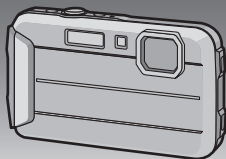


Panasonic®

Basic Owner's Manual Digital Camera

Model No. **DMC-TS30**

LUMIX



Please read these instructions carefully before using this product, and save this manual for future use.



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.



If you have any questions, visit:
Canada : www.panasonic.ca/english/support

PC

BC

SQT0719-1
F1214CT1028

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 time to fill in the information on the 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.

Date of Purchase	Dealer Phone No.
Dealer Purchased From	Model No.
Dealer Address	Serial No.

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.

For the U.S.A. and Canada only



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.

-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.



Information for Your Safety

WARNING:

To reduce the risk of fire, electric shock or product damage,

- Do not let water or other liquids drip or splash inside the unit.
- Do not expose accessories (battery pack, battery charger, AC adaptor, SD memory card and etc.) to rain, moisture, dripping or splashing.
- Use the recommended accessories.
- Do not remove covers.
- Do not repair this unit by yourself. Refer servicing to qualified service personnel.

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

CAN ICES-3(B)/NMB-3(B)

■ 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 type recommended by the manufacturer.
- When disposing of the batteries, please contact your local authorities or dealer and ask for the correct method of disposal.

- Do not heat or expose to flame.
- Do not leave the battery(ies) in a car 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 (140 °F) or incinerate.

■ About the AC adaptor (supplied)

CAUTION!

To reduce the risk of fire, electric shock or product damage,

- Do not install or place this unit in a bookcase, built-in cabinet or in another confined space. Ensure this unit is well ventilated.

AC adaptor

This AC adaptor operates on AC between 110 V and 240 V.

But

- In the U.S.A. and Canada, the AC adaptor 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 USB connection cables except the supplied one or a genuine Panasonic USB connection cable (DMW-USBC1: optional).
- Always use a genuine Panasonic AV cable (DMW-AVC1: optional).

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 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. 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.

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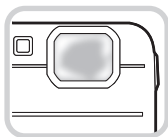
Before Use

Please be sure to read “(Important) About the Waterproof/Dustproof and Anti-shock Performance of the Camera” (P9) before using this unit underwater to prevent the unit from being mishandled, which may cause water to seep in.

- Do not apply strong shock or vibration by dropping or knocking the camera. Also, do not apply strong pressure to the camera.
 - Waterproof performance may be impaired.
 - Lens or LCD monitor may be damaged.
 - It may cause malfunction in the performance or the function.

■ When inner side of the lens is fogged (condensation)

It is not a malfunction or failure of the camera. It may be caused by the environment in which the camera is used.



What to do when inner side of the lens is fogged

- Turn off the power and open the side door in a place with constant ambient temperature, away from high temperatures, humidity, sand and dust. The fog will disappear naturally in 10 minutes to 2 hours with the side door open when the temperature of the camera gets close to the ambient temperature.
- Contact Panasonic if the fogging does not disappear.

Conditions in which inner side of the lens may be fogged

Condensation may occur and the inner side of the lens may be fogged when the camera is used in areas that undergo a significant change in temperature or in high humidity, such as the following:

- When the camera is used underwater suddenly after being on a hot beach etc.
- When the camera is moved to a warm area from a cold area, such as at a ski resort or at high altitude
- When the side door is opened in a high-humidity environment

Standard Accessories

Check that all the accessories are supplied before using the camera.
Product numbers correct as of January 2018. These may be subject to change.

- 1 Battery Pack
(Indicated as **battery pack** or **battery** in the text)
Charge the battery before use.
- 2 Battery Charger
(Indicated as **battery charger** or **charger** in the text)
- 3 AC Adaptor
(Indicated as **AC adaptor (supplied)** in the text)
This is used for charging.
- 4 USB Connection Cable
- 5 CD-ROM
 - Software
 - Owner's Manual for advanced featuresInstall on your PC before use.
- 6 Hand Strap



- Supplied accessories are not waterproof.
- SD Memory Card, SDHC Memory Card and SDXC Memory Card are indicated as **card** in the text.
- **The card is optional.**
You can record or play back pictures on the built-in memory when you are not using a card.
- For information about optional accessories, refer to the “Digital Camera Accessory System”.
- If any accessories are lost, customers in Canada should visit our support page at www.panasonic.ca/english/support for further information about obtaining replacement parts.

(Important) About the Waterproof/ Dustproof and Anti-shock Performance of the Camera

Waterproof/Dustproof Performance

This camera's waterproof/dustproof rating complies with the "IPX8" and "IP6X" ratings. Provided the care and maintenance guidelines described in this document are strictly followed, this camera can operate underwater, to a depth not exceeding 8 m (26 feet) for a time not exceeding 60 minutes. (*1)

Anti-shock Performance

This camera also complies with "MIL-STD 810F Method 516.5-Shock". The camera has cleared a drop test from a height of 1.5 m (5 feet) onto 3 cm (0.1 feet) thick plywood. In most cases this camera should not sustain any damage if dropped from a height not exceeding 1.5 m (5 feet). (*2)

This does not guarantee no destruction, no malfunction, or waterproofing in all conditions.

- *1 This means that the camera can be used underwater for specified time in specified pressure in accordance with the handling method established by Panasonic.
- *2 "MIL-STD 810F Method 516.5-Shock" is the test method standard of the U.S. Defense Department, which specifies performing drop tests from a height of 122 cm (4 feet), at 26 orientations (8 corners, 12 ridges, 6 faces) using 5 sets of devices, and passing the 26 orientation drops within 5 devices. (If failure occurs during the test, a new set is used to pass the drop orientation test within a total of 5 devices)
Panasonic's test method is based on the above "MIL-STD 810F Method 516.5-Shock". However, the drop height was changed from 122 cm (4 feet) to 150 cm (5 feet) dropping onto 3 cm (0.1 feet) thick plywood. This drop test was passed.
(Disregarding appearance change such as loss of paint or distortion of the part where drop impact is applied.)

■ Handling of the camera

- Waterproofing is not guaranteed if the unit is subject to an impact as a result of being hit or dropped etc. If an impact to the camera occurs, it should be inspected (subject to a fee) by a Panasonic to verify that the waterproofing is still effective.
- When the camera is splashed with detergent, soap, hot spring, bath additive, sun oil, sun screen, chemical, etc., wipe it off immediately.
- Waterproof function of the camera is for sea water and fresh water only.
- Any malfunction caused by customer misuse, or mishandling will not be covered by the warranty.
- The inside of this unit is not waterproof. Water leakage will cause malfunction.
- Supplied accessories are not waterproof.
- Card and battery are not waterproof. Do not handle with a wet hand. Also, do not insert wet card or battery into the camera.
- Do not leave the camera for a long period of time in places where the temperature is very low (such as at ski resorts or high altitudes) or where the temperature may exceed 40 °C (104 °F) (such as inside cars in strong sunlight, close to a heater, on boats, or on the beach). (Waterproof performance may become degraded.)

■ About the [Precautions] demonstration display ([Requirements for Underwater use])

- [Precautions] is displayed when the power is turned on for the first time after purchase, with the side door completely closed.
- Please check beforehand to maintain the waterproof performance.

1 Press ◀ to select [Yes], and press [MENU/SET].

- It will automatically skip to the clock setting screen if [No] is selected before it starts.

2 Press ◀/▶ to select the picture.

◀: Return to the previous screen

▶: View the next screen

- It can be forcefully ended by pressing [MENU/SET].
- When it is forcefully ended while checking by turning the unit off or pressing [MENU/SET], [Precautions] is displayed every time the power is turned on.

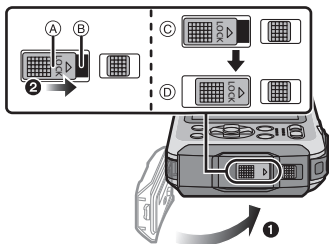
3 After the final screen (12/12), press [MENU/SET] to finish.

- When [MENU/SET] is pressed after the final screen (12/12), [Precautions] is not displayed from the next time the power is turned on.
- This can also be viewed from [Precautions] in the [Setup] menu.

Check before using underwater

Always wipe the rubber seal on the side door and the area where rubber seal sits with a dry, lint-free cloth.

- 1 Check that there are no foreign objects on the inner side of the side door.**
 - If there is any foreign object, such as lint, hair, sand, etc., on the surrounding area, water will leak within a few seconds causing malfunction.
 - Wipe it off with a dry soft cloth if there is any liquid.
It may cause water leaks and malfunction if you use the camera with liquid adhered.
 - If foreign objects are present, wipe them off with a dry, lint-free cloth.
 - Be extremely careful to remove the small sand etc. that may adhere to the sides and corners of the rubber seal.
- 2 Check for cracks and deformation of the rubber seal on the side door.**
 - The integrity of the rubber seals may decrease after about 1 year, with use and age. To avoid permanently damaging the camera, the seals should be replaced once each year. Please contact Panasonic for related costs and other information.
- 3 Close the side door securely.**
 - [LOCK] switch (gray part)
 - Red part
 - Released state
 - Locked state
 - Lock the [LOCK] switch securely until the red part is no longer visible.
 - To prevent water intrusion, be careful not to catch foreign objects such as liquids, sand, hair, dust, or the strap cord.



Do not open or close the side door in places with sand and dust, close to water, or with wet hands. Sand or dust adhering may cause water leaks.

Using the camera underwater

- Use the camera underwater to 8 m (26 feet) with the water temperature between 0 °C and 40 °C (32 °F and 104 °F).
- Do not use for scuba diving (Aqualung).
- Do not use the camera at a depth of over 8 m (26 feet).
- Do not use it in the hot water over 40 °C (104 °F) (in the bath or hot spring).
- Do not use the camera underwater longer than 60 minutes continuously.
- Do not open or close the side door underwater.
- Do not apply shock to the camera underwater. (Waterproof performance may not be maintained, and there is a chance of water leak.)
- Do not dive into the water holding the camera. Do not use the camera in a location where the water will splash strongly, such as rapid flow or waterfall. (Strong water pressure may be applied, and it may cause malfunction.)
- The camera will sink in the water. Take care not to drop the camera and lose it underwater by securely placing the strap around your wrist or similar measure.

Caring of the camera after using it underwater

Do not open or close the side door until the sand and dust is removed by rinsing the camera with water.

Make sure to clean the camera after using it.

- Thoroughly wipe off any water droplets, sand, and saline matter on your hands, body, hair, etc.
- It is recommended to clean the camera indoors, avoiding places where water spray or sand may fall.

After using it underwater, always clean the camera rather than leaving it in a dirty state.

- Leaving the camera with foreign objects or saline matter on it may cause damage, discoloration, corrosion, unusual odour, or deterioration of the waterproof performance.

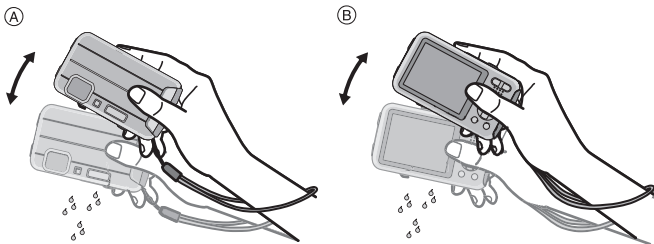
1 Rinse with water with the side door closed.

- After use at the seaside or underwater, soak the unit in fresh water pooled in a shallow container for 10 minutes or less.
- If the zoom button or camera [ON/OFF] button do not press smoothly, it may be caused by an adhesion of foreign objects. Using in such a state may cause malfunctions, such as locking up, so wash off any foreign objects by shaking the camera in fresh water.
- Bubbles may come out of the drainage hole when you immerse the camera in water, but this is not a malfunction.



2 Drain water by holding the camera upside-down (A) and the right way up (B) and shaking it lightly a few times.

- After using the camera at the beach or in water, or after washing it, water may remain around the speaker and microphone for a while and may cause a drop in volume or sound distortion.
- Make sure to put your hand through the strap to prevent the camera from falling.



3 Wipe off water drops on the camera with a soft, dry cloth and dry the camera in a shaded area that is well ventilated.

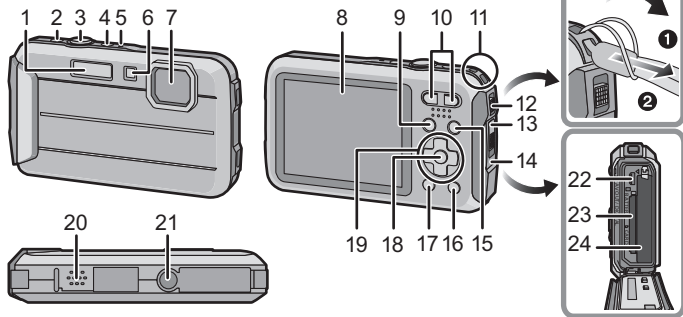
- Dry the camera by standing it on a dry cloth. This unit incorporates drain design, draining water in gaps in the camera [ON/OFF] button and zoom button etc.
- Do not dry the camera with hot air from dryer or similar. Waterproof performance will deteriorate due to deformation.
- Do not use chemicals such as benzine, thinner, alcohol or cleanser, soap or detergents.



4 Confirm that there are no water droplets, open the side door, and wipe off any water droplets or sand left inside using a soft, dry cloth.

- Water droplets may adhere to the card or battery when the side door is opened without thoroughly drying. Also, water may accumulate in the gap around the card/battery slot or the terminal connector. Be sure to wipe any water off with a soft, dry cloth.
- The water droplets may seep into the camera when the side door is closed while it is still wet, causing condensation or failure.

Names and Functions of Main Parts



- | | | | |
|----|---|---|-------------------------|
| 1 | Flash | 17 | [DISP.] button |
| 2 | Motion picture button | 18 | [MENU/SET] button |
| 3 | Shutter button | 19 | Cursor buttons |
| 4 | Camera [ON/OFF] button | 20 | Speaker |
| 5 | Microphone | <ul style="list-style-type: none"> • Be careful not to cover the speaker with your finger. Doing so may make sound difficult to hear. | |
| 6 | Self-timer indicator/
AF Assist Lamp/
LED light | 21 | Tripod mount |
| 7 | Lens | <ul style="list-style-type: none"> • A tripod with a screw length of 5.5 mm (0.22 inch) or more may damage this unit if attached. | |
| 8 | LCD monitor | 22 | [AV OUT/DIGITAL] socket |
| 9 | [MODE] button | 23 | Card slot |
| 10 | Zoom button | 24 | Battery slot |
| 11 | Strap eyelet | <ul style="list-style-type: none"> • When using an AC adaptor, ensure that the Panasonic DC coupler (DMW-DCC10: optional) and AC adaptor (DMW-AC5PP: optional) are used. • Always use a genuine Panasonic AC adaptor (DMW-AC5PP: optional). • When using an AC adaptor (optional), use the AC cable supplied with the AC adaptor (optional). | |
| 12 | Release lever | | |
| 13 | [LOCK] switch | | |
| 14 | Side door | | |
| 15 | [▶] (Playback) button | | |
| 16 | [Q.MENU] button/[⏏/↵] (Delete/
Cancel) button | | |

Charging the Battery

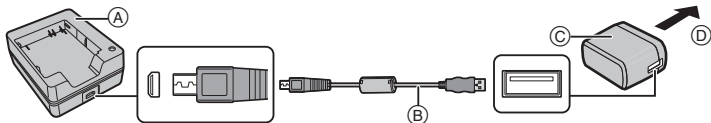
Use the dedicated charger, AC adaptor (supplied), USB connection cable (supplied) and battery.

- The battery is not charged when the camera is shipped. Charge the battery before use.
- Charge the battery with the charger indoors [10 °C to 30 °C (50 °F to 86 °F)].

1 Connect the charger and the AC adaptor (supplied) with the USB connection cable.

- Check the direction of the terminals and plug in/out straight holding onto the plug. (It may result in malfunction by the deforming of the terminal if it is plugged in obliquely or in wrong direction.)

2 Insert the AC adaptor (supplied) into the power outlet.



Ⓐ Charger

Ⓑ USB connection cable

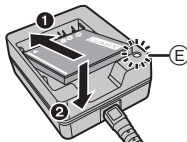
Ⓒ AC adaptor (supplied)

Ⓓ To power outlet

3 Insert the battery in the correct direction.

- The [CHARGE] indicator Ⓔ lights up and charging begins.

- Do not use any other USB connection cables except the supplied one.
- Do not use any other AC adaptors except the supplied one.
- Do not use the AC adaptor (supplied) and the USB connection cable for other devices. Doing so may cause malfunction.



■ About the [CHARGE] indicator

On: Charging.

Off: Charging has completed. (Charging time: Approx. 120 min)

■ About batteries that you can use with this unit

The battery that can be used with this unit is DMW-BCK7PP.

Inserting and Removing the Card (optional)/the Battery

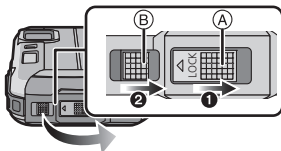
- Check that this unit is turned off.
- Confirm that there is no foreign object.
- We recommend using a Panasonic card.

1

①: Slide the [LOCK] switch (A), and release the lock.

②: Slide the release lever (B) and open the side door.

- Always use genuine Panasonic batteries (DMW-BCK7PP).
- If you use other batteries, we cannot guarantee the quality of this product.

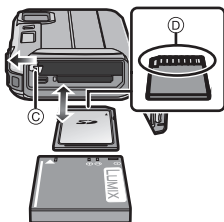


2

Battery: Being careful about the battery orientation, insert all the way until you hear a locking sound and then check that it is locked by lever (C). Pull the lever (C) in the direction of the arrow to remove the battery.

Card: Push it securely all the way until you hear a “click” while being careful about the direction in which you insert it. To remove the card, push the card until it clicks, then pull the card out upright.

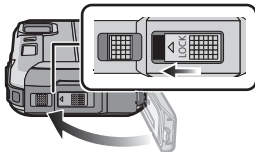
Ⓓ: Do not touch the connection terminals of the card.



3

Close the side door until it clicks, and then lock the [LOCK] switch by sliding it toward [◀].

- Confirm that the red part on the [LOCK] switch is not showing.



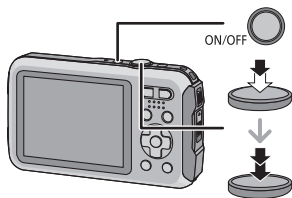
Note

- Keep the memory card out of reach of children to prevent swallowing.

Sequence of operations

1 Press camera [ON/OFF] button.

- The clock is not set when the camera is shipped. Set the date and time before using the camera.



2 Press the shutter button halfway to focus and then press it fully to take the picture.

■ Selecting the Recording Mode

Press [MODE] to select the Recording Mode.

- : Take pictures with automatic settings.
- : Take pictures with your own settings.
- : Record while checking the image effect.
- : This mode is optimal for taking pictures of sporting events, etc.
- : This mode is optimal for taking pictures that show the snow as white as possible at a ski resort or a snow-covered mountain.
- : This mode is optimal for taking pictures to 3 m (10 feet) underwater and at the beach.
- : This mode is optimal for taking pictures at depths of 3 m (10 feet) to 8 m (26 feet).
- : This mode allows you to take panorama pictures.
- SCN**: Take pictures according to scene.

■ Recording Motion Pictures

Start recording by pressing the motion picture button.

- Stop the recording by pressing the motion picture button again.
 - Maximum time to record motion pictures continuously is 29 minutes 59 seconds.
The maximum available recording time continuously is displayed on the screen.
-

■ Setting the Menu

Press [MENU/SET] to display the menu screen to change the recording function, camera settings, and other settings.

■ Playing Back Pictures

Press [▶].

- Press ◀ or ▶ to select the picture.
-

■ Deleting Pictures

Select the picture, and then press [🗑️/↵].

- Confirmation screen is displayed. Picture is deleted by selecting [Yes].
-

■ About the [LED Light] ([Setup])

If you set to [🔦], and press and hold down ▶ (⚡) on the recording standby screen, the LED light will come on for 60 seconds.



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.

■ For Windows

1 Turn the PC on and insert the CD-ROM containing the Owner's Manual (supplied).

- If the automatic playback screen is displayed, you can display the menu by selecting and executing [Launcher.exe].
- In Windows 8/Windows 8.1, you can display the menu by clicking a message that is displayed after inserting the CD-ROM and then selecting and executing [Launcher.exe].
- You can also display the menu by double-clicking [SFMXXXX] in [Computer] (XXXX differs depending on the model).

2 Click the [Owner's Manual].

- The list of Owner's Manual (PDF format) will be displayed.

3 Click the language of the Owner's Manual you want to open.

- The "Owner's Manual for advanced features (PDF format)" will open.
You can save the "Owner's Manual for advanced features" on the PC.

- You will need Adobe Reader to browse or print the "Owner's Manual for advanced features (PDF format)".

You can download and install a version of Adobe Reader that you can use with your OS from the following website. (As of January 2015)

<http://www.adobe.com/products/acrobat/readstep2.html>

Installing supplied software

- The supplied CD-ROM includes the following software.
 - PHOTOfunSTUDIO 9.0 SE (Windows Vista/Windows 7/Windows 8/Windows 8.1)
 - LoiLoScope 30 day full trial version (Windows Vista/Windows 7/Windows 8/Windows 8.1)
(This will only install a shortcut to the trial version download site.)
- Before inserting the CD-ROM, close all running applications.

1

Check the environment of your PC.

- For details about information such as the operating environment or operating method, refer to the “Owner’s Manual for advanced features” (PDF file) or the operating instructions for the respective software programs.

2

Insert the CD-ROM with the supplied software.

- If the automatic playback screen is displayed, you can display the menu by selecting and executing [Launcher.exe].
- In Windows 8/Windows 8.1, you can display the menu by clicking a message that is displayed after inserting the CD-ROM and then selecting and executing [Launcher.exe].
- You can also display the menu by double-clicking [SFMXXXX] in [Computer] (XXXX differs depending on the model).

3

Click on the [Applications] on the install menu.

4

Click on the [Recommended Installation].

- Proceed with installation according to messages appearing on the screen.



Note

- The software compatible with your PC will be installed.
- “PHOTOfunSTUDIO” and “LoiLoScope” are not compatible with Mac.

Specifications

Specifications are subject to change without notice.

Digital Camera:

Information for your safety

Power Source:	5.1 V \approx
Power Consumption:	1.0 W (When recording) 0.6 W (When playing back)

Camera effective pixels	16,100,000 pixels	
Image sensor	1/2.33" CCD, total pixel number 16,600,000 pixels, Primary color filter	
Lens	Optical 4 \times zoom, f=4.5 mm to 18 mm (35 mm film camera equivalent: 25 mm to 100 mm)/F3.9 (Wide) to F5.7 (Tele)	
Image stabilizer	Optical method	
Focus range	Normal	50 cm (1.6 feet) (Wide)/1 m (3.3 feet) (Tele) to ∞
	Macro/ Intelligent auto/ Motion picture	5 cm (0.16 feet) (Wide)/1 m (3.3 feet) (Tele) to ∞
	Scene Mode	There may be differences in the above settings.
Shutter system	Electronic shutter+Mechanical shutter	
Minimum Illumination	Approx. 14 lx (when i-low light is used, the shutter speed is 1/30th of a second)	
Shutter speed	8 seconds to 1/1300th of a second [Starry Sky] Mode: 15 seconds, 30 seconds, 60 seconds	
Exposure (AE)	Auto (Program AE)	
Metering mode	Multiple	
LCD monitor	2.7" TFT LCD (4:3) (Approx. 230,000 dots) (field of view ratio about 100%)	

Microphone	Monaural
Speaker	Monaural
Recording media	Built-in Memory (Approx. 220 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)/DPOF corresponding
Motion pictures	MP4
Audio compression format	AAC
Interface	
Digital	"USB 2.0" (High Speed)
Analog video	NTSC
Audio	Audio line output (monaural)
Terminal	
[AV OUT/DIGITAL]	Dedicated jack (8 pin)
Dimensions (excluding the projecting parts)	Approx. 103.7 mm (W)×58.3 mm (H)×19.7 mm (D) [4.08"(W)×2.3"(H)×0.77"(D)]
Mass (weight)	Approx. 144 g/0.317 lb (with card and battery) Approx. 125 g/0.275 lb (excluding card and battery)
Operating temperature	−10 °C* to 40 °C (14 °F* to 104 °F) * The performance of the battery (number of recordable pictures/operating time) may decrease temporarily when using in a temperature between −10 °C and 0 °C (14 °F and 32 °F) (cold places such as ski resorts or places at high altitude).
Operating humidity	10%RH to 80%RH
Waterproof performance	Equivalent to IEC 60529 "IPX8". [Usable for 60 minutes in 8 m (26 feet) water depth]

<p>Crash resistance performance</p>	<p>The test method of the camera is in compliance with “MIL-STD 810F Method 516.5-Shock”*.</p> <p>* “MIL-STD 810F Method 516.5-Shock” is the test method standard of the U.S. Defense Department, which specifies performing drop tests from a height of 122 cm (4 feet), at 26 orientations (8 corners, 12 ridges, 6 faces) using 5 sets of devices, and passing the 26 orientation drops within 5 devices.</p> <p>(If failure occurs during the test, a new set is used to pass the drop orientation test within a total of 5 devices)</p> <ul style="list-style-type: none"> • Panasonic's test method is based on the above “MIL-STD 810F Method 516.5-Shock”. However, the drop height was changed from 122 cm (4 feet) to 150 cm (5 feet) dropping onto 3 cm (0.1 feet) thick plywood. This drop test was passed. (Disregarding appearance change such as loss of paint or distortion of the part where drop impact is applied.) <p>There is no guarantee of not breaking or malfunctioning under all conditions.</p>
<p>Dustproof performance</p>	<p>Equivalent to IEC 60529 “IP6X”.</p>

Battery Charger (Panasonic DVLC1003Z):

Information for your safety

Input:	5.0 V=== 1.0 A
Output:	4.2 V=== 0.5 A
Operating temperature:	0 °C* to 40 °C (32 °F* to 104 °F) * The battery cannot be recharged in a temperature less than 0 °C (32 °F). (The [CHARGE] indicator blinks when the battery cannot be recharged.)

AC Adaptor (Panasonic SAE0012A):

Information for your safety




Input:	110 V–240 V ~ 50/60 Hz 0.2 A
Output:	5 V=== 1.0 A
Operating temperature:	0 °C* to 40 °C (32 °F* to 104 °F) * The battery cannot be recharged in a temperature less than 0 °C (32 °F).

Battery Pack (lithium-ion) (Panasonic DMW-BCK7PP):






Information for your safety

Voltage/capacity:	3.6 V/680 mAh
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The symbols on this product (including the accessories) represent the following:

	AC
	DC
	Class II equipment (The construction of the product is double-insulated.)

Digital Camera Accessory System

Accessory#	Illustration	Description
DMW-BCK7		Battery Pack
DMW-AC5		AC Adaptor *
DMW-DCC10		DC Coupler *
DMW-USBC1		USB Connection Cable
DMW-AVC1		AV Cable

Product numbers correct as of January 2015. These may be subject to change.

- * The AC Adaptor (optional) can only be used with the designated Panasonic DC Coupler (optional). The AC adaptor (optional) cannot be used by itself.
- NOTE: Accessories and/or model numbers may vary between countries. Consult your local dealer.

Limited Warranty

Panasonic Canada Inc.

5770 Ambler Drive, Mississauga, Ontario L4W 2T3

PANASONIC PRODUCT – LIMITED WARRANTY

EXCHANGE PROGRAM

Panasonic Canada Inc. warrants this product to be free from defects in material and workmanship under normal use and for a period as stated below from the date of original purchase agrees to, at its option either (a) repair your product with new or refurbished parts, (b) replace it with a new or a refurbished equivalent value product, or (c) refund your purchase price. The decision to repair, replace or refund will be made by Panasonic Canada Inc.

LUMIX DMC-TS30	One (1) year
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This warranty is given only to the original purchaser, or the person for whom it was purchased as a gift, of a Panasonic brand product mentioned above sold by an authorized Panasonic dealer in Canada and purchased and used in Canada, which product was not sold “as is”, and which product was delivered to you in new condition in the original packaging.

IN ORDER TO BE ELIGIBLE TO RECEIVE WARRANTY SERVICE HEREUNDER, A PURCHASE RECEIPT OR OTHER PROOF OF DATE OF ORIGINAL PURCHASE, SHOWING AMOUNT PAID AND PLACE OF PURCHASE IS REQUIRED

LIMITATIONS AND EXCLUSIONS

This warranty **ONLY COVERS** failures due to defects in materials or workmanship, and **DOES NOT COVER** normal wear and tear or cosmetic damage. The warranty **ALSO DOES NOT COVER** damages which occurred in shipment, or failures which are caused by products not supplied by Panasonic Canada Inc., or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, improper batteries, power line surge, lightning damage, modification, introduction of sand, humidity or liquids, commercial use such as hotel, office, restaurant, or other business or rental use of the product, or service by anyone other than a Authorized Servicer, or damage that is attributable to acts of God. Dry cell batteries are also excluded from coverage under this warranty.

Rechargeable batteries are warranted for ninety (90) days from date of original purchase.

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CONTACT INFORMATION

For product operation, repairs and information assistance, please visit our Support page:
www.panasonic.ca/english/support

For defective product exchange within the warranty period, please contact the original dealer.

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