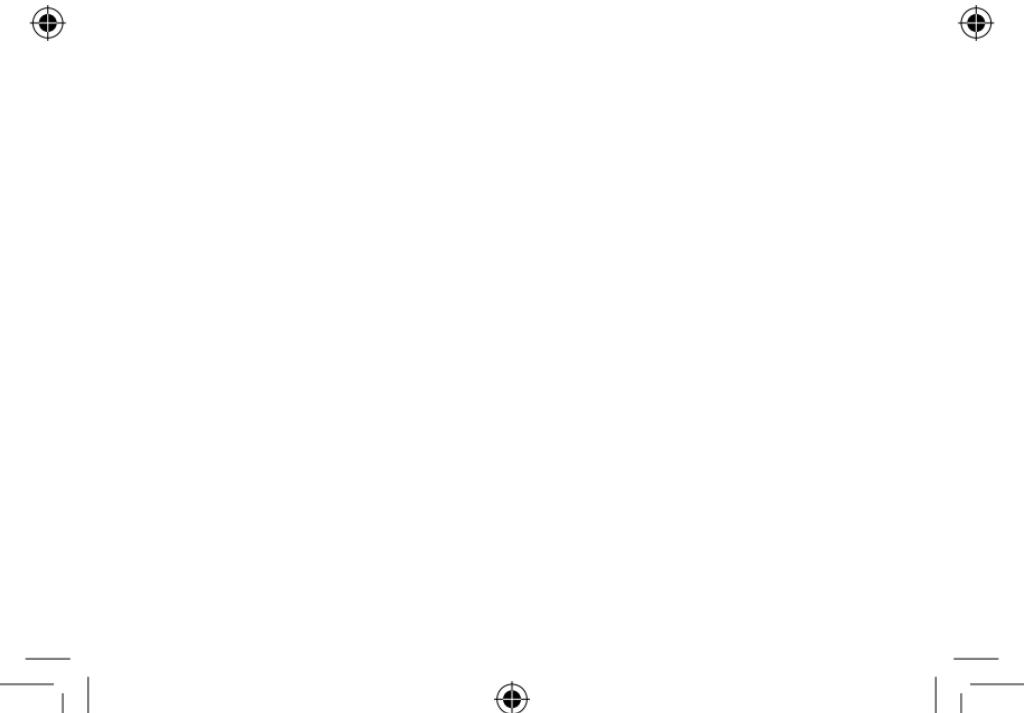# XPAND Light 3D Glasses (RF)

Model No. X105-RF-X1 (3D Glasses) and AD025-RF-X1 (RF-emitter)

User Guide

XPAND**3D**™
BEYOND IMAGINATION

Glasses Overview

(1) Button (ON, OFF, Pairing) – located at the inner side of right earpiece.
(2) LED – located at the outer side of right earpiece, near earpiece hinge.

Turning ON Your Glasses

» Shortly press button once.
» Red LED will ramp from off to bright.
» If glasses cannot find 3D host within few seconds LED will ramp from bright to off and glasses will automatically shut down. If glasses find the host they will automatically connect to it, indicating by lit LED for 1 second.

Turning OFF Your Glasses

» Shortly press button once.
» Red LED will ramp from bright to off.
» Glasses will shut down.

Proximity Association with 3D RF Host

This procedure shall be done every time the glasses are introduced to new RF (radio frequency like for example Bluetooth®) 3D host. During the proximity association, 3D glasses shall be located within 1m from 3D RF host (3D TV, Emitter…).

» Switch on the glasses (1 short press).
» LED will ramp from off to bright, indicating glasses power on.
» Press button for minimum of 1 second.
» After 1 second, LED will start to blink with a rate of 1 blink per 2 seconds.
» Release the button.
» Successful proximity association is indicated with 6 short LED blinks.
» If glasses could not proximity associate LED will ramp from bright to off and glasses will go in power off state.

Connecting Glasses to 3D RF Host

Once glasses are associated with host, they will automatically connect to that host every time they are switched on. If during the operation glasses lost the connection to host, they will automatically try to reconnect to that host (LED is blinking with a rate of 1 blink per 2 seconds). If glasses cannot successfully reconnect to host within 60 seconds LED will ramp from bright to off and glasses will automatically go in power off state.

Set Glasses to operate in Dual View Mode

With the selection of Dual View Mode XPAND 3D Glasses Lite can be used for dual gaming. Dual View Mode can be used during normal 3D viewing as well to disable 3D viewing for people that face uncomfortable feeling when watching 3D.

When 3D device is emitting dual view sync signal, double click on the button (see 1 in Glasses Overview) to change Dual View Mode between player 1 and player 2.

Not all 3D devices support dual view sync signal. When the 3D device is emitting normal 3D sync signal, double click on the button (see 1 in Glasses Overview) to change between player 1, player 2 and normal 3D viewing mode.

When double click is detected, LED light (see 2 in Glasses Overview) indicates the eyewear mode:

Player 1: One Quick Blink
Player 2: Two Quick Blinks
Normal 3D*: One Long Blink
*Accessible only if the 3D device is not emitting dual view sync.

Indicating the Battery State

» If LED flashes every couple of seconds during the operation, battery level is low.
» Charging is indicated with lit LED.

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Charging the Battery

To charge the glasses, plug the micro USB cable in computer or other USB device capable of supplying power. LED will remain lit while glasses are charging. When battery is fully charged LED will go off.

Technical Specifications

3D Technology: Active Shutter Glasses
Lens type: LCD, TN cell
Sync Method: RF
Refresh: 96 Hz to 144 Hz
Temperature: 5 – 45° C
Battery Life: more than 100 hours (for RF models)
Battery Type: Rechargeable Lithium-ion Polymer cell

Frame Specifications

Lens Size: 2,2" diagonal (58 mm)
Weight: 1.9 oz (39,3 g)
Dimensions (W x H x D): 6.7" x 1.6" x 6.5" (170 mm x 40 mm x 165mm)
Frame Colour: Black

RF Emitter Overview

(Applies to **XPAND Glasses Lite RF with RF Emitter** kit with Emitter included in the package)

(1) Standard VESA connector
(2) LED Red light indicator (in the shape of an X)

Using with 3D TVs

1. Connect the emitter connector to the corresponding VESA stereo connector in the TV or projector.

2. Once the emitter is connected to the TV/projector, please make sure that the TV/projector is in 3D mode. Check the X sign on the emitter; the red light should be on, indicating that the emitter is functioning.

3. For maximum range emitter should not be placed on the ground/floor but should be placed at least 10cm above ground (like on a shelf).

The emitter does not require a battery.

Troubleshooting

The emitter is connected but the glasses still do not work: Please make sure that your glasses are turned ON and that your TV/projector is in 3D mode. If problem persists try unplugging the emitter for a couple of seconds and then plug it back in the corresponding VESA stereo connector in the TV/projector.

Technical Specifications

Weight: 2.72 oz (77 g)

Power Supply: via standard stereoscopic VESA connector

Operating Temperature: 5 °C (41 °F) – 40 °C (104 °F)

⚠ ATTENTION – Consult Accompanying Documentation

Important Safety Instructions

» Read these instructions.
» Keep these instructions.
» Heed all warnings.
» Follow all instructions.
» Do not use this apparatus near water.
» Clean only with dry cloth.
» Only use the attachments/accessories specified by the manufacturer.

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Battery

⚠️ The 3D Glasses Battery is not user replaceable.

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

Viewers need to refer to the recommendations described below.

» Stop watching moving images, if you have any symptoms of headache, dizziness, nausea, malaise and any uncomfortable feelings that might be caused by the images. It is advisable to take a break for 5 min to 15 min every hour, even if the symptoms are not experienced.
» Make the viewing conditions comfortable by:
   • adjusting the illumination, sound and air conditioning in the room;
   • adjusting the height of the chair and desk to suit your physique;
   • adjusting the brightness, focus or any other parameters of your display terminal or operating devices.
» Guardians are encouraged to protect their children's health by controlling viewing conditions.
» Avoid unnecessary fatigue caused by overwork or lack of sleep, before watching visual products.
» When watching stereoscopic images, do not incline your head relative to the horizontal direction of the images.
» Stop watching stereoscopic images if you notice double images. It is important that display devices be adjusted appropriately.
» The recommendations described in this list may apply to some visual products more than others.

Regulatory Compliance Statements

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

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

Hereby X6D Limited declares that the X105-RF-X1 (3D Glasses) and AD025-RF-X1 (RF-emitter) are in compliance with the essential requirements and other relevant provisions of the Directive 1999/5/EC. The declaration of conformity may be consulted at http://www.xpand.me/products/xpand-3d-glasses-lite/declaration-of-conformity/

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Technical Support

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

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