



Magnification

Compact 6 HD

User manual



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1. INTRODUCTION	7
ABOUT THIS MANUAL	7
What's in the box?	8
2. GETTING STARTED	9
USING THE COMPACT 6 HD WITH THE READING STAND	10
CLEANING THE CAMERA WINDOW	12
BUTTONS	13
Power on and off	14
SLEEP AND RESUME	14
ADJUSTING THE MAGNIFICATION	14
SELECTING A VIEWING MODE	15
TIME AND DATE	15
THE READING AND OVERVIEW CAMERAS	
USING THE SNAPSHOT BUTTON	17
3. USING THE COMPACT 6 HD SPEECH TEXT-TO-SPEECH AND OCR	18
4. CHARGING THE BATTERY	20

BATTERY WARNING	20
STANDBY	21
5. THE COMPACT 6 HD MENU	22
OPENING AND CLOSING THE MENU	22
THE MAIN MENU	23
Battery status	23
Adjusting the brightness	24
Open	24
Save	25
Voice	25
Voice Rate	26
Settings	26
Line on / off	27
Bluetooth: connecting a Bluetooth speaker or headphone	27
Color	
More	30

Reading light	30
Overview light	30
Mute	
Vibration	31
Camera switch	31
Positioning the reading line	31
Standby	
Button bar	32
Restore defaults	32
APPENDIX A: TECHNICAL INFORMATION	33
APPENDIX B: SAFETY	35
APPENDIX C: WARRANTY CONDITIONS	36
CONTACT - OPTELEC OFFICES WORLDWIDE	41

User Manual

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WEEE Notice

The directive on Waste Electrical and Electronic Equipment (WEEE), which entered into force as European law on February 13, 2003, resulted in a major change in the treatment of electrical equipment at end-of-life.

The purpose of this Directive is, as a first priority, the prevention of WEEE, and in addition, to promote the reuse, recycling and other forms of recovery of such wastes so as to reduce disposal.



The WEEE logo (shown at the left) on the product or its box indicates that this product must not be disposed of or dumped with your other household waste. You are liable to dispose of all your electronic or electrical waste equipment by relocating over to the specified collection point for recycling of such hazardous waste. Isolated collection and proper recovery of your electronic and electrical waste equipment at the time of disposal will help conserve natural resources. Moreover,

proper recycling of the electronic and electrical waste equipment will ensure the safety of human health and the environment. For more information about electronic and electrical waste equipment disposal, recovery, and collection points, please contact your local city centre, household waste disposal service, shop from where you purchased the equipment, or manufacturer of the equipment.

1. Introduction

Congratulations on choosing the Compact 6 HD or Compact 6 HD Speech!

Optelec's unique pocket-sized 6-inch touch screen electronic video magnifier enables you to view and magnify printed text and images in high resolution HD quality in full color or high contrast colors. With its 6-inch display, two cameras, customizable touch screen interface and unique accessories, you can customize your Compact 6 HD and tailor it to your personal needs.

If you have questions or suggestions concerning the use of this product, please contact your distributor or Optelec's headquarters, using the contact information on the last page of this manual. Your feedback is greatly appreciated. We hope you enjoy working with your Compact 6 HD!

About this manual

At Optelec, we are constantly improving our products and their functionality. Therefore, it is possible that this manual is not the latest version. Please download the most up-to-date manual on www.optelec.com at the Support section.

This manual will familiarize you with the features and basic operation of the Compact 6 HD and Compact 6 HD Speech. Please read this manual carefully before using your device. Unless otherwise indicated, all references to the Compact 6 HD will also apply for the Compact 6 HD

Speech. Functionality specifically applicable for the Compact 6 HD Speech are marked with the Speech logo.

What's in the box?

The Compact 6 HD packaging contains the following:

- The Compact 6 HD or Compact 6 HD Speech video magnifier
- The Reading Stand
- A protective pouch
- A wrist strap
- A USB power supply with USB-C cable
- 4 country-specific power plugs (EU, US, UK, and AU)
- A screen cleaning cloth
- This user manual

If any of these items are missing from your package, please contact your distributor.

2. Getting started

The Compact 6 HD is placed correctly in front of you when the screen is facing up, and the white snapshot button and orange on / off button are at the top corners of the screen.



Using the Compact 6 HD with the Reading Stand

The Compact 6 HD is delivered with a separate Reading Stand. When placed in its Reading Stand, the Compact 6 HD can be used with the Reading Stand closed or opened.





Compact 6 HD open

Compact 6 HD closed

In the **open** position, the screen will be set at an ergonomic angle for reading, and the Reading camera will be activated. The open position enables you to read longer texts. The button bar will have a dark blue background.

In the **closed** position, the overview camera is being used. Hold the unit in your hand and point the camera (located at the back of the unit) to the object or text you wish to view or read. The closed position is ideal for quickly scanning and viewing objects or documents. If the overview camera is active, the button bar will be orange.

If you own a Compact 6 HD Speech, the overview camera is being used to capture, recognize and read the text to you.



To open the unit, follow these steps:

- 1. Place the Compact 6 HD in front of you so that the screen is facing up, and the white snapshot button and orange on / off button are at the top of the screen.
- 2. Open the feet of the stand, and the Compact 6 HD will switch on.

Cleaning the camera window

For an optimal quality image, it is recommended to ensure that the camera lens and object light window are kept clean. A dirty camera window will result in a fuzzy image and may cause the autofocus camera to incorrectly focus. To clean the camera window, use the provided cleaning cloth or another soft lens cleaning cloth.

Note: Do not use water or cleaning agents to clean the camera window.



Buttons

The Compact 6 HD has the following buttons:

On / Off button A short press of the orange button, located on the top left, will place

the Compact 6 HD into sleep mode or resume the unit. A 3 second

press of this button switches the unit off or back on again.

Snapshot button The snapshot button located on the top right of the unit allows you to

take a temporary picture of a distant text or image, enabling you to bring the image closer to your eyes. If you own a Compact 6 HD Speech, the Compact 6 HD will try to extract the text from the

snapshot and read it aloud.

USB connector The white USB connector is located on the right side at the bottom

corner of the Compact 6 HD. The supplied USB cable connects to this USB port and power supply. To charge the Compact 6 HD, use only the power supply that comes with the Compact 6 HD to power

and charge the unit.

Cameras The cameras of the Compact 6 HD are located at the back of the unit.

Power on and off

To switch on the Compact 6 HD for the first time, the unit needs to be charged. Once charged, press the orange on / off switch located on the top left corner of the screen for three seconds. To switch off the Compact 6 HD, press the orange button for three seconds again. When switching on the Compact 6 HD, it will take approximately 25 seconds before an image displays on screen.

Sleep and resume

When the Compact 6 HD is switched on, a short press of the orange power button will place the unit into sleep mode. A short press of the orange power button again will resume the Compact 6 operation in the mode in which it was put to sleep. When resuming from sleep, the Compact 6 HD will take approximately 1 second before an image displays on screen.

When the Compact 6 HD is in sleep mode, the unit can also resume by opening the Compact 6 HD reading stand. Closing the reading stand will automatically put it back into sleep mode.

Pressing the snapshot button while the Compact 6 HD is in sleep mode will show the clock.

Adjusting the magnification

To change the magnification, simply tap the screen. The button bar will be shown at the bottom of the screen or at the right side of the screen, depending on the chosen button bar position. The button bar position can be selected in the menu. See chapter 5 for more information on how to change the button bar position. In the button bar tap the + button to increase or the – button to decrease the magnification. Tap the screen to hide the button bar. The button bar will automatically hide when the screen is not touched for 10 seconds.

Selecting a viewing mode

Tapping the Mode button in the middle of the button bar allows you to select one of the following viewing modes:

Photo mode: Viewing full color texts and photos

Negative mode: Reading in high contrast, white on black **Positive mode**: Reading in high contrast, black on white

High contrast color combination 1
High contrast color combination 2

Note: the high contrast modes are not available in snapshots taken with the overview camera.

Time and date

To open the clock, swipe from the right edge of the screen to the left. Alternatively, tap the screen and tap on the arrow at the right edge of the screen.

To set the time and date, tap on the Set button. To change a value, tap on the field you would like to change and tap on the up or down symbol to change the value. Tap on the Back arrow to exit the set time and date screen.

The reading and overview cameras

The Compact 6 HD is equipped with two cameras, a reading camera and an object viewing camera. When the stand is being opened, The Compact 6 HD will switch on and will automatically select the reading camera. When you switch on the Compact 6 HD with the stand closed, the object camera will be activated. The reading camera is optimized for reading text in the reading stand while the object camera is optimized to look at objects at a short distance. To switch between the cameras, swipe down from the top edge of the screen. Alternatively, tap the screen and tap the arrow at the top of the screen.

Using the snapshot button

The snapshot button allows you to take a temporary picture of a text or an image.

- 1. Hold or place the Compact 6 HD over the text or image you wish to capture.
- 2. Press the snapshot button located on the top right side of the unit to take the snapshot.
- 3. Bringing the Compact 6 HD closer to your eyes will enable you to view the object or text closely.
- 4. Press the snapshot button again to and return to the live video mode. It is now possible to take a new snapshot.

To save or delete snapshots, please refer to chapter 5.

Note 1: The high contrast modes are not available in snapshots taken with the object camera.

Note 2: The Speech functionality is not available for snapshots taken with the reading camera.



3. Using the Compact 6 HD Speech text-to-speech and OCR

If you own a Compact 6 HD Speech, taking a snapshot with the object camera activates the Speech functionality. The Compact 6 HD Speech will try to extract the text from the image and will read the text aloud.

Activating the speech

To take a snapshot and activate the Speech:

- Check if the object camera is active by tapping the screen. If the button bar is orange, the object camera is active. If the button bar is dark blue, switch to the object camera by swiping down from the top edge of the screen. Alternatively, tap the screen and tap the arrow at the top of the screen.
- Position the text or part of the text in the camera view and press the snapshot button. For an optimal result, make sure there is enough light in the environment, prevent shadows and limit the text to only the part of the document you would like to read. If the text in view gets too small, the recognition will lose accuracy and might fail.
- Tap the screen and tap the "Play" button in the button bar to have the Compact 6 HD Speech read the captured text to you. In case the processing of the text is still ongoing, a

progress bar will be shown. The Compact 6 HD Speech will start reading after the recognition process has been finished.

- If no text is found, a "No text found" message will appear on pressing the "Play" button.
- To change the language and voice, please refer to chapter 5.

Note: The Speech functionality is not available for snapshots taken with the reading camera.

Adjusting the volume

If a snapshot has been taken with the object camera, you will find the "Volume" slider next to the "Play" button. The "Volume" slider is only present in the snapshot view of the object camera.



4. Charging the battery

The Compact 6 HD is delivered with a power supply and four country-specific power plugs in EU, US, UK, and AU types. Select the power plug that corresponds to your country and plug it to the power supply.

To charge the Compact 6 HD, connect the supplied USB cable to the power supply and the white USB connector located on the right side of the unit. Plug the other end of the power supply into a power outlet.

Charging the Compact 6 HD takes approximately 2 hours. A fully charged Compact 6 HD can operate for an average time of 3 hours, depending on the power settings. For safety reasons, please only use the power supply that was delivered with the Compact 6 HD to charge the unit's battery.

Battery warning

The Compact 6 HD will briefly show an empty battery warning icon to indicate that the battery needs to be charged. When this occurs, make sure to charge your unit. When the battery is empty, the unit will automatically switch off.



If the Compact 6 HD does not switch on, please make sure it is charged.

Standby

The Compact 6 HD can automatically go into standby mode if no button is pressed or no movement is detected. Pressing the orange on / off button will switch it back on. The standby time and power-off time can be changed or disabled in the Compact 6 HD menu. By default standby is disabled. Please refer to the next chapter on how to change these settings.

5. The Compact 6 HD Menu

This chapter will familiarize you with the Compact 6 HD Menu.

Opening and closing the menu

To open the menu, swipe from the left edge of the screen to the right, Alternatively, tap on the screen and tap on the arrow icon at the left side of the screen. This will open the main menu. To close the menu, swipe from the right edge of the screen to the left.



The main menu

The main menu contains two rows of buttons and two sliders. To activate a button, tap the button once. To adjust the slider, tap and hold the slider button while moving it to the right or left. Activating a button will open a new menu screen or list. To go back to the main menu, tap on the back arrow sign.

The main menu contains the following options:

- Voice (Compact 6 HD Speech only)
- Settings
- Battery status
- Open
- Save
- Voice Rate slider (Compact 6 HD Speech only)
- Brightness slider

Battery status

The battery status is shown in the top right corner of the screen. If you tap the battery icon, a new screen will be opened showing a magnified battery icon and battery status, the "About" button and the "Back arrow" to return to the main menu. The lightning symbol indicates that the battery is charging.

About

Tap on the "About" button in the battery screen to see the application version.

Adjusting the brightness

Use the slider with the sun icon to increase or decrease the brightness of the screen.

Open

To open a snapshot, open the menu and tap on the "Open" button. A list of thumbnails of the saved snapshots will be shown, showing the most recently saved snapshot first. If there are more snapshots than fit on the screen, swipe up and down to scroll the list. Tap on the snapshot thumbnail to open it.

Delete

To delete a snapshot, open the menu and tap on the "Open" button. In the open screen, tap on the "Delete" button. A list of thumbnails of the saved snapshots will be shown, showing the most recently saved snapshot first. Each snapshot has a checkbox at the top right corner. To select a snapshot, check the checkbox. Tap the "Delete" button to delete the selected snapshots. To delete all snapshots, tap the "Delete" button without selecting a snapshot. You will be prompted to confirm to delete all snapshots. To delete all snapshots, select "Yes". To cancel deleting all snapshots, select

"No". Both choices will return you to the list of snapshots. Tap the "Back arrow" to return to the "Open" screen. Tap the "Back arrow" again to return to the main menu.

Save

To save a snapshot, open the menu and tap the "Save" button.

- Make asnapshot using the snapshot button
- Open the menu
- Press the save button to save the snapshot

If there is no snapshot, the Save button will be hidden.



Voice

To select a voice, language and menu language, or to add or remove a voice or language, open the menu and tap the "Voice" button.

Selecting a voice, language and menu language

This menu item lets you select your reading voice and language. To select another reading voice, tap the voice icon in the top left corner of the main menu to open the list with preselected voices. Each voice represents a language. Tap on a voice to select the voice. If adjusting the reading voice results in a change of language, the menus will automatically change.

Adding or removing a voice or language

To add or remove a voice or language, tap the voice icon in the top left corner of the main menu. In the list with preselected voices, tap on the "Add/Remove" button. To add or remove a reading voice, select the language from the list by tapping on the language. This will display a list with available voices for the selected language. To enable a reading voice, select it from the list by tapping on it. A checkmark in front of the voice name will indicate if it is enabled. When the voice is enabled, it will be available under the "Voice" button in the main menu. By deselecting a voice, the voice will be removed from the available reading voices. The languages of which a reading voice is selected, will appear at the top of the list with languages, and are marked with a checkmark.



Voice Rate

Use the slider with the arrow head icon to adjust the voice playback rate.

Settings

Tap on the "Settings" button to enter the Settings menu. The "Settings" button is the button with the gear icon next to the battery icon. The Settings menu contains four buttons:

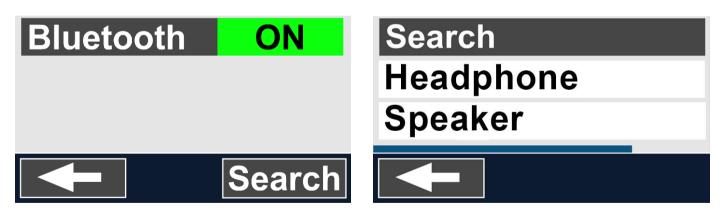
- Line
- Bluetooth
- Color
- More...

Line on / off

The Compact 6 HD can display a reading line to help you position the Compact 6 HD straight on the document. To enable the reading line, tap the "Line" button. Tap this button again to hide the reading line.

Bluetooth: connecting a Bluetooth speaker or headphone

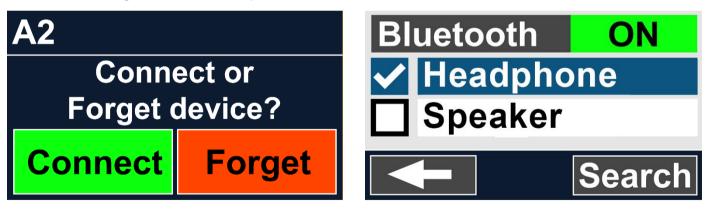
To connect a Bluetooth speaker or headphone, tap the "Bluetooth" button and switch Bluetooth on.



A list with paired devices is being displayed.

If no speaker or headphone is being paired, tap the "Search" button to search for available devices. Before starting the Bluetooth search, make sure the speaker or headphone is switched on and is set to discoverable. Please refer to the speaker's or headphone's manual on how to switch the device to Bluetooth discoverable mode. To pair the speaker or headphone, tap on the device name and if needed enter the pin code. Refer to the speaker's or headphone's manual for the pin code of the device.

When the device is paired, to connect the speaker or headphone, tap the device. You will be asked to connect or forget the device. Tap the "Connect" button to make the connection.



To indicate that a device is connected, the connected device will have a checkmark and be displayed in blue.

To unpair / forget a device, tap the "Forget" button. The device will be removed from the list with paired devices.

Color

In the settings menu, tap the "color" button to select the preferred high contrast colors. The Compact 6 HD supports four high contrast modes. For each of these four modes, the foreground and background colors can be selected. Three of the high contrast modes can be disabled. One high contrast mode is required.

- Tap on the mode number you would like to change. Each number represents a mode.
- To select new high contrast colors for the foreground and background, tap on the up arrow head to move up or the down arrow head to move down within the list of color combinations.
- High contrast modes 2, 3 and 4 can be disabled by selecting the "X" symbol.
- Tap on the "Back" button to return to the settings menu.

More...

The "More..." menu contains the following settings:

- Reading light
- Overview light
- Mute
- Vibration
- Camera switch
- Line position
- Standby
- Button bar
- Restore

Reading light

This menu item allows you to enable or disable the lights - located to the left and right of the reading camera. By default, the reading lights are enabled for an optimal image quality.

Overview light

This menu item allows you to enable or disable the light - located next of the overview camera. By default, the overview light is disabled.

Mute

This menu item allows you to enable or mute the feedback sounds. By default, sound is enabled.

Vibration

This menu item allows you to enable or disable the vibration feedback. By default, vibration is enabled.

Camera switch

If "camera switch" is on, opening the stand will automatically activate the reading camera. If the Compact 6 HD is switched on with the stand closed, the overview camera will be activated. To disable the "Camera switch", the active camera needs to be selected manually. By default, "Camera switch" is on.

Positioning the reading line

This menu item enables you to change the reading line position to one of its three positions, top half, middle or bottom half of the screen. By default, the reading line is set to the middle of the screen.

Standby

The standby time sets the time after which the Compact 6 HD goes into standby mode to conserve power. Pressing any button will take the unit out of standby mode. By default, the standby time is set to 10 minutes after no button is pressed or no movement of the Compact 6 HD is detected.

Button bar

This menu item enables you to change the button bar position to one of its three positions, auto, bottom or side. Depending on your preference, you could change the position of the button bar to the bottom or side of the screen.

The default setting is "Auto". When set to "Auto" the bar position is depending on the accessory in use. For the Reading Stand this will mean that the bar will be positioned at the bottom of the screen.

Restore defaults

Tap this menu item if you wish to restore the default settings. You will be prompted if you are sure to restore the defaults. To restore the defaults select "Yes". To cancel restoring the defaults, select "No".

Appendix A: Technical information

Magnification 1.8 – 18 times

Viewing modes Full color photo mode

High contrast, white on black High contrast, black on white High contrast color combination 1 High contrast color combination 2

Focus Auto-focus

High contrast ratio 700:1

High brightness screen 350 cd/m2 Screen 5.94" TFT Screen resolution 1280 x 720

Dimensions 183 x 95 x 14 mm / 7.2 x 3.7 x 0.55 in

Weight 270 grams / 9.5 ounces

Battery average 3 hours continuous use

average 2 hours charging time

Li-poly battery rechargeable, 3.7V 3200mAH
Power supply type Intertek, MX15Z-0502500VU
Input power rating – Adaptor 100-240V, 50-60Hz, 0.4A

Input power rating – Unit DC5V-2.5A

Operating conditions

Temperature +10°C to 35°C / 50°F to 95°F Humidity < 70%, no condensation Altitudes up to 3000 m (9842 feet)

Pressure 700 – 1060 hPa

Storage & transportation conditions

Temperature +10°C to 40°C / 50°F to 104°F

Humidity < 95%, no condensation Altitudes up to 12192 m (40000 feet)

Pressure 186 – 1060 hPa

Appendix B: Safety

Intended Use:

The Compact 6 HD is designed that it can be used in a hospital environment for general purpose such as reviewing medical records. The Compact 6 HD cannot be used for surgical procedures in combination with life supporting systems.

Warning: Critical diagnostic decisions should not be based on images displayed by this device.

- Do not expose the Compact 6 HD to excessive heat or direct sunlight to avoid the risk of fire.
- Do not remove any parts of the Compact 6 HD. Contact an Optelec authorized service organization in your area.
- To avoid risk of electrical damage, keep your Compact 6 HD away from fluids and chemicals.
- Handle the Compact 6 HD with care. Rough handling will damage the internal components.
- Do not use the Compact 6 HD near inadequately shielded medical devices.
- Do not try to open the battery compartment or try to remove the battery.
- Contact your dealer to service this equipment if necessary. Do not disassemble your unit
 as it will void the warranty.
- Always unplug and switch off the unit before cleaning. Use a dry soft cloth to clean the exterior. Do not use cleaning agents or abrasive materials as they will damage your unit.

Use of the Compact 6 HD other than described in this manual will exclude it from warranty conditions.

Appendix C: Warranty Conditions

Optelec warrants the Compact 6 HD, effective from the date of delivery, to be free of any defects in material and workmanship.

The warranty is not transferable and does not apply to groups, multi-users and agencies. The Compact 6 HD was designed for the individual purchaser to be used at home or on the go. Optelec reserves the right to repair or replace any purchased Compact 6 HD with a similar or improved product.

In no event shall Optelec or its suppliers be held liable for any indirect or consequential damages. The original user's remedies are limited to replacement of the Compact 6 HD. This warranty is valid only when serviced in the country of original purchase, and with intact seals. For additional warranty claims or service during or after the warranty period, please contact your Optelec distributor.

Optelec is not responsible for any uses of this device other than those described in this manual. Use of the Compact 6 HD other than described in this manual will exclude it from warranty conditions.

Grounding reliability can only be achieved when the Compact 6 HD power supply is connected to power outlet which has an equal medical certification.

Warning – Do not modify this equipment without authorization of the manufacturer. Warning – To avoid risk of electric shock, this equipment must only be connected to a grounded power outlet.

Caution: The supplied adapter is part of the Compact 6 HD product.



Caution, consult ACCOMPANYING DOCUMENTS.



Follow the operating instructions or consult instructions for use.



STAND-BY.



Direct current.

RoHS Compliance

This product is in compliance with Directive 2011/65/EU of the European Parliament and of the Council of 03 January 2013, on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) and its amendments.

European Union Notice

Products with CE marking comply with the EMC Directive (2014/30/EU), the MDD directive (93/42/EEC) and the Low Voltage Directive (2014/35/EU) issued by the Commission of the European Community.

WARNING: The use of accessories, transducers and cables, with the exception of transducers and cables sold by the manufacturer of the Compact 6 HD as replacement parts for components, may result in increased emissions or decreased immunity of the Compact 6 HD.



This device bears the CE and FCC approval mark

Federal Communications Commission (FCC) Statement:

This Equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

WARNING: You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received; including interference that may cause undesired operation.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

WARNING: Risk of explosion if the battery is replaced by an incorrect type. Pleas e dispose of used batteries according to the disposal and recycling regulations that are applicable in your country or region.

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