MEDION®

Digital Camera

MD 5015

Instruction Manual

FC

Item # 3438

DIGITAL CAMERA
4.1 MEGAPIXEL

MANUAL

Information in this document is subject to change without notice.

Table of Contents:

SAFETY AND SERVICE

SAFETY NOTES

This manual contains important information about how to safely and properly set up, use, and care for your digital camera. Read this manual carefully and follow all of the instructions given. Keep these instructions with your camera at all times. The proper set up, use and care can help extend the life of your camera.

OPERATING SAFETY

* **DO NOT take the camera apart.** Do not attempt to service or repair the camera yourself. Refer all servicing to qualified service personnel.
* **DO NOT allow children to use electrical appliances without supervision.** Failure to follow safety precautions can result in serious injury from electric shock or fire.
* **DO NOT expose the camera to liquids or moisture.**
* **DO NOT drop your camera or subject the camera to harm**. This camera is NOT designed for use within industrial environments.

SET-UP LOCATION

* Keep your camera and all connected equipment away from **moisture** at all times.
* Avoid exposing your camera to **dust**, **heat**, and **direct sunlight**.
* Place and operate all components on a **stable**, **level**, and **vibration-free surface** to prevent the camera from falling.
* Provide for a suitable ambient temperature (see below).

AMBIENT TEMPERATURE

The camera can be **operated** at an ambient temperature between **32°–104° F** (**0°C – 40°C**) and a relative humidity of **20-80%**. When powered off the camera can be stored at a temperature range between **-4°–158° F** (**-20°C-70°C**) and a relative humidity of **20-90%**.

> ⚠️ After **transporting** your camera wait until it has reached room temperature before powering on. Drastic variations in temperature and humidity can create condensation within the camera and may cause the unit to **short-circuit**.

ELECTROMAGNETIC COMPATIBILITY

- When connecting the camera to a PC or other electrical appliance, follow the guidelines for **electromagnetic compatibility (EMC)**.
- Use only the USB cable **supplied**.
- Maintain a distance of **at least one-meter** from sources of **high frequency** and **magnetic interference** (e.g., television sets, loudspeakers, mobile telephones, etc.) in order to avoid camera malfunction and/or data loss.

CONNECTING

Observe the following precautions when connecting your camera to a PC or other electrical appliance:

- Route the cable so that to no one can step on it or stumble over it.
- Do not place objects on the cable or in such a manner that they may interrupt or damage the cable connection.

FCC COMPLIANCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of 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 technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Shielded interface cables, if any, must be used in order to comply with the emission limits.

DECLARATION OF CONFORMITY

**According to 47CFR, Parts 2 and 15 for
Class B Personal Computers:**

We: **Medion Aktiengesellschaft**
(Name of the Responsible Party)

Located at: **Gänsemarkt 16 – 18**
D-45127 Essen
Germany
(Adress, City, State, Zip Code)

Fax : 0 201 / 81 081 – 227
(Facsimile Number **for conformity issues only**)

Declare under sole responsibility that the product identified herein, complies with 47CFR Parts 2 and 15 of the FCC rules as a Class B digital device. Each product marketed, is identical to the representative unit tested and found to be compliant with the standards. Records maintained continue to reflect the equipment being produced can be expected to be within the variation accepted, due to quantity production and testing on a statistical basis as required by 47CFR §2.909. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation. The above named party is responsible for ensuring that the equipment complies with the standards of 47CFR §§15.101 to 15.109.

Trade Name: **Medion**

Type or
Model Number: **MD 5015**

Party Responsible: **MEDION AG**

Executed on (Date), at (Place): **3rd of February 2003, Essen**

REPAIR

Please contact our service center if you have problems with your camera. Have repairs serviced only by authorized service dealers.

Contact your service dealer when...

• Liquid has gotten inside of the camera.
• The camera does not operate properly.
• The camera falls and the housing is damaged.

CLEANING

• Avoid exposing the camera to dirt or dust.
• Ensure that the camera and lenses are not dirty and are covered when not in use.
• Clean the camera with a soft, moist cloth.
• Do not use any type of solvents, caustic or gaseous cleaning agents.

DATA SECURITY

Every time you update your data make back-up copies on an external storage medium. Medion does not assume liability for data loss or damage to data storage units.

INTRODUCTION

NOTES ON THESE INSTRUCTIONS

These instructions are arranged by subject to help you quickly find information regarding your camera and to show you how to operate your camera in easily understandable language.

Help with application programs and your PC's operating system (e.g., Microsoft Windows®) can be found within those programs. Generally, help functions are available by pressing a key (usually F1) or clicking with the mouse. These help texts are provided to you while using the Microsoft Windows operating system or the specific application program.

QUALITY

In selecting the components for this digital camera we focused on maximum function, simple handling, safety, and reliability. The balance struck between ease of use and depth of features has allowed us to offer you an advanced camera design that will provide you a great deal of pleasure for your work and recreation.

SERVICE

We provide support to you regarding the use of your camera with individualized customer service. Contact us, we will be glad to help. For additional information on customer support please see the relevant chapter in this manual.

OUR TARGET GROUP

These instructions are intended for both the novice and advanced user. Regardless of the possible professional utilization, this camera is designed for day-to-day household use. The functions and applications for use with this camera have been designed with the entire family in mind.
We are pleased to welcome you as a new customer. Thank you for your support.

CONTENTS

Please check that the contents are complete and notify us within 14 days of purchase if any of the following components are missing:

Camera
USB Connection Cable
Video Cable
Wrist Strap
Power Pack (optional)
Battery Charger (optional)
CompactFlash™ Memory Card Type I
Installation and Application Software on CD-ROM (1 or 2 CD's according to version)
This user manual
Warranty Documentation

> ➲ In order to install the software for your camera you may need to enter the serial numbers printed on the CD or on the CD sleeve. Keep this code in a safe place.
>
> ➲ Prior to installation, write these numbers down as the CD will not be accessible to you during installation.

SYSTEM REQUIREMENTS

Computer	PC/AT compatible computer
Processor Power	Pentium 200 or higher
Operating System	Windows®98SE/ME/2000/XP
RAM	64 MB or more
Hard Disk Drive	110 MB of free space
Installation	CD-ROM drive (4x or higher)
Connections	USB port
Hardware	VGA color monitor

SPECIFICATIONS

Camera	
CCD	1/1.8" CCD (4:3) with 3.87 million pixels, ISO 100
Lens	3 x zoom lens f3.4/3.6 0.3"-0.9" 9 lenses in 6 groups, max. resolution 16 lb/mm, 0.4-infinity, macro-near distance setting range from 0.08 m (1.57"x2.36" format image)
Shutter	2-1/500 sec.; max. time interval betw. exp. 6 sec. trigger delay 1.5 sec.
Exposure Control	Exposure program with center-weighted or spot metering
Monitor	1.8" TFT color LCD with 220x220 Pixel
Memory Type	CompactFlash™ Type 1 memory card
Image File Type	24-bit RGB, Exif 2.1 (DCF), DPOF compatible

Capture Mode	
Mode	Single image, burst series images, multiple images with 16 shots, Self Timer
Self Timer	Trigger delay approx. 10 sec.

| Built-in Flash		
	Charging Time	Approx. 8 sec. for fill-in flash
	Flash Modes	Automatic flash, fill-in flash, flash off, automatic flash with red-eye reduction (standard setting), fill-in flash for special effects – quantity of light depends on available light (flash off in macro mode)
Interfaces		
	Video Terminal	PAL/NTSC (Composite video signal) H-resolution 220 lines
	PC Interface	USB port
Energy Sources		
	Batteries	4 AA NiMH rechargeable batteries (alternatively AA NiCd or alkaline batteries)
	Ext. Power Supply	AC power pack
	Working Temperature	32° to 104°F, maximum air humidity 85% (non-condensing)
Dimensions and Weight		
	Dimensions (L x H x W)	4.57" x 2.87" x 2.44"
	Weight	Approx. 280g (without batteries and memory card)

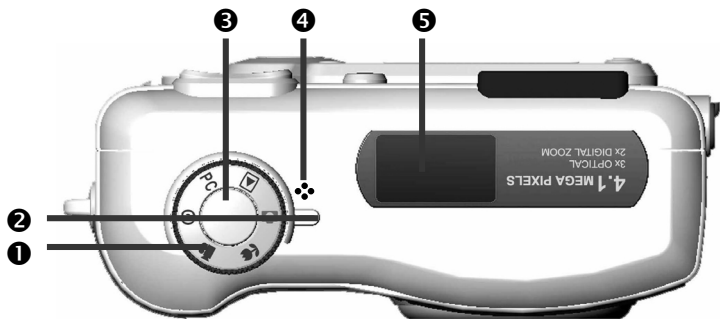(Subject to technical modifications)

VIEWS

CAMERA BODY, FRONT
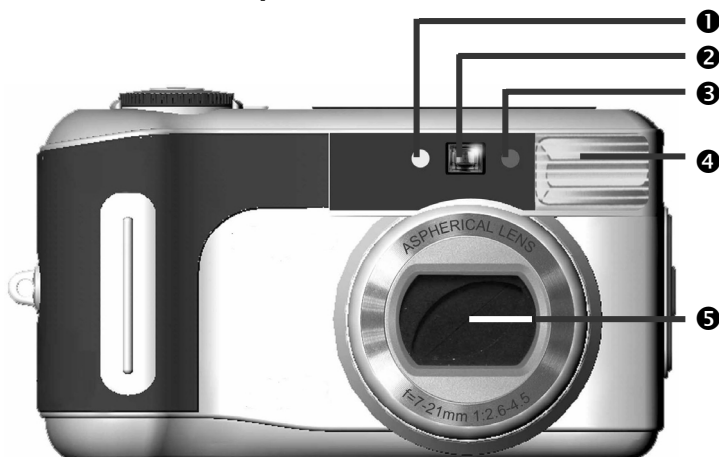
REF.	NAME
❶	Flash Sensor (⇨ p. 23)
❷	Self-timer lamp (⇨ p. 25)
❸	Viewfinder (⇨ p. 15)
❹	Flash (⇨ p. 23)
❺	Lens

CAMERA BODY, REAR
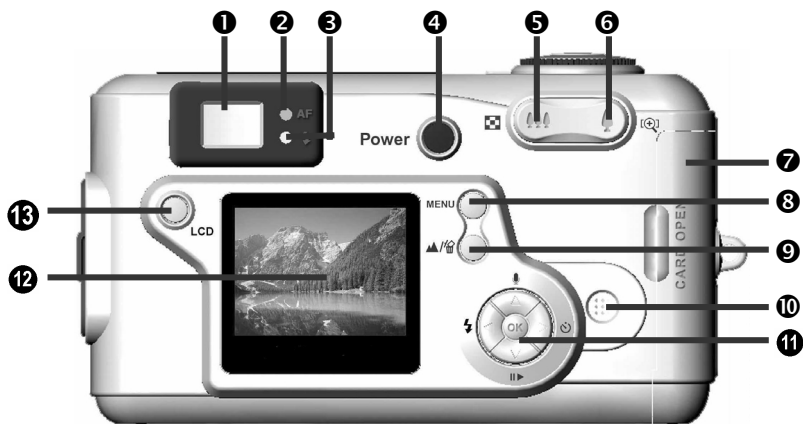
REF.	NAME
❶	Viewfinder ($\Rightarrow$ p. 15)
❷	Auto focus indicator (green) ($\Rightarrow$ p. 22)
❸	Flash indicator (red) ($\Rightarrow$ p. 23)
❹	Power ON/OFF ($\Rightarrow$ p. 22)
❺	Zoom out / Thumbnail ($\Rightarrow$ p. 30)
❻	Zoom in / Digital Zoom ($\Rightarrow$ p. 23)
❼	Card slot ($\Rightarrow$ p. 21)
❽	Menu button
❾	Landscape / Delete ($\Rightarrow$ p.32)
❿	Speaker
⓫	5-function button
⓬	LCD monitor ($\Rightarrow$ p. 16)
⓭	LCD button

CAMERA BODY, TOP

REF.	NAME
❶	Mode dial
❷	Position indicator of mode dial
❸	Shutter button
❹	Microphone (⇨ p. 26)
❺	LCD panel (⇨ p. 14)

CAMERA BODY, BOTTOM
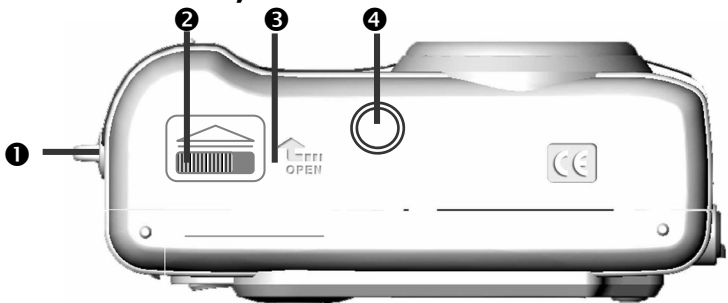
REF.	NAME
❶	Strap eyelet (⇨ p. 21)
❷	Battery cover lock (⇨ p. 19)
❸	Battery cover (⇨ p. 19)
❹	Tripod socket

CAMERA BODY, RIGHT (CONNECTORS)

REF.	NAME
❶	Power pack connector (⇨ p. 20)
❷	Video output (⇨ p. 32)
❸	USB port (⇨ p. 43)
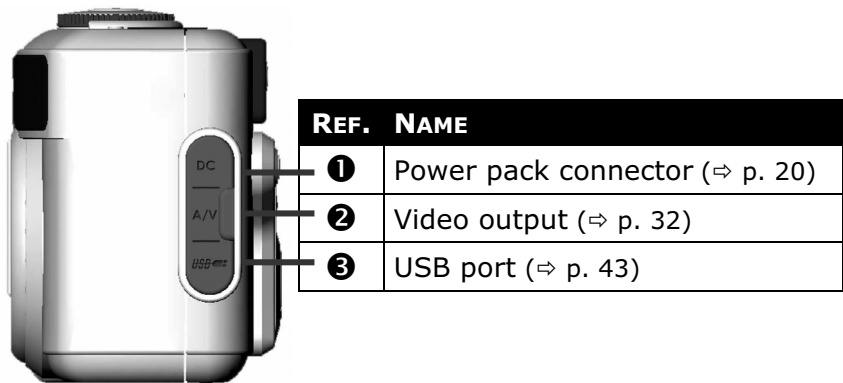
LCD PANEL
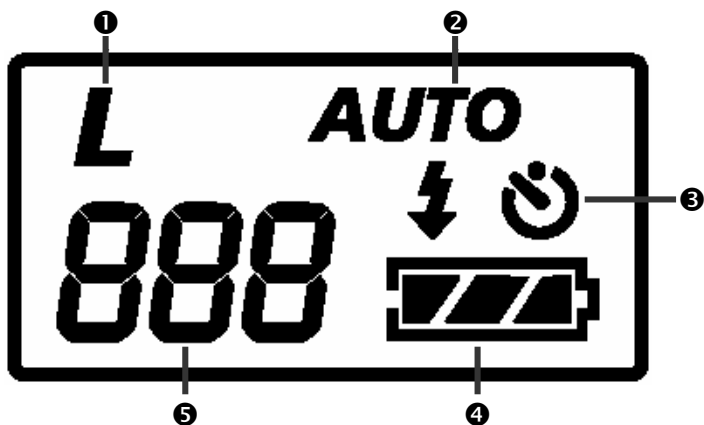
REF.	NAME
❶	Image size (⇨ p. 28)
❷	Flash mode indicator (⇨ p. 23)
❸	Self-timer indicator (⇨ p. 25)
❹	Battery condition indicator (⇨ p. 20)
❺	Shooting information

VIEWFINDER
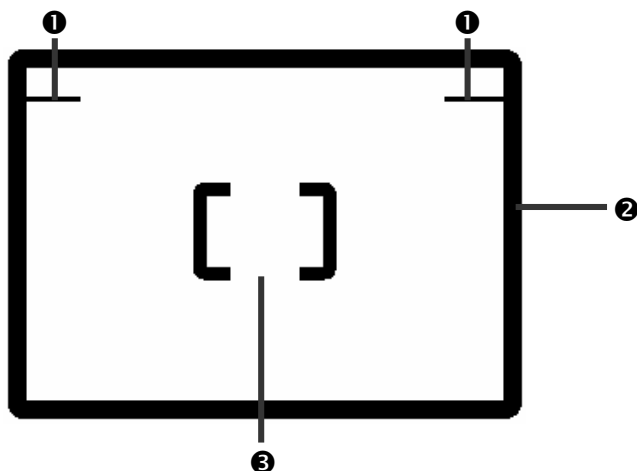
REF.	NAME
❶	Parallax marks
❷	Picture area frame
❸	Auto focus frame

> ➲ If you want to photograph an object through the viewfinder at a distance of less than 40", note that only the area situated below the parallax marks is photographed. Use the LCD monitor to check the position of your object if the distance from the lens is less than 40".

LCD MONITOR
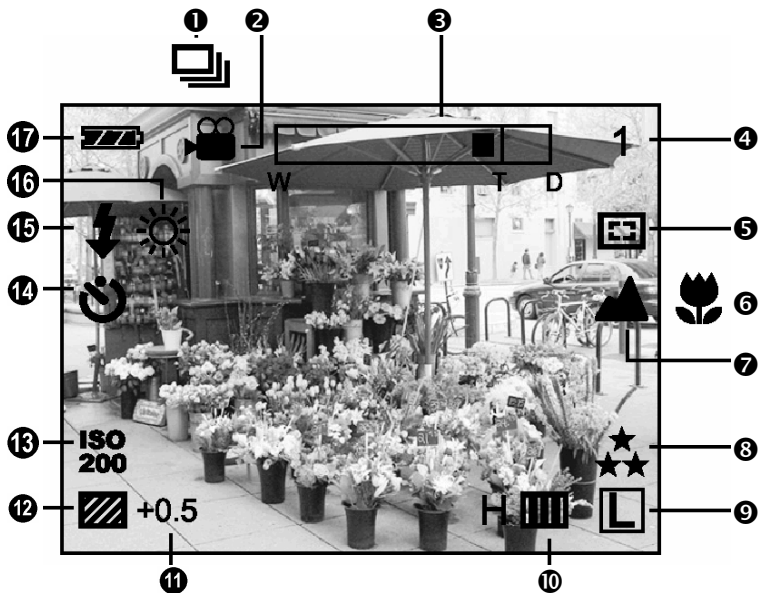
REF.	NAME	SYMBOL
❶	Capture mode [Continuous / Single] (⇨ p. 25)	🖳 ▢
❷	Movie clip shot (⇨ p. 26)	🎥
❸	Zoom/Digital Zoom (⇨ p. 23)	W T D
❹	Remaining shots	1
❺	Focusing methods (⇨ p. 22)	▣ ▣
❻	Macro shot	🌷
❼	Landscape shot	▲
❽	Image quality (⇨ p. 28)	★★ ★★ ★

REF.	NAME	SYMBOL
❾	Image size (⇨ p. 28)	L M S
❿	Sharpness	▥ ▥ ▥
⓫	Exposure compensation (⇨ p. 27)	-2.0~0~+2.0
⓬	Metering methods (⇨ p. 27)	▨ ▣ ▣
⓭	ISO	A ISO 200 ISO 400
⓮	Self-timer (⇨ p. 25)	⟳
⓯	Flash (⇨ p. 23)	⚡ ⚡ᴬ ⚡ ★ ⚡
⓰	White balance (⇨ p. 29)	A ☼ ☰ ☼
⓱	Battery condition (⇨ p. 20)	▰▱ ▰▱ ▱

SETTING UP

INSERTING BATTERIES

For mobile use, the camera requires **four** 1.5V batteries (type AA). Be careful when removing any batteries from the camera as the batteries generate heat when the camera is running.

Open the battery compartment by sliding the cover in the direction indicated (①), then lift the lid (②).

Load the batteries in the compartment, observing correct polarity.

Close the battery compartment.

For practical purposes, we recommend the use of high-capacity NiMH rechargeable batteries.

After changing the batteries, make sure that the date and time of the built-in clock are correct (⇨ p. 34).

If disconnected from a power source for extended periods of time, the camera "forgets" individual program settings and reverts to the default values. This does **not** result in the loss of the images stored on the memory card.

> ➲ **Old batteries** should not be disposed of with domestic refuse. Please help protect the environment by disposing of used batteries properly. If necessary, contact your dealer or our Customer Services department for additional information on proper disposal.

CHECKING THE VOLTAGE

If batteries or rechargeable batteries have been placed in the camera, the camera automatically checks the battery condition and displays it on the data monitor.

Indicator	Message
▰▰▱	The batteries are fully charged.
▰▱ ▱	The batteries are no longer fully charged, but the camera is completely functional.
▱ ▱	The batteries are exhausted.

To help extend battery life, the camera automatically shuts down if left unused for 3 minutes. The automatic current disconnection delay can be set to 1, 5, 10 or 30 minutes. If you are using a power pack, or if the camera is connected to a PC, the automatic current disconnection is fixed at 30 minutes and cannot be altered.

USING THE AC POWER ADAPTER

If you have access to mains supply, using an AC Adapter allows the camera to be used for long periods of time. If you connect the camera to a computer, it is advisable to use an AC adapter, as this will enable extended use.

- Plug the adapter into the connection point (DC IN) on the camera.

> ➲ Always turn off power before taking the AC adapter out of the mains supply. As with all mains powered devices, safety is important. Ensure that neither the camera nor the adapter comes into contact with water or metallic materials.

ATTACHING THE STRAP

To prevent accidental damage to the camera, always use the strap. Refer to the illustration below.

INSERTING/REMOVING THE MEMORY CARD

> ➲ Remember to turn the camera off before inserting or replacing the memory card. Otherwise, data on the card may be lost or the card itself may be damaged.

1. Open the card slot at the rear side of the camera (⇨ p. 12).
2. Insert the memory card with the terminal contact strip pointed toward the camera in the card slot.

> ➲ Slide the card in straight. Do not allow it to lean to the side. All memory cards pass in only one direction and with the right side into the camera.

3. After insertion, push the card all the way into the slot. The safety lever snaps out.
4. To remove the memory card, the safety lever must be in the up position. Press the lever to eject the card.
5. Always close the card slot cover after insertion or removal of the memory card.

SWITCHING THE CAMERA ON/OFF

Press the on/off switch (⇨ p. 12) to turn the camera on. The camera will automatically turn off if it does not receive user input within 3 minutes. Operate the on/off switch again to restart the camera.

TAKING PICTURES

1. Turn the mode dial (⇨ p. 11) to the camera symbol and turn the camera on.

2. Position yourself and the camera so that the object to be photographed is completely visible in the viewfinder.

3. Press the shutter button to store the image.

4. You should hear a high-pitched tone confirming a successful capture.

A low-pitched tone indicates insufficient light conditions and a failed capture. A sequence of tones indicates that the camera memory is full.

ADJUSTING THE FOCUS

If the button is pressed halfway down, the camera automatically measures the focus and displays the status through the auto focus indicator (⇨ p. 12).

Display	Status
Lights Up	Focus is set and image can be captured.
Flashes	Focusing is not possible. Object may be too close, too dark, or too bright.

DIGITAL ZOOM

The camera has a digital zoom function. This can be used to make a picture appear larger/closer-up than is possible through the maximum focal length of the zoom lens.

> ➲ The digital zoom functions only with camera screen turned on.

The digital zoom comes on automatically if you hold the right zoom button (⇨ p. 12) for two seconds at the maximum setting value.

> ➲ Use this function in exceptional cases and when you need low resolution photographs as the camera **automatically** switches to low resolution (480 x 640 pixels) in digital zoom.

BUILT-IN FLASH

The built-in flash offers five operating modes that you can select with the 5-function button.

Press the left button of the 5-function button. You can now select the following operating modes:

Display	Operating mode
⚡A	Flash automatically activated (if insufficient light).
⚡	Flash on.
⚡	Flash off.
⚡A⊙	Flash turned on with function to prevent "red eye" effect.
☾⚡	Flash triggered by reference to available light.

The range of the built-in flash device is approximately 0.4 to 3 m. The flash illuminates wide angle shots and telephoto shots.

The flash will not function if burst series images or near distance modes are selected.

Under standard operating conditions (i.e., every time it is turned on or off) the camera switches to **Automatic with Red Eye Function** mode and sets the flash intensity to Normal.

FLASH INDICATOR

The flash indicator on the viewfinder will show a steady red light if the automatic flash is activated and if the flash is ready and charged.

The red light flashes when the flash is being recharged. The camera cannot be used while the flash is recharging.

CAPTURE MODES

Under standard conditions the camera starts in the **Single** shot capture mode. The camera also has **Continuous** and **Self**-**Timer** modes.

CONTINUOUS

The Continuous function is ideally suited for taking pictures of sequences of movement such as sports, dancing, or actions. Pictures can be taken in rapid succession at intervals of a few seconds. Such series of pictures are limited only by the size/capacity of the memory card. Make sure that you have sufficient memory when you would like to capture burst series images, or reduce the picture size (number of pixels) and/or the image quality (compressing) for such series of images.

> ➲ Remember to check the focus setting for burst series images; the first image in the series determines the whole metering process. You may have to interrupt the series of images to adjust the focus if your subject moves out of the focus range.

SELF TIMER

The Self Timer function triggers the camera after a delay of approximately 10 seconds. The red warning light on the front of the camera flashes with increasing frequency and shows the run of the lead time. There is also an additional acoustic warning signal. This sound can be turned off in the Setup mode.

1. Press the right button of the 5-function button at least for 4 seconds. The self-timer symbol will appear in the LCD panel and in the LCD monitor.

2. Press the shutter button until the acoustic signal starts. Now starts the countdown.

MOVIE CLIP SHOT

When the mode dial is rotated to **Movie Clip** mode, the LCD monitor will be displayed as sown below.

Availbale recording time

Press the shutter button one and movie clips are recorded for as long as the available recording time allows. Movie clips will still be recorded if the shutter button is released.
If you wish to stop recording, press the shutter button again. The image size corresponds to QVGA (320 x 240). The files are stored as AVI types.

MICROPHONE

This function allows user to record some voice in any picture which you like.
1. Rotate the mode dial to the **Playback** mode.
2. Select the image that you wish to add sound to.
3. Press upward button of the 5-function button with the microphone symbol and the sound recording indicator will display. The sound is being recorded.
4. Recording can be stopped by pressing the button again. The sound will record for 10 seconds.

PLAY & PAUSE

The Play & Pause button of the 5-function button is used for playing and pausing a sound recorded still image, movie clip or slide show.

AUTOMATIC EXPOSURE CONTROL

The camera automatically exposes ISO 100 digital images correctly. The exposure times automatically selected by the exposure control program include the 2 to 1/500 seconds range and the focal apertures f 3.4, f 4.8, f 7.7 and f 15 (wide angle); and f 3.6, f 4.8, f 7.7 and f 15 (telephoto).

If the button is depressed halfway and held in this position until the picture is taken, the camera stores the measured exposure values for the shot. This allows a precise exposure for subjects with high contrast values (light/darkness).

You can select the **Exposure** function via the Menu button on the back of the camera and with the 5-function button. The **Metering** subroutine includes the setting options **Full**, **Central**, and **Spot**.

INDIVIDUAL EXPOSURE CORRECTION

The camera has an individual exposure correction option in addition to its automatic exposure control.
The exposure times automatically selected by the exposure program can be corrected by adjustments of +2.0 to −2.0.

SETTING THE IMAGE SIZE

The camera has a 1/1.8 inch CCD image capture sensor with 4.1 million pixels (2272 x 1704) at a picture ratio of 4:3.

Photo resolution can be set to 2272 x 1704 pixels (the maximum resolution), 1200 x 1600, and 640 x 480 (the smallest photo size).

The image data sizes produced by the camera CCD image sensor can be stored at three different compression rates: Superfine = 1:6, Fine = 1:12 and Normal = 1:25. Compression is available for all three image resolutions.

Produced image data sizes*			
	Quality		
Image Size	Superfine	Fine	Normal
S 640 x 480	approx. 194	approx. 366	approx. 623
M 1600 x 1200	approx. 29	approx. 58	approx. 119
L 2272 x 1704	approx. 14	approx. 29	approx. 58

*These figures may vary since the settings can be changed at any time. The above values were obtained using a 32 MB memory card.

ADJUSTING THE WHITE BALANCE

The camera automatically sets the white balance according to prevailing sources of light. Special light sources can be adapted for optimization and for special light conditions.

The following settings can be used in image capture mode:

AUTO   AUTO
Automatic setting

☼   DAYLIGHT
Set to sunlight

💡   FLUORESCENT
Set to neon light (fluorescent light)

💡   TUNGSTEN
Set to incandescent light

IMAGE DISPLAY

Turn the mode dial to the display symbol (▸). Switch the camera on.

The LCD monitor will automatically display the last picture taken along with the frame number and the date and time the image was captured.
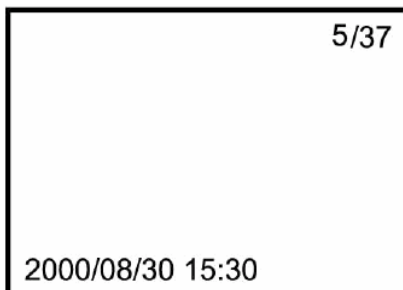
You can use the 5-function button to browse backwards (◂) and forwards (▸) through the images stored on the memory card.

Press the left zoom button to show the images together as an index display.
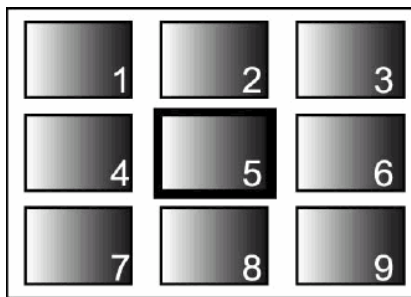
The image display always shows the first image stored se-lected with a colored frame. Use the 5-function button to move the frame to select individual images.

ENLARGED ZOOM IMAGE DISPLAY

The camera can also display stored images in a 2.0 x enlarged zoom presentation on the LCD monitor.

Go into **Playback** and press the right zoom button to activate the double zoom enlargement. A magnifying glass icon and the message "2.0 x" appear on the display.

You can now scroll in all four directions on the displayed part of the image using the 5-function button. Press the left zoom button once to return the image to standard display size.

IMAGE DISPLAY AS SLIDE SHOW

The camera can display all images stored on the memory card as a slide show.

In the **Playback** menu, press the Menu button, then use the 5-function button to select **Slide Show**. In the submenu you can begin the slide show by selecting **Start**. The display time of the individual frames is preselected through the **Time** submenu and may be 2, 3, 5 or 10 seconds.

The sequence of the displayed frames can be preselected in the **Direction** submenu and offers the following options: **Forward** and **Backward**.

IMAGE DISPLAY ON TV AND VIDEO BEAMER

Camera images may be displayed on a television set by connecting the video cable included with the camera to the TV and to the camera's Video output. You may choose between NTSC and PAL video signals.

> ➲ **Caution**: the camera and projector must be turned off when connecting cables.

Once the cable connection is complete, turn the TV set or video beamer on and then turn the camera on in **Playback**. The stored images are displayed on the image output device only. Here again, different options are available: Single Image, Zoom and Slide Show.

DELETING IMAGES

Images stored on the memory card can be selected via the LCD display and deleted individually or in complete sets.

> ➲ **Caution:** the deletion of files can not be undone.

DELETING SINGLE IMAGES

Go into **Playback** and press the Delete button. The displayed image is deleted on confirmation of the selection.

DELETING ALL IMAGES

Go into **Playback**, press the **Menu** button and select **Delete all**.
In the submenu that follows, confirm the deletion by selecting **Yes**.

PRINTING IMAGES

The camera can prepare stored images for direct print-out in DPOF™ (Digital Print Order Format).
In the **Playback** mode, press the **Menu** button and select **DPOF**. The submenu gives you the options **Quantity**, **Index**, and **Cancel**. If you select **Quantity** a set of images appears for selection. The required number of printed copies of the selected images is preset by pressing the 5-function button upwards. The images will be printed in the set number of copies if the memory card is inserted in a printing device that is compatible with DPOF.

IMAGE MANAGEMENT

The camera arranges images on the memory card in directories.

DISPLAY BRIGHTNESS

The brightness of the LCD display can be adjusted.

Go into **Playback**, press the **Menu** button and select **LCD**. You can adjust the display brightness within a scale of 0 to 9.

The selected brightness setting remains in place when the camera is turned on/off.

BASIC SETTINGS

The basic settings and basic functions for the camera are summarized in the Setup mode. The menus are selected using the camera's 4-way control wheel and called up/confirmed by pressing once to the right.

FORMAT

A memory card can be formatted in the **Format** menu.

> ⮑ **Caution**: all image data—including data in the newly created directories—are deleted when formatting.

POWER OFF

The **Power off** menu states the interval of time after which the camera will automatically shut down. We recommend utilizing the Power Save function to help extend the life of your batteries.

The following settings are available in Power Save: 1 min., 3 min., 5 min., 10 min., and 30 min. The default value is fixed at 30 min. when the camera is connected to a PC and to a power cord.

DATE/TIME

Use the **Date/Time** menu to program date and time. These values are stored within each digital image.
When you print the image, the date/time will not be printed.

BEEP

The warning signal can be turned on or off in the **Beep** menu.

VIDEO OUT

The video output signal from the camera can be NTSC or PAL. Your choice of output will be governed by the type of device to which the camera is connected.

LANGUAGE

English and German are fixed as languages for the camera menus in the **Language** menu.

RESET

All camera functions of the operating modes can be reset to their standard values in the **Reset** menu.

PRESET SETTINGS

These are the preset values to which the operating modes in **Capture**, **Playback**, **Setup** and **PC** are reset:

Capture	
Flash	Automatic flash with "red eye" reduction
Focusing	Automatic focus; Area ⇨ Central
Shooting	Single
Size	L (2272 X 1704)
Quality	Fine
White Balance	Auto
Exposure	EV ⇨ 0.0; Metering ⇨ full
ISO	Auto
Sharpness	Normal
LCD Brightness	5
Rec. Time	15 Sec.
Playback	
Delete All	Delete All
Slide Show	Time ⇨ 5 Sec.
	Direction ⇨ Forward
DPOF	Quantity
Folder	100MD410
LCD Brightness	5 – middle brightness
Setup	
Power Save	Auto. Shutdown 3 Min.
Beep	On
Video Out	PAL
Language	English
PC	
	Transfer to PC on

CAMERA SETTINGS (SUMMARY)

CAPTURE

Function	➔ Settings	➔ Further Settings
Focusing	➔ Central ➔ Spot	
Shooting Mode	➔ Single ➔ Continuous	
Image Size	➔ L 2272 x 1704 ➔ M 1600 x 1200 ➔ S 640 x 480	
Quality	➔ Superfine ➔ Fine ➔ Normal	
White Balance	➔ Auto ➔ Daylight ➔ Fluorescent ➔ Tungsten	
Exposure	➔ EV ➔ Metering	➔ -2.0 to +2.0 ➔ Full ➔ Central ➔ Spot
ISO	➔ A ➔ 200 ➔ 400	
Image Sharpness	➔ Soft ➔ Normal ➔ Hard	
LCD	➔ Brightness	

PLAYBACK

Function	➔ Settings	➔ Further Settings
Delete All	➔ No ➔ Yes	
Slide Show	➔ Start ➔ Direction ➔ Time	➔ Forward ➔ Backward ➔ 2 sec ➔ 3 sec ➔ 5 sec ➔ 10sec
DPOF	➔ Quantity ➔ Index ➔ Cancel	
Folders	➔ 100MD410	
LCD	➔ Brightness	

SETUP MODE

Function	➔	Settings
Format	➔	No
	➔	Yes
Power Save	➔	1 min
	➔	3 min
	➔	5 min
	➔	10 min
	➔	30 min
Date/Time	➔	Date
	➔	Time
Beep	➔	On
	➔	Off
Video Out	➔	NTSC
	➔	PAL
Language	➔	English
	➔	German
Reset	➔	No
	➔	Yes

TRANSFERRING IMAGES TO A PC

Here you will learn how to connect your digital camera to a PC. Remember to install your image processing software first. **Do not** connect the camera until installation is successfully completed.

SOFTWARE INSTALLATION

➲ **Note:** Should your operating system be configured in such a way that software and drivers cannot be installed unless signed (released by Microsoft), then a relevant dialogue will appear.

➲ Though exact wording may differ depending on your operating system (e.g. "the driver to be installed … has not passed the test") this does not mean that the driver is defective, but indicates only the absence of the Microsoft signature.

➲ You may ignore this message. Click **Next** to install the driver.

➲ **Caution:** Important files may be overwritten and altered during the installation of programs or drivers. Make a backup copy of your hard disk before installation in case of problems with the installation, or if you should need to access the original files.

INSTALLING THE CAMERA SOFTWARE

Following is a description of a typical software installation. Once you insert the CD-ROM, the installation menu launches automatically.

> **Note:** If the installation menu does not appear automatically, the "*Autorun*" function has likely been deactivated. Read the respective chapter in the Windows Help file on how to activate this function.

An example of manual installation (without the autorun function) is as follows:

1. Open the "*Start"* menu and select "*Run."*

2. Enter the letter of the CD-ROM drive containing the installation disk, followed by a colon and the program name *SETUP*.   (Example D:SETUP, where "D" is the CD-ROM drive on your PC)

3. Click on "*OK."*

4. Follow the program instructions.

CONNECTING THE DIGITAL CAMERA TO A PC

> ➲ If you have not already done so, you must
> **first** install the driver software as described
> above.

1. Please refer to the notes in the "*Safety and Service*" section (beginning on page 1).
2. Position the computer and the camera so that they are secured and safe to operate.
3. Switch on the computer and all the peripherals connected (monitor, printer, external modem, etc.) and wait until the operating system has fully started.
4. Connect the slim USB connection of the accompanying cable to the side of the camera.
5. Locate the USB port on your computer.
6. Connect the end of the USB cable (❶) with a free USB socket on your computer (❷).
7. Switch the mode dial on the camera to **PC**.

USB connection
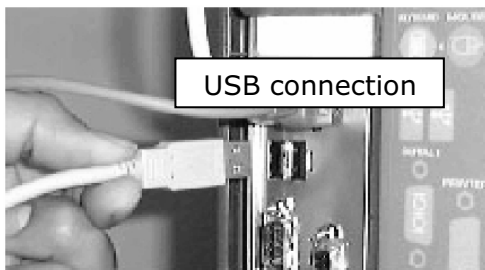
Your digital camera will be recognized as a removable disk, so you don't need a separate twain driver.

TRANSFERRING IMAGES

You can transfer pictures you have taken to your PC at any time. It is not necessary to wait until the camera memory is full to do this.

You can display your images directly by selecting the drive that has been given to your camera.

If you want to edit the image with a special software, start first the corresponding program and load the respective image.

TIPS AND TRICKS

USING CAMERA BATTERIES AND RECHARGEABLE BATTERIES

- Battery power is reduced at low working temperatures. For cold environments we recommend keeping a stock of new batteries and storing them in a warm place.
- We recommend NiMH rechargeable batteries since their capacity decreases at a slower rate. Even in cold environments these batteries will return to normal capacity after warming.
- Remove the batteries from the camera if you do not expect to use the camera for longer periods of time. Leaking batteries may damage the battery compartment and your camera.
- When using alkaline batteries, the battery condition display may show a low power level even if there is still enough power in the battery. This symbol disappears when you use the camera.
- Caution! Batteries can heat up when the camera is in use. Be careful when removing or changing batteries. Turn the camera off and wait a few minutes until the batteries have sufficiently cooled.

USING THE MEMORY CARD

The following scenarios may increase the risk of data loss or damage to your camera's memory card:

- Incorrect use of the card.
- Electrostatic discharges or interference fields in the vicinity of the card. Keep the card away from fields of electrical disturbance and static charges.
- Removal of the card or interruption of power supply while the camera is accessing the card (reading, deleting).
- Non-use of the card over long period of time. Data stored on the CompactFlash ™ card begin to break down after a certain time. Data on cards that are left unused for long periods of time may be irretrievable.
- Formatting the card wipes out all data irreversibly.
- The storage capacity of the CompactFlash ™ card is reduced on extreme use. Purchase a new card if this occurs.
- Bending the card, or exposing the card to hard impact.
- Touching the card's electrical contacts with your fingers or with a metal object.
- Exposing the card to moisture, heat, dust, or direct sunlight.
- Exposing the card to magnets (e.g., loudspeaker boxes).
- Not storing the card in its protective sleeve.

CARE OF THE LCD MONITOR

The LCD monitor is a high-precision component with a pixel failure rate of less than 0.02%.

- Do not subject the surface of the LCD monitor to any pressure as this may result in permanent damage.
- The LCD monitor display may temporarily darken at low temperatures. The normal display returns once the camera warms up.
- If the LCD monitor surface is dirty, first blow the dust and sand away then wipe with a soft, dry, clean cloth.
- The monitor must be replaced if the LCD monitor is constantly flickering or simply no longer functions.

USING THE DIGITAL CAMERA

- The camera is sensitive to shock and must be handled with utmost care.
- Turn the camera off and remove the batteries when in transit.
- The camera is not watertight.
- Inserting and removing batteries or memory cards with wet hands can cause damage.
- Careless use of the camera on the beach and near water may result in damage to the camera.
- Do not leave the camera in direct sunlight for long periods of time. Never point the lens directly towards the sun as this may damage the CCD sensor.

CUSTOMER SERVICE

PROPER CARE IN THE EVENT OF A MALFUNCTION

TROUBLESHOOTING

Malfunctions can sometimes have simple causes, but at times can also be complex and call for an in-depth analysis.

GENERAL GUIDANCE

- The regular running of the Windows® programs **De-frag** and **Scandisk** can remove sources of error and increase system performance.

CHECK CONNECTIONS AND CABLES

Start with a careful visual check of all cable links. If the LCDs are not working, make sure that the power is reaching the computer and all peripherals.

- Switch off the computer and check all cable links. If the computer is connected to peripherals, check the plug connections of all cables. Do not arbitrarily swap the cables between various units, even if they appear to be the same. The pin assignments of the cables are likely to be different. Once you have ascertained that the power supply is not at fault and all connections are intact, switch on the computer again.

FAULTS AND POSSIBLE CAUSES

The camera doesn't switch on.

- There is low battery capacity. Insert fresh batteries.
- AC power adapter is not connected. Connect the power adapter.

The camera powers down whilst in use.

- The batteries could be exhausted.
- Camera is turned off automatically due to the power save function.
- Adapter plug is not connected securely.

Batteries drain quickly

- Camera has been used in low temperatures.
- Old and new or different battery types have been mixed up.

Camera does not take images when pressing the shutter button.

- The CF™ card is not inserted.
- The CF™ card has not been formatted.
- The CF™ card is full.
- The camera power is off.
- The batteries are exhausted.
- The mode dial is positioned incorrectly.

The images are unclear.

- The focus mode is not correct.

The flash does not fire.

- **Flash off** mode has been selected.

Incorrect date and time is displayed

- The data and time have been set incorrectly or the camera has adopted the default settings.

The camera buttons do not operate.

- Remove/re-insert the batteries and switch the camera on.

CF™ card error.

- Incorrect CF™ card format. Re-format CF™ card.

Color of image different to original sreen.

- White balance setting is incorrect.

Images are too bright.

- Exposure is excessive.

The playback display is not very clear.

- The lens or the LCD monitor is smudged or dirty.

No image on external monitor.

- The external monitor has not been connected properly with the camera.
- There are incorrect files in the CF™ card.

When using the PC's explorer, Removable Drive file does not show.

- Cable connection is incorrect.
- The camera is off.
- There is no power supply.
- The PC does not support USB.
- The mode dial is not set on PC mode.

The digital camera is not recognized or receives no response.

- Check all cable connections.

DRIVER SUPPORT

This PC has been extensively tested in our laboratories with a large number of different devices. It fulfils all required standards and complies with the standard "Designed for Windows", which certifies utmost compatibility. However, device drivers are updated from time to time. One reason for this is because of potential compatibility problems with other components (programs, equipment) that have not yet been tested. Driver updates and the latest information on your product are available on the Internet.

☙ Visit Medion on the Web at
www.medion.com

ADDITIONAL SUPPORT

If the suggestions in the above section have not solved your problem, please contact Medion's customer service hotline. However, before you contact your Technology Center, please have the following information available:

- How is your computer configured?
- What additional peripherals do you use?
- What messages, if any, appear on your screen?
- What software were you using when the error occurred?
- What steps have you already undertaken to solve the problem?
- Have you upgraded or removed drivers or hardware?
- Can you manually repeat the problem?
- If you have been given a customer number previously, please give this number to the technician.

WARRANTY

PLEASE READ THIS LIMITED WARRANTY CAREFULLY TO UNDERSTAND YOUR RIGHTS AND OBLIGATIONS.

The receipt serves as proof of first purchase and should be kept in a safe place. It is required should you need to make use of the warranty.

Medion warranty applies to original purchase of the product from an approved Medion reseller and is not transferable.

We guarantee that this equipment is in perfect working order. Upon production of the receipt, the remaining period of guarantee shall pass on from the original parts to the respective replacement parts. If you hand in this equipment to make use of the warranty, you must remove all programs, data and removable storage media. Products which are sent without accessories will be replaced without accessories. The warranty obligation does not apply in the case of the problem being caused by an accident, a catastrophe, vandalism, misuse, incorrect use, ignoring the safety and maintenance regulations, changes by software, viruses or another piece of equipment or accessories or by other modifications not approved by ourselves.

This limited warranty declaration replaces all other warranties of express or implied nature. This includes the warranty of saleability or the suitability for a certain purpose but is not limited to this. In some countries the exclusion of implied warranties is not permissible upon principle. In this case the validity of all express and implied warranties is limited to the warranty period. Once this period has expired, all warranties become invalid.

In some countries limiting the period of validity for implied warranties is not permitted, so that the above limitation does not come into force. If you have any questions with regard to these warranty conditions, please contact us.

LIMITATION OF WARRANTY

To the extent allowed by local law, no other warranties or are made with respect to this digital camera or the warranty services by any person, including but not limited to us and our suppliers. The express warranty stated above is the only express warranty made to you and is provided in lieu of all other express or implied warranties and conditions (if any) including any created by any other documentation or packaging. For additional warranty information, please refer to the enclosed warranty card.

LIMITS OF LIABILITY

To the extent allowed by local law, except for the obligations specifically set forth in this warranty statement, in no event shall we or our third party suppliers be liable for direct, indirect, special, incidental, or consequential damage, whether based on contract or any other legal theory and whether advised of the possibility of such damages. This includes loss or damage of personal data on your device.

LOCAL LAW

This warranty statement gives you legal rights. You may also have other rights which vary from jurisdiction to jurisdiction. To the extent this warranty statement is inconsistent with local law, certain disclaimers and limitations of this statement may not apply to the customer.

MAKING COPIES OF THIS MANUAL

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MEDION ®

Quality and Customer Care are #1 at MEDION

Toll-Free Support number:
(866) 633-4660

24/7

**MEDION's current support
hours are listed above.**

**MEDION reserves all rights,
at any time, to change support hours.**

05/03

Professional Customer Support Team