

## Compact 8 Safety and Care

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Read these instructions carefully before setting up your device. Keep this document for future reference.

### Cleaning the LCD Screen

Before cleaning the LCD screen, power off and unplug the device. Use a dry, clean microfiber cloth to gently wipe the cloth across the screen. Optionally, follow the directions of a cleaning liquid specifically for use on screens.

**Warning:** Do not use a paper towel or press down hard on the screen.

### Cleaning the Compact 8 Body

Unplug the device before cleaning the body. Use a lightly dampened, soft, clean cloth with water or mild detergent.

### Product Specifications

Trade name	Compact 8
Close magnification	1.8x to 30x
Distance magnification	1.0x to 18x
Color modes	25 color combinations, including true color, enhanced color, grayscale
Focus range	20 cm to infinity
Screen	8.0-in TFT, 400 cd/m <sup>2</sup>
Screen resolution	1280 x 720
Cameras	60 fps, 4208 x 3120 p
Dimensions	205 x 139 x 25.4 mm 8.07 x 5.47 x 1 in
Weight	0.776 kg / 1.71 lbs
Battery	Up to 3.2 hours of continuous use and up to 4 hours of charging time
Li-ion battery	Rechargeable, 3.7 V, 7600 mAh, 28.12 Wh
Connections	USB-C, 3.5mm audio (not used)
Power supply	Adapter Technology Co., LTD ATM012T-W052VU.
Adapter input power rating	100-240 VAC, 50-60 Hz

Adapter output power rating	Max load: 5.1 V 2.4 A
WiFi	WiFi 802.11b 2.4 GHz
	Miracast
IPX rating	IP21

### **Regular Maintenance and Service**

This device does not need regular service or maintenance during its expected service life. These tips, however, will help keep your product in good condition:

- To keep your device clean and dry, transport it in its protective pouch.
- Before storing the device for a long time, the battery charge should be 60% to 80%.
- Inspect the device regularly and keep the battery charged at least 20%. It does not harm the device to leave it charging.
- In case of defects or a decrease in performance, contact your local dealer or point of sale.

### **Warnings and Precautions**

Do not remove any parts or disassemble your unit as it will void the warranty. For product support, contact an authorized service organization in your area.

Note these warnings and precautions:

- To avoid the risk of electric shock, devices powered using a grounded power connector must be connected to an electrical supply with a protective earth-ground connection.
- Do not stare into LED lamps in operation as temporary discomfort and eye injury can result.
- Critical diagnostic, medical or legal decisions should not be based on images displayed by this device.
- Use only the original 5.1 V 2.4 A charger and cables provided with the device. Do not force the power connector into the power port of the device.
- Do not spray any cleaning solutions directly on the LCD screen.
- Do not use solvents, abrasives, aerosols, or any cleaner that contains acetone, ethyl alcohol, ethyl acid, ammonia, or methyl chloride.
- Do not expose the device to excessive heat, direct sunlight, or extreme or rapid changes in temperature or humidity.

- To avoid the risk of electrical damage, keep your device away from fluids and chemicals.
- Handle the device with care. Rough handling will damage the internal components.
- Do not use the device near inadequately shielded medical devices. Do not open a Miracast connection near devices like pacemakers or defibrillators.
- Do not touch or look directly at the illumination lights.
- Be careful that your fingers and clothing do not get stuck in moving parts (for example, the stand).
- Common side effects of using an electronic display device for prolonged periods are eye fatigue and headaches.
- Do not place the device on an unstable surface. It may fall, causing serious damage to the unit, or injury to the user.
- To prevent condensation, do not use the device for one hour after transporting it from extreme cold to room temperature.
- While charging the device, even while powered off, the ambient temperature must be between 0°C and 35°C or 32°F and 95°F.
- Do not position the alternating-current (AC) power supply such that is difficult to access and disconnect.
- Portions of the back housing may exceed 43°C, which may provide discomfort during continuous contact. If this occurs, adjust hand position to a cooler region.
- No modification of this equipment is allowed.



This product contains chemicals that are known to the State of California to cause cancer and birth defects or reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### **Precautions for Battery Pack**

Do not charge if your device appears damaged, deformed, or defective. Contact your Optelec distributor or the nearest Optelec office for further instructions before use.

BATTERY MUST BE REPLACED BY CERTIFIED SERVICE PERSONNEL.  
 RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.


DISPOSE OF USED BATTERIES ACCORDING TO LOCAL REGULATIONS.

**Residual Risks**

Risks relating to the use of the device have been carefully evaluated and reduced to the lowest possible level. Residual risks have been found acceptable and the benefits of using the device outweigh these residual risks.

**Contacting Product Support**

For product support, contact your local dealer or point of sale. For incidents involving the device and someone’s health, contact [MDSupport@vispero.com](mailto:MDSupport@vispero.com).

 Optelec Nederland B.V., Pesetastraat 5a, 2991 XT, Barendrecht, The Netherlands. [www.in.optelec.com](http://www.in.optelec.com), [MDSupport@Vispero.com](mailto:MDSupport@Vispero.com).

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 Optelec / Optelec Limited, Unit C, Plot 5, Merlin Way Quarry Hill Ind. Estate Ilkeston, Derbyshire, DE7 4RA United Kingdom, [www.lowvisionshop.co.uk](http://www.lowvisionshop.co.uk)

Operating Conditions	Storage and Transportation Conditions
Temperature: +0°C to 35°C / 32°F to 95°F Relative humidity: less than 70%, no condensation Altitudes: up to 3,000 m (9,842 ft) Pressure: 700 – 1060 hPa	Temperature: -10°C to 50°C / 14°F to 122°F Relative humidity: 40% to 70%, no condensation Altitudes: up to 12,192 m (40,000 ft) Pressure: 186 – 1060 hPa

Compact 8 is tested by an independent laboratory for safety and regulatory compliance.

Description	Requirement
FCC / EMC	47 CFR Part 15 FCC Class B
Safety	UL/EN/CSA 62638-1:2014; IEC 62368-1:2018; IEC 60601-1:2005/AMD1:2012

Description	Requirement
CE / EMC	EN 55032:2015+A11:2020+A1:2020; IEC 60601-1-2:2014/AMD1:2020; EN 60601-1-2:2015
Usability	IEC 60601-1-6:2013; IEC 62366:2015
Risk management	ISO 14971:2019
ICC	ICES-003 Issue 7:2020 CISPR32
Safety (battery)	IEC62133-2:2017 CB report
Transportation (battery)	UN38.3 6th revision, amend 1/CNAS/SDS
Bluetooth and Wifi	ETSI EN 300 328 V2.2.2 ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4 EN 50663:2017

### **Clinical Benefit**

Magnifiers empower the user, helping to instill independence, increase productivity, and improve self-esteem. In short, those who struggle with daily tasks due to low vision find their quality of life enhanced by utilizing magnifiers.

### **Intended Purpose**

This device is intended to be used as a vision enhancement product by people who require vision assistance when reading printed materials or viewing objects encountered during everyday use. The device is not intended to be relied upon exclusively for the interpretation of sensitive or professional material, such as medical or legal documents. The device is suitable for continuous use. This device has no patient-applied parts.

### **Intended Use Environment**

This device is intended for use in a home or office environment for the purpose of providing enlarged and enhanced images to the user. This device is not suitable for use in an oxygen-rich environment.

### **Intended User**

This device is intended for anyone with a vision impairment or anyone wanting to view enlarged text or images.

### **Intended Accessories**

The USB-C port is intended to be used with personal computers for data communications and charging. A USB-C storage device is supported. A USB-C to HDMI cable is supported for data communication. The 3.5 mm audio jack has no user-intended function.

The use of accessories other than those listed here is not allowed.

### **Performance Characteristics**

Magnification and enhancement of images.

### **Expected Service Life**

This device does not create any unacceptable hazardous conditions (as defined by IEC 60601-1 Medical Electrical Equipment—General Requirements for Basic Safety and Essential Performance) and will be safe to use for 10 years or longer. Expected service life does not represent the actual operating life or warranty period of the device but rather is a statement about expected period of safe operation of the device.

### **Reasonably Foreseeable Misuse**

Foreseeable misuse includes:

- Improperly servicing device.
- Using the device to read medical or legal documents.
- Inadequately understanding the performance characteristics of the device, such as expecting more magnification than is available.
- Improperly using buttons.
- Staring at the operating illumination LEDs.
- Reading text incorrectly using an outside program application.
- Lack of end-of-life determination.
- Operating the device in an unsuitable environment.
- Device distorting images.
- Misprints or typographical errors in Instructions for Use.
- Prolonged use of the electronic screen and overexposure to blue light.
- Dropping the device, operating it forcefully, or using the wrong accessories.

### **Layperson Information**

For use by laypersons. Optelec is not responsible for any uses of this device other than those described in this manual.

## Guideline

Input rating for Compact 8: 5.1 VDC, 2.1 A

Protection against electric shock: Class II

No patient-applied parts

Protection against harmful ingress of water or particulate matter: IP21

Not suitable for an oxygen-rich environment

Mode of operation: suitable for continuous use

## 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 the prevention of WEEE, and in addition, to promote the reuse, recycling, and other forms of recovery of wastes to reduce disposal. The WEEE logo 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 your electronic or electrical waste equipment by placing it in the specified collection point for recycling of 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, contact your local city center, household waste disposal service, shop where you purchased the equipment, or manufacturer of the equipment.

## Warranty Conditions

Optelec warrants the Compact 8, 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 or multi-users. The Compact 8 was designed for the individual purchaser to be used at home, school, and work. Optelec reserves the right to repair or replace any purchased Compact 8 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 Compact 8 components. 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 warranty period, contact your Optelec distributor. Use of the Compact 8 other than described in this manual will exclude it from warranty conditions. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Contact your local dealer for details about the duration of this warranty.

### **Declaration of Conformity**

We declare under our sole responsibility that this product, to which this declaration relates, is in conformity with the council EMC directive 2014/30/EU and the RED directive 2014/53/EU. This device bears the CE and FCC approval mark.

### **Compliance Notice**

EU MDR 2017/745

ROHS

ISO 13485:2016

This product complies with Directive 2011/65/EU of the European Parliament and of the Council of 3 January 2013, on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS-II) and its amendments.

### **Susceptibility to Interference**

There may be temporary degradation of the image when Compact 8 is subjected to a strong radio frequency field, electrostatic discharge, or transient electrical noise. An electrostatic discharge (caused by static electricity) may cause the screen to go blank. If this happens, follow these steps:

1. Disconnect the DC adapter power supply from the electrical outlet.
2. Turn off the device.
3. Wait 30 seconds.
4. Connect the DC adapter power supply again and turn on the device.



## External Influences

Electronic devices can be sensitive to electric discharge and electromagnetic fields caused by other electronic equipment. The device should be operated at a minimum distance of one meter away from other electronic or telecommunication devices. All external influences tested for as required by 60601 standards.

Contains radio transmitter:

FCC ID: 2AMNB-CP8

IC: 8186A-CP8

## Federal Communications Commission (FCC) Notice

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 or television technician for help. Changes or modifications not expressly approved by the party responsible for compliance could void the user's 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. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**Caution:** Exposure to radio frequency radiation. This device must not be co-located or operating in conjunction with any other antenna or transmitter.

The SAR limit adopted by USA is 1.6 watts/kilogram (W/kg) averaged over one gram of tissue. This product complies with RF Exposure Limits. This device complies with RF guidelines when the device is used at a distance of 0 mm from your body.

### **Canada – Industry Canada (IC) Notice**


















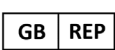





This Class B digital apparatus complies with Canadian ICES-003.

This device complies with RSS 210 of Industry Canada. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of this device.

**Caution:** Exposure to radio frequency radiation. The installer of this radio equipment must ensure that the antenna is located or pointed such that it does not emit RF field in excess of Health Canada limits for the general population; consult Safety Code 6, obtainable from Health Canada's website at [www.hc-sc.gc.ca](http://www.hc-sc.gc.ca).

La limite SAR adoptée aux États - Unis est de 1,6 Watt / kg (W / kg) en moyenne par gramme de tissu. Ce produit respecte les limites d'exposition aux RF. L'appareil est conforme aux directives RF lorsqu'il est utilisé à 0 mm du corps.

## Label Markings

	WEEE icon		Fragile
	This side up		Keep dry
	CE mark		FCC mark
	Warning/precaution	Power: --- 5V, 2.4A	Power rating
	Manufacturer		Date of manufacture
Code 128  123456789012	Barcode		Serial number
	Authorized representative		Catalog number
	Consult instructions		Medical device
 AC	AC voltage	 DC	DC voltage
	UK responsible person		UK Conformity Assessed mark
	Refer to instruction manual/booklet		Temperature limit
	Humidity limitation		Atmospheric pressure limitation