Before connecting, operating or adjusting this product, please read the instructions completely.

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

For Canadian assistance, please call: 1-800-99-LUMIX (1-800-995-8649) or send e-mail to: lumixconcierge@ca.panasonic.com
Dear Customer,
Thank you for choosing Panasonic!
You have purchased one of the most sophisticated and reliable products on the market today. Used properly, we’re sure it will bring you and your family years of enjoyment. Please take the time to fill in the information below.
The serial number is on the tag located on the underside of your Camera. Be sure to retain this manual as your convenient Camera information source. 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 this Owner’s Manual.

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.

Model No. 
Serial No. 

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.

Product identification marking

<table>
<thead>
<tr>
<th>Product</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital camera</td>
<td>Bottom</td>
</tr>
<tr>
<td>Battery charger</td>
<td>Bottom</td>
</tr>
</tbody>
</table>

About the battery pack

CAUTION
Battery pack (Lithium ion battery pack)
• Use the specified unit to recharge the battery pack.
• Do not use the battery pack with equipment other than the specified unit.
• Do not get dirt, sand, liquids, or other foreign matter on the terminals.
• Do not touch the plug terminals (+ and −) with metal objects.
• Do not disassemble, remodel, heat or throw into fire.
If any electrolyte should come into contact with your hands or clothes, wash it off thoroughly with water.
If any electrolyte should come into contact with your eyes, never rub the eyes. Rinse eyes thoroughly with water, and then consult a doctor.

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.

Information for Your Safety

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

This Class B digital apparatus complies with Canadian ICES-003.

A lithium ion battery that is recyclable powers the product you have purchased. Please call 1-800-8-BATTERY for information on how to recycle this battery.
**Warning**
Risk of fire, explosion and burns. Do not disassemble, heat above 60 °C (140 °F) 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.

**Battery charger**
This battery charger operates on AC between 110 V and 240 V. But
• In the U.S.A. and Canada, the battery charger must be connected to a 120 V AC power supply only.
• When connecting to an AC supply outside of the U.S.A. or Canada, use a plug adaptor to suit the AC outlet configuration.

■ Cautions for Use
• Do not use any other AV cables except the supplied one.
• Do not use any other USB connection cables except the supplied one.

Keep this unit as far away as possible from electromagnetic equipment (such as microwave ovens, TVs, video games etc.).
• If you use this unit on top of or near a TV, the pictures and/or sound on this unit may be disrupted by electromagnetic wave radiation.
• Do not use this unit near cell phones because doing so may result in noise adversely affecting the pictures and/or 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 this unit, disturbing the pictures and/or sound.
• If this unit is adversely affected by electromagnetic equipment and stops functioning properly, turn this unit off and remove the battery or disconnect AC adaptor (DMW-AC5PP; optional). Then reinsert the battery or reconnect AC adaptor and turn this unit on.

Do not use this unit near radio transmitters or high-voltage lines.
• If you record near radio transmitters or high-voltage lines, the recorded pictures and/or sound may be adversely affected.

---

**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 DMW-BCG10PP
  - Charge the battery before use.
  - Battery pack is indicated as battery pack or battery in the text.

- Battery charger DE-A65B
  - Battery charger is indicated as battery charger or charger in the text.

- Hand strap VFC4297

- USB connection cable K1HY08YY0017

- AV cable K1HY08YY0018

- CD-ROM VFF0771
  - Software:
    • Use it to install the software on your PC.
    • Owner’s Manual

- Cards are optional. You can record or play back pictures on the built-in memory when you are not using a card.
- If any accessories are lost, customers should contact 1-800-99-LUMIX (1-800-995-8649) for further information about obtaining replacement parts.
- Please dispose of all packaging appropriately.
- Keep small parts in a safe place out of the reach of children.
Names of parts

Camera ON/OFF switch
Shutter button
Mode dial
Flash
Self-timer indicator/AF Assist Lamp
Lens barrel
Lens

Zoom lever

LCD monitor
[EXPOSURE] button
[DISP.] button
[Q.MENU]/[ ] (Delete/Return) button

Tripod receptacle
• Ensure that the tripod is stable.

Card/Battery door
Release lever
DC coupler cover

The illustrations and screens in this manual may differ from the actual product.

Cursor button

[MENU/SET]
(menu display/set/finish)
Up cursor button (▲)
• Exposure Compensation

Left cursor button (◄)
• Self-timer

Right cursor button (►)
• Flash

Down cursor button (▼)
• Macro Mode

In this manual, the button that is used is shaded or indicated by ▲▼◄►.

Hand strap eyelet

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

[AV OUT/DIGITAL] socket

We recommend you use a battery with sufficient battery power or the AC adaptor when recording motion pictures.

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.

●Always use a genuine Panasonic AC adaptor (DMW-AC5PP; optional).
●When using an AC adaptor, ensure that the Panasonic DC coupler (DMW-DCC5; optional) and AC adaptor (DMW-AC5PP; optional) are used.

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

■ About batteries that you can use with this unit

The battery that can be used with this unit is DMW-BCG10PP.

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 camera has a function for distinguishing batteries which can be used safely. The dedicated battery (DMW-BCG10PP) supports this function. The only batteries suitable for use with this unit are genuine Panasonic products and batteries manufactured by other companies and certified by Panasonic. (Batteries which do not support this function cannot be used.) Panasonic cannot in any way guarantee the quality, performance or safety of batteries which have been manufactured by other companies and are not genuine Panasonic products.
• 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 - 30 °C (50 °F - 86 °F)).

■ Recording capacity guidelines (pictures/recording time)

<table>
<thead>
<tr>
<th>Number of recordable pictures</th>
<th>Approx. 340 pictures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recording time</td>
<td>Approx. 170 min</td>
</tr>
<tr>
<td>Playback time</td>
<td>Approx. 300 min</td>
</tr>
</tbody>
</table>

Recording conditions by CIPA standard

• CIPA is an abbreviation of [Camera & Imaging Products Association].
• [Program AE] Mode.
• Temperature: 23 °C (73.4 °F)/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.
• Rotating the zoom lever from Tele to Wide or vice versa in every recording.
• 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.

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. 130 min. if fully depleted)
Off: Charging complete

3 Detach the battery after charging is completed
Inserting and removing the card (optional)/the battery

1 Set the camera ON/OFF switch to OFF and slide the release lever (A) to [OPEN] before opening the lid

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 lid
   Slide to the [LOCK] position.

   To remove
   • To remove battery: move lever in direction of arrow.
   • To remove card: press down in center.

Picture save destination (cards and built-in memory)

   ■ Built-in memory (approx. 70 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)

<table>
<thead>
<tr>
<th>Type of Card</th>
<th>Capacity</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>SD Memory Cards</td>
<td>8 MB – 2 GB</td>
<td>Using a card of SD Speed “Class 6” or above is recommended for recording motion pictures.</td>
</tr>
<tr>
<td>SDHC Memory Cards</td>
<td>4 GB – 32 GB</td>
<td>Can be used with devices compatible with the respective formats.</td>
</tr>
<tr>
<td>SDXC Memory Cards</td>
<td>48 GB, 64 GB</td>
<td>Before using SDXC Memory Cards, check that your computer and other devices support this type of card. <a href="http://panasonic.net/avc/sdcard/information/SDXC.html">http://panasonic.net/avc/sdcard/information/SDXC.html</a></td>
</tr>
</tbody>
</table>

* 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)

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.

Always use genuine Panasonic batteries (DMW-BCG10PP).
If you use other batteries, we cannot guarantee the quality of this product.
Insert the card fully, otherwise it may be damaged.
Setting the clock

The clock is not set when the camera is shipped.

1 Turn on the power (A)

2 Press [MENU/SET] (B) while the message is displayed

Press ▲▼ to select the items (year, month, day, hour, minute, display order or time display format), and press ▲▼ to set

• To cancel → Press [14/15].

3 Press [MENU/SET]

4 Confirm the setting and press [MENU/SET]

• To return to the previous screen, press [14/15].
• Turn on the power again and check the time display.

• To change time setting
Select [Clock Set] from the [Rec] or [Setup] menu, perform 3 and 4.

Setting the menu

Refer to the following procedures to operate the menus.

1 Press [MENU/SET] to display the menu

2 Press ▲▼ to select [LCD 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 [X] and then press [MENU/SET] to set

4 Press [14/15] several times to close the menu
Selecting the Recording Mode

1. Turn on the power (A)
2. Slide the [REC/PLAY] switch (B) to ✎
3. Switching the mode by rotating the mode dial (C)

[Intelligent Auto] Mode
Take pictures with automatic settings.

Program AE] Mode
The subjects are recorded using your own settings.

[Aperture-Priority] Mode
The shutter speed is automatically determined by the aperture value you set.

[Shutter-Priority] Mode
The aperture value is automatically determined by the shutter speed you set.

The exposure is adjusted by the aperture value and the shutter speed which are manually adjusted.

[Custom] Mode
Use this mode to take pictures with previously registered setting.

[Scene Mode]
Take pictures according to scene.

[My Scene Mode]
Take pictures in frequently-used Scene Modes.

[Motion Picture] Mode
Take motion pictures.

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. Turn on the power (A)
2. Slide the [REC/PLAY] switch (B) to ✎
3. Set the mode dial (C) to IA
4. Take pictures

Press halfway (press lightly and focus)  Press fully (press the button all the way to record)

- 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: 3 cm (0.10 feet)/
  Max. T: 1 m (3.28 feet) and above
  (7 × to 11 × is 2 m (6.57 feet) to ∞)
Taking pictures with automatic settings
[Intelligent Auto] Mode (Continued)  Recording Mode: [IA]

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

- People are detected
- Baby is detected
- Scenery is detected
- People and night scenery are detected (Only when [IA] is selected)
- 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 (IA, IA, IA), Face Detection is activated, and the focus and exposure are adjusted for the recognized faces.

AF Tracking

Even if a subject, where the focus was locked (AF Lock) moves, the camera can continue to keep it in focus.

1. Press ▲
   - AF Tracking icon
   - AF Tracking frame
     • Press ▲ again to cancel.

2. Align the AF Tracking frame with the subject, and then press ▼ to lock
   • The optimum scene is detected for the subject where the focus was locked (AF Lock).
   • AF Lock successful: Yellow
   • AF Lock failed: Red (flash)
   • Press ▼ to cancel.

Taking motion pictures  [Motion Picture] Mode  Recording Mode: [Ⅲ]

This records motion pictures with audio. (Recording with muted sound is not possible. Sound recording is monaural.) Zoom can also be used during recording.

1. Slide the [REC/PLAY] switch to Ⅲ
2. Set the mode dial to Ⅲ
3. Start recording
   - Press halfway (Adjust the focus)
   - Press fully (start recording)

4. End recording
   - Press fully

- 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.
- A maximum of approx. 2 GB of continuous motion picture can be recorded. (Even if there is more than 2 GB of available space on the card, the available recording time will be calculated for a maximum of 2 GB.)
Viewing your pictures [Normal Play]

Playback Mode: ➤

1 Slide the [REC/PLAY] switch (A) to ➤

2 Press ◄► to select the picture

● To play back a motion picture, select an image with ◄ or ►, and then press ▲ to start playback.

● 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 [nty / ◄] (A) to delete the displayed picture

2 Press ◄ to select [Yes] and then press [MENU/SET] (B)

Reading the Owner’s Manual

(PDF format)

More detailed instructions on the operation of this camera are contained in “Owner’s Manual 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 Owner’s Manual (supplied)

2 Click the “Owner’s Manual”

3 Select the desired language and then click “Owner’s Manual” to install

4 Double click the “Owner’s Manual” shortcut icon on the desktop

To return to the install menu.

See next page.
When the Owner’s Manual (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 Owner’s Manual (PDF format).
Insert the CD-ROM containing the Owner’s Manual (supplied), click ③ and then follow the messages on the screen to install.
• 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 Owner’s Manual (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 Owner’s Manual (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

<table>
<thead>
<tr>
<th>Power Source</th>
<th>DC 5.1 V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Consumption</td>
<td>When recording: 1.1 W</td>
</tr>
<tr>
<td></td>
<td>When playing back: 0.6 W</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Camera effective pixels</th>
<th>14,100,000 pixels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image sensor</td>
<td>1/2.33” CCD, total pixel number 14,500,000 pixels Primary color filter</td>
</tr>
<tr>
<td>Lens</td>
<td>Optical 16 x zoom</td>
</tr>
<tr>
<td></td>
<td>f=4.3 mm to 68.8 mm</td>
</tr>
<tr>
<td></td>
<td>(35 mm film camera equivalent: 24 mm to 384 mm)/</td>
</tr>
<tr>
<td></td>
<td>F3.3 (Max. W) to F5.9 (Max. T)</td>
</tr>
<tr>
<td>Digital Zoom</td>
<td>Max. 4 x</td>
</tr>
<tr>
<td>Extended Optical Zoom</td>
<td>Max. 33.8 x</td>
</tr>
<tr>
<td></td>
<td>(When the picture size is set to 3 million pixels [3M] or less.)</td>
</tr>
</tbody>
</table>

| Focus range            | 50 cm (1.64 feet) (Wide)/ |
|                       | 2 m (6.57 feet) (Tele) to ∞ |

<table>
<thead>
<tr>
<th>Macro/Intelligent Auto/ Motion picture</th>
<th>3 cm (0.10 feet) (Wide)/1 m (3.28 feet) (Tele) to ∞ (7 × to 11 × is 2 m (6.57 feet) to ∞)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scene Mode</td>
<td>There may be difference in above settings.</td>
</tr>
<tr>
<td>Shutter system</td>
<td>Electronic shutter + Mechanical shutter</td>
</tr>
<tr>
<td>Burst recording</td>
<td>Approx. 1.9 pictures/second</td>
</tr>
<tr>
<td>Burst speed</td>
<td>Max. 5 pictures (Standard), max. 3 pictures (Fine)</td>
</tr>
<tr>
<td>Number of recordable pictures</td>
<td></td>
</tr>
</tbody>
</table>
### Specifications (Continued)

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hi-speed burst</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Burst speed</strong></td>
<td>Approx. 10 pictures/second (Speed priority)</td>
</tr>
<tr>
<td></td>
<td>Approx. 5.5 pictures/second (Image priority)</td>
</tr>
<tr>
<td><strong>Number of recordable pictures</strong></td>
<td>Approx. 15 pictures (When using the built-in memory, immediately after formatting) Max. 100 pictures (When using a card, it may differ depending on the type of card and the recording conditions)</td>
</tr>
<tr>
<td><strong>Shutter speed</strong></td>
<td>60 to 1/4000 th</td>
</tr>
<tr>
<td></td>
<td>[Starry Sky] Mode: 15 seconds, 30 seconds, 60 seconds</td>
</tr>
<tr>
<td><strong>Exposure (AE)</strong></td>
<td>Program AE (P)/Aperture-priority AE (A)/</td>
</tr>
<tr>
<td></td>
<td>Shutter-priority AE (S)/Manual exposure (M)</td>
</tr>
<tr>
<td></td>
<td>Exposure Compensation</td>
</tr>
<tr>
<td></td>
<td>(1/3 EV Step, -2 EV to +2 EV)</td>
</tr>
<tr>
<td><strong>Metering mode</strong></td>
<td>Multiple/Center weighted/Spot</td>
</tr>
<tr>
<td><strong>LCD monitor</strong></td>
<td>3.0” TFT LCD (4:3) (Approx. 230,400 dots)</td>
</tr>
<tr>
<td></td>
<td>(field of view ratio about 100 %)</td>
</tr>
<tr>
<td><strong>Flash</strong></td>
<td>Flash range: (ISO AUTO) Approx. 60 cm (1.97 feet) to 5.0 m (16.4 feet) (Wide)</td>
</tr>
<tr>
<td><strong>Microphone</strong></td>
<td>Monaural</td>
</tr>
<tr>
<td><strong>Speaker</strong></td>
<td>Monaural</td>
</tr>
<tr>
<td><strong>Recording media</strong></td>
<td>Built-in Memory (Approx. 70 MB)/SD Memory Card/</td>
</tr>
<tr>
<td></td>
<td>SDHC Memory Card/SDXC Memory Card</td>
</tr>
<tr>
<td><strong>Recording file format</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Still picture</strong></td>
<td>JPEG (based on Design rule for Camera File system, based on Exif 2.3 standard)/DPOF corresponding</td>
</tr>
<tr>
<td><strong>Motion pictures</strong></td>
<td>QuickTime Motion JPEG</td>
</tr>
</tbody>
</table>

### Interface

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Digital</strong></td>
<td>USB 2.0 (High Speed)</td>
</tr>
<tr>
<td><strong>Analog video</strong></td>
<td>NTSC Composite</td>
</tr>
<tr>
<td><strong>Audio</strong></td>
<td>Audio line output (Monaural)</td>
</tr>
<tr>
<td><strong>Terminal</strong></td>
<td>AV OUT/DIGITAL: Dedicated jack (8 pin)</td>
</tr>
</tbody>
</table>

### Dimensions

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Operating temperature</strong></td>
<td>0 °C to 40 °C (32 °F to 104 °F)</td>
</tr>
<tr>
<td><strong>Operating humidity</strong></td>
<td>10 %RH to 80 %RH</td>
</tr>
</tbody>
</table>

### Battery charger

(Panasonic DE-A65B): Information for your safety

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Input</strong></td>
<td>110 V to 240 V ~ 50/60Hz, 0.2 A</td>
</tr>
<tr>
<td><strong>Output</strong></td>
<td>4.2 V === 0.65 A</td>
</tr>
</tbody>
</table>

### Equipment mobility: Movable

Battery Pack (lithium-ion) (Panasonic DMW-BCG10PP): Information for your safety

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Voltage/capacity</strong></td>
<td>3.6 V/895 mAh</td>
</tr>
</tbody>
</table>
### Optional accessories

**Product name:** Battery Pack  
**Product no.:** DMW-BCG10PP  
- Performance identical to supplied battery pack.  
- Recommended for taking on holiday, etc.

**Product name:** AC adaptor*  
**Product no.:** DMW-AC5PP

Purchase the AC adaptor and DC coupler as a set. They cannot be used individually with this camera.

**Product name:** Marine Case  
**Product no.:** DMW-MCTZ20

**Product name:** DC coupler*  
**Product no.:** DMW-DCC5

**Product name:** SDXC Memory Card  
**Product no.:** 48 GB: RP-SDW48GU1K Class 10  
64 GB: RP-SDW64GU1K Class 10

**Product name:** SDHC Memory Card  
**Product no.:** 4 GB: RP-SDW04GU1K Class 10  
4 GB: RP-SDN04GU1A Class 4  
8 GB: RP-SDW08GU1K Class 10  
8 GB: RP-SDN08GU1A Class 4  
16 GB: RP-SDW16GU1K Class 10  
16 GB: RP-SDN16GU1A Class 4  
32 GB: RP-SDW32GU1K Class 10

**Product name:** SD Memory Card  
**Product no.:** 2 GB: RP-SDN02GU1A Class 4

* The AC Adaptor (optional) can only be used with the designated Panasonic DC Coupler (optional). The AC adaptor (optional) cannot be used by itself.

- Product numbers are correct as of January 2011. These may be subject to change.  
- Accessories and/or model numbers may vary between countries. Consult your local dealer.
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