip by squeezing the battery compartment release button and pulling the battery compartment door downward.



The compartment drawer opens.

2. Pull the compartment drawer away from the camera as far as possible, and then pull the compartment drawer downward.



3. Position the battery in the compartment drawer so that the flat side faces the camera body, and the terminals are at the top of the battery.
4. Slide the battery into the compartment.



5. Move the compartment drawer upward, and push it into the handgrip until it locks shut.



Removing the battery from the handgrip

Remove the battery from the handgrip to recharge the battery, or to store the battery separately from the camera system when it is not in use.

1. Open the case of the handgrip by squeezing the battery compartment release button and pulling the battery compartment door downward.

The compartment drawer opens.

2. Pull the compartment drawer away from the camera as far as possible, and then pull the compartment drawer downward.
3. Remove the battery from the compartment drawer.
4. To close the battery compartment, move the compartment drawer upward, and push it into the handgrip until it locks shut.

Attaching a battery to the imaging module

Attach a battery to the imaging module when you want to optimize the power supply, enabling longer shooting times and ability to remove and rotate the imaging module and continue working with it while the power is still on.

The second battery powers the imaging module only.

1. Push the button on the underside of the Leaf AFi imaging module to remove the battery slot cover.



2. Press the battery into the recess on the underside of the Leaf AFi imaging module, and then slide the battery across until it snaps into place.

Note: If you are using a battery on the Leaf AFi imaging module, you must manually switch off the imaging module when you shut down the Leaf AFi camera system and when the camera system enters power save mode.

If you are using a second battery on the Leaf AFi imaging module, you must manually switch off the imaging module when you shut down the Leaf AFi camera system and when the camera system enters power save mode.

Removing the battery from the imaging module

Remove the battery from the imaging module to recharge the battery, or to store the battery separately from the camera system when it is not in use.

- Press the battery release button, and then slide the battery out.



Attaching an external power adapter to the imaging module

Attach the external power adapter provided to the imaging module when you want to optimize the power supply. The power adapter enables you to shoot for a longer time and also to remove the imaging module and continue working with it while the power is still on. The external power adapter powers the imaging module only.

Note: In addition to the external power supply, you need a charged battery in the handgrip.

1. Insert the end of the external power adapter into the FireWire port on the Leaf AFi imaging module.



2. Connect the other end of the external power adaptor to the 12-volt DC power supply.
3. Connect the power supply to a power outlet.

Tethered power management

By default, when you connect the camera system to the computer using the FireWire cable, the imaging module draws power from the computer via the FireWire cable, and the camera is powered by the battery in the handgrip.

You can also use your FireWire cable to power your imaging module when you shoot tethered.



Setting tethered power to battery

Power sources vary, and if the power to the imaging module is insufficient, then you must opt to power the camera system from the battery in the handgrip. Perform this task when you connect your system to your computer and the imaging module does not turn on.

This task is performed on the Leaf AFi imaging module, in **Setup** view.

1. Remove the FireWire cable.
2. Turn your camera system off and on again.
3. On the imaging module, tap **Setup**.
4. Tap **Tethered Imaging Power**.
5. Tap **Camera Battery** to power the imaging module using power from the battery in the handgrip.
6. Turn your camera system off.
7. Connect your camera system to your computer using a FireWire cable, and then turn on the camera system.

Both the camera and the imaging module are now powered using the battery in the handgrip. As you shoot, your shots are sent to your computer.

Important: The **Tethered Imaging Power** is set to **Battery** until you change it. If you use your Leaf AFi camera system on a different computer, reset the **Tethered Imaging Power** to **FireWire**.

5 Handling your camera system



Using the viewfinder

Use the viewfinder to compose and focus your shots.

A waist-level viewfinder equipped with a pop-up loupe is provided with the Leaf A*F*i camera system. Optional 45° prism and 90° viewfinders are also sold separately.

Changing the viewfinder

You can change the viewfinder according to your preference.

1. Press the viewfinder release buttons on each side of the camera, and pull the attached viewfinder off the camera body.



2. Store the viewfinder in a safe place.
3. Place the second viewfinder horizontally on the top of the camera, and press the viewfinder downward.

The viewfinder locks into place, making a clicking sound.

Note: Make sure that the viewfinder is locked in place on both sides.

Opening the waist-level viewfinder

Open the waist-level viewfinder to use it. You can also use the pop-up loupe to magnify your view.

1. Gently pull the top of the waist-level viewfinder that is closest to the imaging module.

The viewfinder locks open.

Important: Do not pick up or hold the Leaf *AFi* camera system by the viewfinder.

2. To open the pop-up loupe, gently lift the tab on the upper-right side of the waist-level viewfinder. The pop-up loupe opens and locks in place.

Changing the focusing screen and mask

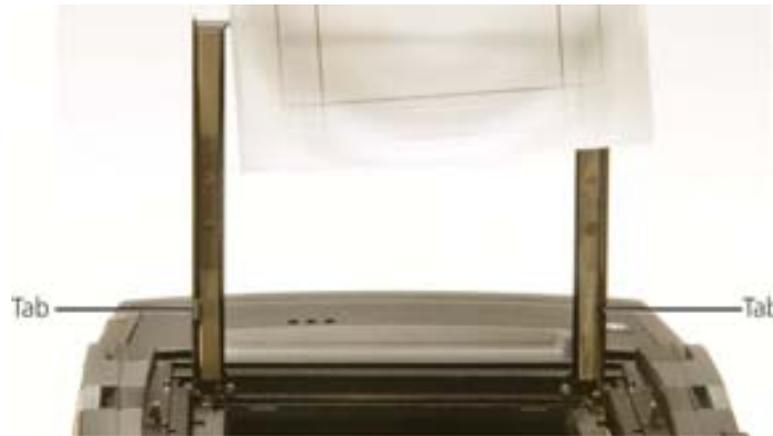
The Leaf *AFi* camera system comes with an AF High D focusing screen. You can switch the screen with other optional Leaf *AFi* camera system screens, according to preference.

1. Remove the viewfinder from the camera.
2. Pull the viewfinder frame up by gently pulling the pin on each side of the viewfinder frame toward the back of the camera and then pull them upward.



The front end of the viewfinder frame comes up.

3. Slide out the viewfinder screen. If there is a mask, slide it out as well.



4. Slide in the new focusing screen and mask between the springs and the tabs.
Note: The matte side of the focusing screen should face down.
5. Push down the viewfinder frame until it clicks.
6. Replace the viewfinder.

Closing the waist-level viewfinder

- Push the hinges on each side of the waist-level viewfinder inward.

The viewfinder folds shut.

Replacing the diopter lens in the waist-level viewfinder

If you wear eyeglasses, you can replace the diopter lens with a diopter lens suited to your eyesight for a sharper image in the viewfinder.

The viewfinder should be detached from the camera body when you perform this task.

1. Open the waist-level viewfinder and pop-up loupe.

2. Put one hand under the pop-up loupe, and support it on both sides of the diopter lens.
3. Grasp the top of the diopter bayonet ring, and rotate the ridged tabs approximately 30° counterclockwise.
4. Remove the diopter bayonet ring.



5. Place the new diopter bayonet ring on the pop-up loupe, making sure that the ridged tabs are facing up and that the smaller tabs fall into the slots on the loupe.
6. Rotate the diopter bayonet ring clockwise until it locks into place.

Replacing the diopter lens in the 45° prism viewfinder

If you wear eyeglasses, you can replace the diopter lens with a diopter lens suited to your eyesight for a sharper image in the viewfinder.

The 45° prism viewfinder is an optional accessory. Contact your dealer for further information.

1. Fold the prism eyecup backward.
2. Gripping the eyecup, use a small screwdriver to carefully rotate the viewfinder retaining ring counterclockwise until it is loose.
3. Use your fingers to unscrew and remove the retaining ring.

4. Remove the diopter lens from the retaining ring.
5. Place the new diopter lens in the retaining ring.
6. Place the retaining ring in the eyecup, and use your fingers to screw the ring clockwise.
7. Tighten the retaining ring with the small screwdriver.

Attaching a lens

Note: The Leaf A*Fi* camera system is compatible with all PQ and PQS lenses built for the Rollei® 6008 camera.

1. Press the lens release button, and rotate the body cap counterclockwise to remove the cap on the front of the camera system.
2. Remove the rear lens cap from the lens.
3. Align the red arrow on the rear of the lens with the red arrow on the camera body.



Attach lenses to the camera in a clean and dust-free environment.

4. Insert the lens, and rotate it clockwise firmly.
The lens locks into place, making a clicking sound.

Removing a lens

Important: If you use an extension tube, teleconverter, retro adapter, or bellows attachment with the Leaf AFi camera system, always remove the lens and accessory together from the camera body before releasing the lens from the accessory. Do not connect or disconnect the lens and the accessory while the tube is attached to the camera body.

1. Press the lens release button and rotate the lens counterclockwise.
2. Replace the rear lens cap and the camera body cap.

Removing, rotating, and attaching the imaging module

You can remove the imaging module from the camera body when you want to rotate the imaging module, to replace it with an analog back, or to use the imaging module on another camera.



Note: As the Leaf AFi camera system comes with the imaging module attached to the camera, the imaging module does not need to be assembled for first time use.

1. Turn the power dial to OFF.

Important: The power dial must be set to OFF when you remove and attach the imaging module.

2. To remove the imaging module, hold the Leaf AFi camera system securely, push the back release spring switch inward and upward, and gently pull the imaging module away from the camera body.

Note: Use the covers provided to protect the back of the camera and the front of the Leaf AFi imaging module when the imaging module is detached from the camera body and not in use.

3. If you wish to rotate the imaging module, rotate it 90° counterclockwise.
4. Holding the imaging module parallel to the camera body, align and insert the imaging module pins into the holes in the back of the camera body.
5. Push the imaging module and camera body together firmly, so that all the pins lock in at the same time.
You hear a clicking sound as the pins lock.
6. Gently pull the imaging module away from the camera body to check that all the pins are locked. If only two pins are locked, release the imaging module and re-attach it again.

To rotate the imaging module display, select **Setup > Shoot View Options**, and set **Auto-Rotation** to **On**.

Adjusting the handgrip position

The handgrip can be locked in one of four positions. You cannot remove the handgrip.

1. Holding the Leaf AFi camera system securely, push up and hold the handgrip release button.



2. Rotate the handgrip to any of the positions.



3. Release the handgrip release button.
The handgrip locks into place.

Attaching the neck strap

The neck strap has a metal lug at each end for securing it to the camera system.

1. Remove the imaging module from the camera body.
2. Remove the viewfinder from the camera body.

3. Hold one of the neck strap lugs so that the bend at the top of the lug is facing outwards.



4. Insert the lug into one of the slots located on the side of the camera.



5. Push the metal lug down until you hear a click.

Note: If you do not hear a click, wiggle the lug until you hear the click.

The metal lug locks into place.

6. Repeat these steps for the second lug.

Important: Make sure that the lugs are locked in place so that the camera system will not accidentally fall.

Removing the neck strap

When you remove the neck strap, make sure that the camera system is in a secure location where it cannot fall.

1. Remove the imaging module from the camera body.
2. Remove the viewfinder from the camera body.
3. Holding the camera body securely, push down on the neck strap lug.
4. Maintaining pressure, pull the neck strap lug away from the camera body, and then downward rotating the lug 90°.

The neck strap comes off the camera.

Attaching the handgrip strap

Use the handgrip strap to help you hold the Leaf *AFi* camera system.

Use a small, thin object such as the stylus to release the lug bolts.

The handgrip strap is attached to the camera in two places by lug bolts.

1. Insert the end of the stylus into the lug bolt hole, push the bolt all the way in, and maintain pressure on the stylus.
2. While maintaining pressure on the stylus, insert the handgrip strap buckle into the slot until you hear a click.
3. Release the stylus.
The lug locks into place.
4. Repeat these steps for the second buckle on the handgrip strap.

Note: Tug the handgrip strap on both sides to make sure that both lugs are secure.

Removing the handgrip strap

You need a small, thin object such as the stylus to release the lug bolts.

The handgrip strap is attached to the camera in two places by lug bolts.

1. Insert the end of the stylus into the lug bolt hole, push the bolt all the way in, and maintain pressure on the stylus.



2. While maintaining pressure on the stylus, remove the handgrip strap from the slot.



Locking the mirror

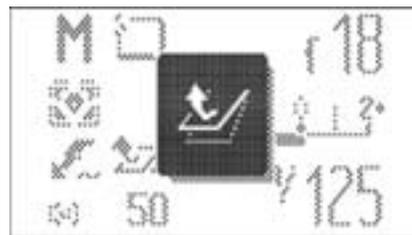
Lock your camera's mirror into the up position to increase shooting speed, to avoid vibrations that might occur when the mirror moves, to shoot with Live View in tethered mode, or to clean the inside of the camera.

- Push the mirror lock button.

The mirror moves into the up position and stays there until one of the following occurs:

- You push the mirror lock button a second time
- You push the lens release button
- The camera system enters sleep mode
- You turn the camera system off

The mirror up icon appears on the handgrip display:



Tripod plate

Your camera system is equipped with two tripod sockets, 1/4 inch and 3/8 inch. The camera's 3/8 inch socket comes with a 1/4 inch insert.

The tripod plate on the bottom of the Leaf AFi camera system is designed to be clamped on a Novoflex® Q-Base system.



Turning on the camera system and setting the shutter release mode

Before you turn on your camera system, insert a charged battery in the handgrip, and a CF card in the imaging module.

1. Set the power dial to single shot, continuous, or—for advanced settings—the red dot.



Note: If you set the power dial to the red dot for advanced settings, set exposure bracketing, focus bracketing, the self-timer, or to shoot continuously with the mirror locked up.

2. Briefly push the shutter release button to prepare the camera for use.
The handgrip display turns on. The indicator light on the top of the imaging module turns orange and then starts to blink. After a short time, it turns green and the imaging module beeps. The imaging module display turns on, and the message **Ready to Shoot** appears. The camera system is now ready to use.

Note: If the camera system is not used for three minutes, it automatically enters sleep mode. You can set the amount of time after which the camera enters sleep mode. To activate the camera from sleep mode, briefly push the shutter release button.

Turning off the camera system

Turn off the camera system when not in use to conserve the battery power.

- Turn the power dial to OFF.
The camera and imaging module turn off.

Note: When using a split supply solution, turning the power dial to OFF does not turn off the imaging module. Turn off the imaging module by pushing the imaging module power button.

Taking a shot

Push the shutter release button to take a shot.

Do not take a shot when the busy symbol is displayed on the imaging module.

- Push the shutter release button down all the way.



The indicator light on the top of the imaging module blinks orange. If you have set the imaging module to beep, you will hear a beep when the imaging module recognizes the shot. The shot appears on the imaging module display.

Busy symbol:



6 Adjusting settings for a shoot



Choosing the Shots folder for your shoot

At the beginning of your shoot, designate a folder in which to save your shots.

This task is performed on the Leaf *AFi* imaging module, in **Camera** view.

1. Tap **Shots Folder**.
2. Double tap the CF card.
3. Tap the desired folder.

Note: If necessary, tap **new** and create a new folder.

4. Tap **choose**.
5. Tap **ok**.

Assigning a base name for your files

Define a base name for your shots so that the Leaf *AFi* camera system will apply the name to all shots, adding a number in sequence each time, until you define a new base name.

This task is performed on the Leaf *AFi* imaging module, in **Camera** view.



1. Tap **File name**.



2. Tap **kbd**.



3. On the virtual keyboard, tap a base name for the shot, and then tap **ok**.

Shooting with lossless compression

Save the shots on your CF card with lossless compression to optimize your space on the card.

This task is performed on the Leaf *AFi* imaging module, in **Camera** view.

1. Tap **Compression**.
2. Tap **Lossless**.
3. Tap **ok**.

Defining the camera in the imaging module

If you use the imaging module on a camera other than the Leaf *AFi* camera, define which camera so that the camera-related settings are automatically adjusted in the imaging module.

This task is performed on the Leaf *AFi* imaging module, in **Camera** view.

1. Tap **Camera**.
2. Tap the name of the camera you are using.
3. Tap **ok**.

Defining the shot orientation

Set the orientation of your shot.

This task is performed on the Leaf *AFi* imaging module, in **Camera** view.

1. Tap **Orientation**.
2. Tap the desired orientation.
3. Tap **ok**.





Selecting a gray balance setting for your shoot

Select a gray balance setting for your shoot that suits the lighting you are using.

This task is performed on the Leaf A*Fi* imaging module, in **Camera** view.

1. Scroll down and tap **Gray Balance**.
2. Tap a gray balance setting that suits the lighting for your shoot.
The setting is applied to subsequent shots until you change the setting. If you want to make adjustments to the gray balance, take a shot and then adjust the gray balance in **Shoot** view.

Setting gray balance

Set the gray balance at the beginning of your shoot if you want to make fine adjustments to the gray balance setting you are using.

This task is performed on the Leaf A*Fi* imaging module, in **Shoot** view.



1. Take a shot that includes a gray card, or make sure that it has a neutral gray area in the shot. The shot appears on the imaging module.



2. Tap **gray**.



3. Tap the gray card or a gray spot in the image. The shot gray balance is adjusted.
4. Do one of the following:
 - Tap **ok** to use the new gray balance setting.
 - Tap **cancel** to select another spot.

The gray balance setting is applied to all subsequent shots.

If the gray area is not large enough to accurately select a neutral spot in full-screen view, use the zoom tool to enlarge your picture before setting the gray balance.



Setting the develop curve

Select a develop curve setting for your shoot that suits the shooting conditions.

This task is performed on the Leaf AFi imaging module, in **Camera** view.

1. Tap **Develop Curve**.
2. Tap the develop curve setting and tap **ok**.
3. Tap **ok**.

Setting the color

You can manage the color of the shots you take to optimize the shot color.

This task is performed on the Leaf AFi imaging module, in **Camera** view.

1. Tap **Color**.
2. In the **Color Management** row, tap **On**.
3. Tap **Color Look** and select the desired color look from the list.
4. In the **Color Mode** row, tap **Color** or **B/W** for black and white.
5. Tap **Color Space** and select the desired color space from the list.
6. Tap **ok**.

Setting the sharpness

Select a sharpness for your shoot that suits the shooting conditions.

This task is performed on the Leaf AFi imaging module, in **Camera** view.

1. Tap **Sharpness**.



2. Tap the sharpness setting and tap **ok**.
3. Tap **ok**.

Setting shots to appear with overlays

Set whether your shots appear on the imaging module with the image information and histogram showing.

This task is performed on the Leaf AFi imaging module, in **Setup** view.

1. Tap **Shoot View Options**.
2. Tap **On Shoot**.



3. Tap the desired option:
 - To set your shots to appear with the image information and histogram showing, on the **Clear overlays** row, tap **No**.
 - To set your shots to appear without the image information and histogram showing, on the **Clear overlays** row, tap **Yes**.





To view the menu buttons when working in full-screen view, tap the image.



To turn off the crop mask, tap **Off**.

Setting shots to appear in full-screen view

Set your shots to appear on the imaging module with the menu buttons hidden for a full-screen view of your shots as you shoot.

This task is performed on the Leaf AFi imaging module, in **Setup** view.

1. Tap **Shoot View Options**.
2. Tap **On Shoot**.



3. On the **Maximize image** row, tap **Yes**.

Taking shots with a crop mask

Set your shots to appear on the imaging module with a crop mask. The crop mask is applied to all subsequent shots, until you change the setting. The crop size is applied to the image during processing.

Set a crop mask size. See Setting the crop mask size on page 183.

This task is performed on the Leaf AFi imaging module, in **Setup** view.

1. Tap **Shoot View Options**.
2. In the **Crop Masking** row, tap **On**.

The crop mask appears on future shots, until you change the setting.

Note: The crop mask is not shown on the thumbnails in **Edit** view.

Adding a description and copyright information to your shots

Add a description and copyright information to your shots to facilitate image management and copyright protection.

This task is performed on the Leaf AFi imaging module, in **Camera** view.

1. Scroll down and tap **Notes**.



2. Tap the area where you want to add information—the **Description** area or the **Copyright Notice** area.
3. Use the virtual keyboard to enter information, and tap **ok** to save it.

The description or copyright information is added to the metadata of the selected shot and all future shots.



7 Setting the exposure



Setting the ISO

Set the ISO on the imaging module.

This task is performed on the Leaf *AFi* imaging module, in **Camera** view.

Note: Using the metering mode button to set the ISO is not functional at this time.

1. Tap **Camera** to access the camera settings.
2. Tap **ISO**, and tap the desired setting.
The camera settings that you specify are applied to all future shots.

Metering system

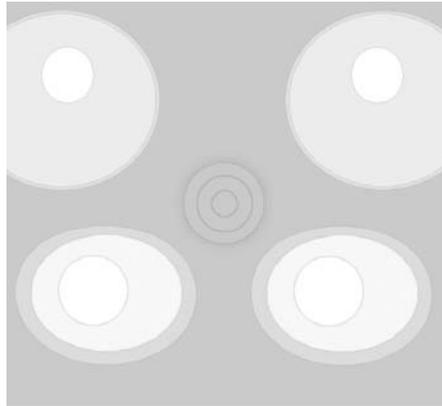
Your Leaf *AFi* camera system uses seven different sensors to measure exposure. There are two sensors at the top of the frame, one in the center, and two pairs of sensors at the bottom. The camera system's microprocessor assigns different weights to the measurements of the various sensors according to the metering mode that you select. To get the best results, set the metering mode that fits the lighting conditions.

Multizone metering

In the multizone metering mode, the camera system measures light intensity at six points and combines the results to find the settings for the best exposure. Multizone metering gives more weight to the readings of lower sensors.

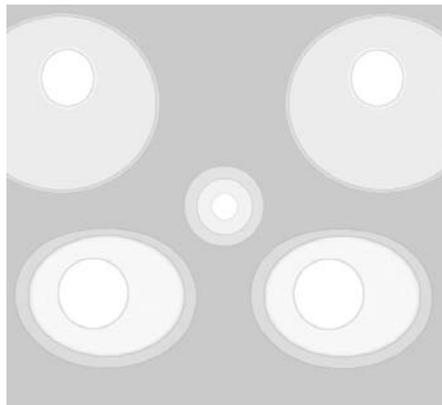


The multizone metering method assigns a weight of 33.33% to the two upper sensors, and 66.66% to the four lower sensors.



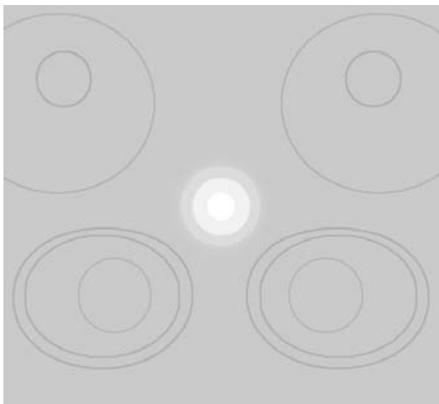
Center-weighted metering

In the center-weighted metering mode, the camera system uses all seven sensors to measure light intensity. The center-weighted metering method assigns a weight of 50% to the central sensor, and 50% to the remaining six sensors.



Spot metering

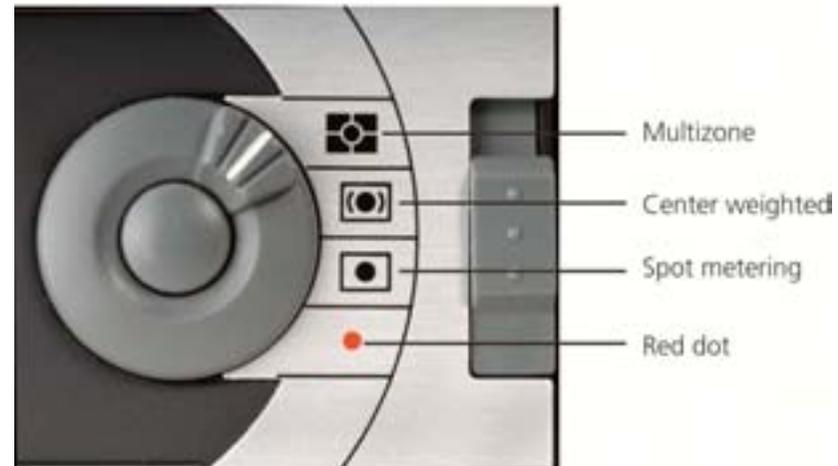
In the spot metering mode, the camera system uses the central sensor to measure light intensity of one spot in the scene (about 1% of the viewfinder area).



Selecting a metering mode and taking a reading

Select a light metering mode that best fits the lighting conditions, and take a light reading.

1. Set the metering mode switch to the desired mode.



2. Push the shutter release button until it reaches the halfway position and you encounter light resistance. The camera system measures the light and stores the reading as long as you hold the shutter release button in the halfway position.

Note: When you hold down the shutter release button, the autofocus is also locked.

Setting exposure metering activation

You can set the exposure metering to be activated automatically when you press the shutter release button, or manually by pushing the AE button. You might want to activate the exposure meter manually under some circumstances.

1. Push the options button, and use the rear dial to select **RE ACTIVATION**.
2. Use the front dial to select one of the following:
 - **RELEASE BTN:** The exposure meter is automatically activated when you push the shutter release button halfway down.
 - **MANUAL:** The exposure meter is activated when you push the AE button. Select this method when you want to use the autofocus setting while maintaining the exposure of the last shot.

The handgrip display shows the selected option.



To lock the autoexposure independently of the autofocus, push and hold the AE button immediately after taking the light reading. The exposure is locked until you release the AE button.



3. Push the options button to close the **Options** menu.

Exposure modes

Move the AE switch to select from a range of exposure modes.

Option	Meaning	Description
P	Program autoexposure	The camera system automatically selects the optimal aperture and shutter combination. If you change the shutter time or the aperture setting, the other value is automatically adjusted.
S	Shutter priority exposure control	When you set the AE switch to S, set the shutter speed with the rear dial. The aperture is automatically selected by the camera when you take the shot.
A	Aperture priority exposure control	When you set the AE switch to A, set the aperture with the front dial. The shutter speed is automatically selected by the camera when you take the shot.
M	Manual setting of exposure control	You set the aperture and shutter speed. Note: With non-AFD lenses, you can use the aperture ring of the lens to set the aperture and use the rear dial to set the shutter speed.

Option	Meaning	Description
Red dot	Advanced	<p>While holding down the AE button, you can use the rear dial to set options for exposure:</p> <ul style="list-style-type: none">• MANUAL (Manual setting of exposure control)• APERTURE PRIO. (Aperture priority exposure control)• SHUTTER PRIO. (Shutter priority exposure control)• PROGRAM (Program autoexposure)• BULB: the shutter opens for as long as you hold the shutter release button, to a maximum of 32 seconds.• TOGGLE (Time): when you press the shutter release button, the shutter opens and remains open until you press the shutter release button again, to a maximum of 32 seconds. <p>Note: You cannot perform continuous shooting when you use the BULB or TOGGLE modes.</p>

Selecting an exposure mode

Use the AE switch to select an exposure mode.

1. Move the AE switch to select the desired exposure mode.



Note: If you are working with non-AFD lenses, you must set the aperture ring to A for the automatic functions (program, aperture priority, and shutter priority) to work. If the aperture ring is not set to A, you must set the aperture manually at the lens.

2. If you set the switch to the red dot, hold down the AE button and use the rear dial to select the desired setting.

Locking the exposure setting without locking the autofocus

If you are taking a shot where the light conditions will alter the desired exposure and you want the ability to use autofocus, lock the exposure without locking the autofocus.

1. Set the AE switch to **P**, **S**, or **A**.
2. Set the AF switch to **S** or **C**.
3. Aim the camera at a subject that has the same luminescence as the subject you are shooting.
4. Press and hold down the shutter release button halfway to take a reading.
5. Still holding the shutter release button halfway, push and hold down the AE button. The exposure is locked.

6. Release the shutter release button.
7. Position the camera and take a shot of the desired subject.
When you press the shutter release button halfway, the camera autofocuses for the shot.
The shot is taken.
8. Release the AE button.

Locking the exposure setting and the autofocus

Lock the exposure and the autofocus when you are taking a shot where the subject is not at the center of the frame. You lock the exposure and autofocus on your subject and then move the camera to take the shot.

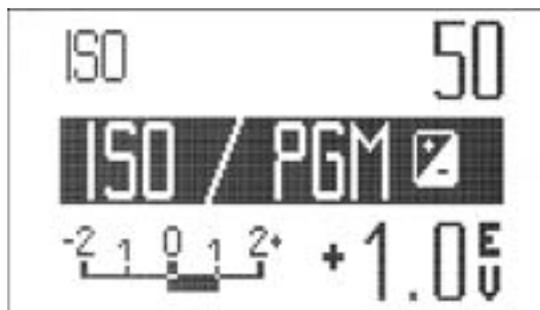
1. Set the AE switch to **P**, **S**, or **A**.
2. Set the AF switch to **S**.
3. Aim the camera on your subject.
4. Press and hold down the shutter release button halfway.
The exposure and focus are locked.
5. Position the camera for the desired shot, and take the shot.

Setting the EV compensation

Set the EV compensation when you want to override the camera's autoexposure.

- Push the metering mode button, and rotate the rear dial to set the amount of EV compensation. You can compensate +/-5 EV in one-third stop increments.

The EV compensation is shown on the handgrip and viewfinder display.



Advanced settings for shutter release mode

Setting exposure bracketing

When you meter a scene using autoexposure (P, S, or A), your camera system's light meter selects an aperture, shutter speed, or both, giving you a properly exposed shot. Use exposure bracketing to take extra shots, slightly underexposed and slightly overexposed. The resulting set will contain shots that vary the exposure.

The exposure mode that you selected affects the method of bracketing. When the camera is set to shutter priority, the aperture is adjusted automatically for the bracketed exposures. Similarly, when the camera is

set to aperture priority, the shutter is adjusted automatically for the bracketed exposures. When the camera is set to program mode, the camera selects a new aperture, a new shutter speed, or both to give the bracketed exposures.

1. Set the power dial to the red dot.
2. Push and hold down the shoot options button.
3. Set the rear dial to **Exposure Bracketing**.
4. Use the front dial to set bracketing of three or five exposures in increments of one-third of a stop, two-thirds of a stop, or a full stop.



5. Release the shoot options button and then push the shutter release button.
When you push the shutter release button, the camera takes the selected number of exposures in the selected increments.

Setting the self-timer

Set the self-timer to delay exposure. You can set an amount of time from ¼ second to 2 minutes, 8 seconds.

1. Set the power dial to the red dot.
2. Push and hold down the shoot options button.
3. Rotate the rear dial to set **SELF-TIMER**.

4. Rotate the front dial to set the amount of time that you want to delay before taking the shot, from $\frac{1}{4}$ second to 2 minutes, 8 seconds.



To cancel the self-timer once it has been activated, push and then release the shutter release button.

5. Release the shoot options button.

The self-timer is set. The self-timer icon  appears on the handgrip display.

6. Push the shutter release button to activate the timer.

The camera system waits for the specified amount of time and then takes a shot.

Shooting continually with the mirror locked up

Lock your camera's mirror into the up position to increase shooting speed.

1. Set the power dial to single or continuous shooting.
2. Push the mirror lock button.
3. Push the shutter release button, and start shooting.



8 Focusing the camera



Focus modes

Select an automatic or manual focus mode or advanced autofocus options.



Mode	Meaning	Description
S	Single	The camera automatically focuses on an object until the sharpest focus is achieved.
C	Continuous	The camera automatically continues to focus on an object for as long as you keep the shutter release button pushed halfway down. If the object moves, the focus continues to change until the object stops moving, or until you take the shot or release the shutter release button.
M	Manual	You focus the camera manually by turning the focusing ring on the lens.
Red dot	Advanced	Hold down the AF button and use the rear dial to set single, continuous and manual focus (as above).

Shooting with single autofocus

Shoot with single autofocus when you want the camera to automatically focus on an object until the sharpest focus is achieved.

1. Set the AF switch to **S**.

The single autofocus icon **AF S** appears in the handgrip display.

2. Look through the viewfinder, and position the focus area over the subject.
3. Push the shutter release button until you encounter light resistance.

The lens focuses automatically. When the subject is in sharp focus, two triangles appear on the focus indicator in the viewfinder display. When the camera system cannot focus on the subject, one of the triangle appears intermittently.

4. If the arrows indicate sharp focus, push the shutter release button all the way down to take the shot.
5. To refocus, release the shutter release button and push it again lightly.

Note: In poor light conditions, the internal IR illuminator assists the autofocus.



If the lens doesn't autofocus on the subject, point the camera at a well-textured or higher-contrast subject at the same distance as the subject. Push and hold the shutter release button halfway before repositioning your camera on the subject and taking your shot. If necessary, fine-tune manually.

Shooting with continuous autofocus

Shoot with continuous autofocus when you want the camera to automatically focus and continue to focus on an object for as long as you keep the shutter release button pushed halfway down.

1. Set the AF switch to C.

The continuous autofocus icon  appears in the handgrip display.

2. Look through the viewfinder, and position the focus area over the subject.
3. Push and hold the shutter release button halfway down.

The lens focuses automatically and continues to refocus if the subject or camera move. When the subject is in sharp focus, two triangles appear on the focus indicator in the viewfinder display. When the camera system cannot focus on the subject, one of the triangle appears intermittently.

4. If the arrows indicate sharp focus, push the shutter release button all the way down to take the shot.

Overriding autofocus

Override the autofocus when you are shooting with single or continuous autofocus, and want to manually adjust the focus.

1. Push the shutter release button halfway to activate the autofocus.
2. Push and hold down the AF button.
3. While you are still holding down the AF button, adjust the lens focusing ring and then push the shutter release button.

The shot is taken. When you release the buttons, the autofocus is active.

To focus automatically when you are in manual focus mode, push the AF button. The lens focuses and then you return to manual focus mode.

Shooting with manual focus

Use manual focus when you want to control the focus yourself.

1. Set the AF switch to **M**.
2. Aim the camera at the subject.
3. When the focus area is over the subject, adjust the lens focusing ring.
4. To help you focus, use the pop-up loupe in the waist-level viewfinder.
When the subject is in sharp focus, two triangles appear on the focus indicator in the viewfinder display. When the camera system cannot focus on the subject, one of the triangle appears intermittently.

Setting a focus trap

Set a focus trap to shoot moving subjects at a predefined distance.

Note: Do not lock the mirror in the up position when you are trapping the focus.

1. Set the AF switch to **M** (manual focus mode).
2. Set the power dial to the red dot.

3. Push and hold down the shoot options button, and rotate the rear dial to set **Focus Trap** in the handgrip display.



4. Release the shoot options button.
The focus trap icon  appears in the handgrip display.
5. Set the focus trap by manually focusing on a subject at the desired distance.
6. Point the camera at subject that is outside the focus range.
7. Push the shutter release button all the way down, and hold it down.
The shutter is not released because there is no subject in focus.
8. While holding the shutter release button down, point the camera at a subject that is at the same distance from the camera as the trapped focus point.
The shutter is automatically released.

Use focus stacking software to combine a series of bracketed images to make one image with a very deep depth of field.

To obtain more consistent results, use a tripod.

Focus bracketing

Focus bracketing enables you to take a series of shots in which the plane of focus automatically shifts over a distance in each shot.

After you select the central focus point in your base shot, the camera calculates the depth of field based on the selected aperture and the lens.

For each shot in the series, the autofocus lens shifts the focus to a different plane:

- For the first shot, the lens is shifted so that the rear edge of the depth of field is at the point of the center of the depth of field of the base shot.
- For the last shot, the lens is shifted so that the front edge of the depth of field is at the point of the center of the depth of field of the base shot.
- For the intermediate shots, the lens is shifted in equal distances between the first shot and the last shot. The middle shot in the series is the base shot that you set.

Setting focus bracketing

Use focus bracketing to take a series of shots with the autofocus lens shifting the focus plane for each shot.

You can only take shots with focus bracketing when you are using an AF or AFD lens.

1. Set up a base shot. The base shot that you set up here will be the middle shot in the bracket series.

Note: There is no need to take a shot at this point.

2. Set the power dial to the red dot.
3. Hold down the shoot options button, and set the rear dial to **BRACKETING F**.

- Using the front dial, select the number of exposures in the series.



The single autofocus icon  appears in the handgrip display.

- Release the shoot options button.
- Push the shutter release button, and hold it down.

The camera takes a series of exposures, with the lens shifting focus for each exposure.

Locking the autofocus without locking the exposure setting

If you are taking a shot where the light conditions vary, and you want to have ability to use autoexposure, lock the autofocus without locking the autoexposure.

- Set the AF switch to **S** or **C**.
- Focus on a high-contrast subject at the same distance as your subject.
- Push and hold the AF button.

The autofocus locks.

You can now position the camera and take a shot of the desired subject. Release the AF button after you have taken your shot.

If you are using a studio strobe or portable flash, it is recommended that you use a slow shutter speed to give the strobe or flash time to recycle. In this way, you avoid taking underexposed images caused by strobes that have not fully recycled.



Viewing the depth of field

You can check the depth of field visually using the viewfinder.

Note: You can also calculate the depth of field by making a visual calculation using the aperture numbers and distance scale of the lens.

1. Push the depth of field preview button, and hold it down.

The lens is stopped down to its exposure aperture. The depth of field preview icon  appears in the handgrip display.

2. Look through the viewfinder to view the depth of field of the final image.
3. Release the depth of field preview button when you are ready.

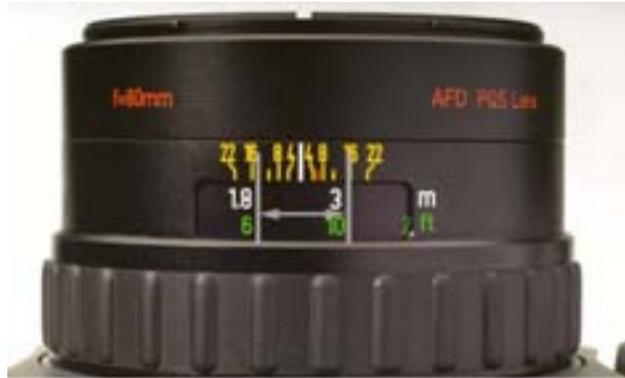
Calculating depth of field

Calculate depth of field by making a visual calculation using the aperture numbers and distance scale of the lens.

Note: You can also check the depth of field using the depth of field preview button.

1. Set the f-stop for your exposure.
2. Look at the top of the lens barrel, where the depth of field scale and distance markings are found.

3. Calculate the depth of field using the two distances marked on the lens barrel between the matching f-stop markings.



9 Evaluating your shots



Checking the exposure

In **Shoot** view, check the exposure of your shot in the following ways:

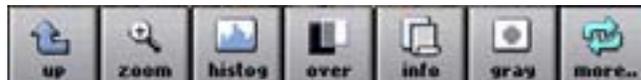
- Examine the histogram exposure data.
- Use the picker tool to view the exposure data for a specific spot on the image.
- Use the exposure alarms to view the overexposed and underexposed areas of the image.

Checking the exposure by examining the histogram

Examine the histogram to find out whether any parts of the shot are underexposed or overexposed.

This task is performed on the Leaf A*Fi* imaging module, in **Shoot** view.

1. Tap **histog**.



Press the user button to view the histogram, the exposure alarms and additional shot information when in **Shoot** view.

To maximize the display size of your shot, double-tap the shot.



The histogram appears. Areas of the image that lie within the exposure limits are shown in white. Underexposed areas and overexposed areas are shown in gray.



2. Examine the histogram to verify that most of the image lies within the exposure limits.

3. Tap  to enlarge the histogram.

Checking the exposure of a specific spot on the image

Use the picker tool to check the exposure for a specific spot on the image.

This task is performed on the Leaf AFi imaging module, in **Shoot** view.

1. Tap **histog**.



The histogram appears.



2. Tap , and then tap a spot on the image.

The spot that you tap is marked by a magenta circle. A magenta line on the histogram indicates the exposure data related to the spot. The exposure meter **+0.4** shows the overall exposure in f-stops.

Note: To remove the spot from the image, tap the histogram and then tap outside the image area.

Checking the exposure by activating the exposure alarms

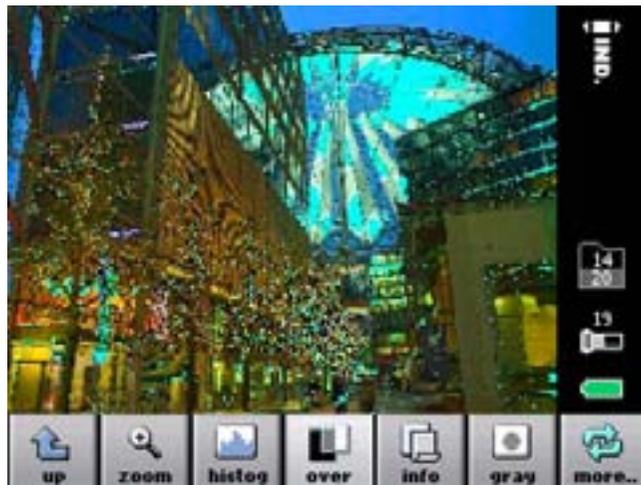
Activate the exposure alarm to display a blinking mask over your shot showing the parts of the image that are underexposed, overexposed, or both. Use the mask to help you check the exposure of your shot.

This task is performed on the Leaf AFi imaging module, in **Shoot** view.

- Tap **over**.



A blinking mask covers the areas of the image that are underexposed, overexposed, or both.



Checking the focus

In **Shoot** view, check the focus of your shot in the following ways:

- View the image in full-screen size
- Zoom into the image

Checking the focus of a shot at full-screen size

Open an image to full-screen size to enlarge it for checking the focus or composition.

This task is performed on the Leaf A*Fi* imaging module, in **Shoot** view.

- Double-tap the shot that you want to view at full-screen size.
The shot opens in full-screen size.

Checking the focus of a shot by zooming in

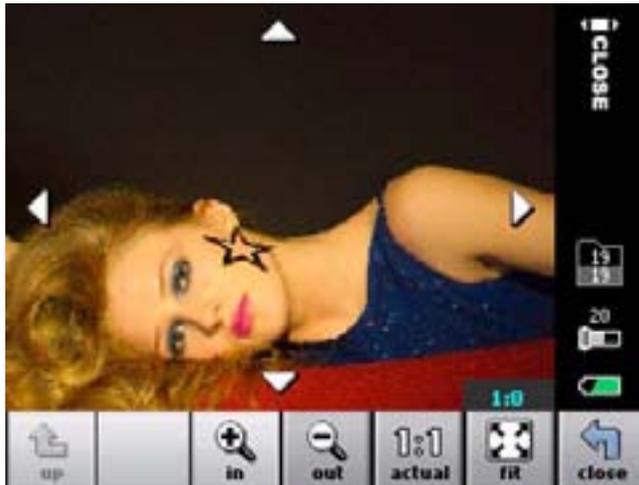
Zoom into your shot to get a close-up view, and to check the focus.

This task is performed on the Leaf A*Fi* imaging module, in **Shoot** view.

1. Tap **zoom**.



2. Using the zoom options, examine your image and check the focus:
 - To magnify the image area to 100%, tap **1:1 actual** and then tap the image.
 - To view the entire image, tap **fit**.
 - To zoom in or out, tap **in** or **out** and then tap the image.
 - To pan across the zoomed image, tap the arrows that appear on the image.



Checking composition using the grid

Place a grid on your shot as an aid for composition and alignment of an image.

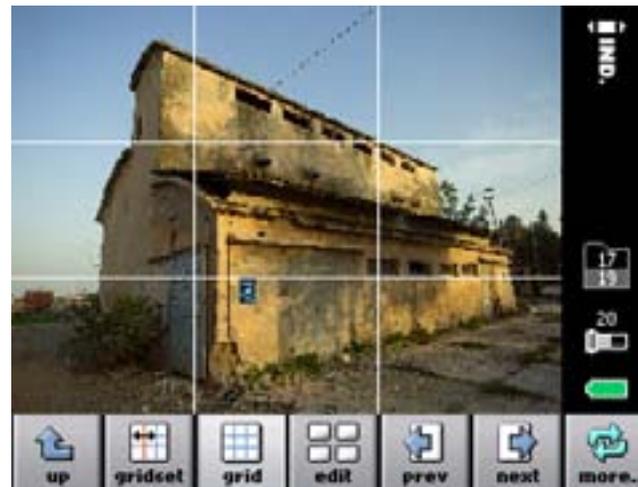
This task is performed on the Leaf AFi imaging module, in **Shoot** view.



1. Tap **more** and then tap **grid**.



The grid appears over the image.



2. Evaluate the composition.

Moving the grid lines

Move the grid lines to help you align your composition.

This task is performed on the Leaf AFi imaging module, in **Shoot** view.

1. Tap **more** and then tap **gridset**.



2. Tap the line you want to move.
The selected line is highlighted.



3. Use the arrows to move the grid lines as desired:

- To move the grid lines 10 pixels at a time, tap the long arrows 
- To move the grid lines 1 pixel at a time, tap the short arrows 

Changing the color of the grid lines

Change the grid line color according to preference.

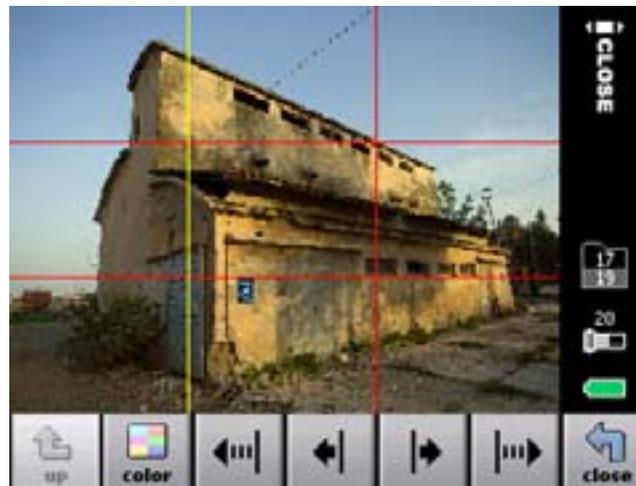
This task is performed on the Leaf AFi imaging module, in **Shoot** view.



1. Tap **more** and then tap **gridset**.



2. Tap **color**.
The color of the grid lines changes.
3. Continue to tap to cycle through available colors until the desired color appears.



Setting grid attributes

Select the number of grid lines and the line type.

This task is performed on the Leaf AFi imaging module, in **Setup** view.

1. Tap **Shoot View Options**.



2. Tap **Grid Setting**.

3. Set the grid attributes:

- To set the number of grid lines, tap **Horizontal Grid Lines** and **Vertical Grid Lines**, and tap the desired number of lines.
- To set the line type, tap **Line Type** and select the desired line type

Viewing information about your shot in Shoot view

As you shoot, you can see the shot information and EXIF data of the shot for your reference.

This task is performed on the Leaf AFi imaging module, in **Shoot** view.

➤ Tap **info**.

Focus and exposure information and EXIF data for your shot appear on the shot.



Browsing through shots in Shoot view

Move from one shot to the next when you view images in **Shoot** view.

This task is performed on the Leaf AFi imaging module, in **Shoot** view.

- Use these methods to move from one shot to the next:
 - Tap **more**, and then tap the **prev** or **next** button.
 - Roll the user button backward or forward.



10 Editing your images



Accessing Edit view from Shoot view

While you shoot, you can easily access **Edit** view to edit your shots.

This task is performed on the Leaf A*Fi* imaging module, in **Shoot** view.

- Tap **edit**.

You are now in **Edit** view.

Selecting a folder in Edit view

By default, the Shots folder opens when you access **Edit** view. You can select a different folder of shots to look at, if desired.

This task is performed on the Leaf A*Fi* imaging module, in **Edit** view.

1. Tap **more** and then tap **folder**.



2. Tap **folder**.



3. Scroll to the desired folder, and tap **choose**.
The Shots folder always appears at the top of the folder list.
The folder is opened in **Edit** view.

Selecting a view mode in Edit view

Select how your shots are displayed in **Edit** view.

This task is performed on the Leaf AFi imaging module, in **Edit** view.

1. Tap **more** and then tap **view**.



2. Tap the desired view mode.



Your images are displayed in **Edit** view in the selected mode.

Locating a shot in Edit view

Browse through your shots to locate a shot for editing.

This task is performed on the Leaf AFi imaging module, in **Edit** view.

1. Move from one shot to the next by doing one of the following:
 - Tap the **prev** or **next** button.
 - Roll the user button backward or forward.



As you move through the shots, one shot is automatically selected.



2. Locate the desired image.

Any action that you perform, such as adding a note or deleting the shot, applies to the selected shot.

Sorting your images

Sort your images by name, time, or flag to make navigation easy when you are editing them on the imaging module.

This task is performed on the Leaf AFi imaging module, in **Edit** view.

1. Tap **more**.



2. Tap sort.



3. Tap the way that you want the images sorted (by name, time, or flag).

Flagging and annotating images in Edit view

Add or edit a note and add a flag for one or more images at a time in Edit view. This task is performed on the Leaf AFi imaging module, in **Edit** view.

1. Tap the image that you want to flag or annotate, and then tap **flag** or **note**.



If you tapped **note**, the note screen appears.

2. Tap the area where you want to add information—the **Description** area or the **Copyright Notice** area.
3. Use the virtual keyboard to enter information, and tap **ok** to save it.
The description or copyright information is added to the metadata of the selected shot.



To select more than one image, tap the thumbnail, tap the **Multi** button, and then tap the images that you want to select.



Flagging and annotating a shot in Shoot view

While you are shooting, flag a shot or add a note about the shot for future reference. You can then see the flag or note with the image information in **Shoot** and **Edit** view.

This task is performed on the Leaf AFi imaging module, in **Shoot** view.

1. Tap the image that you want to flag or annotate, and hold your stylus on the image until the **flag**, **note**, and **delete** buttons appear.



2. Tap **flag** or **note**.
If you tapped **note**, the note screen appears.
3. Tap the area where you want to add information—the **Description** area or the **Copyright Notice** area.
4. Use the virtual keyboard to enter information, and tap **ok** to save it.
The description or copyright information is added to the metadata of the selected shot.

Viewing information about your shot in Edit view

See information about the shot along with the shot

This task is performed on the Leaf AFi imaging module, in **Edit** view.

1. Tap **more**.
2. Tap **view**.



3. Select single view .

Information saved with the image and the EXIF data appear beside the image.



Deleting an image

Delete images if you no longer need them, and want to free up memory.

This task is performed on the Leaf AFi imaging module, in **Edit** view. You can also delete images in **Shoot** view the same way.

You can also perform a quick format on your CF card to quickly delete all the images on your card.



- Tap the image that you want to delete, and then tap **delete**.



The image is deleted and cannot be retrieved.

Accessing Shoot view from Edit view

While you edit your shots, you can easily access **Shoot** view to view your shots.

This task is performed on the Leaf *AFi* imaging module, in **Edit** view.

1. Tap the image that you want to view.



You can also double-tap the image to view it at full-screen size.

2. Tap **more** and then tap **shoot**.



The shot opens in **Shoot** view.

1 1

Managing files in your imaging module



Resetting the file-name counter

If you have defined a base name for your shots, the file-name counter automatically numbers each shot that you take. You can reset the counter to zero at any time.

This task is performed on the Leaf AFi imaging module, in **Camera** view.

1. Tap **File name**.



2. Tap **reset**.





Creating a folder for your shots

Your shots are automatically saved to your CompactFlash (CF) card in portable mode. Create folders to store your shots in an organized manner.

This task is performed on the Leaf AFi imaging module, in **Camera** view.

1. Tap **Shots Folder**.



2. Tap **down**.

3. Tap new .



4. On the virtual keyboard, tap the name of the folder, and then tap **ok**.
5. To create a subfolder, tap the new folder, tap **open**, and then tap **new**.

Organizing your images in the imaging module

Move your images between folders to manage your files stored on the CompactFlash card in the imaging module.

This task is performed on the Leaf AFi imaging module, in **Edit** view.



To select more than one image, tap the **Multi** button, and then tap the images that you want to select.

1. Tap the image that you want to move, and hold your stylus on it until the **Multi** and **Move** buttons appear on the image.



2. Tap **Move**.



3. Locate the desired destination folder, and tap the folder to select it.

4. Tap **Move**.

The images are moved.

Download images to your computer

After shooting in portable mode, download your shots from your CompactFlash card to your computer for adjustment and processing, and to free space on your CF card.

Download images in one of two ways:

- By moving or copying directly the shots directly from your Leaf AFi imaging module when tethered
- By moving or copying the shots from the card using a CompactFlash card reader

Downloading images directly from the imaging module

Download your images to your computer directly from your imaging module.

Make sure that your computer is turned on.

1. Connect one end of the FireWire cable to your imaging module.
2. Connect the other end of the FireWire cable to your computer.

Note: If your imaging module is not connected to your camera, turn on your imaging module.

A CF card icon appears on your desktop.

3. Double-click the CF card icon.
A folder opens containing all the images on your CF card.
4. Move or copy the desired files to your computer.

Downloading images when using a CF card reader

As an alternative to downloading directly from your imaging module, you can also download your images from your CF card to your computer by using a CompactFlash card reader.

1. Remove the CF card from your imaging module and place it in a CompactFlash card reader that is connected to your computer.
A CF card icon appears on your desktop.
2. Double-click the CF card icon.
A folder opens containing all the images on your CF card.
3. Move or copy the desired files to your computer.

12 Leaf WiView: working with HP iPAQ Pocket PC



Leaf WiView

Using the Leaf WiView application, you can view and edit images on an HP iPAQ Pocket PC while another person works with the camera system.

Leaf WiView is a wireless application that enables you to view and work with images on an iPAQ Pocket PC as you shoot. You can perform all image functions on the iPAQ Pocket PC. Before you begin working with the Leaf WiView application, you must first install it on the iPAQ Pocket PC. For instructions on installing, see the *Leaf WiView Installation Guide* (731-00576E-EN).

When you are using the Leaf WiView application while the camera is still taking shots, every incoming shot replaces whatever is displayed on the iPAQ Pocket PC. If the incoming shot interrupts your workflow, your changes are not saved unless you actively saved them before the shot arrived.

Note: Avoid editing images or setting gray balance on the Leaf A*Fi* camera system and iPAQ Pocket PC at the same time.

Enabling wireless connection on the imaging module

Wireless on the Leaf A*Fi* imaging module must be enabled to allow the camera to communicate with an HP iPAQ Pocket PC.

This task is performed on the Leaf A*Fi* imaging module, in **Setup** view.

For an up-to-date list of compatible iPAQ Pocket PCs, go to the Leaf website.



1. Tap **Wireless**.



2. Tap **On**.

The wireless connection is activated, and the Bluetooth symbol  is displayed. The connection is active while the imaging module is turned on until you set **Wireless** to **Off**, even if you turn your Leaf AFi camera system off and on again.

Changing the PIN for wireless connection on the imaging module

To restrict wireless access to your camera system to only the iPAQ Pocket PC, change the factory-supplied Leaf WiView personal identification number (PIN). This 4-digit PIN enables only the iPAQ Pocket PC to communicate with the Leaf AFi camera system.

This task is performed on the Leaf AFi imaging module, in **Setup** view.

1. Tap **Wireless**.



2. Tap **Change PIN**.



3. Tap in the **Enter new PIN** box, and then use the virtual keyboard to tap the numbers for your new PIN.
4. Tap anywhere in the **Reenter new PIN** box, tap the numbers of the new PIN again, and then tap **ok**.

Establishing a connection between your iPAQ and the imaging module

The first time you work with your camera system and your iPAQ, you must establish a connection between the two devices. Thereafter, the iPAQ connects to the imaging module whenever you start the Leaf WiView application, so long as the imaging module wireless connection is on.

You must enable wireless communication on your imaging module before you begin this task.

This task is performed on the iPAQ Pocket PC, in **Setup** view.

1. To open the Leaf WiView application, select **Start > Programs > Leaf WiView**.



2. Tap **Setup**, and then tap **Wireless**.



3. Tap Search.



4. Wait while the Leaf WiView application searches for the imaging module. This process takes about 30 seconds.

A list of available imaging modules appears.



5. Tap the imaging module that you want to connect to, and tap **choose**.



6. Enter the PIN that you set up for the Leaf WiView.
7. Tap **ok**.
The iPAQ Pocket PC connects to the imaging module.

Note: After the first time you have established a connection between your Leaf AFi imaging module and your iPAQ Pocket PC, the iPAQ connects to the camera system automatically. If your iPAQ does not connect to the imaging module automatically, repeat steps 2-7 of this procedure.

Changing the name of the imaging module

Change the imaging module name that appears on the iPAQ Pocket PC.

This task is performed on the iPAQ Pocket PC, in **Setup** view.

1. Tap **Wireless**.



2. Tap name.



3. Using the virtual keyboard, tap a new name and tap **ok**.

Evaluating shots on the iPAQ

While another person is shooting with the Leaf *AFi* camera system, you can evaluate your shots in **Shoot** view on the iPAQ Pocket PC.

Use the iPAQ Pocket PC to do the following:

- View the exposure of the current shot. For more information, see [Checking the exposure](#) on page 117.
- View information about the shot. For more information, see [Viewing information about your shot in Shoot view](#) on page 125.
- Browse through your images. For more information, see [Browsing through shots in Shoot view](#) on page 126.
- Go directly to Edit view. For more information, see [Accessing Edit view from Shoot view](#) on page 129.





Editing with Leaf WiView

While another person is shooting with the Leaf *AFi* camera system, you can edit your shots in **Edit** view on the iPAQ Pocket PC.

Use the iPAQ to do the following:

- View shot information. For more information, see Viewing information about your shot in Edit view on page 135.
- Select a folder. For more information, see Selecting a folder in Edit view on page 129.
- Sort your images. For more information, see Sorting your images on page 132.
- Flag an image or make notes. For more information, see Flagging and annotating images in Edit view on page 133.
- Browse through the shots. For more information, see Locating a shot in Edit view on page 131.
- Go directly to Shoot view. For more information, see Accessing Shoot view from Edit view on page 137.

Changing the Shoot view options in Leaf WiView

While another person is shooting with the Leaf *AFi* camera system, you can change the **Shoot** view options on the iPAQ Pocket PC.

Use the iPAQ to do the following:

- Clear overlays. For more information, see Setting shots to appear with overlays on page 85.
- Maximize the shot. For more information, see Setting shots to appear in full-screen view on page 86.



- Turn on crop masking. For more information, see Taking shots with a crop mask on page 86.
- Adjust the crop mask transparency. For more information, see Adjusting the transparency of the crop mask on page 183 .
- Adjust the histogram and information transparency. For more information, see Adjusting the transparency of the histogram and info bar on page 184.

Changing the interface language in Leaf WiView

You can change the interface language on the iPAQ independent of the language on the Leaf A*Fi* camera system.

To change the iPAQ interface language, see Setting the interface language of the imaging module on page 179.

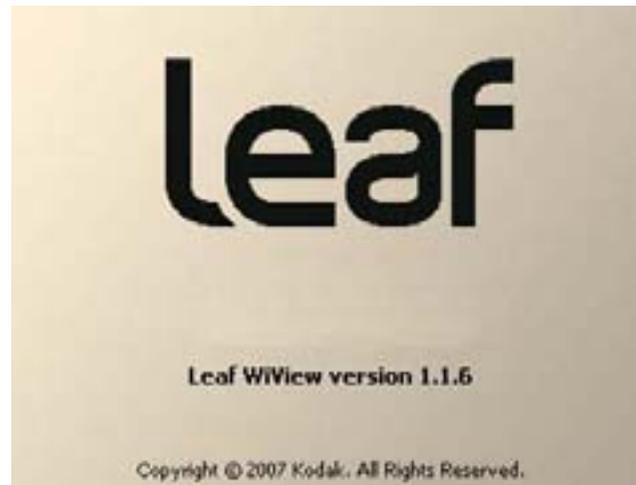
Viewing the Leaf WiView version information

This task is performed on the iPAQ Pocket PC, in **Setup** view.



1. Tap **About**.

The Leaf WiView application About window displays the Leaf WiView version number.



2. Tap the screen again to close the window.

13 Tethered shooting



Tethered mode

Tethered mode means that you connect your imaging module to your computer using a FireWire cable for shooting. In tethered mode, your shots are sent directly to and are saved on your computer.

The Leaf A*Fi* camera system is designed for both portable shooting and tethered shooting.

In tethered mode, you can see your photos on your computer as you shoot, set some basic camera settings from the Leaf Capture software, use the controls in the Leaf Capture software to take shots, and use the Leaf Live View feature. Tethered shooting also enables you to store images directly on your computer.

Other advantages to tethered mode include power management, working with the imaging module when it is not attached to the camera, and downloading images from your CF card.

For more information on shooting tethered and using the Leaf Capture software to control your camera, refer to the Leaf Capture help system.

Connecting the camera system to the Leaf Capture software

Make sure that your computer is turned on and the Leaf Capture software is running.

1. In the **Camera Settings** dialog box **Camera** list, select the camera that you are using, and click **OK**.
2. Connect one end of the FireWire 800 cable to the to the FireWire port on the Leaf A*Fi* imaging module, and the other end of the FireWire cable to your computer.

If your computer does not have a FireWire 800 port, use the FireWire 400 to 800 cable to connect the imaging module and the computer.

3. Turn on your camera system.

Note: If your imaging module is not connected to your camera, turn on your imaging module.

The Leaf Capture software identifies the Leaf A*Fi* imaging module, and automatically connects to it. In the lower bar, a progress bar indicates the progress of the connection.

The connect icons in the **Shoot** panel and in the lower bar turn green, indicating that the camera system is successfully connected.

14 Using flash



Flash adapter

The Leaf *AFi* camera system uses optional SCA flash adapters for portable flash units. These SCA adapters enable you to use through the lens (TTL) mode.

The Metz SCA 300 flash adapter was made for conventional film photography; the SCA 3562 flash adapter is for digital photography. To shoot with a portable flash through the lens (TTL), you must have a Rollei 3562 adapter (Leaf part number 604-00212) and compatible SCA 3002 flash. An SCA 356 adapter (Leaf part number 604-00211) is also available for shooting with the SCA 300 flash system for film.

Flash sync

The Leaf *AFi* camera system has two flash synchronization modes.

Normal sync flash mode is the mode ordinarily used with an electronic flash. The flash is triggered immediately as the shutter opens.

In rear sync flash mode, the shutter opens, and the sensor is exposed to ambient light. The flash is triggered approximately 3 ms before the shutter closes. This mode is often used to show a streak of motion behind the photographed object; the object itself is well illuminated and clearly defined by the flash.

Note: You can use a TTL flash using a Rollei SCA 3562 adapter connected to the flash shoe on the side of the camera. You can also use an electronic flash by connecting a PC cord to the flash sync socket on the camera, or by using a wireless remote device connected to the flash shoe.

Note: When using a studio strobe with a long flash duration, set the shutter speed to less than 1/250 second to allow enough time for adequate light.

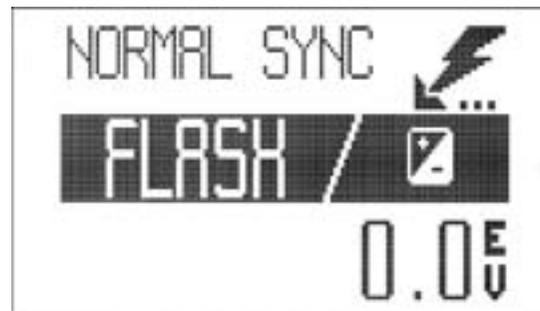
If you are using a strobe with a high trigger voltage, use a wireless remote device to trigger the flash.



Setting the flash mode

Set the flash mode to trigger the flash as the shutter opens or to trigger the flash after the shutter opens.

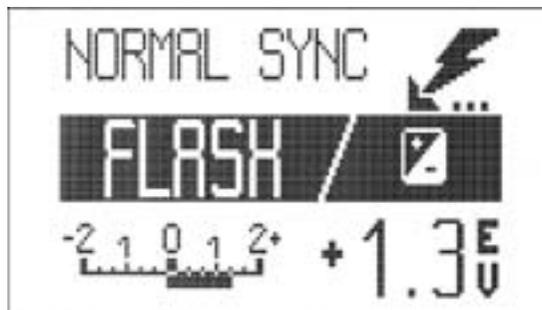
- Push and hold the flash button, and rotate the front dial to set the flash synchronization:
 - Select **NORMAL SYNC** to trigger the flash immediately as the shutter opens.
 - Select **REAR SYNC** to trigger the flash about 3ms before the shutter closes.



Setting flash EV compensation

Adjust the intensity of your flash when using TTL mode by modifying the flash EV compensation setting.

- Push and hold the flash button, and rotate the rear dial to set the desired amount of EV compensation. You can compensate +/-3 EV.



15 Configuration and preferences



Adjusting the display for lighting conditions

Setting the contrast on the handgrip display

Set the contrast of the handgrip display to be able to see the display in differing light conditions.

1. Push the options button, and use the rear dial to select **LCD CONTRAST**.



2. Use the front dial to select high contrast (**00-16**) or low contrast (**48-63**).
3. Push the options button to exit the Options menu.





Configuring the backlight of the handgrip display

Set the handgrip and viewfinder displays to always be on, to always be off, or to come on automatically for about 12 seconds whenever you use a camera control. With the automatic setting, the camera uses less power.

1. Push the options button, and use the rear dial to select **LCD BACKLIGHT**.



2. Use the front dial to select one of the following:
 - **ON**
 - **OFF**
 - **AUTO**: to have the handgrip display backlight come on automatically for about 12 seconds whenever you use a camera control
3. Push the options button to close the Options menu.

Setting the brightness of the imaging module display

Set the brightness of the imaging module display to be able to see the display in differing light conditions.

This task is performed on the Leaf A*Fi* imaging module, in **Setup** view.

1. Tap **Display**.



2. Tap **Brightness**.
3. Tap the desired brightness.

Setting the activation of the imaging module backlight

Set the conditions under which you want the backlight on the imaging module to turn on. To save power, the backlight on the imaging module remains off when the imaging module is not in use.

This task is performed on the Leaf AFi imaging module, in **Setup** view.

1. Tap **Display**.
2. Tap **Backlight On After**.



3. Tap the desired options:
 - For the backlight to turn on after you take a picture, in the **Take picture** row, tap **Yes**.
 - For the backlight to turn on when you tap the imaging module display once, in the **Tap display** row, tap **Single**.
 - For the backlight to come on when you tap the imaging module display twice in quick succession, in the **Tap display** row, tap **Double**.





Setting the duration of the imaging module backlight

To save power, set the backlight on the imaging module to turn off after the camera system has been idle for a certain amount of time.

This task is performed on the Leaf AFi imaging module, in **Setup** view.

1. Tap **Display**.
2. Tap **Backlight Off After**.



3. Tap a power source.

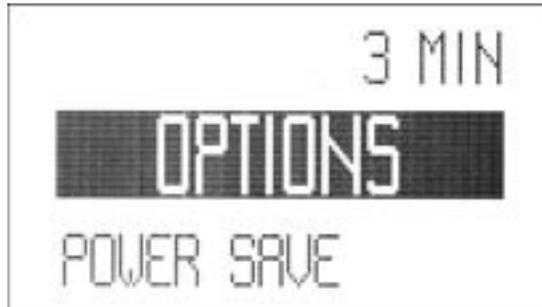


4. Tap the amount of time after which the backlight turns off when the imaging module is idle (the default is 30 seconds).

Setting your camera to save power (sleep mode)

Set your camera system to enter sleep mode when it is not in use. In sleep mode, your camera uses less power.

1. Push the options button, and use the rear dial to select **POWER SAVE**.



2. Use the front dial to select the amount of time that the camera system is inactive until it enters sleep mode.

If you do not want the camera system to enter sleep mode at any time, select **Off**.

Note: When the camera system enters sleep mode, it overrides the setting for the duration of imaging module backlight.

The camera system, including the imaging module, enters sleep mode after the designated period of inactivity.

Note: When using a split supply solution, the imaging module does not enter sleep mode with the camera. When the camera enters sleep mode, manually turn off the imaging module by pushing the imaging module power button.



Setting your preferences

Selecting the handgrip display mode

Set the handgrip display graphic user interface (GUI) to **AUTOMATIC** to display basic information, or to **ENHANCED** to show detailed camera settings.

1. Push the options button, and use the rear dial to select **GUI**.
2. Use the front dial to select **AUTOMATIC** or **ENHANCED**.

Note: When the power dial or any of the switches are set to the red dot, the enhanced display is always active.

Setting the date and time

Set the date and time when you receive your Leaf AFi camera system, when your clock changes for daylight saving time, or if you change time zones.

This task is performed on the Leaf AFi imaging module, in **Setup** view.



1. Tap **Date and Time**.



2. Tap the date and time unit you want to set, and then tap the digits on the virtual keyboard.
3. Tap **ok**.

Setting the owner information

Enter your information to identify your imaging module.

This task is performed on the Leaf AFi imaging module, in **Setup** view.



1. Tap **Owner Information**.



2. Tap the area where you want to enter information.
3. Use the virtual keyboard to enter the desired information, and tap **ok**.



Setting the interface language of the imaging module

Set the language used in the imaging module display.

This task is performed on the Leaf AFi imaging module, in **Setup** view.

1. Tap **Interface Language**.



2. Tap the desired language.

Configuring the user button for Shoot view

Configure the user button to flag an image or to show a histogram, alarm, or other information when you push the user button while you are working in **Shoot** view.

This task is performed on the Leaf AFi imaging module, in **Setup** view.

1. Tap **User Button**.



2. Tap **Shoot view**.



3. In the **Action** row, select **Indicators** or **Flag**.
4. If you selected **Indicators** in step 3, tap **Actions Settings** and select the desired indicator: histogram, exposure alarm, or shot information.



The desired indicators or flag will appear when you press the user button when in **Shoot** view.

Configuring the user button for Edit view

You can set the user button to flag or to delete the selected image when you push the button in **Edit** view.

This task is performed on the Leaf AFi imaging module, in **Setup** view.

1. Tap **User Button**.
2. Tap **Edit view**.



3. Tap **Flag** to flag the selected image when you push the user button in **Edit** view, or **Delete**, to delete the selected image when you push the button in **Edit** view.

The selected image will be flagged or deleted when you press the user button when in **Edit** view.

Configuring a long press of the user button

You can set a long press of the user button to turn the display on and off, or to lock and unlock the touch screen in order to avoid activating the imaging module by accidental taps.

This task is performed on the Leaf AFi imaging module, in **Setup** view.

1. Tap **User Button**.
2. Tap **Long Press**.



3. Select the way you want the camera to respond when you push the user button and hold it for a second or two:
 - Tap **Display Off / On** if you want the camera to turn the imaging module display off and on.
 - Tap **Lock / Unlock Touch Screen** if you want the camera to lock and unlock the touch screen. Locking the touch screen prevents the camera from responding to accidental taps.

The imaging module display will turn on or off, or lock when you push the user button for a couple of seconds or more.





Setting the volume on the imaging module

You can set the volume of each of the sounds made by the imaging module: the ready to shoot signal, the sound made when you tap on the touch screen, and the sound made when you push the user button.

This task is performed on the Leaf AFi imaging module, in **Setup** view.

1. Tap **Sounds**.



2. Tap the item for which you want to change the volume, and set the volume as desired.

Configuring the exposure alarm

Set the exposure alarm to show underexposed areas, overexposed areas, or both.

This task is performed on the Leaf AFi imaging module, in **Setup** view.

1. Tap **Shoot View Options**.
2. Tap **Exposure Alarm**.



3. Tap the setting for what you want the exposure alarm to show.

Setting the crop mask size

Set the size of the crop mask that you can set to appear on your shots as you shoot. The crop size is applied to the image during processing.

This task is performed on the Leaf AFi imaging module, in **Camera** view.

1. Scroll down and tap **Size**.
2. Tap the desired crop mask size.
A crop mask of the selected size is applied to shots when you take shots with a crop mask.

Adjusting the transparency of the crop mask

Select the degree of transparency of the masked areas of the shot that are not in the crop.

This task is performed on the Leaf AFi imaging module, in **Setup** view.

1. Tap **Shoot View Options**.
2. Tap **Crop Mask Transparency**.





3. Tap the desired level of transparency for the crop mask, where 0% is opaque and 100% is completely transparent.

The transparency is applied to all shots taken with a crop mask.

Adjusting the transparency of the histogram and info bar

Select the transparency of the histogram and the Info bar when displayed over a shot.

This task is performed on the Leaf AFi imaging module, in **Setup** view.

1. Tap **Shoot View Options**.
2. Tap **Histogram/ Info Transparency**.



3. Tap the desired level of transparency for the histogram and Info bar, where 0% is opaque and 100% is completely transparent.

Aligning the touch screen

Align the touch screen if it does not respond accurately to your taps.

This task is performed on the Leaf AFi imaging module, in **Setup** view.

1. Tap **Display**.
2. Tap **Align Touch Screen**, and follow the instructions on the screen.

Viewing the camera system firmware information

View firmware version information for the Leaf AFi camera system control module, body, and mirror module.

1. Push the options button.
2. Rotate the rear dial until you reach the **LEAF AFI** firmware screen.



LEAF AFI	
CONTROLMODULE	V2.07
BODY	V2.07
MIRRORMODULE	V2.07

3. Push the options button to close the Options menu.



Visit the Leaf website periodically for downloadable firmware updates.



Viewing the imaging module version information

View the version information for the imaging module.

This task is performed on the Leaf AFi imaging module, in **Setup** view.

- Tap **About**.

The imaging module version information is displayed.

Locking the camera system controls

Lock the front and rear dials on the handgrip and the imaging module touch screen to avoid changing your settings while you work.

Make sure that you have configured a long press of the user button to lock the imaging module touch screen.

1. Push the options button, and use the rear dial to select **CONTROLS**.
2. Use the front dial to select **LOCKED**.
The front and rear dials are locked.
3. Push the user button for a couple of seconds or more.
The imaging module touch screen is locked.

Note: If the camera system is turned off or enters sleep mode, the locks are cancelled when you reactivate the camera system.

Repeat these steps selecting **UNLOCK** to unlock the front and rear dials, and pushing the user button again to unlock the imaging module touch screen.



You can also set the soft key to lock the front and rear dials.

Configuring a press of the soft key

You can set the soft key to lock and unlock the front and rear dials in order to avoid changing your settings accidentally.

1. Push the options button, and use the rear dial to select **CONTROLS**.
2. Use the front dial to select the desired option:
 - Select **KEY LOCK** to lock the front and rear dials on the handgrip when you push the soft key.
 - Select **NONE** if you do not wish the soft key to have a use.

Note: The **CONTROLS > LIVE VIDEO** option is for future use.



16 Caring for your camera system



Tips for handling your Leaf AFi camera system

Putting the camera system down

The camera system was designed with recessed controls to enable you to conveniently rest the camera system on its side when not in use.

- When you need to put the camera system down while working, rest it on its left side or base side.

Storing the camera system

- To protect your Leaf AFi camera system when you are not working, remove the battery, and store it in the suitcase provided in a cool, dry place.

Protecting the camera system from dust

To ensure good, dust-free shots and to protect the body of the camera system, keep it dust-free as much as possible.

- Follow this advice when the camera is not in use:
 - Use the lens protection cap on the lens.
 - Use the body protection cap on the camera body when the lens is removed.
 - Shut the waist-level viewfinder when not in use.
 - Use the protective cover to protect the IR filter glass when the imaging module is not attached to the camera.

Cleaning the camera system

Your Leaf *AFi* camera system is a precision instrument. Keep the camera system as clean as possible to enjoy reliable operation for many years to come.

Avoid exposing your camera system to dusty environments, especially when you separate the components to attach other components or for cleaning.

Cleaning the outer surfaces

- Clean the outer surfaces of the Leaf *AFi* camera system with a clean, soft, and dry cloth.

Important: Do not expose the camera system to solvents or other chemicals.

Cleaning the reflex mirror and camera chamber

Clean the inside of the camera body to keep it dust-free in order to achieve clean shots.

We recommend that you use a blower bulb to clean the reflex mirror and camera chamber.

1. Remove the lens.
2. Clean the reflex mirror using the blower bulb to gently blow dust off the mirror.

Important: Never touch the reflex mirror.

3. Push the mirror lock button to lock the mirror up.
4. Use the blower bulb to clean the camera chamber.

IR filter glass

The Leaf *AFi* imaging module has protective IR filter glass over the sensor to reduce transmission of infrared light and to protect the CCD from dust.

Important: The sensor is extremely sensitive to electrostatic discharge (ESD) and can be damaged by it.

Important: To prevent contamination of the sensor, do not remove the protective IR filter glass. The protective IR filter glass can be replaced only by Leaf dealers or by the Leaf Service Center. If you remove the IR filter glass, the warranty on the Leaf AFi camera system is void.

Important: Do not touch the IR filter glass. Any contamination of the IR filter glass (such as dust or fingerprints) will appear in images that you capture.

Important: Put the protective cover over the IR filter glass whenever the imaging module is not attached to the camera.

Cleaning the IR filter glass

In the event that the IR filter glass needs to be cleaned, follow the cleaning procedure with care.

What you will need:

- Cleaning wipe, supplied with the Leaf AFi camera system
- Cleaning fluid (isopropyl alcohol)
- Clean compressed air

Note: You can order additional cleaning wipes from your local Leaf dealer.

Important: Never clean the filter glass with a dry cloth.

Important: Never clean the protective IR filter glass with window or lens cleaner. The residues from these products may permanently cloud the IR glass filter.

1. Remove the imaging module from the camera body using the back release.

Important: When the imaging module is detached from the camera, avoid touching the auxiliary shutter.

2. Briefly spray the ionized nitrogen away from the IR filter glass to remove any condensation that may be inside the sprayer nozzle.

Note: Keep the spray canister vertical while you spray.

3. Spray the protective IR filter glass with ionized nitrogen to remove large dust particles.

Important: Never spray compressed air directly on the imaging module.

4. Prepare the cleaning wipe to fit the width of the protective IR filter glass, as shown in the figure.

Important: Do not touch any part of the cleaning wipe that will come in contact with the protective IR filter glass.



- Using tweezers, fold the cleaning wipe as shown:



- Dampen the cleaning wipe in the cleaning fluid, making sure that the wipe is sufficiently wet but not dripping.

Important: Do not use a dry wipe to clean the IR filter glass because it can scratch the glass.

7. In a gentle circular motion from the center of the glass, clean the protective IR filter glass with the dampened cleaning wipe.



8. Repeat the circular motion until the protective IR filter glass is clean.
Note: If you are unable to clean the IR filter glass, contact your local Leaf dealer.
9. Discard the cleaning wipe after use.
Important: Do not reuse cleaning wipes.

Restoring the camera's factory settings

Reset the camera to the factory settings to cancel any settings.

Note: Restoring the camera's factory settings does not affect the settings or configurations that you have defined in the imaging module.

1. Make sure the camera system is turned off, and push and hold the lens release button.
2. While holding down the lens release button, rotate the power dial to single, multiple, or the red dot.
3. While continuing to hold down the lens release button, push the shutter release button.

The camera turns on, and the handgrip display is blank.



4. When the handgrip display shows **LENS UNLOCKED**, release the lens release button.
The factory settings are restored.

Restoring the imaging module's factory settings

Reset the imaging module to factory settings.

This task is performed on the Leaf AFi imaging module, in **Setup** view.



Note: Restoring the imaging module's factory settings does not affect the settings or configurations that you have defined in the camera.

1. Tap **Restore Factory Settings**.

The following message appears:



2. Tap **ok**.

The factory settings are restored.

Updating the firmware

To obtain new features and enhance the functionality of your camera system, update it with the firmware versions that Leaf periodically provides.

Pre-requisites:

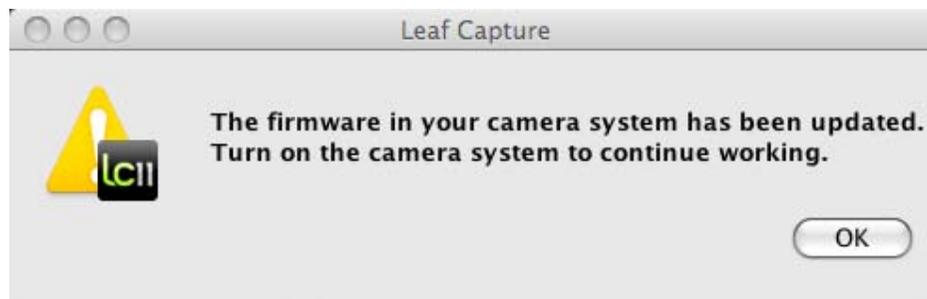
- The Leaf Capture software must be open on your computer. Use the latest Leaf Capture version to load the latest firmware.
- You must have a fully-charged battery in the handgrip.
- The camera system must be turned on.

This task is performed on the Leaf AFi imaging module and in the Leaf Capture software.

1. Connect your Leaf A*Fi* imaging module to your computer with the FireWire cable.
If a firmware update is available, this message appears:



2. Click **OK**.
The firmware is uploaded to your Leaf A*Fi* camera system.
Important: Do not disconnect the FireWire cable or turn off the camera system while the firmware is being updated.



3. Click **OK**.

17 Troubleshooting



Camera system does not turn on

The message `Starting App` appears on the handgrip display, and the camera system does not work.

1. Make sure that the battery in the handgrip is charged.
2. Turn the power dial to a shutter release setting and then to OFF. Do this step two or three times.
3. Turn the power dial to a shutter release setting.
4. Push the shutter release button.

The camera system operates as expected.

Firmware update was unsuccessful

If the firmware update was unsuccessful, for example because the FireWire cable disconnected or the camera system was turned off during the update, the handgrip display is blank, and the camera system will not turn on.

Pre-requisites:

- The Leaf Capture software must be open on your computer. Use the latest Leaf Capture version to load the latest firmware.
- You must have a fully-charged battery in the handgrip.

This task is not for the routine replacement or upgrade of firmware, it is only for replacing corrupted firmware.

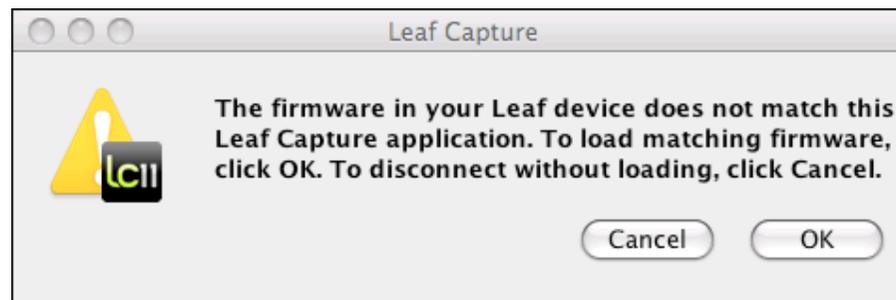
Note: Under normal circumstances, the Leaf AFi camera system firmware is updated automatically as needed when you connect the camera system to the Leaf Capture software.

1. Set the power dial to single shooting.

2. Push and hold down the soft key, the mirror up button, and the depth of field preview button.

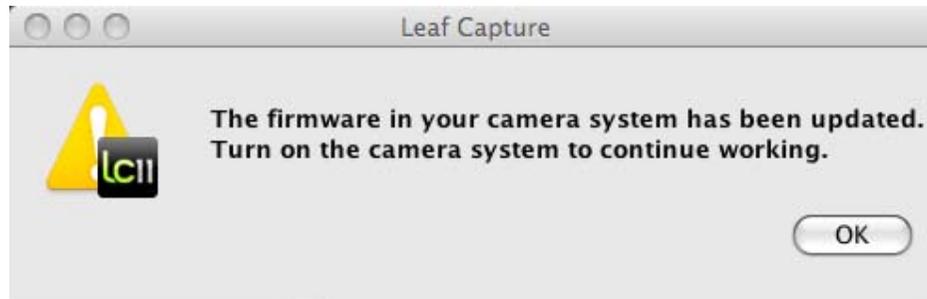


3. While holding down the three buttons, push the shutter release button. The handgrip display lights up, and still appears blank.
4. Release the four buttons.
5. Use a FireWire cable to connect your camera system to your computer. A firmware compatibility message appears.



6. Click **OK**. The firmware is uploaded to your Leaf *AFi* camera system.

Important: Do not disconnect the FireWire cable or turn off the camera system while the firmware is being updated.



7. Click **OK**.
8. Turn the camera system off and then on again.

The camera system operates as expected.

Camera system turns off unexpectedly

The camera may appear to be turned off when it is in power save mode, or have turned off if the battery level is too low.

1. Push the shutter release button to reactivate the camera system.
If the camera system was in power save mode, the camera is reactivated.
2. If the camera is not reactivated by pushing the shutter release button, replace the battery with a charged battery.

To set the camera system to a longer time until it enters sleep mode, change the **POWER SAVE** setting.

Autofocus lens does not focus automatically

The autofocus lens does not respond when you push the shutter release button down halfway, as expected.

1. Make sure that the battery in the handgrip is charged.
2. Remove and then reattach the lens.

Autofocus lens operates as expected.

Delay in shutter release

The shutter does not release immediately after pressing the shutter release button.

You may have activated the self-timer.

- Set the power dial to single or continuous.

When the power dial is no longer set to red dot, the self-timer is cancelled.

Lens is triggered then locks

The lens is triggered, and then locks.

The lens is incompatible with the camera system. Non-PQ/PQS lenses are not compatible with the Leaf AFi camera system.

- Remove the lens from the camera system, and replace it with a compatible lens.

The compatible lens behaves as expected.

To reset the non-PQ/PQS lens, place it on a Rollei 6008 camera.

Unable to take meter reading

You are unable to take a meter reading when you push the shutter release button halfway.

The mirror may be locked up, or the **RE ACTIVATION** setting may be set to **MANUAL**.

1. Push the mirror lock button to make sure that the mirror is down.
2. Set **RE ACTIVATION** to **RELEASE BTN**.

Holding the shutter release button halfway activates the metering.

No image in viewfinder

When you look through the viewfinder, you are unable to see the scene.

The mirror may be locked up, or the lens may be incompatible. Non-PQ/PQS lenses are not compatible with the Leaf *AFi* camera system.

1. Push the mirror lock button to make sure that the mirror is down.
2. Remove the lens from the camera system, and replace it with a compatible lens.

The compatible lens behaves as expected, and the image appears in the viewfinder.

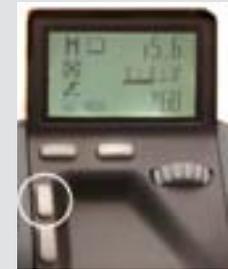
Unexpected ISO

The ISO shown in the handgrip display is not what you expected.

This can occur when the ISO was not set on the imaging module. The imaging module overrides the ISO set on the camera.

- Set the ISO on the imaging module.

The correct ISO is shown in the handgrip display.



Unable to change the exposure time and aperture settings

When using a non-AFD lens, the exposure time and aperture settings are not adjusted on the handgrip display when you move the front dial.

The lens aperture ring must be set to A.

- Turn and lock the lens aperture ring to A.

You can now change the settings using the front dial.

Handgrip and viewfinder displays are not illuminated

The display's backlight is turned off.

- Set the **LCD BACKLIGHT** to **ON** or **AUTO**.

The handgrip and viewfinder displays are lit.

Overexposed shots

Shots are overexposed when using autoexposure.

Extraneous light falling on the viewfinder is affecting your shots.

1. Keep extraneous light off the viewfinder when exposing your shot.
2. If necessary, use EV compensation.

Your shots are properly exposed.

Underexposed flash shots

Shots taken with flash appear underexposed.

This can occur if the flash duration is longer than the shutter speed, or if the camera system is set to **REAR SYNC**.

1. Change your settings to use a slower shutter speed or use a flash with a shorter duration.
2. Change the flash setting to **NORMAL SYNC**.

Your shots are properly exposed.

Shots appear black

Shots appear black when using focus bracketing and an electronic flash.

If the flash recycle time is longer than the time between exposures, your shots appear black.

- Use a flash with a faster cycle, or use a longer shutter speed.

Your shots are properly exposed.

18 Reference



List of menus

Camera view menu

Overview of the imaging module **Camera** view menu items.

Menu item	Description
Shots Folder	Create and set the Shots folder for your shoot.
File name	Enter a base file name for your shots.
Compression	Save compressed shots.
Camera	If you use your imaging module on a different camera, select the camera you are using.
ISO	Set the ISO.
Orientation	Set the orientation of your shots.
Gray Balance	Select the gray balance that best fits your lighting.
Develop Curve	Select the develop curve that best fits your conditions.



Color	Set the color management, color look, color mode and color space.
Sharpness	Set the sharpness setting that best fits your conditions.
Size	Select the crop mask size.
Notes	Enter a description and copyright notice for your shots.

Setup view menu

Overview of the imaging module **Setup** view menu items.



Menu item	Description
Quick Format	Perform a quick format if you have been using the CF card with your Leaf AFi imaging module and you want to erase all the data on the card or if the card is not performing as expected.
Tethered Imaging Power	Set the power supply to the imaging module when shooting tethered.
Shoot View Options	Set your preferences for when you are working in Shoot view.
User Button	Configure the user button for when you are working in Shoot view, Edit view, and for when you hold down the user button for two or three seconds.

Display	Set the brightness of the imaging module display, set when the backlight should come on and go off, and align the touch screen if it is not responding as expected.
Sounds	Set the volume of each of the sounds made by the imaging module.
Wireless	Turn on Bluetooth to enable wireless connection with your HP iPAQ Pocket PC.
Date and Time	Set the date and time.
Owner Information	Enter your owner information.
Restore factory settings	Set the imaging module settings to factory defaults.
Interface language	Set the imaging module interface language.
About	View version information about your imaging module.

Shoot View Options menu

Overview of the imaging module **Setup** > **Shoot View Options** menu items.

Menu item	Description
On Shoot	Set whether to show overlays on your shots in Shoot view, and whether to maximize the size of the image as it appears on the imaging module display after you take the shot.



Auto-Rotation	When the imaging module is rotated, set the shot to be automatically rotated as it appears on the imaging module display after you take the shot.
Grid Setting	Set the number of grid lines and the line type.
Crop Masking	Turn crop masking on and off.
Crop Mask Transparency	Set the transparency of the crop mask.
Histogram / Info Transparency	Set the transparency of the histogram and information overlays.
Exposure Alarm	Set whether the exposure alarm shows underexposed areas, overexposed areas, or both.

Options button

Use the camera options button to customize your camera. Push the options button, and use the front and rear dials to set the following:

Option	Description
CONTROLS	Lock and unlock the front and rear dials.
LCD BACKLIGHT	Set the handgrip and viewfinder displays to always be on, to always be off, or to come on automatically for about 12 seconds whenever you use a camera control.



POWER SAVE	Select when the camera system enters sleep mode.
GUI	Select the type of display that you would like to use on the handgrip display: AUTOMATIC or ENHANCED .
LCD CONTRAST	Set the contrast of the handgrip display to be able to see the display in differing light conditions.
RE ACTIVATION	Select the activation method for the camera exposure meter: MANUAL or RELEASE BTN.
Leaf logo	Splash screen.
SOFTKEY FUNC	Set the functionality of the soft key to KEY LOCK to lock the front and rear dials when the soft key is pressed. Note: LIVE VIDEO is for future use.
FIRMWARE INFO	Displays information on the camera body firmware.
STATUS	Displays voltage information.
STATUS II	For factory use.



User button

Configure the imaging module user button's function when you are in **Shoot** view or **Edit** view or when you push and hold the user button.

Shoot view

Configure the camera's response when you push the user button in **Shoot** view.

Function	Option	Description
Indicators	Histogram	Shows the histogram for the shot
	Alarm	Shows the exposure alarm for the shot
	Info	Shows the EXIF data for the shot
Flag		Flags the shot

Edit view

Configure the camera's response when you push the user button in **Edit** view.

Function	Option	Description
Action	Flag	Flags the shot
	Delete	Deletes the shot

Long press

Configure the camera's response when you push the user button and hold it for a second or two.

Function	Option	Description
Long press	Display Off / On	Turns the imaging module display on and off.
	Lock / Unlock Touch Screen	Locks and unlocks the touch screen of the imaging module

Suitcase contents

Your Leaf AFi camera system contains the items listed here.

To avoid operation problems, use only the items supplied in the suitcase.

For information on Leaf A*Fi* camera system accessories, check the Leaf website or contact your dealer. For information on Rollei lens and accessory compatibility, check the Leaf website.

	Case for safe storage of your digital camera system
	Leaf A <i>Fi</i> camera system
	800 to 400 FireWire cable (4.5 m / 15 ft.)
	800 to 800 FireWire cable (4.5 m / 15 ft.)
	External power adaptor

	Car charger lead
	Two rechargeable lithium ion batteries
	Fast charger for lithium ion batteries
	12V DC power supply
	Three AC cables (EU, US, and UK)
	Diffuser

	Gray card
	Covers for the imaging module touch screen, digital back sensor and camera front and rear
	Neck and hand straps
	Stylus (spare)
	Cleaning supplies (cleaning wipes and tweezers)

 The logo for Leaf Capture software, featuring the word "leaf" in a stylized, lowercase font inside a dark circle.	Leaf Capture software and documentation CD
 A small image showing the cover of the User Guide, which appears to be a technical manual or book with a dark background and some text.	User Guide

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