

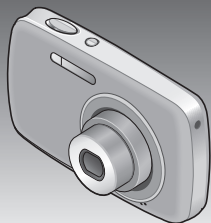
Panasonic[®]

Basic Operating Instructions

Digital Camera

Model No. **DMC-S3**
DMC-S1

LUMIX



Before use, please read these instructions completely.

More detailed instructions on the operation of this camera are contained in “Operating Instructions for advanced features (PDF format)” in the supplied CD-ROM. Install it on your PC to read it.



Dear Customer,

We would like to take this opportunity to thank you for purchasing this Panasonic Digital Camera. Please read these Operating Instructions carefully and keep them handy for future reference. Please note that the actual controls and components, menu items, etc. of your Digital Camera may look somewhat different from those shown in the illustrations in these Operating Instructions.

Carefully observe copyright laws.

- Recording of pre-recorded tapes or discs or other published or broadcast material for purposes other than your own private use may infringe copyright laws. Even for the purpose of private use, recording of certain material may be restricted.

Information for Your Safety

WARNING:

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PRODUCT DAMAGE,

- DO NOT EXPOSE THIS APPARATUS TO RAIN, MOISTURE, DRIPPING OR SPLASHING AND THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.**
- USE ONLY THE RECOMMENDED ACCESSORIES.**
- DO NOT REMOVE THE COVER (OR BACK); THERE ARE NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.**

IF THE POWER CORD OF THIS EQUIPMENT IS DAMAGED, IT MUST BE REPLACED WITH AN ELECTRICALLY APPROVED POWER CORD.

THE SOCKET OUTLET SHALL BE INSTALLED NEAR THE EQUIPMENT AND SHALL BE EASILY ACCESSIBLE.

■ Product identification marking

| Product | Location |
|-----------------|----------|
| Digital camera | Bottom |
| Battery charger | Bottom |

■ About the battery pack

CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

- Do not heat or expose to flame.
- Do not leave the battery(ies) in an automobile exposed to direct sunlight for a long period of time with doors and windows closed.

Warning

Risk of fire, explosion and burns. Do not disassemble, heat above 60 °C or incinerate.

■ About the battery charger

CAUTION!

- DO NOT INSTALL OR PLACE THIS UNIT IN A BOOKCASE, BUILT-IN CABINET OR IN ANOTHER CONFINED SPACE. ENSURE THE UNIT IS WELL VENTILATED. TO PREVENT RISK OF ELECTRIC SHOCK OR FIRE HAZARD DUE TO OVERHEATING, ENSURE THAT CURTAINS AND ANY OTHER MATERIALS DO NOT OBSTRUCT THE VENTILATION VENTS.
- DO NOT OBSTRUCT THE UNIT'S VENTILATION OPENINGS WITH NEWSPAPERS, TABLECLOTHS, CURTAINS, AND SIMILAR ITEMS.
- DO NOT PLACE SOURCES OF NAKED FLAMES, SUCH AS LIGHTED CANDLES, ON THE UNIT.
- DISPOSE OF BATTERIES IN AN ENVIRONMENTALLY FRIENDLY MANNER.

- The battery charger is in the standby condition when the AC power supply cord is connected. The primary circuit is always "live" as long as the power cord is connected to an electrical outlet.

■ Cautions for Use

- When using an AC adaptor, use the AC cable supplied with the AC adaptor.
- Always use a genuine Panasonic AV cable (DMW-AVC1: optional).
- Do not use any other USB connection cables except the supplied one.

In the event of abnormal operation (e.g. if the unit emits smoke or an unusual smell), immediately stop operating the unit and consult the Panasonic Customer Care Centre on 132600.

Keep the camera as far away as possible from electromagnetic equipment (such as microwave ovens, TVs, video games etc.).

- If you use the camera on top of or near a TV, the pictures and sound on the camera may be disrupted by electromagnetic wave radiation.
- Do not use the camera near cell phones because doing so may result in noise adversely affecting the pictures and sound.
- Recorded data may be damaged, or pictures may be distorted, by strong magnetic fields created by speakers or large motors.
- Electromagnetic wave radiation generated by microprocessors may adversely affect the camera, disturbing the pictures and sound.
- If the camera is adversely affected by electromagnetic equipment and stops functioning properly, turn the camera off and remove the battery or disconnect AC adaptor (DMW-AC5G; optional). Then reinsert the battery or reconnect AC adaptor and turn the camera on.

Do not use the camera near radio transmitters or high-voltage lines.

- If you record near radio transmitters or high-voltage lines, the recorded pictures and sound may be adversely affected.

-If you see this symbol-

Information on Disposal in other Countries outside the European Union

This symbol is only valid in the European Union.

If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.



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Standard accessories

Check that all the accessories are supplied before using the camera. Part numbers are as of January 2011.

- Battery pack***
NCA-YN101H

- Charge the battery before use.

Battery pack is indicated as battery pack or battery in the text.



- Hand strap**
VFC4297



- Battery charger**
DE-A92A



Battery charger is indicated as battery charger or charger in the text.

- USB connection cable**
K1HY08YY0017



- AC Cable**
K2CJ2YY00052



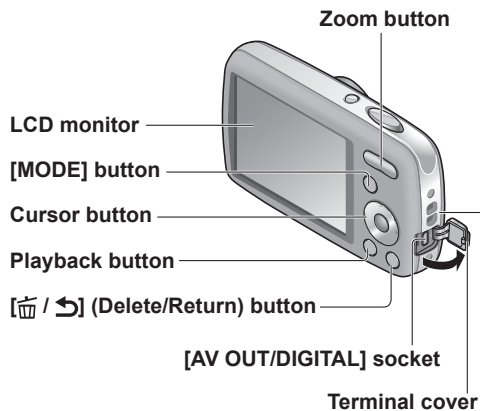
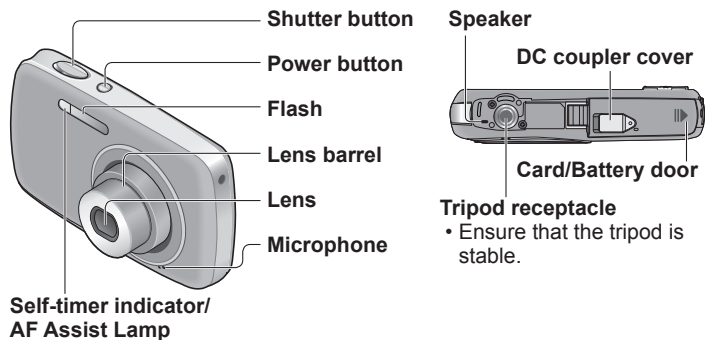
- CD-ROM**
VFF0739
- Software:
Use it to install the software on your PC.
- Operating Instructions



* When purchasing a spare battery, please purchase an optional battery (DMW-BCK7E).

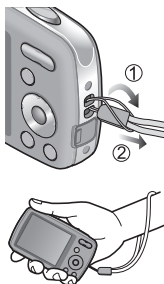
- Memory cards and AV cable are optional. You can record or play back pictures on the built-in memory when you are not using a card.
- Consult the dealer or your nearest Service Centre if you lose the supplied accessories. (You can purchase the accessories separately.)
- Please dispose of all packaging appropriately.
- Keep small parts in a safe place out of the reach of children.

Names of parts



Hand strap eyelet

We recommend using the supplied hand strap to avoid dropping the camera.



The illustrations and screens in this manual may differ from the actual product. This manual uses the screens from DMC-S3 as examples in its explanations.

Cursor button

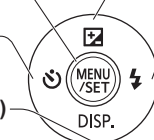
[MENU/SET]
(menu display/set)

Left cursor button (◀)
• Self-timer

Down cursor button (▼)
• Changing information display

Up cursor button (▲)
• Exposure Compensation

Right cursor button (▶)
• Flash



● In this manual, the button that is used is shaded or indicated by ▲▼◀▶.

- Always use a genuine Panasonic AC adaptor (DMW-AC5G; optional).
- When using an AC adaptor, ensure that the Panasonic DC coupler (DMW-DCC10; optional) and AC adaptor (DMW-AC5G; optional) are used.
- If the power supply is cut off due to a power cut or the AC adaptor being disconnected, the motion picture being recorded using the AC adaptor will not be recorded.
- Some tripods or unipods, and some methods of holding the camera may block the speaker, making it difficult to hear the beep, etc.

Charging the battery

■ About batteries that you can use with this unit

The batteries that can be used with this unit are NCA-YN101H (supplied) and DMW-BCK7E (optional).

It has been found that counterfeit battery packs which look very similar to the genuine products are made available to purchase in some markets. Some of these battery packs are not adequately protected with internal protection to meet the requirements of appropriate safety standards. There is a possibility that these battery packs may lead to fire or explosion. Please be advised that we are not liable for any accident or failure occurring as a result of use of a counterfeit battery pack. To ensure that safe products are used we recommend that a genuine Panasonic battery pack is used.

- Use the dedicated charger and battery.
- The battery is not charged when the camera is shipped. Charge the battery and set the clock before use.
- Charge the battery with the charger indoors (10 °C to 30 °C).

1 Insert the battery terminals and attach the battery to the charger

Ensure [LUMIX] faces outwards.



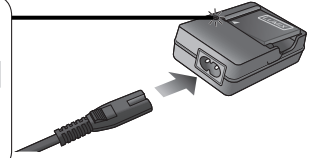
2 Connect the charger to the electrical outlet

Charging light ([CHARGE])

On: Charging in progress
(approx. 115 min. if fully depleted)*1

*1 Charge time is approx. 120 min.
for DMW-BCK7E (optional)

Off: Charging complete



3 Detach the battery after charging is completed

■ Recording capacity guidelines (pictures/recording time)

| | Supplied battery | DMW-BCK7E (optional) |
|--------------------------------------|------------------------------|------------------------------|
| Capacity | 660 mAh | 680 mAh |
| Number of recordable pictures | Approx. 250*2/240*3 pictures | Approx. 255*2/245*3 pictures |
| Recording time | Approx. 125*2/120*3 min. | Approx. 127*2/122*3 min. |
| Playback time | Approx. 200 min. | Approx. 205 min. |

*2 DMC-S3

*3 DMC-S1

Recording conditions by CIPA standard

- CIPA is an abbreviation of [Camera & Imaging Products Association].
- [Normal Picture] Mode
- Temperature: 23 °C/Humidity: 50 %RH when LCD monitor is on.
- Using a Panasonic SD Memory Card (32 MB).
- Using the supplied battery.
- Starting recording 30 seconds after the camera is turned on. (When the Optical Image Stabilizer function is set to [ON].)
- Recording once every 30 seconds with full flash every second recording.
- Perform a zoom operation every recording (W end → T end, or T end → W end)
- Turning the camera off every 10 recordings and leaving it until the temperature of the battery decreases.

The number of recordable pictures or available operating time may vary according to surrounding environment and usage conditions. Figures may be reduced if flash, zoom, or other functions are used frequently, or in colder climates.

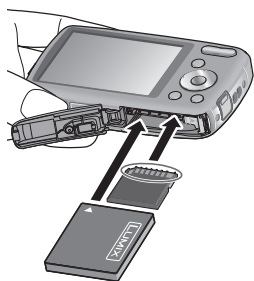
Inserting and removing the card (optional)/the battery

- 1 Turn off the power and slide the card/battery door out (1) before opening the door (2) as illustrated



- 2 Insert the battery and card, making sure that their orientation is correct

- Battery: Insert all the way firmly until a locking sound is heard, and check that the lever is hooked over the battery.
- Card: Insert all the way firmly until it clicks.



- 3 Close the card/battery door and slide the door in until you hear a locking sound

■ To remove

- To remove battery: move lever in direction of arrow.



- To remove card: press down in centre.



- Always use genuine Panasonic batteries (NCA-YN101H: supplied or DMW-BCK7E: optional).
- If you use other batteries, we cannot guarantee the quality of this product.
- Insert the card fully, otherwise it may be damaged.

Picture save destination (cards and built-in memory)

■ Built-in memory (DMC-S3: Approx. 70 MB/DMC-S1: Approx. 20 MB)

- The built-in memory can be used as a temporary storage device when the card being used becomes full.
- The access time for the built-in memory may be longer than the access time for a card.

■ Compatible memory cards (optional)

The following SD standard-based cards (Panasonic brand recommended)

| Type of Card | Capacity | Notes |
|-------------------|--------------|---|
| SD Memory Cards | 8 MB – 2 GB | <ul style="list-style-type: none"> • Can be used with devices compatible with the respective formats. • Before using SDXC Memory Cards, check that your computer and other devices support this type of card. http://panasonic.net/avc/sdcard/information/SDXC.html • Only the cards listed on the left with the given capacities are supported. • Using a card of SD Speed "Class 6"* or above is recommended for recording motion pictures. |
| SDHC Memory Cards | 4 GB – 32 GB | |
| SDXC Memory Cards | 48 GB, 64 GB | |

* SD speed class refers to a specification for sustained write speeds. Confirm the SD speed by checking the card label or other card related materials.

(Example) Class 6

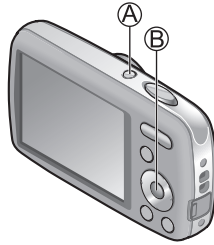


- Latest information:
<http://panasonic.jp/support/global/cs/dsc/>
(This Site is English only.)
- Keep the Memory Card out of reach of children to prevent swallowing.

Setting the clock

The clock is not set when the camera is shipped.

- 1 Press the Power button (A)**
[Please set the clock] is displayed.
- 2 Press [MENU/SET] (B)**
- 3 Press ◀▶ to select the items (year, month, day, hour, minute, display order or time display format), and press ▲▼ to set**
 - To cancel → Press [⏪ / ⏩].
- 4 Press [MENU/SET]**
- 5 Confirm the setting and press [MENU/SET]**
 - To return to the previous screen, press [⏪ / ⏩].
 - Turn on the power again and check the time display.



■ To change time setting

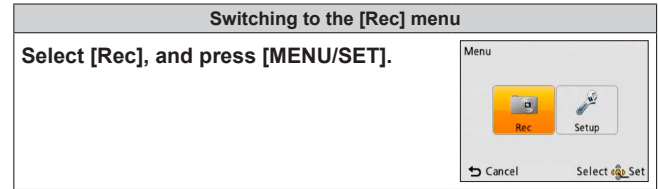
Select [Clock Set] from [Rec] or [Setup] menu, perform **3** and **4**.

Setting the menu

Refer to the procedure example below when operating the [Setup] menu, [Rec] menu and [Playback] menu.

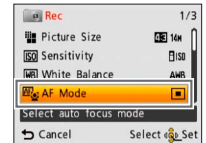
Example: Setting [AF Mode] from [□] to [👤] in the [Normal Picture] Mode

- 1 Press [MENU/SET] to display the menu**



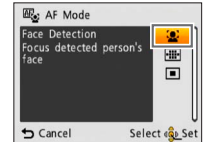
- 2 Press ▲▼ to select [AF Mode] and then press [MENU/SET]**

• Depending on the item, its setting may not appear or it may be displayed in a different way.



- 3 Press ▲▼ to select [👤] and then press [MENU/SET] to set**




- 4 Press [⏪ / ⏩] several times to close the menu**



Selecting the Recording Mode

- 1 Press the Power button (A)**
The power is turned on.
- 2 Press the [MODE] button (B)**
- 3 Press ▲▼◀▶ to select the Recording Mode**
- 4 Press [MENU/SET] (C)**



| | |
|---|--|
|  | [Intelligent Auto] Mode Taking pictures with automatic settings. |
|  | [Normal Picture] Mode Take pictures with your own settings. |
| SCN | [Scene Mode] Take pictures according to scene. |
|  | [Motion Picture] Mode Take motion pictures. |

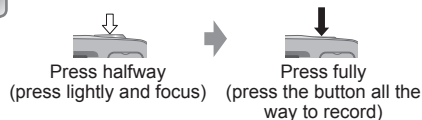
Taking pictures with automatic settings

[Intelligent Auto] Mode

Recording Mode: 

Optimum settings are made automatically from information such as "face," "movement," "brightness," and "distance" just by pointing the camera at the subject, meaning that clear pictures can be taken without the need to make settings manually.

- 1 Press the Power button (A)**
The power is turned on.
- 2 Press the [MODE] button (B)**
- 3 Press ▲▼◀▶ to select [Intelligent Auto] Mode**
- 4 Press [MENU/SET] (C)**
- 5 Take pictures**



- If jitter becomes noticeable, use both hands, keep your arms close to your body, and stand with your feet at shoulder width.
- **Focus display (D)**
(In focus: lit / Not in focus: flashing)
- The AF area (E) is displayed around the subject's face by the Face Detection function. In other cases, it is displayed at the point on the subject which is in focus.
- Focus: Max. W: 5 cm/
Max. T: 1 m and above











Taking pictures with automatic settings



[Intelligent Auto] Mode (Continued)

Recording Mode: 

Automatic Scene Detection





Camera identifies scene when pointed at the subject, and makes optimum settings automatically. The type of scene detected is indicated by a blue icon for two seconds.

| | |
|---|--|
|  People are detected |  People and night scenery are detected (Only when  is selected) |
|  Scenery is detected |  Night scenery is detected |
|  A close-up shot is detected |  A sunset is detected |
|  Reads subject movement to avoid blurring when the scene does not correspond to any of the above. | |

If the camera automatically identifies the scene and determines that people appear as subjects in the picture ( or ) Face Detection is activated, and the focus and exposure are adjusted for the recognised faces.

Taking motion pictures [Motion Picture] Mode

Recording Mode: 

- 1 Press the [MODE] button
- 2 Press     to select [Motion Picture] Mode
- 3 Press [MENU/SET]

- 4 Start recording



- 5 End recording



Remaining recording time
(approx.)



Elapsed recording time

- The focus and zoom will remain as they were at the beginning of recording.
- Immediately release the shutter button after pressing it all the way.
- When there is no space left to store the motion picture, recording automatically ends.
- Motion pictures can be recorded continuously up to 2 GB. To record more than 2 GB, press the shutter button again. (Remaining time for continuous recording is displayed on the screen.)

Viewing your pictures [Normal Play]

Playback Mode:

1 Press the Playback button (A)



2 Press to select the picture



- To play back a motion picture, select an image with or , and then press to start playback.
- Be careful not to block the speaker.
- You can print pictures by connecting a camera to your computer or printer, or by giving an SD card to a shop assistant at a photo shop.

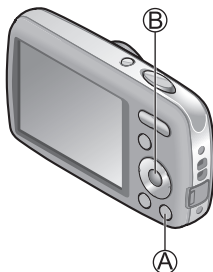
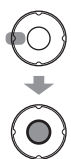
Deleting pictures

Playback Mode:

Deleted pictures cannot be recovered.

1 Press / (A) to delete the displayed picture

2 Press to select [Yes] and then press (B)



Reading the Operating Instructions

(PDF format)

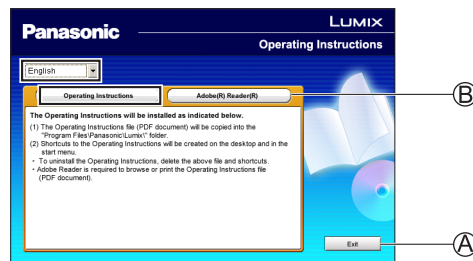
More detailed instructions on the operation of this camera are contained in “Operating Instructions for advanced features (PDF format)” in the supplied CD-ROM. Install it on your PC to read it.

■ For Windows

1 Turn the PC on and insert the CD-ROM containing the Operating Instructions (supplied)

2 Click the “Operating Instructions”

3 Select the desired language and then click “Operating Instructions” to install



(A) To return to the install menu.

(B) See next page.

4 Double click the “Operating Instructions” shortcut icon on the desktop

Reading the Operating Instructions

(PDF format) (Continued)

■When the Operating Instructions (PDF format) will not open

You will need Adobe Acrobat Reader 5.0 or later or Adobe Reader 7.0 or later to browse or print the Operating Instructions (PDF format). Insert the CD-ROM containing the Operating Instructions (supplied), click (B) and then follow the messages on the screen to install.

Compatible OS: Windows 2000 SP4 / Windows XP SP3 / Windows Vista SP2 / Windows 7

- You can download and install a version of Adobe Reader that you can use with your OS from the following Web Site.
<http://get.adobe.com/reader/otherversions>

■To uninstall the Operating Instructions (PDF format)

Delete the PDF file from the “Program Files\Panasonic\Lumix\” folder.

- When the contents in the Program Files folder cannot be displayed, click the “Show the contents of this folder” to display them.

■For Macintosh


- 1 Turn the PC on and insert the CD-ROM containing the Operating Instructions (supplied)
- 2 Open the “Manual” folder in the CD-ROM and then copy the PDF file with the desired language inside the folder
- 3 Double click the PDF file to open it

Specifications

Digital Camera: Information for your safety

| | |
|---|---|
| Power Source | DC 5.1 V |
| Power Consumption | When recording: 1.2 W When playing back: 0.7 W |
| Camera effective pixels | 14,100,000 pixels (DMC-S3) 12,100,000 pixels (DMC-S1) |
| Image sensor | 1/2.33" CCD, total pixel number 14,500,000 pixels (DMC-S3) 12,700,000 pixels (DMC-S1) Primary colour filter |
| Lens | Optical 4 x zoom f=5.0 mm to 20.0 mm (35 mm film camera equivalent: 28 mm to 112 mm)/ F3.1 (Max. W) to F6.5 (Max. T) |
| Digital Zoom | Max. 4 x |
| Extra Optical Zoom | Max. 8.4 x (DMC-S3) Max. 7.8 x (DMC-S1) (When the picture size is set to 3 million pixels [3M] or less.) |
| Focus range | |
| Intelligent Auto/ Normal/ Motion Picture | 5 cm (Wide)/1 m (Tele) to ∞ |
| Scene Mode | There may be difference in above settings. |
| Shutter system | Electronic shutter + Mechanical shutter |
| Burst recording | |
| Burst speed | 2 pictures/second (DMC-S3) The burst speed differs according to the writing speed of the card and picture size. (DMC-S1) |
| Number of recordable pictures | Until card/built-in memory is full |

Specifications (Continued)

| | |
|------------------------------|--|
| Shutter speed | 8 to 1/1600 th |
| Exposure (AE) | AUTO (Programme AE) Exposure Compensation (1/3 EV Step, -2 EV to +2 EV) |
| Metering Mode | Multiple |
| LCD monitor | 2.7" TFT LCD (4:3) (Approx. 230,400 dots) (field of view ratio about 100 %) |
| Flash | Flash range: (ISO  ISO) Approx. 40 cm to 3.3 m (Wide) |
| Microphone | Monaural |
| Speaker | Monaural |
| Recording media | Built-in Memory (DMC-S3: Approx. 70 MB, DMC-S1: Approx. 20 MB)/ SD Memory Card/SDHC Memory Card/ SDXC Memory Card |
| Recording file format | |
| Still picture | JPEG (based on Design rule for Camera File system, based on Exif 2.3 standard) |
| Motion pictures | QuickTime Motion JPEG (motion pictures with audio) |
| Interface | |
| Digital | USB 2.0 (High Speed) |
| Analogue video | NTSC / PAL Composite (Switched by menu) |
| Audio | Audio line output (Monaural) |
| Terminal | AV OUT/DIGITAL: Dedicated jack (8 pin) |

| | |
|------------------------------|--|
| Dimensions | Approx. 98.8 mm (W) x 58.8 mm (H) x 20.9 mm (D) (excluding the projection part) |
| Mass | With card and battery: Approx. 117 g Excluding card and battery: Approx. 100 g |
| Operating temperature | 0 °C to 40 °C |
| Operating humidity | 10 %RH to 80 %RH |

Specifications (Continued)

Battery charger

(Panasonic DE-A92A): Information for your safety

| | |
|---------------|--|
| Input | 110 V to 240 V ~ 50/60Hz, 0.2 A |
| Output | 4.2 V \equiv 0.43 A (Battery charging) |

Battery pack (lithium-ion)

(Panasonic NCA-YN101H): Information for your safety

| | |
|-------------------------|-----------------|
| Voltage/capacity | 3.6 V / 660 mAh |
|-------------------------|-----------------|

MEMO



- SDXC Logo is a trademark of SD-3C, LLC.
- QuickTime and the QuickTime logo are trademarks or registered trademarks of Apple Inc., used under license therefrom.
- This product uses “DynaFont” from DynaComware Corporation. DynaFont is a registered trademark of DynaComware Taiwan Inc.
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VQT3E40
M1210KZ0

Panasonic Corporation
Web Site: <http://panasonic.net>

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