# BUSHNELL®

## IMAGEVIEW®
### 3.0 Megapixel



## Instruction Manual

**Model: 11-8338**
LIT.#: 98-1041/08-07

**Congratulations on your purchase of the Bushnell ImageView® binocular! The Bushnell ImageView binocular takes the technology of digital photography and combines it with a high-quality compact binocular. This allows you to observe sporting events, wildlife, scenic vistas or anything you would normally use a binocular for, and then save the image in a built-in attached digital camera. You can then download these images to your computer and e-mail them to your friends and family, print off the picture using the included software or save them in a photo album for future use. Before using the product, please read the instructions contained in this manual and take time to familiarize yourself with the different parts and features of the product.**

## QUICK GUIDE: BUSHNELL IMAGEVIEW 11-8338

**INSTALL BATTERIES**
Insert 2 AAA batteries (alkaline, lithium, or NiMh) as indicated inside the battery compartment on the bottom of the ImageView.

**ADJUST THE BINOCULAR FOR COMFORTABLE VIEWING**
Adjust the center focus knob while viewing a distant object through the binocular, until it appears sharp. Move the left and right sides of the binocular closer together or farther apart until you see a single circular image. Rotate the right eyepiece (diopter adjustment) to change the setting if the image does not appear as sharp to your right eye as it does to your left eye.

**TURN ON THE CAMERA**
Press the MODE button briefly, then release it. You will see a battery indicator and 3 digits indicating the number of photos taken (currently stored in the internal memory). As you take new photos, this counter will advance. Press and hold MODE to turn off the camera. You should download all photos before changing batteries or storing the camera unused for a long period of time (more than a few weeks) as a precaution.

**CHECK CAMERA SETTINGS**
Make sure the camera is set for high resolution and quality (*refer to pg.8, "Setup Menu"*) if you want the best results, especially if you will be printing the photos. See "Changing Operational Modes" for full instructions covering features such as continuous shot,  shooting a video clip, and how to delete a photo you have just taken.

## QUICK GUIDE: BUSHNELL IMAGEVIEW 11-8338

**TAKE A PHOTO (TIPS FOR BETTER QUALITY PHOTOS)**
Holding the ImageView as steadily as possible with both hands wrapped around the binocular, lightly press down the SNAP button using the flat end of a finger. Leaning against a wall, tree, etc. to brace yourself can also help insure the camera does not move as you take the photo. Make sure you are at least 30 feet or more away from your photo subject. Unlike the binocular optics (which will focus down to about 15 ft.), the camera focus is preset and is designed only for distant subjects- your photos may look out of focus if you were too close.

**USING THE IMAGEVIEW WITH YOUR COMPUTER**
If you are using Windows 98, install the driver from the CD-ROM as directed in "Software Installation" before connecting the Imageview to your PC (no driver is necessary with other operating systems). If desired, you may install Roxio® PhotoSuite 5 from the CD-ROM, following the on-screen instructions (if you do not already have photo software you prefer to use. *Note: PhotoSuite is not compatible with Windows Vista or Mac OS9/OSX*). Connect the supplied USB cable between the ImageView and your computer, using a USB port on the computer itself (avoid USB "hubs"). Please read "Downloading Photos to Your Computer" for detailed instructions on transferring photos to a PC or Mac computer.

**Bushnell®**   **IMAGEVIEW™**

Congratulations on your purchase of a Bushnell ImageView binocular. Before using the product, please read these instructions and take time to familiarize yourself with the different parts and features of the product.

## BASIC OPERATION

### TURNING THE CAMERA ON AND OFF

Insert 2 AAA alkaline batteries as indicated on the inside of the battery compartment, located on the bottom of the camera unit. Turn the camera on by pressing and holding the MODE button until the display comes on and the camera beeps. To turn the unit off, press and hold the MODE button until the display goes out. The camera will turn itself off automatically to save batteries if none of the buttons have been pressed for two minutes.

### TAKING A PICTURE

With the camera turned on, press the SNAP button to take a new photo. For best results, hold the ImageView steady using both hands, and lightly press down the SNAP button using the flat end of your finger rather than "punching" it with a fingertip. Be sure you are at least 35 feet away from your subject as the camera focus is preset for optimum results with distant objects (sports, wildlife, etc.).



**MODE** (Power)  **SNAP** (Shutter Release)

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**LCD DISPLAY**

1. $Hi$  High Quality Mode (less file compression)
2. 🗑ALL  Deletes all the pictures in the memory.
3. $Lo$  Low Quality Mode (more file compression)
4. 🗑LAST  Deletes the last picture taken.
5. ⏲  Select the timer to take a delayed picture. This gives you approximately a 10-second delay.
6. 🗔  SD mark appears when an SD card is inserted.
7. ▶🖳  This mode allows you to take short movie clips, saved as ".avi" files.
8. ⇢  USB mark appears when USB cord is connected between the camera and the PC.
9. 🔋  Battery mark keeps track of the battery life left.
10. ☆☆☆☆ Indicates Resolution setting (4 stars=highest resolution, 1 star=lowest resolution)
11. 888 This section of the display is used for three different types of indication:

> a. Photo Number-in normal operation, the number of photos stored (in internal or card memory) is seen here.
> b. Memory Full-when the memory is full, the display indicates "FUL" here. Download your photos, then "Delete All" to take more. Or change to a new, blank SD card.
> c. Setup Menu-displays the current setting for each of the 4 options in the Setup Menu
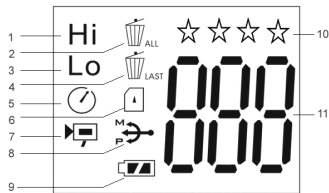
**BASIC OPERATION**

1. The camera is powered by two AAA alkaline (included), lithium or rechargeable NiMh batteries.
2. Insert the batteries into the battery compartment. If greater storage for photos/videos is desired (the internal memory capacity is approx 6MB), insert an SD card ("upside down" with metal contacts facing up) in the card slot. You may use SD cards up to 1 GB. To remove an SD card, simply pull it straight out of the card slot.
3. Press and hold the MODE button until the camera turns on.
4. Press SNAP to take a picture, or press the MODE button quickly to change mode settings as described above. The camera is set at infinity and will not be focused on an object closer than approx. 35 feet.

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**CHANGING OPERATIONAL MODES**

Pressing the MODE button briefly will cycle through several special camera modes and settings. A corresponding icon or symbol (indicated in parentheses below) will be displayed on the LCD for each mode or setting as you cycle through them by tapping the MODE button. When the icon for a mode or setting is displayed, pressing SNAP will select that mode or change that setting. If no button is pressed for more than 5 seconds, the camera will return to normal operation. The modes/settings are shown as you cycle through them in the following order:

- **Timer ( ⊘ ) :** selects the self-timer, which will take a photo after a 10 second delay when you press the SNAP button. This can be used to avoid moving or shaking the camera by pressing the SNAP button when the camera is placed on a table or other level surface. A series of "beeps" with increasing frequency will be heard. After using the self timer, the camera automatically returns to normal operation (timer is canceled).
- **Video Mode: ( ▭ ) :** This mode sets the camera to take short video clips (.avi files) rather than still photos. With the movie camera icon displayed, press SNAP to begin shooting the video. The counter will show elapsed seconds . Press SNAP again to stop shooting the video. The counter will advance by one number, as a new file (video) has been stored in the internal memory. After shooting the video clip, the camera reverts back to normal still photo operation (assuming unused memory remains). Repeat the steps to set AVI mode again if you wish to shoot more video clips.
- **Continuous Shot ( CS ) :** Takes rapid series of 3 consecutive photos, approx. 1 second apart, when you press and hold the SNAP button. You will hear a short beep when each photo is taken. As with the timer, the camera will return to normal operation after the shots are taken, cancelling the CS mode.
- **Delete All ( 🗑 ) :** With this mode is selected, press SNAP once, and the number of total photos in memory will blink in the display. Press the SNAP button a second time to erase the entire memory contents. If SNAP is <u>not</u> pressed a second time while the photo counter is blinking, the camera will

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return to normal operation in a few seconds (all your photos will <u>not</u> be deleted). When the process is complete, the photo number display will reset to zero. If no button is pressed for 5 seconds, the camera returns to stand-by. "Delete All" is a quick way to clear the memory following a download of your photos to a computer, so that the camera is ready to hold as many new photos as possible.

- **Delete One (🗑.ₗₐₛₜ) :** Pressing SNAP when the "Delete One" icon is displayed will delete (erase) only the last photo you took from the camera's memory.

- **SETUP Menu** (SET): Pressing SNAP when "SET" is displayed will enter the Setup Menu display, which has four different settings, each with two options available. Use the MODE button to cycle through the four settings. Pressing the SNAP button will switch ("toggle") between the two options per setting. The four settings (plus "ESC" to exit the setup menu) are displayed in the following order:

    **File Size/Resolution** (1-4 Stars): High resolution (3 or 4 stars) settings are recommended for best results, but low resolution can be used if you need to shoot a greater quantity of photos before downloading, and quality is not a high priority.

    **Quality** (H𝖖 or L𝖖) : Select "H𝖖" for High Quality photos (recommended setting, least amount of file compression). Select "L𝖖" (Low Quality) to store more photos in memory but with a slight loss in quality due to greater file compression.

    **USB Mode** (STO or PCC): Always select "STO" , allowing you to download and view the photos in the camera's memory when it is connected to your PC with a USB cable (included). "PCC" is a live PC camera option that is was not implemented in this camera model (software is not supplied or available for this application), as the camera has a fixed focus preset for distances of 30 feet or greater.

    **Power Frequency** (60 or 50 Hz): This sets the correct electrical line frequency to avoid any

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visible "flickering" in the images, especially when shooting video clips where fluorescent lighting is present. The "60" setting should be used for operation in the United States. If you are using the camera in a country with 50 Hz (cycle) AC power frequency, press SNAP to select "50" instead.

**Escape** (ESC): Select ESC and press SNAP to exit the Setting menu options, and return to normal mode.

#### OTHER DISPLAY ICONS

• **Battery Indicator** ( ▣ ) : Shows the amount of battery life left. When half of the icon is filled in, you should plan to replace the batteries soon. Be sure to bring an extra set of batteries on a long trip or for important events.

### ⚠ *CAUTION*

• *Make sure you download all photos (see directions in next section of manual) from the camera before removing the batteries for longer than the time it takes to change them. The camera memory is volatile (power dependant), and your photos may be lost if the batteries are removed for more than a minute or two (a temporary charge will remain long enough to allow changing batteries), or if the batteries are left in but allowed to become completely dead.*

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**Photo Storage Capacity Reference** (avg. capacity for settings, +/- 5 photos)

| Image Size | # of Star Icons | Megapixels (approx) | Quality [1] Setting | Internal Memory [2] | 256 MB SD Card |
|---|---|---|---|---|---|
| 2034x1728 | 4 | 4.0 (*Interpolated*) | High | 7 photos | 299 photos |
| | 4 | | Standard | 11 | 469 |
| **2048x1536** | **3*** | **3.1*** | **High*** | **10** | **427** |
| | 3 | | Standard | 14 | 597 |
| 1600x1200 | 2 | 1.9 | High | 15 | 640 |
| | 2 | | Standard | 22 | 939 |
| 640x480 | 1 | 0.3 ("VGA") | High | 116 | 4,949 |
| | 1 | | Standard | 168 | 7,168 |

\* **Default settings: 3.1 megapixel resolution (3 stars), High quality (Hq)**

**ADDITIONAL SPECIFICATIONS**

**Video Clip Resolution**: 320x240 pixels per frame @10 fps rate, avi file format
**Maximum Video Recording Time**: determined by available internal or card memory. Approx. 5 minutes using full capacity of available internal RAM memory.
**Maximum SD Card Capacity**: 1 GB (gigabyte), standard speed recommended
**Imaging Sensor**: 3.14 MP CMOS
**Internal RAM**: 8MB, approx 6MB maximum available for photo/video file storage. Capacitor maintains memory contents for 1-2 minutes while changing batteries. Use of SD card recommended to avoid potential loss of files if batteries become depleted.

**Notes**

[1] Determines amount of file compression
   Hq: High Quality (minimum compression)
   Sq: Standard Quality (medium compression)

[2] Internal RAM available for photo files: approx. 6 MB

Image Size refers to the pixel dimensions, or resolution, of the digital file.

Actual storage capacity will vary based on content of each photo file. You may be able to take a few photos more or less than the listed average capacity.

Use higher resolution and quality settings for photos you may want to enlarge or crop later. If required, they can always be reduced to a smaller file size using your photo software. Use lower resolution and/or standard quality settings if you will only email, insert into documents, or make small prints, and do not want to resize the file later.

### DOWNLOADING THE PHOTOS/VIDEOS TO YOUR COMPUTER:

1. The camera will be recognized as a USB mass storage device (if USB Mode is set to "STO" and not "PCC"), which means no special drivers are required for all operating systems later than Windows 98 (Me, 2000, XP, Vista) Mac OS 9 and OSX are also compatible. If you have a PC running Windows 98, you must install the driver found on the included CD-Rom <u>BEFORE CONNECTING THE CAMERA TO YOUR PC</u>.

2. If you have a computer OS as listed above that is USB mass storage compliant, a new disc icon will appear in Windows Explorer (under "My Computer") showing the Imageview as a new "Removable Disc" after plugging in the USB cable from the Imageview. Mac users will see the new disc device appear on their desktop. Clicking on the new disc icon will show the contents, a folder named "DCIM." The image folder inside this contains your photos, stored as JPEGs (.jpg file format). They may then be opened, edited, renamed and saved using any photo or graphics software that accepts .jpg files. If you do not have software that will open .jpg files, you should install Roxio PhotoSuite (Windows PC only, using Win98/2000/XP) from the included CD-ROM. See "Software Installation" for instructions.

3. After you have copied or opened and saved the photo files to your computers hard drive, you may disconnect the Imageview camera (NEVER disconnect the camera while files are still being transferred to your computer.) Before disconnecting, you may need to "eject" or stop the removable disc representing the camera to avoid an error message on computers runningWindows 2000 or Mac OS.

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## System Requirements (Minimum)

OS: Windows® 98/98SE/2000/ME/XP/Vista (*Note: the Imageview is compatible with Vista, however, the optional Photosuite software is not*)

CPU: MMX Pentium® 200MHZ equivalent or faster (Pentium® III 500 MHz for PhotoSuite5™)

Memory: 32MB minimum (64MB recommended for PhotoSuite)

SVGA video card w/2MB VRAM, 800x600 screen display, 16 bit High color

200 MB available hard disk space (if installing PhotoSuite)

Internal USB Port

## Software Installation

If you are using Windows 98, you must install drivers before connecting the camera to your PC. Insert the CD-ROM into your computer's CD drive; it will auto-run and the install screen will be displayed. Select "Install Driver", then follow the directions. After installation, restart your computer. Windows 2000, ME, and XP do not require drivers, as the camera uses the USB mass storage standard , allowing the photo files to be accessed as if they were stored on an external hard drive. For any Windows OS, if you are not already using photo editing software you prefer, you may install Roxio PhotoSuite® from the CD-ROM. Be sure to read the "Release Notes" completely, noting any tips or potential issues relevant to your PC configuration and OS.

⚠️ **WARNING:** *Make sure you download any picture from your camera before you remove the batteries from the camera.*

## Transferring The Photos & Videos to Your Computer - Step by Step

1. Be sure the driver has been installed first if you are on Windows 98/98SE.

2. Connect the supplied cable to the ImageView's USB port, then directly to a main USB port on your computer-do not use front panel/keyboard USB ports or unpowered "hubs".

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## Transferring The Photos & Videos to Your Computer -*continued*

3. The LCD display will indicate "STO", and the ImageView will be recognized as a standard "USB Mass Storage" device. This means that the camera files can be easily viewed, edited, or copied to your hard drive, just as if they were stored on an external hard drive or a CD-ROM.

4. (*This step is not required with Windows XP or Vista, simply use the options in the pop-up window to view, copy or edit your photos*). Open My Computer or Windows Explorer. The camera will be seen as a new "Removable Disk" with an unused drive letter assigned to it. Double click this new "Disk" icon, open the "DCIM" folder inside, then the folder(s) inside that ("100MEDIA" ,etc). Your photos/videos are the files inside-they have the prefix "IMG__" followed by a number, same as seen earlier on the camera's display when you review photos. Single clicking any file should show a small preview image.

5. Click "Edit>Select All" (or click on one photo, contol+click to select multiple photos), then "Edit>Copy to Folder" (in Windows menus). Select an existing folder on your hard drive, such as "My Pictures", or create a new folder ("Hawaii Vacation", etc), then click "OK" to transfer copies of the photo files you want.

6. After the photos are transferred to your hard drive, you can disconnect the camera. Windows 2000 may produce a screen warning that you have disconnected a USB device without stopping or ejecting the "disk" first (your photo files will not be harmed). If so, check the box that adds an icon to your system tray or taskbar. Then next time you finish transferring photos, you can click that icon first, and "Stop the USB Mass Storage Device" before disconnecting the camera. (*On Mac computers, you should "eject" the "disk" that represents the camera on the desktop before disconnecting.*)

### Transferring The Photos & Videos to Your Computer -*continued*

7. You're now ready to open the photo files in any photo editing software. Just use File>Open and go to the folder where you stored the photos earlier. If you are using PhotoSuite, select File>Open Photo, then use the "Look in" pull down menu at the top of the Open window, select "My Computer", select your hard drive, and double click any photo in the folder where you copied the files from the camera. It is also possible to open and work with your photos directly from the ImageView while it is still connected.To do this with PhotoSuite, first follow steps 1-3, then open PhotoSuite, select File>Open Photo and use the "Look in" menu to select My Computer, then select the "Removable Disk", and open the folders inside until you get to the "___.jpg" photo files. If you choose to work this way, from a connected camera, be sure that you save the photo (when you are done editing) to your hard drive, and not the camera's memory or card. To do this in PhotoSuite, after clicking "Done", answer "Save Changes?" with "Yes", but then answer "Replace Existing File"? with "No" and use the "Save As" dialog box to save the edited photo in a folder on your hard drive ("Save In>Local Disk"), not the "Removable Disk" (camera).

8. If you are new to photo editing on a computer, consult your software's Help menu (PhotoSuite has extensive built-in Help) for tips on using its features. Along with adjusting the brightness, contrast, sharpness and color of your photos, you can resize the photo to fit the paper if you are printing, or save a smaller, low or medium resolution version for email or inserting into documents. When you are ready to save your edited file, you may want to use "Save As" and give it a more descriptive name than "IMG___". Doing this also preserves the original file as a backup to reopen and re-edit later.  Make sure you have successfully transferred all the photos you wanted to save before using "Delete All" on your camera to make room for new images.

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## BINOCULAR INSTRUCTIONS

Your Bushnell binocular is a precision instrument designed to provide many years of pleasurable viewing. This portion of the booklet will help you achieve optimum performance by explaining how you can adjust the binocular to your eyes, and how to care for this instrument. Read the instructions carefully before using your binocular.

### EYE ADJUSTMENTS (Figure 1)

How to Adjust For Distance Between Your Eyes

The distance between the eyes, called "interpupillary distance," varies from person to person. To achieve perfect alignment of lens to eye, follow these simple steps.

1. Hold your binocular in the normal viewing position.
2. Grasp each barrel firmly. Move the barrels closer together or further apart until you see a single circular field. Always re-set your binocular to this position before using.



**Fig. 1**

INTERPUPILLARY DISTANCE
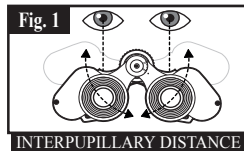
How to Adjust For Individual Eye Strength

As individual eyesight varies from one person to another, Bushnell binoculars have a diopter setting feature which allows you to fine-tune the binocular to your vision. Follow the focusing instructions below for your binocular.

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**FOCUSING**

1. Adjust interpupillary distance. (Figure 1)
2. Set the "diopter setting" (Figure 2) to zero and view a distant object.
3. Keep both eyes open at all times.
4. Using a lens cover or your hand, cover the objective (front) lens of the same side of the binocular that has the "diopter setting." This is usually the right side.



Fig. 2

DIOPTER SETTING

5. Using the center focus wheel, focus on a distant object with fine detail (e.g., brick wall, tree branches, etc.) until it appears as sharp as possible.
6. Uncover the objective lens on the diopter side, cover the other objective lens, then view the same object.
7. Using the "diopter setting" adjustment ring, focus the same object being viewed. Caution should be used as over turning or forcing the diopter eyepiece can cause damage or cause the eyepiece to break away from the chassis.
8. Your binocular should be adjusted for your eyes. Focus at any far or near distances can now be attained simply by turning the center focus wheel. Make a note of the diopter setting for your eyes for future reference.
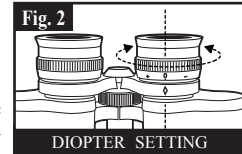
**EYECUPS (Figure 3)**

Your Bushnell binocular is fitted with rubber roll-down eyecups designed for your comfort and to exclude extraneous light. If you wear sun/eyeglasses, roll down the eyecups. This will bring your eyes closer to the binocular lens thus providing improved field of view.



Fig. 3

ROLL-DOWN EYECUPS

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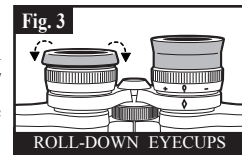
**INSTRUCTIONS FOR CARE OF BINOCULARS**

Your Bushnell binocular will provide years of trouble-free service if it receives the normal care you would give any fine optical instrument. Non-waterproof models should not be exposed to excessive moisture.

1.  If your binocular has roll-down, flexible eyecups, store it with the eyecups up. This avoids excessive stress and wear on the eyecups in the down position.
2.  Avoid banging and dropping.
3.  Store in a cool, dry place.
4.  CAUTION: Looking directly at the sun with your binocular may be very harmful to your eyes.
5.  Never expose your ImageView binocular to any type of excessive of liquid or fluid, as the binocular is not water/fogproof.
6.  Take the batteries out of your ImageView if you are not going to use it for a long period of time. (Make sure you download any pictures from your camera before you remove the batteries from the camera.)

**CLEANING**

1.  Blow away any dust or debris on the lens (or use a soft lens brush).
2.  To remove dirt or finger prints, clean with a soft cotton cloth rubbing in a circular motion. Use of a coarse cloth or unnecessary rubbing may scratch the lens surface and eventually cause permanent damage. A "microfiber" cleaning cloth (available at most photo dealers) is ideal for the routine cleaning of your optics.
3.  For a more thorough cleaning, photographic lens tissue and photographic-type lens cleaning fluid or isopropyl alcohol may be used. Always apply the fluid to the cleaning cloth – never directly on the lens.

# Notes

## TWO-YEAR LIMITED WARRANTY

Your Bushnell® product is warranted to be free of defects in materials and workmanship for two years after the date of purchase. In the event of a defect under this warranty, we will, at our option, repair or replace the product, provided that you return the product postage prepaid. This warranty does not cover damages caused by misuse, improper handling, installation, or maintenance provided by someone other than a Bushnell Authorized Service Department.

Any return made under this warranty must be accompanied by the items listed below:

1) A check/money order in the amount of $10.00 to cover the cost of postage and handling
2) Name and address for product return
3) An explanation of the defect
4) Proof of Date Purchased
5) Product should be well packed in a sturdy outside shipping carton, to prevent damage in transit, with return postage prepaid to the address listed below:

**IN U.S.A. Send To:**
Bushnell Outdoor Products
Attn.: Repairs
8500 Marshall Drive
Lenexa, Kansas 66214

**IN CANADA Send To:**
Bushnell Outdoor Products
Attn.: Repairs
25A East Pearce Street, Unit 1
Richmond Hill, Ontario L4B 2M9

For products purchased outside the United States or Canada please contact your local dealer for applicable warranty information. In Europe you may also contact Bushnell at:

Bushnell Germany GmbH
European Service Center
Mathias-Brüggen-Str. 80
GERMANY
D- 50827 Köln
Tel: +49 221 995568-0
Fax: +49 221 995568-20

This warranty gives you specific legal rights.
You may have other rights which vary from country to country.
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**FCC Note:**

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

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

The shielded interface cable must be used with the equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.

Specifications and designs are subject to change without any notice or obligation on the part of the manufacturer.

INNOVATION THAT THRIVES OUTSIDE

For further questions or additional information please contact:

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