

XPAND Anti Motion Sickness Glasses

Model No. X104-MS-S2 and X104-MS-L2

User Guide

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V I S I O N

XPAND's Anti Motion Sickness Glasses are electronic sunglasses that can reduce motion sickness while flying, sailing and driving. Beyond excellent UV protection, the sunglasses have electro-optical system that fights motion sickness in noninvasive way. Unlike motion sickness drugs (pills and patches) **XPAND's Anti Motion Sickness Glasses** do not have any side effects (such as drowsiness and the inability to think clearly).

How Does Anti Motion Sickness Work?

XPAND's Anti Motion Sickness Glasses efficiently use shuttering lenses to reduce severity of motion sickness. When the motion sickness mode is enabled on the glasses, the electro-optical system is engaged and the electronic lenses start to strobe (both lenses becomes transparent and clear very fast). XPAND's Anti Motion Sickness Glasses' **flash frequency is 4 Hz**.

By creating longer pauses between what the person sees **XPAND's Anti Motion Sickness Glasses** create better perception of movement and thus minimize the disagreement between perception and vestibular interpretation of movement.

When to Use XPAND's Anti Motion Sickness Glasses

Without any motion sickness symptoms - use the sunglasses like traditional sunglasses. As soon as motion sickness symptoms are present follow these steps:

- Change location. If possible, move to a place where motion is least likely to be felt.
 - » While sailing: move to the center of the vessel; look for open view; access to fresh air.
 - » While driving: move to the front seat.
 - » While flying: an aisle seat over a wing is the optimal seat.
 - » On a train: move to the front and face forward
- Sit down. NEVER stand & do not lay down while using the glasses!
- Turn on **Anti Motion Sickness** mode – see “Turning ON Your Glasses” section of this manual.
- Take a few deep breaths and stay as calm and relaxed as possible.
- Minimize head movements. Look off into the distance and focus on a steady point (or on the horizon if you cannot find a steady point)
- Do not read. Do not sleep.
- The glasses will stay in Anti Motion Sickness mode for **10 minutes** and will **turn off automatically**. After this time you should feel much better. Please keep following the above guidelines without active glasses protection. This might prevent future motion sickness.
- If you still feel some motion sickness – keep following the above guidelines **without** active glasses protection for additional 10 minutes and start another active cycle for additional 10 minutes. (10 minutes in active mode, 10 minutes in passive mode etc).

Anti Motion Sickness Glasses Overview

- (1) Button (ON, OFF) – located at the bottom side of right earpiece.
- (2) LED – located at the outer side of right earpiece in shape of the letter X.
- (3) USB charging port.



Turning ON Your Glasses

Step 1: Shortly press the button (1) once.

Step 2: The LED (2) will ramp from dark to bright.

Step 3: The shutters will flash at 4 Hz frequency for 10 minutes.

Please note that the glasses behave differently if the charging cable is plugged in. Please, refer to the Charging your glasses section for further information.

Turning OFF Your Glasses

Step 1: Shortly press the button (1) once.

Step 2: The LED (2) will ramp from bright to dark.

Please note that the glasses behave differently if the charging cable is plugged in. Please, refer to the Charging Your Glasses section for further information.

The glasses also turn off automatically after 10 minutes of operation.

Indicating the Battery State

If LED (2) flashes every couple of seconds during the operation, battery level is low.

Charging is indicated with lit LED (2).

Charging Your Glasses

To charge the glasses, plug the micro USB cable in a computer or other USB device capable of supplying power on one side and to the XPAND Anti Motion Sickness Glasses charging port (3) on the other side. The LED (2) will remain lit while the glasses are charging. When the battery is fully charged LED (2) will go off.

Please note that short press on the button (1) doesn't turn the glasses ON or OFF while the USB charging cable is plugged to the glasses. It just switches the shutter operation ON or OFF. The glasses are automatically turned ON when the charging cable is plugged in and turned OFF when the cable is unplugged in case the shutter operation is turned OFF at that time.

The glasses automatically stop the shutter operation after 10 minutes.

Battery range allows 35 hour of running and the charged shelf-life is approx 3 months.

To extend the battery life, you should **charge the glasses before first use.**

WARNING: Read Before Use

Do not drive or operate a car, or other vehicle, operate machinery, or perform or attempt any other potentially dangerous activity while using the product. Furthermore, the product is not a medical device and should not be used by persons having any history of any one of the following, or similar, conditions: epilepsy, migraines, or increased intra ocular pressure (glaucoma). In addition, the product should not be used by persons taking and/or having prescriptions for any of the following, or similar medications: central nervous system stimulants such as RITALIN, quinolone antibiotics (CIPROFLOXACIN, LEVOFLOXACIN) or METRONIDAZOLE.

Do not use the product if you have used any sleep medication, or similar medication, or anxiolytic agent, or similar agent, within the previous 24 hours, including, but not limited to, any of the following medications: CLONAZEPAM, DIAZEPAM or LORAZEPAM. Do not use the product if you are taking mood stabilizing or antipsychotic medications, or similar medications, such as: HALOPERIDOL, LITHIUM, or BUPROPRION. **Do not use the product with ALCOHOL**, or similar agents, **ingestion**. Finally, if you are pregnant or if you are taking, have been, or will be prescribed any medication or treatment, whether over the counter or not, please consult your physician before using the product.

Children should always use the glasses under supervision of an adult!



ATTENTION – Consult Accompanying Documentation

Important - Safety Instructions

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Clean only with dry cloth.
- Only use the attachments/accessories specified by the manufacturer.



Battery

The 3D Glasses Battery is not user replaceable.

WARNING, Battery May Explode If Mistreated. Do Not Disassemble, Or Dispose of In Fire.

Regulatory Compliance Statements

Caution: Any changes or modifications to this equipment not explicitly approved by X6D Limited shall void the user's authority to operate it.

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.

Hereby X6D Limited declares that the X104-MS-S2 and X104-MS-L2 are in compliance with the essential requirements and other relevant provisions of the EU Directive 2004/108/EC. The declaration of conformity may be consulted at <http://www.xpandvision.com/products/anti-motion-sickness-glasses/declaration-of-conformity/>

Technical Specifications

Lens Type: LCD, TN cell

Refresh Rate: 4 Hz

Temperature: 5 - 45° C

Battery Life: 35 hours

Battery Type: Rechargeable Lithium-ion Polymer cell

Filter Category Number: Category 2

Number and year of this European Standard: EN 1836:2005+A1:2007

Frame and Lens Specifications

	REGULAR Size	SMALL Size
Weight	1.67 oz (47 g)	1.62 oz (46 g)
Dimensions (w x h x d)	6.3 x 1.8 x 6.5" (161 x 46 x 165 mm)	5.5 x 1.8 x 6.1" (140 x 46 x 155 mm)
Frame Colour	White	Dark Blue
Ear-pieces	Foldable	Foldable



Identification Of Manufacturer Or Supplier: X6D Ltd., 195 Arch Makarios III Ave, Neocleous House, P.C. 3030 Limassol, Cyprus



Warning: Not suitable for driving and road use

Warning: Not for direct viewing of the sun

Warning: Children should always wear the product under supervision of an adult!

Technical Support

For direct support with XPAND Consumer products please contact us at:

(+1) 888.906.1190 or technicalsupport@xpandvision.com

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