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You can read the recommendations in the user guide, the technical guide or the installation guide for PANASONIC DMC-TZ27. You'll find the answers to all your questions on the PANASONIC DMC-TZ27 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual PANASONIC DMC-TZ27
User guide PANASONIC DMC-TZ27
Operating instructions PANASONIC DMC-TZ27
Instructions for use PANASONIC DMC-TZ27
Instruction manual PANASONIC DMC-TZ27

Panasonic

Operating Instructions
for advanced features
Digital Camera

Model No. DMC-TZ30
DMC-TZ31
DMC-TZ27

Before use, please read these instructions completely.

VQT4C04
M0212KZ0

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.hibited under copyright law. Recording of certain material may be restricted even for the purpose of personal use. No compensation for missed shots Carefully observe copyright laws Also refer to "Usage cautions and notes" (186) Please note that the actual controls and components, menu items, and other information for your digital camera may differ from those in the illustrations and screens provided in this manual. When operation or other information is more or less the same between models, DMC-TZ30/DMC receptacle (188) Card/Battery door (14, 19) Release lever (14, 19) The illustrations and screens in this manual may differ from the actual product.

- 10 - Names and Functions of Main Parts LCD monitor (55, 62, 172) REC/PLAY switch (25) Use this to select the recording mode or playback mode. We recommend using the supplied hand strap to avoid dropping the camera. [EXPOSURE] button (73) In the recording mode: Operate this when setting the shutter speed or aperture value. (Only in the mode) [DISP.] button (62) Use this to change display.

DMC-TZ30 DMC-TZ31 [MAP] button (146) In the playback mode: Map is displayed. Charging lamp (16) [HDMI] socket (156, 158) [Q.MENU] / [In the recording mode: Quick menu is displayed. (53) In the playback mode: Pictures are deleted. (49) During menu operations: The previous screen is restored. /] button [AV OUT/DIGITAL] socket (15, 156, 165, 168) Cursor button [MENU/SET] · Use this to display the menus, enter the settings, etc. (51) Up cursor

button ( ) · Exposure Compensation, Auto Bracket etc. (71, 72) Left cursor button ( ) · Self-timer (70) Right cursor button ( ) · Flash (66) Down cursor button ( ) · Macro Mode etc. (68) In this manual, the button that is used is indicated by . The illustrations and screens in this manual may differ from the actual product.

- 11 - Names and Functions of Main Parts Touch operations This camera's touch screen senses pressure that is applied to the screen. To "touch" is to press the touch screen and then pull the finger back again.

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Touch To "drag" is to touch and slide your finger across the touch screen surface. Drag Touching is used to select icons or pictures, among other actions. · Touch an icon near its centre. If multiple icons are touched simultaneously, the camera may not operate normally. Dragging (sliding your finger across the screen) is used to scroll the pictures or change the range of the pictures displayed. If the type of sheet made to protect LCD screens that are available in the market is to be used, observe the precautions that are contained with the sheet. (Some types of protective sheets may impair the screen's appearance and ease of operation.) If the camera is used with a protective sheet available on the market attached to its screen or if the screen is not very responsive, touch the screen with a little more pressure.

If your hand is pressed against the touch screen when holding the camera, the touch screen will not work properly. Do not press on the LCD monitor with hard pointed tips, such as ballpoint pens. Do not press the touch screen with your fingernails. Clean the LCD monitor with a soft, dry cloth if there are fingerprints or other kinds of dirt on it. For details of the icons that appear on the touch screen, refer to "List of LCD monitor displays" (172).

- 12 - Charging battery · Always use the dedicated AC adaptor (supplied), USB connection cable (supplied), and battery for this camera. Always charge before first use! (battery shipped uncharged) · Charge the battery while it is in the camera. Camera status Turn off (also in [Sleep Mode] (57)) Charge Yes Turn on No During playback only, the camera operates using power supplied from the electrical outlet via the USB connection cable (supplied). (The battery is not charged.) When the battery does not have sufficient remaining power, charging may be done If the battery is not inserted, neither charging nor power supplying is made.

About batteries that you can use with this unit 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. regardless of the camera ON/OFF switch setting. - 13 - Charging battery Inserting the battery To charge the battery, insert it into the camera. · Set the camera ON/OFF switch to OFF Slide to the release lever to the [OPEN] position and open the card/ battery door Release lever [OPEN] [LOCK] Insert the battery all the way · Make sure to insert the battery in the correct orientation. · Insert all the way firmly until a locking sound is heard, and check that the lever is hooked over the battery. Lever Close the card/battery door · Slide the release lever to the [LOCK] position.

To remove battery Move the lever in the card/battery compartment in the direction of the arrow. Always use genuine Panasonic batteries. If you use other batteries, we cannot guarantee the quality of this product. Remove battery from camera after use. · Keep the battery in a plastic bag, making sure that it is kept away from metallic objects (such as clips) when carrying or storing the battery. To remove the battery, turn the camera off and wait until the LUMIX indicator on the LCD monitor goes off. (Failure to wait may cause the camera to malfunction and may damage the card or recorded data.) - 14 - Charging battery Charging the battery We recommend charging in a location where the ambient temperature is between 10 °C and 30 °C (50 °F to 86 °F) (same for the battery temperature). Set the camera ON/OFF switch to OFF AC adaptor (supplied) Align the marks (to) and insert the plug. Charging lamp (16) USB connection cable (supplied) · Always check the direction of the pins and hold the plug straight to insert or remove it.

(If the cable is inserted in the wrong direction, the pins could become deformed and cause faulty operation.) Computer Getting ready: Turn on the computer. Charging the battery by connecting the camera to the electrical outlet Connect the AC adaptor (supplied) and the camera using the USB connection cable (supplied), and plug the AC adaptor (supplied) into the electrical outlet. · Be sure to only use the AC adaptor (supplied) indoors. Connect a computer to the camera using the USB connection cable (supplied).

computer specifications. Charging the battery through the computer It may not be possible to charge the battery from some computers depending on the If the computer enters hibernation mode during charging, charging may be stopped. If a notebook computer that is not connected to an electrical outlet is connected to the camera, the battery of the notebook computer will be depleted. Do not leave the camera and notebook connected for a long period of time. Always connect the USB connection cable to the USB connector on your computer.

Do not connect the USB connection cable to the USB connector of the monitor, keyboard, printer, or USB hub. - 15 - Charging battery Charging lamp indications On: Charging in progress Off: Charging stops (After charging stops, disconnect the camera from the electrical outlet or your computer.) Notes on charging time Charging time When using the AC adaptor (supplied) Approx. 260 min Do not use any other USB connection cables except the supplied one. Doing so may Do not use a USB extension cable. The AC adaptor (supplied) and the USB connection cable (supplied) are dedicated If there is any trouble related to the electrical outlet (i.e. power failure), charging may accessories of this camera. Do not use it for other devices. cause malfunction of the camera.

· The charging time indicated above is the time required for charging in case when the battery is completely used up. The time required for charging differs depending on conditions of battery usage. Charging takes longer in cases when temperatures are either high or low and when the battery has not been used for a long period of time. · The time required for charging through the computer varies depending on the specifications of the computer. not complete properly. Disconnect the USB connection cable (supplied) and reconnect it to the camera. If the charging lamp does not light or flash even when the camera is properly connected to the AC adaptor (supplied) or your computer, charging has been put in pause status because the temperature is not in the appropriate range for charging. This is not a malfunction.

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Reconnect the USB connection cable (supplied) and retry charging in a place where ambient temperature is 10 °C to 30 °C (50 °F to 86 °F) (temperature conditions also apply to the battery itself). Remaining battery Remaining battery (flashes red) If the battery mark flashes red, recharge or replace battery. - 16 - Charging battery Guidelines for number of recordable pictures and operating time 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. Recording still pictures Number of recordable pictures Recording time Approx. 260 pictures Approx. 130 min By CIPA standard Recording conditions by CIPA standard · CIPA is an abbreviation of [Camera & Imaging Products Association].

· [Program AE] Mode · [GPS Setting] is set to [OFF] DMC-TZ30 DMC-TZ31 · 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 Stabiliser 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. Number reduced if intervals are longer (e.g. to approx. one quarter for 2-minute intervals under the above conditions). - 17 - Charging battery Recording motion pictures [Rec Mode] [Rec Quality] Available recording time2 Actual available recording time3 [GPH]1 [PSH] Approx. 55 min Approx.

30 min [AVCHD] [GFS]1 [FSH] Approx. 65 min Approx. 35 min [MP4] [FHD] Approx. 70 min Approx. 40 min Recording conditions 1 DMC-TZ30 DMC-TZ31 · Temperature 23 °C (73.4 °F), humidity 50%RH · [GPS Setting] is set to [OFF] DMC-TZ30 DMC-TZ31 2 Motion pictures can be recorded continuously for up to 29 minutes 59 seconds. Also, motion picture recorded continuously in [MP4] is up to 4 GB. (In this case, you can continuously record a motion picture in [FHD] for up to approx. 27 minutes 12 seconds.) Remaining time for continuous recording is displayed on the screen.

3 The time you can actually record when repeatedly turning the power on and off, starting and stopping recording and using zoom. Viewing pictures Playback time Approx. 160 min - 18 - Inserting and removing the card (optional) · Set the camera ON/OFF switch to OFF Slide to the release lever to the [OPEN] position and open the card/ battery door Release lever [OPEN] [LOCK] Insert the card all the way · Push in until it clicks. Close the card/battery door · Slide the release lever to the [LOCK] position. Card (Check orientation) Do not touch the terminals on the back of the card.

To remove card Press the centre of the card Keep the Memory Card out of reach of children to prevent swallowing. To remove the card, turn the camera off and wait until the LUMIX indicator on the LCD monitor goes off. (Failure to wait may cause the camera to malfunction and may damage the card or recorded data.) - 19 - Picture save destination (cards and built-in memory) Pictures will be saved to a card if one is inserted, or to the built-in memory if not. Built-in memory (approx.

12 MB) (approx. 70 MB) You can store only still pictures. DMC-TZ30 DMC-TZ31 Pictures may be copied between cards and the built-in memory. (127) The access time for the built-in memory may be longer than the access time for a card. DMC-TZ30 DMC-TZ31 DMC-TZ27 Compatible memory cards (optional) Type of Card SD Memory Cards SDHC Memory Cards SDXC Memory Cards Capacity 8 MB 2 GB 4 GB 32 GB 48 GB, 64 GB The following SD standard-based cards (Panasonic brand recommended) Notes · Using a card of SD speed "Class 4" or above is recommended for recording motion pictures. · 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.

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) Please reformat the card with this camera if it has already been If the write-protect switch is set to "LOCK", the card cannot be used It is recommended that you copy important pictures to your to record or delete pictures, and it cannot be formatted. computer (as electromagnetic waves, static electricity, or faults may cause data to be damaged). Latest information: http://panasonic.jp/support/global/cs/dsc/ (This Site is English only.) Switch formatted with a computer or another device. (60) - 20 - Picture save destination (cards and built-in memory) Displaying the picture recording capacity Estimated remaining pictures or recording time capacity (press [DISP.] button to switch display) Displayed when no card is inserted (pictures will be saved to built-in memory) While the camera is accessing the card or built-in memory (for an operation such as picture writing, reading, deletion, or formatting), do not turn off the camera or remove the battery, card, or AC adaptor (supplied). Do not subject the camera to vibrations, impact, or static electricity.

The card or the data on the card may be damaged, and this unit may no longer operate normally. If operation fails due to vibration, impact or static electricity, perform the operation again. - 21 - Picture save destination (cards and built-in memory) Recording capacity guidelines (pictures/recording time) The number of pictures you can take and the recording time vary in proportion to card capacity (and depending on recording conditions and type of card). Recording picture capacity (still pictures) Built-in memory [Picture Size] 14M 5M 0.3M DMC-TZ30 DMC-TZ31 1 3 67 DMC-TZ27 12 25 398 2 GB 330 650 10050 32 GB 5490 10620 162960 64 GB 10980 21490 247150 · When the number of recordable pictures exceeds 99,999, "+99999" is displayed.

Recording time capacity (motion pictures) When the [AVCHD] recording mode is used [Rec Quality] [GPH] [PSH] [FSH] [SH] [GFS] [GS] Built-in memory 2 GB ([h], [m] and [s] indicate "hour", "minute" and "second".) 32 GB 2h31m00s 64 GB 5h07m00s 8m00s 14m00s 4h10m00s 8h26m00s DMC-TZ30 DMC-TZ31 When the [MP4] recording mode is used [Rec Quality] [FHD] [HD] [VGA] Built-in memory DMC-TZ30 DMC-TZ31 2 GB 12m07s 23m08s 50m56s 32 GB 3h23m02s 6h27m38s 14h13m08s 64 GB 6h51m01s 13h04m41s 28h46m57s 1m47s DMC-TZ27 · Motion pictures can be recorded continuously for up to 29 minutes 59 seconds.

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Also, motion picture recorded continuously in [MP4] is up to 4 GB. (In this case, you can continuously record a motion picture in [FHD] for up to approx. 27 minutes 12 seconds.

) Remaining time for continuous recording is displayed on the screen. If you make Web upload settings, the recording picture capacity and the recording time When map data is copied to a memory card, the number of recordable pictures and recording time will decrease. DMC-TZ30 DMC-TZ31 (150) capacity of the card may be reduced. (117) - 22 - Setting the clock The clock is not set when the camera is shipped. Set REC/PLAY switch to before turning on the power. Turn on the power The power is turned on. If the language select screen is not displayed, proceed to step . Press [MENU/SET] while the message is displayed Press to select the language, and press [MENU/SET] The [Please set the clock] message appears. Press [MENU/SET] REC/PLAY switch Press to select the items (year, month, day, hour, minute, display order or time display format), and press to set · To cancel Press [/] button. Press [MENU/SET] to set Press [MENU/SET] · To return to the previous screen, press [/] button.

Go to step DMC-TZ27 DMC-TZ30 DMC-TZ31 . The clock setting procedure is completed with step . (Continued on the next page) - 23 - Setting the clock Press to select [Yes] and press [MENU/SET] if automatically correcting time of day using the GPS function · To manually set date and time select [No]. · When you select automatic time adjustment using the GPS function, [GPS Setting] is set to [ON]. When [Please set the home area] is displayed, press [MENU/SET] Press City or area name to set your home area and press [MENU/SET] Current time Difference from GMT (Greenwich Mean Time) To change time setting When resetting date and time, select [Clock Set] from the [Setup] menu or [Rec] menu. · Clock settings will be saved for approx. 3 months even after battery is removed, provided a fully-charged battery was installed in the camera for 24 hours beforehand. Select [Clock Set] from the [Setup] menu or [Rec] menu · For details about the setting procedure in the [Setup] menu (51) Set the date and time (Perform steps - . (23)) If the clock is not set, the correct date cannot be printed when you order a photo studio to print the picture, or when you stamp the date on the pictures with [Date Stamp] or [Text Stamp]. If the clock is set, the correct date can be printed even if the date is not displayed on the screen of the camera.

- 24 - Sequence of operations Turn on the power 1 Set to 2 Set to the desired recording mode Align the mode dial correctly to the mode that you want to use. [Intelligent Auto] Mode [Program AE] Mode Take pictures with automatic settings. (31) Record pictures with your own settings. (27) Determine aperture, then record pictures. (73) Determine shutter speed, then record pictures.

(73) Determine aperture and shutter speed, then record pictures. (74) Record pictures using pre-registered settings. (85) Record 3D still pictures. (84) Take pictures according to scene. (77) Take pictures while confirming the picture effect.

(75) 3 [Aperture-Priority] Mode [Shutter-Priority] Mode [Manual Exposure] Mode [Custom] Mode [3D Photo Mode] [Scene Mode] [Creative Control] Mode - 25 - Sequence of operations Aim the camera and shoot Taking still pictures Press the shutter button halfway to focus Press and hold the shutter button to take the picture Press the motion picture button to start recording Press the motion picture button again to finish recording Motion picture button Recording motion pictures Microphone Shutter button 4 Holding the camera · To avoid camera shake, hold it with both hands keeping your arms close to your body while standing with your feet slightly apart. Flash Hand · Do not touch the lens. strap · Do not block the microphone when recording motion pictures. · Do not block the flash or the lamp. Do not look at it from close range. · Make sure that the camera does not move at the moment the shutter button is pressed. We recommend using the supplied hand strap to avoid dropping the camera. AF Assist Lamp Set to 5 View pictures (42, 45) 6 · Press to select a picture · Press to play back motion pictures or panorama pictures Turn off the power 7 - 26 - Taking pictures with your own settings [Program AE] Mode Recording mode: Using the [Rec] menu to change settings and set up your own recording environment. · Slide the REC/PLAY switch to . Set to ([Program AE] Mode) Take a picture Press halfway (press lightly to focus) Press fully (press the button all the way to record) If a warning is displayed about jitter, use [Stabilizer], a If aperture and shutter speed are shown in red, you do not have appropriate exposure.

You should either use the flash, change [Sensitivity] settings or set [Min. Shtr Speed] to a slower speed. tripod, or [Selftimer]. Jitter alert display Aperture value Shutter speed - 27 - How to adjust focus When [AF Mode] is set to (1-area-focusing), focus on the AF area in the centre of the picture. If a subject you want to record is not in the centre, follow the steps below. First adjust focus according to subject Align the AF area with the subject Focus display (When focus is aligned: illuminated When focus is not aligned: flashing) AF area (When focus is aligned: green When focus is not aligned: red) Hold down halfway Return to desired composition Subjects/environments which may Press fully AF area make focusing difficult: · Fast-moving or extremely bright objects, or objects with no colour contrast. · Taking pictures through glass or near objects emitting light. In dark, or with significant jitter. · When too close to object or when taking pictures of both distant and close objects together in the same picture. The focus display flashes and beep sounds when focus is not Focus display aligned.

Use the focus range displayed in red as a reference. Even if the focus display is lit, the camera may be unable to bring the subject into focus if it is out of range. The AF area display may be larger depending on recording conditions such as dark locations or zoom ratio. Focus range - 28 - Touching the screen and recording (Touch Shutter function) This function enables you to focus and record still pictures simply by touching the subjects that appear on the screen. Touch on the screen · The icon changes to , and you can now proceed with touch shutter recording.

Touch the subject you want to record · The subject is recorded by setting the focus on the place that you touched. · To release the touch shutter function Touch . Motion pictures cannot be recorded. The touch shutter function will not work along the edges of the screen.

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Please note that the touch shutter will function even if you inadvertently touch the touch The setting of the touch shutter function will be stored even if the power switch is turned to off.

screen. - 29 - Touching the screen and adjusting the focus and exposure (Touch AF/AE function) This function enables the focus and exposure to be set when you touch the subject displayed on the screen. Touch the place where you want to set the focus and exposure · When [AF Mode] is set to (Face Detection), the Face Detection function continues to operate, but the focus is adjusted to the place where you touched. · When [AF Mode] is set to (AF Tracking), the camera locks onto the subject, and it automatically continues to focus on the subject and adjusts the exposure of the subject as the subject moves. Press the shutter button halfway to bring the subject into focus, and then press the button fully to record the subject · To release the touch AF/AE function Touch . The touch AF/AE function may fail to work under some recording conditions such as The touch AF/AE function will not work along the edges of the screen. During [Intelligent Auto] Mode, the camera will determine the touched subject to be the optimal scene. when the subject is too small or the recording location is too dark. - 30 - 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. .

· Slide the REC/PLAY switch to Set to ([Intelligent Auto] Mode) Take a picture Press halfway (press lightly to focus) Press fully (press the button all the way to record) Focus display (When focus is aligned: illuminated When focus is not aligned: flashing) About flash to select or . is selected, the optimum flash is selected automatically depending on conditions (, , ,). When or is selected, the red-eye reduction function is activated. When or is selected, the shutter speed is reduced. When Press - 31 - Taking pictures with automatic settings [Intelligent Auto] Mode Automatic Scene Detection Camera reads scene when pointed at subject, and makes optimum settings automatically. Recognises people Recognises babies1 Recognises landscapes Recognises night scenes and people in them (Only when is selected)2 Recognises night scenes2 Recognises night scenes without a tripod.3 Recognises close-ups Recognises sunsets Reads subject movement to avoid blurring when scene does not correspond to any of the above. The icon of scene detected 1 When babies (under 3 years) that are registered with the Face Recognition function are recognised 2 We recommend using a tripod and the self-timer. 3 When [iHandheld Nite Shot] is [ON] Depending on recording conditions, different scene types may be determined for the same subject. If desired scene type is not selected, we recommend manually selecting the appropriate scene mode.

When , or is detected, Face Detection is activated, and the focus and exposure are adjusted for the recognised faces. About Backlight Compensation Backlight is a condition where a light shines from behind a subject. When there is a backlight, a subject appears darker and the camera automatically corrects the exposure by increasing the brightness of an entire image. Backlight compensation is automatically activated in [Intelligent Auto] mode. When the camera detects backlight, is displayed on the LCD monitor.

The displayed icon ( ) may not correspond to the actual backlight condition in some cases. About the Happy colour setting When [Color Mode] is set to [Happy], pictures are recorded with vivid colouring. Settings Press [MENU/SET] Use cursor button to select [Rec] menu and press [MENU/SET] Use cursor button to select [Color Mode] and press [MENU/SET] Use cursor button to select [Happy] and press [MENU/SET] - 32 - Taking pictures with automatic settings [Intelligent Auto] Mode [Motion Deblur] The camera automatically sets the optimum shutter speed in accordance with the movements of the subject to minimise the blur of the subject. Settings Press [MENU/SET] Use cursor button to select [Rec] menu and press [MENU/SET] Use cursor button to select [Motion Deblur] and press [MENU/SET] Use cursor button to select [ON] and press [MENU/SET] When [Motion Deblur] is set to [ON], appears on the screen. The subject may be recorded in a picture size smaller than the number of pixels that has been set.

[iHandheld Nite Shot] If a night scene is detected automatically while the camera is handheld, the camera can record the still picture with less jitter and less noise by combining a burst of pictures. Settings Press [MENU/SET] Use cursor button to select [Rec] menu and press [MENU/SET] Use cursor button to select [iHandheld Nite Shot] and press [MENU/SET] Use cursor button to select [ON] and press [MENU/SET] When the camera is fixed in place on a tripod or by other means, [iHandheld Nite Shot] will not be identified. - 33 - Taking pictures with automatic settings [Intelligent Auto] Mode [iHDR] (intelligent High Dynamic Range) When [iHDR] is set to [ON], the camera can combine several still pictures taken with different exposures into a single properly exposed picture with rich gradation. Settings Press [MENU/SET] Use cursor button to select [Rec] menu and press [MENU/SET] Use cursor button to select [iHDR] and press [MENU/SET] Use cursor button to select [ON] and press [MENU/SET] This function is automatically activated only when is displayed on the LCD monitor. This icon is displayed when the camera detects a backlight. The camera does not combine pictures in the following cases: · When the zoom ratio exceeds 20 times · [Burst] mode Even when [iHDR] is set to [OFF], if the camera detects backlight, backlight compensation is activated automatically and the camera corrects the exposure by increasing the brightness of the entire image. A subject that was in motion when it was recorded may be recorded as an afterimage. - 34 - Taking pictures with automatic settings [Intelligent Auto] Mode AF Tracking This function enables the camera to continue to focus on the subject and adjust the exposure of the subject even when the subject is moving. With touch screen operations Touch the subject Perform these operations with the touch shutter function (29) released. · When switching to lock on to another subject Touch the other subject.

· To release AF tracking Touch . AF Tracking frame AF Lock successful: Yellow AF Lock failed: Red With cursor button operations Press to set [AF Mode] to AF Tracking again. · To cancel AF Tracking Press Align the AF Tracking frame with the subject, and then press to lock · To cancel AF Lock Press .

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AF Tracking frame AF Lock successful: Yellow AF Lock failed: Red The optimal scene for the AF locked subject is automatically identified. Face Recognition will be inactive while using AF Tracking. Under certain recording conditions, such as when the subject is small or when it is dark, [AF Tracking] may not operate correctly. - 35 - Taking pictures with automatic settings [Intelligent Auto] Mode [Intelligent Auto] Mode restrictions Only the menu items which are displayed in the [Intelligent Auto] Mode can be set. The settings selected in the [Program AE] or other modes will reflect on the menu items in the [Setup] menu that are not displayed. The settings for the following items are different from other recording modes: [Picture Size], [Burst] and [Color Mode] on the [Rec] menu, and [Beep] on the [Setup] menu The settings for the following functions are fixed: [Setup] menu · [Auto Review]: [2SEC] · [Guide Line]: · [Sleep Mode]: [5MIN.] [Rec] menu · [Quality]: [Fine] · [Sensitivity]: · [Stabilizer]: [ON] · [AF Mode]: [Face Detection] · [AF Assist Lamp]: [ON] · [Quick AF]: [ON] · [Metering Mode]: [Multi Metering] · [i.

Exposure]: [STANDARD] · [i.Resolution]: [i.ZOOM] · [Red-Eye Removal]: [ON] · [White Balance]: [AWB] (23-area-focusing) when face cannot be recognised [Motion Picture] menu · [Continuous AF]: [ON] · [Wind Cut]: [AUTO] The following functions cannot be used: [Histogram], [Exposure], [Auto Bracket], [WB Adjust.], [Min. Shtr Speed], [Digital Zoom] - 36 - Taking motion pictures Recording mode: You can record motion pictures with audio (stereo).

· Slide the REC/PLAY switch to . · Motion pictures cannot be recorded in the built-in memory. DMC-TZ30 DMC-TZ31 Do not block the microphone when recording motion pictures. Press the motion picture button to start recording [Rec Mode] (106)/[Rec Quality] (107) Elapsed recording time Remaining recording time (approx.) Immediately release the motion picture You can also use zoom while recording button after pressing it.

motion pictures. · The zoom speed will be slower than normal. · When using zoom while recording motion pictures, it may take some time to focus. Still pictures can be taken during motion picture recording. (41) Press the motion picture button again to end recording - 37 - Taking motion pictures About the recording format for recording motion pictures This unit can record motion pictures in either AVCHD or MP4 formats. AVCHD: You can record high definition quality images with this format. It is suitable for viewing on a large format TV or for saving to disc. AVCHD Progressive: The [GPH] DMC-TZ30 DMC-TZ31 or [PSH] in [AVCHD] is a mode that allows motion pictures to be recorded at 1920 x 1080/50p, the highest quality that complies with the AVCHD standard. Recorded motion pictures can be saved and played back using this unit or "PHOTOfunSTUDIO". This means the highest quality for this unit.

MP4: This is a simpler video format best used when extensive editing is needed, or when uploading videos to the Internet. · You can record a motion picture to the built-in memory only in [MP4] using the [VGA] setting. DMC-TZ27 About the compatibility of the recorded motion pictures Motion pictures recorded in [AVCHD] or [MP4] may be played back with poor picture or sound quality or playback may not be possible even when played back with equipment compatible with these formats. Also, the recording information may not be displayed properly. In this case, use this unit. · Motion pictures recorded with [GPH] DMC-TZ30 DMC-TZ31 or [PSH] in [AVCHD] can be played back on equipment that is compatible with AVCHD Progressive. · For details on AVCHD Progressive and MP4 compatible devices, refer to the support site below. http://panasonic.jp/support/global/cs/dsc/ (This Site is English only.) - 38 - Taking motion pictures Recording motion pictures in Recording motion pictures in When scene does not correspond to any on the right.

Records a motion picture at your preferred settings. · Aperture and shutter speed are automatically set. The camera automatically detects the scene to record motion pictures with optimal settings. · In mode, focus and exposure will be set according to the face detected. · will be selected for nightscapes and other dark scenes.

· If the camera does not select your desired Scene Mode, choosing an appropriate mode manually is recommended. · The following menu options in the [Motion Picture] menu can be set: · [Rec Mode] · [Rec Quality] Motion picture recording in other recording modes For details, refer to the pages relating to the respective recording modes. (However, a motion picture cannot be recorded in [Panorama Shot] Scene Mode.) - 39 - Taking motion pictures If the surrounding temperature is high, or a motion picture is recorded continuously, is displayed and recording may be stopped halfway through to protect the camera. (Only when [Rec Quality] is set to [GPH] DMC-TZ30 DMC-TZ31 , [PSH], [GFS] DMC-TZ30 DMC-TZ31 or [FSH]) Use a sufficiently charged battery.

The available recording time displayed on the screen may not decrease regularly. If data is repeatedly recorded and deleted, the total available recording time on the SD card may be reduced. To restore the original capacity, use the camera to format the SD card. Be sure to save all important data to your computer or other media before formatting, as all data saved to the card will be erased. The Optical Image Stabiliser functions regardless of the settings before a motion picture is recorded. The following functions are not available: Extra optical zoom, flash, [Face Recog.], [Rotate Disp.] for pictures taken vertically. For certain memory cards, recording may end while in progress. The recording range may become narrower in motion pictures compared to still pictures.

Also, if the Aspect Ratio is different for still pictures and motion pictures, the angle of view will change when starting to record a motion picture. The recordable area is displayed by setting [Video Rec Area] (56) to [ON]. If Extra optical zoom is used before pressing the motion picture button, these settings will be cleared, and the recordable area will be changed significantly. Depending on the environment when recording motion pictures, the screen may turn black for an instant or noise may be recorded because of static electricity, electromagnetic waves, etc. - 40 - Taking motion pictures Recording still pictures while a motion picture is being recorded Still pictures can be recorded even while a motion picture is being recorded. Press the shutter button fully during the motion picture recording Still pictures are recorded with [Aspect Ratio] setting of 16:9 and [Picture Size] setting of 3.5M. (Max.15 pictures) Motion picture recording continues unchanged.

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· The clicking sound made when the shutter button is operated may be recorded.

If the noise of the camera operation is disturbing, use the touch shutter. · When still pictures are recorded during zooming, the zooming may stop. Burst function When the burst function has been set in advance, a burst of still pictures can be recorded during motion picture recording. · When the burst setting is set to , or , still pictures are automatically recorded using the setting. · Even at the or setting, the focus is fixed at the first picture.

If the touch shutter function has been set, still pictures will be recorded if the touch The camera will refocus if the shutter button is pressed halfway during motion picture screen has been touched inadvertently during motion picture recording. recording or if still pictures are recorded using the touch shutter function. This refocus movement is recorded even during motion picture recording. When priority is to be given to the motion picture videos, press the shutter button fully, and record the still pictures. Still pictures can also be created after motion picture recording.

(47) When the shutter button is pressed halfway, the picture size and the number of recordable pictures are displayed. Still pictures cannot be recorded in the following cases: · When [Rec Quality] is set to [VGA] · When recording [High Speed Video] · [Creative Control] Mode ([Soft Focus]) The flash is set to [Forced Flash Off]. Since the electronic shutter is used for recording, the pictures recorded may be distorted. - 41 - Viewing your pictures [Normal Play] When a card is in the camera, pictures are played back from the card, and without a card, pictures are played back from the built-in memory. · Slide the REC/PLAY switch to . Drag your finger across the screen, and select the picture to be played back Scrolling to the next picture: Drag your finger across the screen from right to left. Returning to the previous picture: Drag your finger across the screen from left to right. · If you keep your finger touching the left or right edge of the screen after scrolling the pictures, the pictures will continue to be scrolled. (The pictures are displayed in a reduced size.) · The pictures can also be scrolled by pressing the cursor button.

When the buttons are held down, the pictures can be scrolled quickly forward or backward. View pictures Picture number/Total pictures Location name information and latitude & longitude information are provided DMC-TZ30 DMC-TZ31 (131) Folder/File number It may not be possible to view pictures on this camera that were previously edited on a If the REC/PLAY switch is moved from computer. to while the power is on, the lens barrel will be retracted after approx. 15 seconds. This camera is compliant with the unified DCF (Design rule for Camera File system) standard formulated by the Japan Electronics and Information Technology Industries Association (JEITA), and with Exif (Exchangeable image file format). Files that are not DCF-compliant cannot be played back. - 42 - Viewing your pictures [Normal Play] Zooming in and viewing "Playback Zoom" Touch the area that you want to magnify Each time you touch, the magnification increases through four levels after 1x, 2x, 4x, 8x, and 16x. (The picture quality displayed becomes successively lower.) · The area can also be magnified by moving the zoom lever toward T. Drag your finger over the screen to move the position of the area magnified Current zoom position Reducing the display magnification rate Return to the original size (1x) · The magnification rate can also be reduced by moving the zoom lever toward W. · The position of the area magnified can also be moved by operating the cursor button. Playback zoom cannot be used during motion picture playback. Viewing a list of pictures "Multi Playback" Move the zoom lever toward W side Picture no./Total no. Slide bar (drag this to change display) Motion pictures Panorama pictures · Move the zoom lever further toward the W side and you can switch the display methods in the following order: 12-picture screen 30-picture screen Calendar playback.

(Turn the lever to the T side to return.) · When a picture is touched on the 12-picture or 30-picture screen, the picture touched is displayed on the 1-picture screen (full-screen). Pictures displayed with [!] cannot be played back. - 43 - Viewing your pictures [Normal Play] Viewing pictures by their recording date "Calendar Playback" Move the zoom lever toward W side several times Touch the recording date to be displayed, and touch [Set] to enter the date Select the month The pictures recorded on the selected date appear on the 12-picture screen. · The recording date can also be selected by using the cursor button, and press [MENU/SET].

Only months when pictures were taken are shown on the calendar screen. Pictures Pictures taken with destination settings made in [World Time] are displayed in the calendar screen using the appropriate date for the destination's time zone. taken without clock settings are displayed with the date 1st January, 2012. - 44 - Viewing motion pictures This unit was designed to play motion pictures using the AVCHD, MP4 and QuickTime Motion JPEG formats. · Slide the REC/PLAY switch to . Select a picture with the motion picture icon, and touch Playback now starts. · You can also press to play back motion pictures. Motion picture recording time When playback starts, the elapsed playback time is displayed in the top right of the screen. Example: After 10 minutes and 30 seconds: [10m30s] Motion picture icon (differs depending on the recording mode and picture quality setting) Operations during motion picture playback Touch the screen to display the control panel. Touch the control panel to perform playback operations.

· If there is no operation for about 2 seconds, the control panel disappears. Control Panel : Pause/Play : Stop : Capturing still pictures from motion pictures (47) : Fast rewind (2 steps) : Single-frame rewind (while paused) : Fast forward (2 steps) : Single-frame forward (while paused) Volume level Volume adjustment Playback bar (The playback position can be moved by touch operation.) - 45 - Viewing motion pictures You can also use the cursor button to perform playback operations. : Pause/play : Stop : Fast rewind (2 steps)/Single-frame rewind (while paused) : Fast forward (2 steps)/Single-frame forward (while paused) [MENU/SET]: Capturing still pictures from motion pictures (47) · Volume can be adjusted with the zoom lever. It may not be possible to properly play back the motion pictures recorded using other Some information will not be displayed for motion pictures recorded in [AVCHD]. Motion pictures can be viewed on your computer using "PHOTOfunSTUDIO" on the Motion pictures recorded with [Miniature Effect] in [Creative Control] Mode play back at approximately 8 times speed.

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supplied disc. cameras. - 46 - Viewing motion pictures Capturing still pictures from motion pictures Save a scene from a motion picture as a still picture. Display the picture that you want to capture as a still picture by pausing a motion picture during playback Touch · A confirmation screen is displayed. Select [Yes] with cursor button and then press [MENU/SET]. · You can also capture still pictures from motion pictures by pressing [MENU/SET]. [Rec Quality] of the original motion picture [GPH] [GFS] [GS] [PSH] [FSH] [SH] [FHD] [HD] [VGA] [High Speed Video] [Picture Size] 2M 0.3M [Aspect Ratio] 16:9 4:3 DMC-TZ30 DMC-TZ31 The picture quality becomes slightly lower depending on the [Rec Quality] setting of the It may not be possible to capture still pictures from motion pictures that were recorded with a different camera. original motion picture.

- 47 - Viewing motion pictures [Video Divide] A single motion picture can be split into 2 parts. This is convenient when you want to keep just the necessary scenes, or if you wish to delete unnecessary scenes to increase free space on your card, such as when travelling. Select a motion picture to be split and then touch · You can also press a motion picture. to move to the function for splitting Play back the motion picture and pause at the place to split Touch · A confirmation screen is displayed. Select [Yes] with cursor button and then press [MENU/SET].

· The original motion picture that was split does not remain. (There will only be the 2 motion pictures that were created after the split.) · You can also press to split a motion picture. During splitting, do not turn off the camera's power or remove the card or battery. If you Splitting a motion picture recorded in [MP4] or [High Speed Video] changes the order of the pictures. It is recommended to display with [Calendar] (Calendar Playback) or [Filtering Play]. It may not be possible to split motion pictures that were recorded with a different camera. Motion pictures with a short recording time cannot be divided. do so, the motion picture may be deleted. - 48 - Deleting pictures Pictures will be deleted from the card if the card is inserted, or from the built-in memory if the card is not inserted.

(Deleted pictures cannot be recovered.) Press to delete displayed picture · A confirmation screen is displayed. Select [Yes] with cursor button and then press [MENU/SET]. Do not turn off the power during deletion. Use a sufficiently charged battery. Pictures cannot be deleted in the following cases: · Protected pictures · Card switch is in "LOCK" position. · Pictures not of DCF standard (42) - 49 - Deleting pictures To delete multiple (up to 100)/To delete all pictures A burst group is handled as one picture. (All the pictures in the selected burst group are deleted.) Press to delete displayed picture Use to select [Delete Multi]/ [Delete All] and press [MENU/SET] [Delete Multi] Use cursor button to select picture and press [DISP.] button Picture selected · To cancel Press [DISP.

] button again. · To execute Press [MENU/SET]. · You can select [All Delete Except Favorite] in [Delete All] if there are pictures that have been set as [Favorite] (123). · A confirmation screen is displayed. Select [Yes] with cursor button and then press [MENU/SET].

· May take time depending on number of pictures deleted. - 50 - Setting the menu Refer to the procedure below for an example on how to operate the menus. Press [MENU/SET] The menu selection screen is displayed. Use cursor button to select a menu, and then press [MENU/SET] · The menu type can also be selected by touch operations. Use to select the menu item, and then press [MENU/SET] Menu items Pages (The pages can also be selected with the zoom lever.

) Current setting Menu description Operation guide Menu selection screen In recording mode · To return to the previous screen, press [/] button. In playback mode Press to select a setting, and then press [MENU/SET] The selected setting is set. Settings Selected setting Setting description Press [/] button several times The menu closes and the monitor returns to the previous screen. - 51 - Setting the menu Menu type [Rec] menu (95) (Recording mode only) · You can perform settings such as tones, Sensitivity, Aspect Ratio, and Picture Size. [Motion Picture] menu (106) (Recording mode only) · You can select the recording mode and picture quality and other settings. DMC-TZ30 DMC-TZ31 (128) · You can select the GPS setting, location name display and other settings. [GPS] menu [Setup] menu (54) · You can perform settings for convenience of use such as the clock setting and changing of the beep sounds. [Playback Mode] menu (111) (Playback mode only) · Choose [Playback Mode] to see Slide Shows or to narrow down the pictures for display, etc. [Playback] menu (117) (Playback mode only) · Enables you to specify picture protection, resizing, and other settings for pictures you have taken. [Map] menu DMC-TZ30 DMC-TZ31 (146) (Playback mode only) · You can display the current location or select a map you want to display.

The operation screen examples in this manual may differ from the actual screen display The menu types and items that are displayed vary according to the mode. The setting methods vary depending on the menu item. In recording mode, the menu screen can also be exited by pressing the shutter button The following menu is also displayed depending on the recording mode. · In the [Scene Mode] mode: [Scene Mode] menu (77) · In the [Custom] mode: [Custom] menu (85) · In the [Creative Control] mode: [Creative Control] menu (75) halfway. or some parts of the screen display are omitted. - 52 - Setting the menu Using Quick menu During recording, you can easily call some of the menu items and set them. Press [Q.MENU] button Press to select a menu item · The menu items and setting items that are displayed differ depending on the recording mode. Press to select the settings Press [MENU/SET] - 53 - Using the [Setup] menu [Clock Set], [Economy] and [Auto Review] are important for clock setting and battery life. Please check these before use.

· For details about the setting procedure in the [Setup] menu (51) Item [Clock Set] (23) DMC-TZ30 DMC-TZ31 Settings, notes Set time, date, and display format. [ON] / [OFF] [Auto Clock Set] Setting the clock automatically using GPS. (140) [World Time] Set the local time at travel destination. (93) [Travel Date] Record the number of days elapsed in your travels. (92) [Beep] Change or mute the beep/shutter sounds.

[Destination]: Set the local time at travel destination. [Home]: Set date and time at home area. [Travel Setup] [SET] (Register departure and return dates) / [OFF] [Location] [SET] (Input name of location) / [OFF] [Beep Level] / / / / / / / : Low / High / Mute : Change beep tone.

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: Low / High / Mute : Change shutter tone. [Beep Tone] [Shutter Vol.
] [Shutter Tone] - 54 - Using the [Setup] menu · For details about the setting procedure in the [Setup] menu (51) Item [Volume] Adjust volume of sound from speakers (7 levels). [Cust.Set Mem.] Register settings on current camera. (85) [LCD Display] Adjust brightness and colour of the LCD monitor. [LCD Mode] Make LCD monitor easier to see. Press to select the setting item and press make adjustments Press [MENU/SET] to Settings, notes [0] / [1] / [2] / [3] / [4] / [5] / [6] · Cannot be used to adjust TV speaker volume when connected to TV. [C1] / [C2-1] / [C2-2] / [C2-3] · Some subjects may look different from their actual appearance, but the recorded picture will not be affected. [Auto Power LCD]: The brightness is adjusted automatically depending on how bright it is around the camera. [Power LCD]: Makes screen brighter than normal (for outdoor use).

[OFF] · Cannot select [Auto Power LCD] in playback mode. · [Power LCD] returns to ordinary brightness if there is no operation for 30 seconds when recording. (Press any button to make the screen brighter again.) · Because the picture shown on the LCD monitor screen emphasises brightness, some subjects may look different than their actual appearance, but this will not affect the recorded picture. · Setting [LCD Mode] reduces the operating time. - 55 - Using the [Setup] menu · For details about the setting procedure in the [Setup] menu (51) Item [Guide Line] Select recording information display and types of guidelines. [Rec. Info.] [ON] (Display recording information with guidelines.) [OFF] [Pattern] / : Change the patterns of guidelines.
· When [Intelligent Auto] Mode has been selected, only is displayed. Also, recording information and guidelines cannot be displayed simultaneously. · This function cannot be used in the following case: [Panorama Shot] scene mode [Histogram] Check brightness in picture on graph. (62) [Video Rec Area] Enables verification of the recordable area for a motion picture before recording. [Zoom Resume] Remember the zoom position when turning the power off. [ON] / [OFF] · Recordable area displayed for motion pictures should be interpreted as a guideline. · When using Extra optical zoom, the recordable area may not always be displayed for certain zoom ratios. · This setting cannot be used with [Intelligent Auto] Mode. [ON] / [OFF] [ON] / [OFF] Settings, notes - 56 - Using the [Setup] menu · For details about the setting procedure in the [Setup] menu (51) Item [Economy] Turn off the power or make the LCD monitor go dark while not using the camera to minimise battery consumption. [Sleep Mode] [2MIN.
] / [5MIN.] / [10MIN.] / [OFF]: Automatically shut off power while not in use. · To restore Press the shutter button halfway, or turn on the power again. · Cannot be used in the following cases: When connected to computer/printer, during motion picture recording/playback, during Slide Shows, during automatic demo playback · Settings fixed to [5MIN.] in [Intelligent Auto] Mode. [LCD Power Save] [ON] / [OFF]: The LCD monitor goes dark to minimise power consumption. · Reduces the picture quality of the LCD monitor display during recording to minimise battery consumption (except for the Digital Zoom area). Note, however, that there is no effect on the recorded picture. · The setting in [LCD Mode] is prioritised over the setting in [LCD Power Save] for the brightness of the LCD monitor.

[Auto Review] Automatically display still pictures immediately after taking them. [1SEC] / [2SEC] [HOLD]: Auto review screen remains until a button (other than the [DISP.] button) is pressed [OFF] · The following cases are fixed to the settings indicated below. [Intelligent Auto] Mode: [2SEC] Scene Mode [Panorama Shot]: [2SEC] · Automatically displays still pictures immediately after they are taken regardless of the [Auto Review] setting in [Auto Bracket], [Burst] mode, and [Handheld Night Shot] and [HDR] Scene Modes. · Motion pictures cannot be automatically reviewed. Settings, notes - 57 - Using the [Setup] menu · For details about the setting procedure in the [Setup] menu (51) Item [No.Reset] Reset picture file numbers. Settings, notes · The folder number is updated and the file number starts from 0001. · A folder number between 100 and 999 can be assigned. Numbers cannot be reset once folder number reaches 999.
In this case, save all necessary pictures to your computer, and format the built-in memory/card (60). · To reset folder number to 100: First, format the built-in memory or card, and reset the file numbers using [No.Reset]. Then, select [Yes] on the folder number reset screen. [Reset Rec.
settings?] [Reset setup parameters?] · Information registered in [Face Recog.] is reset if recording settings are reset. · Resetting the setup parameters will also reset the following: - Age in years/months and names in [Baby] and [Pet] Scene Modes, [GPS] menu, [Map] menu DMC-TZ30 - Age in years/months and names in [Baby] and [Pet] Scene Modes DMC-TZ27 · Folder numbers and clock settings will not be reset. · Camera movement may be audible as the lens function is reset. This is not a fault.
[USB Mode] Select communication method for when connecting camera to a computer or printer with USB connection cable. DMC-TZ30 DMC-TZ31 DMC-TZ31 [Reset] Reset to the default settings. [Select on connection]: Select communication method each time you connect to a computer or PictBridge-compatible printer. [PictBridge(PTP)]: Select when connecting to a PictBridge-compatible printer. [PC]: Select when connecting to a computer. DMC-TZ30 DMC-TZ31 Update the GPS assist data. [GPS assist data]: Update the GPS assist data. (141) - 58 - Using the [Setup] menu · For details about the setting procedure in the [Setup] menu (51) Item [Output] Change the settings to be used when the camera is connected to a TV or other device. [Video Out] [NTSC] / [PAL] If the default setting is changed, AVCHD motion pictures may not be played correctly. [TV Aspect] (This setting performs when an AV cable (optional) is connected.

) / [VIERA Link] Enable automatic linking with other VIERA Linkcompatible devices, and operability with a VIERA remote control when connecting via an HDMI mini cable (optional) (158). [3D Playback] Set how 3D still picture is output. [ON]: Operations may be performed via the remote control of the VIERA Link-compatible device. (Not all operations will be available.) Operability of the camera's own buttons will be limited. [OFF]: Operations must be performed via the camera's own buttons. Settings, notes [3D] / [2D] · If you want to play back a picture in 2D (conventional picture) on a 3D television, set to [2D]. · This item of the menu functions when an HDMI mini cable (optional) is connected.

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