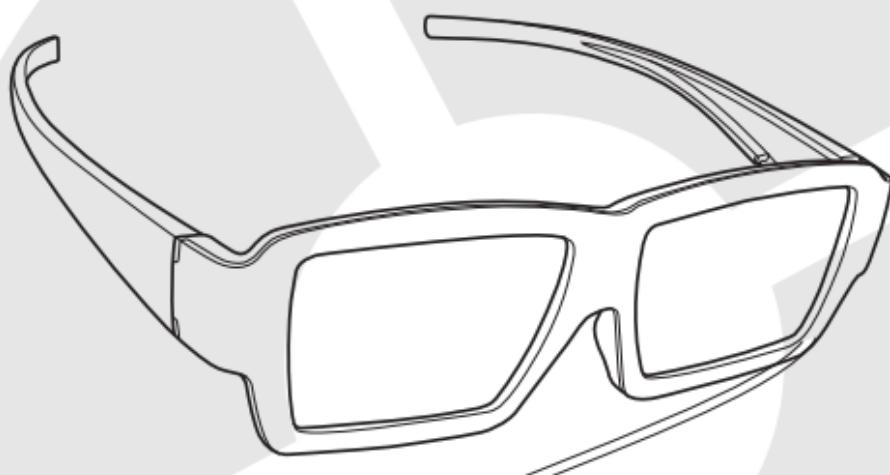


ACTIVEYES[®] BY VOLFONI

User Guide



www.volfoni.com

model

Hybrid :VBAE-01000

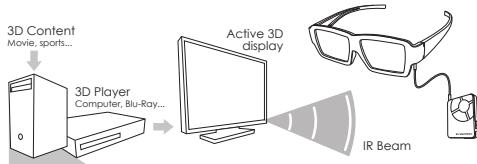
Active : VBAE-02000

SUMMARY

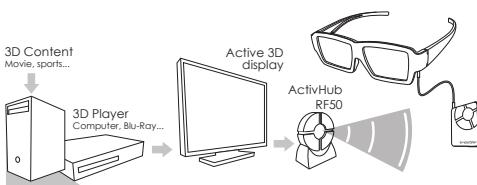
1. PRODUCT OVERVIEW	4.
1.1 DESCRIPTION	4.
1.2 SET UP OF ARMS	5.
1.3 PACKAGING COMPOSITION	5.
2. EDGE RF FEATURES	6.
2.1 GENERAL SPECIFICATIONS	6.
2.2 TECHNICAL SPECIFICATION	6.
3. REQUIREMENTS	7.
3.3 ACTIVHUB™ RF50 OVERVIEW	7.
3.4 GENERAL SETUP	7.
4. USING YOUR EDGE™ RF	9.
4.1 ON/OFF AND AUTO OFF	9.
4.2 SWITCH BUTTON	9.
4.3 BATTERY	9.
4.3.1 BATTERY LEVEL	9.
4.3.1 BATTERY CHARGE	10.
5. SOFTWARE UPDATES	10.
6. VOLFONI LOADER - PARAMETERS	11.
7. TROUBLESHOOTING	12.
8. IMPORTANT SAFETY RECOMMENDATIONS	13.
9. WARRANTY	14.
10. REGULATIONS	14.
11. MORE INFORMATION AND CONTACTS	15.

1. REQUIREMENTS

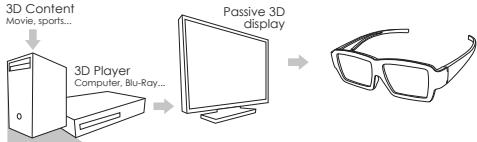
To use your ActivEyes Pro in active 3D mode you need a 3D device playing 3D content on a 3D Display using compatible IR synchronization.



If your 3D Display does not come with an IR emitter, you may want to acquire one from its manufacturer, or plug a Volfoni ActivHub RF50 to a 3D sync out



To use your ActivEyes Pro with hybrid lenses in passive 3D mode, you need a 3D device playing 3D content on a 3D display using compatible circular light polarization.



2. PRODUCT OVERVIEW

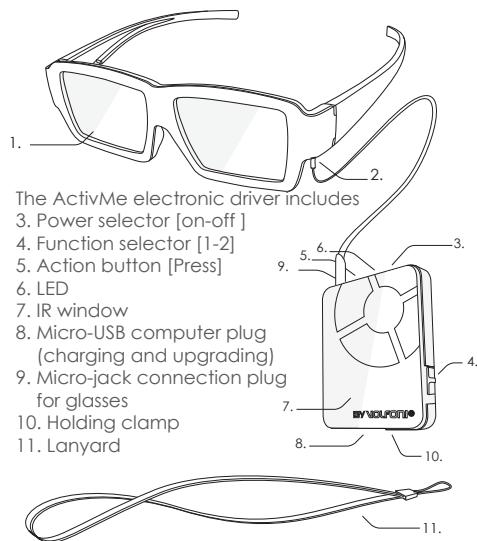
Your 3D Glasses System by Volfoni includes one pair of ActivEyes Pro 3D glasses and one ActivMe Pro electronic receiver. Your ActivEyes Pro glasses, when connected to the ActivMe Pro, are compatible with most 3D TV sets using IR signals to control 3D glasses. The ActivMe Pro receiver can be recharged and updated to new IR and RF 3D protocols via its USB port.

If your ActivEyes Pro 3D Glasses are fitted with Hybrid ClearLenses, they will decode 3D from passive displays too.

3. DESCRIPTION OF THE ACTIVEYES

The ActivEyes Pro eyewear includes:

1. Liquid Crystal shutter lens
2. Connection plug



4. QUICK START

To watch active displays using your ActivEyes System in universal infra-red 3D mode :

1. Using the connection cable, plug the ActivEyes Pro to the ActivMe Pro, and place the glasses on your head.
2. Check that the "function" selector on the ActivMe Pro is on "1".
3. Switch the power on. The glasses should blink once each eye to signal that the system is up and running.
4. As soon as the IR or RF signal is identified and interpreted, the glasses go into 3D mode. You can now attach the ActivMe Pro to the front of your clothing or attach to the lanyard, making sure that the IR window is not obscured.

To watch passive displays (for VBAE-01000 models only) :

Simply wear your ActivEyes Pro. There's no need to plug or power on the ActivMe Pro.

5. CHARGING BATTERY

To charge the ActivMe Pro, plug it in using the Micro-USB cable to any 5V USB power source (or computer). The LED should go red until the battery is fully charged, then the LED goes green, typically after 2.5 hours. The battery is estimated to last 30 hours before needing a recharge. Your ActivMe can operate while charging.

6. UPDATE YOUR ACTIVEYES PRO

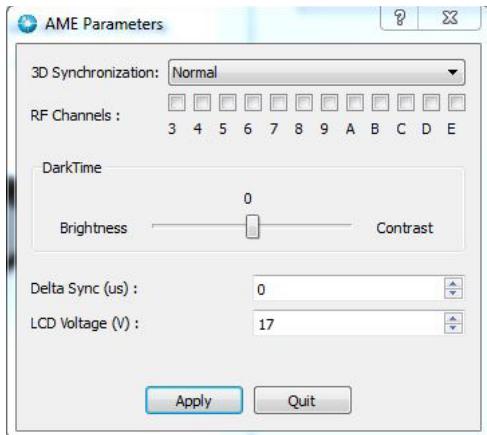
Before using the ActivEyes Pro glasses, make sure you have the latest version of software from our website. For this purpose, please download the « Volfoni Loader » software (<http://www.volfoni.com/en/services-support/download>) and connect your glasses to your computer. Then start the software and follow the instructions below.

- choose the menu "SUPPORT"
- choose "Upgradable Software"
- download the application "VOLFONI LOADER"
- connect your computer to the µUSB connector on ActivMe with the USB/µUSB cable
- press and hold the button of the ActivMe, and switch ON the ActivMe
- the LED of the ActivMe will light red
- verify that the application recognizes your system
- once you are connected, press the button "Check for updates"
- download the lastest version



7. VOLFONI LOADER - PARAMETERS

You can access to this part by clicking on "parameter" in the menu "edit" when your glasses are connected



3D Synchronisation :

- Normal : In this configuration the glasses will receive a normal 3D sync
- Inverted : In this configuration the glasses will receive a reverse 3D sync
- 2D Left : In this configuration the glasses will show the 2D image left
- 2D Right : In this configuration the glasses will show the 2D image right

RF Channels :

Choose which channels the glasses will receive on this switch position (you have to choose the same channel on your ActivHub RF50)

Dark Time :

Allows you to change the value of DarkTime. The slider allows you to adjust the value between -4000 microseconds (better luminosity) and 4000 microseconds (better contrast). The value applied is

inscribed above the slider (0 in this example)

Delta Sync (μs) :

Modify the sync offset (between -2000 and 2000 microseconds). Default = 0.I

8. IR COMPATIBILITY

The ActivEyes Pro glasses are compatible with all infra-red 3D sync protocols currently available:

KONKA®
ARCELIK®
SHARP®
SONY® (*)
PANASONIC® (*)
LG®
MITSUBISHI®
SAMSUNG® (*)
NuVisionXPAND® (unencrypted)
HI-SENSE®
NVIDIA® (including "light boost")

* Bluetooth® and Full HD3D™ not supported
New IR protocols entering the market will be available on the Volfoni website via software update. Please refer to part 6 of this user guide for updating the software of the ActivEyes

9. RF compatibility

Using your ActivEyes Pro in RF 3D mode : ActivMe Pro is compatible with ActivHub RF50. It's a proprietary signal.

9. TROUBLESHOOTING

PROBLEM	SOLUTION
The jack plug may not be all the way inserted in the ActiveMe Pro or in the glasses	Check the connection jack
The IR signal is not recognized	Check that your 3D system is emitting IR
The IR signal is obscured	Make sure ActivMe Pro is facing the IR emitter
The IR signal is scrambled by other sources like direct sunlight	Reduce external light
The ActivMe Pro battery is discharged	Plug the USB cable into a power source and try again
Your 3D display uses an IR protocol not compatible with Activeyes Pro	Check www.voltoni.com for update

10. SPECIFICATIONS

ActivEyes Pro	VPAE-02000	VPAE-01000
Lens technology	ECB liquid crystal	Hybrid ECB
Transmittance	35%	33%
Residual light	17%	16%
Contrast	200:1	200:1
Connector	4 points 2.5" jack	
Weight	29g	

ActivMe Pro (electronic driver) VPAE-03000

Receiver	IR and RF	
Connector	μUSB and 4-points 2.5" jack	
Power	Battery type	Lithium-ion
	Operating time	30 hours
Operating conditions	Operating	0° to 35° C
	Storage	-20° to 45° C
Relative humidity	5% to 95%	
Height	50 mm	
Width	41mm	
Depth	15mm	
Weight	21 g	

10. LED SIGNIFICANCE

- Flashing Green: Valid 3D signal detected
- Red: Battery recharge
- Flashing Green/Orange: Viewing 3D and recharging simultaneously

10. IMPORTANT SAFETY RECOMMENDATIONS

- The ActivEyes Pro 3D glasses are not suitable for wear when playing sports, driving vehicles, operating heavy machinery, or doing outdoor activities. It should not be used as sunglasses (no UV protection)
- If you are unsure about your vision, take a test to verify your ability to see stereoscopic 3D images.
- Do not sit too close to the screen when watching 3D images.
- Watching 3D may cause discomfort (such as eye strain, altered vision, fatigue, nausea, lightheadedness, dizziness, confusion, loss of awareness, convulsions, cramps and/or disorientation) for some people. Volfoni recommends that you take regular breaks when watching 3D content or playing 3D video games until the discomfort ends. If the discomfort persists, consult a doctor.
- Certain types of TV images or video games that contain flashing patterns of light may cause epilepsy symptoms for some viewers.

If you or any member of your family has a history of epilepsy, Volfoni strongly recommends that you consult a physician before the use of this product.

- Be aware of young children, especially those under six years old. Because their vision is still under development, consult a doctor (such as pediatrician or eye doctor) before allowing young children to watch 3D.
- Not for children's use without proper adult supervision.
- If the product is broken, please keep broken pieces away from mouth and eyes. Dispose of pieces responsibly.
- Do not use 3D glasses in dangerous areas (such as balconies and stairwells).

9. WARRANTY

Volfoni Group reserves the right to make changes in the hardware, packaging or other documentation without prior written notice. The ActivEyes Pro glasses are a trademark of Volfoni Group. All trademarks are the property of their respective companies.

The EDGETM VR are warrantied. Please refer to your order form to be aware of the warranty terms.

The system should be returned in its original box with original proof of purchase. Volfoni does not warrant uninterrupted or error-free operation of the product.

10. REGULATIONS

European Union - Disposal information :

This symbol means that according to local laws and regulations your product should be disposed of separately from household waste. When this product reaches the end of its life, take it to a collection point designated by local authorities. Some collection points accept products for free. The separate collection and recycling of your product at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.

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

11 . PRECAUTION FOR USE - 3D VIEWING GUIDE-LINES

- The 3D glasses need to synchronize by infrared rays. For this operation to work well, be aware of the following instructions:
 - The ActivMe Pro has to face the 3D Sync Transmitter.
 - Remove all objects placed between the 3D glasses and the 3D Sync Transmitter.
 - Other infrared communication devices or lighting equipment, residential heating equipment, etc..., may interfere with the synchronization.
 - Avoid watching 3D under fluorescent lamp (50-60HZ) or wavelength lamp. Sometimes this can cause a small amount of screen flickering.

14. CAUTION MAINTENANCE OF YOUR GLASSES

- Protect the 3D system from direct sunlight, heat, or water. Extreme conditions may alter the product's abilities.
- Do not drop or modify the electrical or mechanical components of the 3D system.
- Do not apply force to the lenses of the 3D system.
- Do not bend the product.
- Use a clean soft cloth when cleaning the 3D glasses to avoid scratching, especially on the lens surface.
- Always transport your 3D glasses in a rigid case to avoid scratching the lenses and to prevent the frames from breaking.
- Do not submerge the ActivEyes Pro glasses or the ActivMe Pro IR receiver in water.

11. MORE INFORMATION AND CONTACTS

For more information, please contact Volfoni.
support@volfoni.com
logistics@volfoni.com
www.volfoni.com

Distributed in France by VOLFONI SAS

29 rue Jean Jacques Rousseau 75001 Paris,
France

Distributed in Americas by VOLFONI Inc.

3450, Cahuenga Bd West, Unit 504, Los Angeles, CA90068, USA

Distributed in Germany by VOLFONI GmbH

Erzgießereistraße 38, 80335 München,
GERMANY

Distributed in Spain by VOLFONI Iberia, S.L.

4, Ronda Guglielmo Marconi, 46980 Paterna
(Valencia), Spain

Distributed in China by VOLFONI Ltd

2101, Tower One, Lippo Center, 89,
Queensway, Hong Kong