3D
CATALOGUE
BY XPAND

3D Catalogue

XPAND - Advancing the Art & Science of Multidimensional Imaging

The global leader in the 3D market, XPAND 3D is synonym for state-of-the-art 3D technology and at the same time the leading force behind the trend of standardization of 3D protocols and services. In striving for universal solutions, XPAND is capable of bringing the 3D to every aspect of digital life: 3D cinema as well as home 3D entertainment, professional environment, education, medicine and other fields, where replicating or imagining worlds in 3D is needed.

XPAND 3D not only designs, manufactures and OEMs a range of consumer electronics 3D solutions, but also licenses 3D technology to third parties.

XPAND is the right choice if you are looking for expanding your cinema or multiplex to be ready for crisp and immaculate 3D. XPAND 3D Cinema System, adopted by more than 5.000 cinemas worldwide, is a flexible, cost-effective solution and doesn't require silver screen.

XPAND offers several unique 3D systems and platforms, having partnered with hundreds of exhibitors, studio groups, filmmakers, consumer technologies and industry professionals who continue to enjoy a distinctive choice in 3D. Based on a philosophy that 3D has become mainstream entertainment with infinite possibilities, XPAND has become a recognized brand for the most superior stereoscopic image delivery.

XPAND is official 3D technology partner for series of film festivals, including Cannes Film Festival, Venice Film Festival, San Sebastian Film festival etc.

FESTIVAL DE CANNES
Technical Partner

The Benefits of Adopting XPAND

- Superior Quality Active 3D Technology
- Fully Immersive Studio Endorsed 3D Delivery System
- No Silver Screen Requirement
- Large Formats up to 20 meters and beyond
- Rapid Transition from 2D to 3D
- Auditorium Transfer within Minutes
- Flexibility with Traveling & Mobile Exhibition
- Streamline Installation
- Competitive Pricing
- Global Network
- all XPAND's products are HFR ready!

All XPAND 3D Products Are HFR Ready!

Pirates of the Caribbean: On Stranger Tides Premiere in Disneyland (May 2011) was powered by XPAND Infinity 3D System along with X101 Cinema 3D Glasses. It was first ever open air movie premiere and great success both for Disney and XPAND.
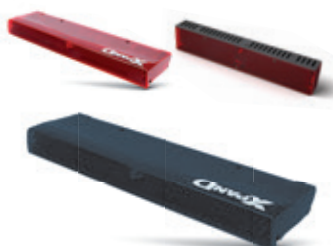
Recommended XPAND systems and products for 3D Cinema

- **XPAND Cinema 3D Glasses (Model No. X101)** are the most popular Active Shutter Glasses in the world, being used in more than 5.000 cinemas around the Globe.
- **XPAND Small-sized Cinema 3D Glasses (Model No. X1031)** are made to fit the heads of the youngest cinema audience. Much lighter in weight they make child's experience in 3D an enjoyable event!
- **XPAND Infinity 3D Glasses (Model No. X103-C3):** We took our signature product Cinema 3D Glasses and made it even better. XPAND Infinity 3D Glasses are the next level of cinema 3D glasses. Lighter in weight the Infinity 3D glasses have improved brightness and viewing angle and are an ideal choice for VIP cinema experience.
- **XPAND Pi Cinema 3D Glasses (Model No. X103-CP3):** these glasses continue the tradition of ultimate 3D performance found in XPAND's legendary X101 Cinema 3D Glasses, but with lighter weight, improved ergonomic design, standard CR2032 battery and extended battery life!
- **XPAND 3D Cinema Systems:** XPAND has developed a series of different 3D Systems for different needs of cinema exhibitors and other applications (professional, corporate, educational etc.). These systems are based on different emitters that are able of covering different sizes of space:
  - **XPAND ONE Kit, XPAND TWO Kit** and **XPAND FOUR Kit** are designed to fit the needs of regular sized and big movie theaters. It's fully immersive studio endorsed 3D delivery system.
  - **Custom Systems:** Our product range includes more powerful systems for larger venues, covering up to thousand of seats. XPAND provides special solutions for non-standard venues.

NEW

- **XPAND Passive 3D Cinema:** Creating Cinema Solutions for all 3D Experiences, XPAND now offers active and also **passive 3D systems** (check product line at the end of this catalogue)

Accessories and Other related products

- 3D Glasses Trolley
- X-Wipes
- X-Batteries (for X101)
- Standard Ear Pieces
- Small Ear Pieces
- Nose Pieces

XPAND Cinema Emitters

XPAND Cinema 3D Glasses (X101)

XPAND Infinity™ 3D Glasses (X103-C3)
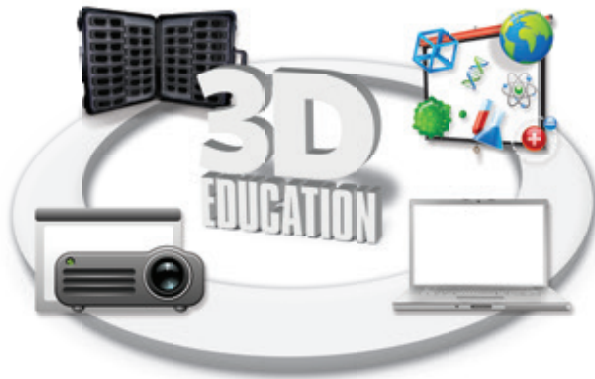
XPAND Small-sized Cinema 3D Glasses (X1031)   XPAND Pi Cinema 3D Glasses (X103-CP3)

XPAND
BEYOND IMAGINATION

3D

From elementary schools to institutes of higher learning and beyond, education is a critical determinant of quality of life. The world's teachers work tirelessly to keep students focused on learning by coupling comprehensive lesson plans with interactive technologies to keep students involved and attentive. Today, we meet the versatile visualization demands for ease of use, brightness and network access to provide educational, interactive and fun lesson plans to mold the minds of all students, no matter what age. Fully integrated 3D systems have **unlimited educational opportunity**.

Application areas:

- School classrooms
- Higher Education
- Engineering Departments
- Theatre
- Film School
- Computer Lab
- Planetariums
- Houses of worship
- Conference rooms
- Conference centers
- Hotels

Advantages of XPAND for 3D Education

XPAND 3D glasses are known as the most rugged and durable 3D glasses, being engineered to withstand repeated use as well as provide the best distances and range giving you the very best 3D view possible.

XPAND 3D offers a variety of 3D glasses features: multiple battery types (CR2032, proprietary battery for washing, rechargeable) and also offers communication across multiple platforms; such as, DLP, Infrared (IR) and Radio Frequency (RF) technology.

This flexibility allows schools to choose XPAND 3D glasses that work with LCD projectors, plasma and LCD televisions, etc. depending on the school's preferred medium of viewing 3D.

If you are a teacher you may have already heard about the benefits of 3D education:

- 3D brings **excitement** to learning;
- 3D lessons are **captivating and engaging;**
- **Abstract subjects become tangible** for students;
- Understanding of complex ideas **improves**;
- Knowledge **retention increases**;
- 3D **increases average score** with tests.

Comparing two groups of children, one taking 2D and the other a 3D lesson, researchers have come upon amazing results. The lesson, which normally requires two to three class periods to complete, was taught in just one class period. The test results were astounding: in the first classroom (normal lesson), the control group test scores increased 9.7 percent.

But the group that received its lesson in 3D saw a 35 percent increase!

At XPAND 3D, we realize that the art and science of teaching requires the application of both art and science! It's for this reason we developed a complete 3D education ecosystem that includes our award-winning 3D glasses with teacher-inspired content, 3D ready projector and playback systems from proven leaders in education technologies.

Recommended XPAND products for 3D Education

- **XPAND 3D Glasses Lite IR** and **XPAND 3D Glasses Lite RF** are high quality active 3D glasses, that enable you to watch 3D on any display device that uses **either Infrared (IR) or Radio Frequency** (for example Bluetooth®) Synchronization.

- **XPAND Edux 3 3D Glasses (DLP®-Link)** use **DLP®-Link 3D synchronization** and are compatible with all 3D DLP projectors.

- **XPAND 3D EDU Content:** Using these 3D simulations will enhance the learning experience by providing the students with a clear and complete visualization of difficult concepts. The instructors will benefit by having access to a technologically advanced, fully interactive teaching tool, which will grab and retain the students' attention creating a more conducive learning environment for ALL students.

- **XPAND White Flash Converter:** is a small interface unit, upon which any type of 3D sync signal emitter and even XPAND passive modulators can be connected. With XPAND White Flash Converter it is possible to use IR or RF external 3D emitters as well as XPAND passive 3D system with DLP® Link™ projector.

- **XPAND 3D Educational Systems:** XPAND has developed a series of different 3D Systems for education. Depending on customer's needs there are other bundles for edu available, for example: XPAND Lite Edu Kit, Educational package, XPAND Edu 3D Kit, XPAND ONE Kit, XPAND Two Kit, XPAND Four Kit.

- Software products:
    - XPAND 3D is the largest aggregator of **3D Educational content** creating a One-Stop-Shop for schools to be able to buy all their content from one simple location allowing you to rest assured that you are buying the right content for your specific needs. Please call or email for a list of available content and demo content.
    - **Presente3D Ribbon Bar Add-on for Microsoft PowerPoint®** is a great tool that enables you to set depth to every element in the slideshow and to embed 3D objects (like movies, pictures, models).
    - **XPAND 3D Stereoscopic Player:** XPAND Stereoscopic Player is a full-featured 3D movie player. Play stereoscopic movie files and 3D-DVDs, watch stereoscopic webcast as well as live images from your camera or TV card.
    - All XPAND software can be downloaded and tried at http://www.xpand.me/software/

- Other related products:
    - X-Wipes
    - Nose Piece
    - Standard Button Cell Battery CR2032

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Textbook courses, while offering substantial information, can only go so far when training the military's next pilot, the nation's greatest surgeon, or any other professional in a life-or-death-situation career. Visual, hands-on experience is required to turn this general knowledge into practical solutions, ensuring everything from lives to property are not lost or damaged. By simulating situations and potential crisis scenarios as accurately as possible, professionals can prepare for every aspect of their career, whether in flight, on water, with weapons or delicate surgical procedures.

Application areas:

- Flight simulation
- Ship-bridge simulation
- Driving simulation
- Air traffic control
- Operation simulation
- Virtual Reality
- Museums

Advantages of XPAND for this application

XPAND 3D's full-service 3D solutions, which include a complete line of active 3D glasses and 3D emitting capabilities offer users in the world of professional training a complete operation at a cost much less than intricate simulators. XPAND 3D also works to develop custom content for use in the professional realm. Our team will work with companies to design immersive, interactive 3D simulation that will provide those in various fields the optimum opportunities in preparation.

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3D

Recommended XPAND systems and products for 3D Pro

- **XPAND 3D Glasses Lite IR** and **XPAND 3D Glasses Lite RF** are high quality active 3D glasses, that enable you to watch 3D on any display device that uses **either Infrared (IR) or Radio Frequency** (for example Bluetooth®) synchronization.
- **XPAND Edux 3 3D Glasses (DLP®-Link™)** use **DLP®-Link 3D synchronization** and are compatible with all 3D DLP projectors.
- **Universal 3D Glasses:** The XPAND Universal 3D Glasses are the only glasses that can be used at home, in your office and in XPAND movie theaters — anywhere you go there is a 3D experience to remember.
- **YOUniversal 3D Electronic Eyewear:** The YOUNIVERSAL glasses put YOU in universal. No two people view 3D in the exact same way: XPAND electronic 3D eyewear comprehensively addresses the unique differences in people's vision, the viewing environment and selection of 3D devices, thus creating the ultimate 3D experience!
- **XPAND White Flash Converter** is a small interface unit, upon which any type of 3D sync signal emitter and even XPAND passive modulators can be connected. With XPAND White Flash Converter it is possible to **use IR or RF external 3D emitters as well as XPAND passive 3D system with DLP® Link™ projector**.
- **XPAND 3D Systems:** XPAND has developed a series of 3D Systems for different needs of different professional customers. These systems are based on different IR emitters that are able of covering different sizes of space:
    - **XPAND 3D Cluster** is a system of IR emitters, ideal for 3D Flex Walls, Cubes (3D Image displayed on the 4 walls), Caves (3D image displayed on the 3 walls) and 3D Domes.
    - Also available are other kits of 3D delivery systems like **XPAND QC Pro Kit, XPAND VIP Pro Kit, XPAND Lite Pro Kit, XPAND 3D Cluster, XPAND ONE Kit, XPAND Two Kit, XPAND Four Kit**. Different packages contain different IR or RF emitters and different numbers of 3D glasses - to reflect the different needs for different projects.
- Software products:
    - **Presente3D Ribbon Bar Add-on for Microsoft PowerPoint®** is a great tool that enables you to set depth to every element in the slideshow and to embed 3D objects (like movies, pictures, models).
    - **XPAND 3D Stereoscopic Player:** XPAND Stereoscopic Player is a full-featured 3D movie player. Play stereoscopic movie files and 3D-DVDs, watch stereoscopic webcast as well as live images from your camera or TV card.
    - All XPAND software can be downloaded and tried at http://www.xpand.me/software/
- Other related products:
    - X-Wipes
    - Nose Piece
    - Standard Button Cell Battery CR2032

With the growing popularity of 3D feature films across the globe, the demand for theater-quality in-home entertainment has blossomed. From 3D television broadcasts, video games and in-home recording devices to DVD and BluRay movies, the home entertainment system is becoming more complex, more inclusive of new formats and media and better integrated than ever before possible. This offers not only the best in entertainment, but also an equally impressive alternative to a family night out.

Advantages of XPAND 3D for this application

You've seen 3D cinema and now 3D is knocking on the door of your home. What kind of glasses should you use to see that soccer match in perfect quality? The answer is XPAND active 3D glasses. XPAND 3D brings professional-grade cinematic performance to the home because comes from the world of cinema. Working together with cinema projector manufacturers like Barco, Christie and NEC and other major companies such as Texas Instruments, Philips, Panasonic…, XPAND offers the easiest-to-use universal 3D glasses in the market.

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Recommended XPAND systems and products for Home 3D

- **XPAND 3D Glasses Lite IR** and **XPAND 3D Glasses Lite RF** are high quality active 3D glasses, that enable you to watch 3D on any display device that uses **either Infrared (IR) or Radio Frequency** (for example Bluetooth®) synchronization.

- **YOUniversal 3D Electronic Eyewear:** XPAND YOUniversal Electronic 3D Eyewear comprehensively addresses the unique differences in people's vision, the viewing environment and selection of 3D devices, thus creating the ultimate 3D experience! The eyewear is available in three sizes and colours (large blue and white, medium white and small in red and blue).

- **XPAND Infinity 3D Glasses Pro (Model No. X103-C1):** We took our signature product Cinema 3D Glasses and made it even better. XPAND Infinity 3D Glasses Pro are the next level of cinema 3D glasses. Lighter in weight the Infinity 3D glasses have improved brightness and viewing angle and are an ideal choice for VIP cinema experience.

- **XPAND Edux 3 3D Glasses (DLP®-Link)** use **DLP®-Link 3D synchronization** and are compatible with all 3D DLP projectors.

- **XPAND Small-sized Cinema 3D Glasses (Model No. X1031)** are made to fit the heads of the youngest cinema audience. Much lighter in weight they make child's experience in 3D an enjoyable event!

- **XPAND White Flash Converter** is a small interface unit, upon which any type of 3D sync signal emitter and even XPAND passive modulators can be connected. With XPAND White Flash Converter it is possible to use IR or RF external 3D emitters as well as XPAND passive 3D system with DLP® Link™ projector.

- **XPAND 3D Systems:** XPAND has developed a series of different 3D Systems for different needs of home cinema and VIP cinema users. These systems are based on different IR or RF emitters that are able of covering different sizes of space:
  - XPAND Lite Home Kit, XPAND QC Home Kit, XPAND VIP Home Kit, XPAND YOUniversal Kit, XPAND ONE Kit: these kits are simple packages of anything you need to set-up and run a small theater or home cinema in 3D. Different packages contain different IR and RF emitters and different numbers of 3D glasses – to reflect the different needs for different projects.

- Other related products:
  - X-Wipes

XPAND Small-sized Cinema 3D Glasses (X1031)

XPAND YOUniversal Electronic 3D Eyewear

XPAND ONE Emitter

XPAND Infinity™ 3D Glasses Pro (X103-C1)

XPAND Edux 3 3D Glasses (DLP Link)

XPAND AE125H Mid-range Emitter

XPAND 3D Glasses Lite IR / RF

XPAND RF Emitter

Product Lineup

XPAND Cinema 3D Glasses

cinema | edu

XPAND's Cinema 3D Glasses are the most popular Active Shutter Glasses in the world, being used in more than 5.000 cinemas around the Globe.

Frame Specifications

Lens Size: 2.2" diagonal (57mm)

Frame model: X101

Frame Colour: Red

Technical Specifications

3D Technology: Active Shutter Glasses

HFR: Yes

Lens type: LCD, Pi-cell

Sync Method: IR

Refresh: 96 - 240 Hz

Battery Life: 250 hours

Viewing Angle (contrast < 100:1): 20 degree

Temperature: 5 – 45℃

Switching Time: open 0,9 ms; close 0,2 ms

Lens Transparency: 35% +/- 1 %

Contrast: nominal 1:200

Supports: XPAND Cinema

All XPAND 3D Products Are
HFR Ready!

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XPAND Small-sized Cinema 3D Glasses

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XPAND Small-sized Cinema 3D Glasses are made to fit the heads of the youngest cinema audience. Much lighter in weight they make every moviegoer's experience in 3D an enjoyable event!

Frame Specifications

Weight: 1.4 oz (39 g)

Dimensions (W x H x D): 5.9 x 1.7 x 5.9" (150 x 44 x 152 mm)

Lens Size: 2" (50 mm) diagonal

Frame model: X1031

Frame colour: red with black ear handles

Technical Specifications

3D Technology: Active Shutter Glasses

HFR: Yes

Lens Type: LCD, TN

Sync Method: IR

Refresh: 96-240 Hz

Battery Type: CR2032 battery, 220mAh

3D Viewing Angle: 170 degree

Temperature: 5 - 45℃

All XPAND 3D Products Are **HFR Ready!**

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XPAND Edux 3 3D Glasses (DLP®-Link™ 3D Glasses)

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XPAND Edux 3 Series is designed for DLP®-Link™ communication between the glasses and TV/projector. Compared to first generation of XPAND Edux 3D Glasses, these are lighter in weight, more ergonomic and not waterproof, plus they are powered by standard CR2032 battery.

Frame Specifications

Lens size: 2.2" diagonal (57mm)

Weight: 1.9 oz (56 g)

Dimensions (W x H x D): 6.6" x 1.8" x 6.4"

Frame model: X103

Frame Colour: Black

Technical Specifications

3D Technology: Active Shutter Glasses

Lens Type: LCD, TN

Sync Method: DLP®-Link, White Light

Refresh: 96 Hz, 100 Hz, 120 Hz, 124 Hz, 144 Hz (For the XPAND Edux 3 3D Glasses produced prior to June 2013 the maximum refresh rate is 124 Hz. Glasses with 144 Hz refresh rate support have sticker with letter »H« on the inner side of the battery doors.)

Temperature: 5 - 45° C

Battery Life: 100 hours

Battery Type: CR2032 battery, 220mAh

XPAND Infinity 3D Glasses / Pro

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Frame Specifications

Lens size: 2.2" diagonal (57mm)

Weight: 1.9 oz (56 g)

Dimensions (W x H x D): 6.6" x 1.8" x 6.4"

Frame model: X103

Frame Colour: Red primary, Black optional as XPAND Infinity 3D Glasses Pro

Technical Specifications

3D Technology: Active Shutter Glasses

HFR: Yes

Lens Type: LCD, TN

Lens Transparency: 37%

Sync Method: IR

Refresh: 96 Hz to 240 Hz

Temperature: 5 - 45° C

Battery Life: Over 300 hours in triple flash mode

Battery Type: CR2032 battery, 220mAh

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XPAND Pi 3D Glasses

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3D Cinema Pi stereoscopic glasses. With standard battery. Non washable. SECURED

Frame Specifications

Lens size: 2.2" diagonal (57mm)

Weight: 1.9 oz (56 g)

Dimensions (W x H x D): 6.6" x 1.8" x 6.4"

Frame model: X103

Frame Colour: Red primary, Black optional

• All XPAND 3D Products Are •
HFR Ready!

Technical Specifications

3D Technology: Active Shutter Glasses

HFR: Yes

Lens type: LCD, Pi-cell

Sync Method: IR

Refresh: 96 - 240 Hz

Battery Life: 250 hours

Viewing Angle (contrast < 100:1): 20 degree

Temperature: 5 – 45℃

Switching Time: open 0,9 ms; close 0,2 ms

Residual Light: 35% +/- 1 %

Contrast: nominal 1:200

Supports: XPAND Cinema

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XPAND YOUniversal Electronic 3D Eyewear with RF Dongle

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YOUniversal, 3D stereoscopic glasses. With rechargeable battery. Non washable. SECURED. With RF Dongle.

Frame Specifications

Availability: 3 sizes (S, M & L)

Dimensions small:

- **width:** 139,7 mm (5.5 inches)
- **height:** 46,4 mm (1.83 inches)
- **length (folded earpieces):** 41,7 mm (1.64 inches)
- **length (open):** 154,7 mm (6.09 inches)
- **weight:** 46 grams (1.62 ounces)

Dimensions medium:

- **width:** 144 mm (5.67 inches)
- **height:** 42,3 mm (1.67 inches)
- **length (folded earpieces):** 41,5 mm (1.63 inches)
- **length (open):** 154,7 mm (6.09 inches)
- **weight:** 46 grams (1.62 ounces)

Dimensions large:

- **width:** 160,6 mm (6.32 inches)
- **height:** 45,8 mm (1.8 inches)
- **length (folded earpieces):** 41,9 mm (1.65 inches)
- **length (open):** 164,4 mm (6.47 inches)
- **weight:** 47 grams (1.66 ounces)

Frame model: X104

Frame Colour:

- **large:** blue, white
- **medium:** white
- **small:** red, blue

Technical Specifications

3D Technology: Active Shutter Glasses

Lens Type: LCD

Primary Sync Method: IR (infra-red)

Expandable Sync Method: Radio Frequency (via RF Dongle, sold separately as accessory or bundled with YOUniversal Electronic 3D Eyewear)

Battery Type: Rechargeable Lithium-ion Polymer cell

Typical Capacity of the Battery: 135 mAh

Weight of the Battery: 3.5 grams (0.12 ounces)

Dimensions of the Battery: 3.5 × 10 × 45 mm (0.14 × 0.39 × 1.77 inches)

Estimated operation time of the Battery (on one charge): 35 hours

Extensions (available as accessories): RF Dongle (Radio Frequency extension)

Color ◗ **Size** Ⓛ

Color ◗ **Size** Ⓛ

Color ◖ **Size** Ⓜ

Color ◖ **Size** Ⓢ

Color ◖ **Size** Ⓢ

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3D

XPAND 3D Glasses Lite

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XPAND 3D Glasses Lite IR (X105-IR-X1) and XPAND 3D Glasses Lite RF (X105-RF-X1) are high quality active 3D glasses, that enable you to watch 3D on any display device that uses **either Infrared (IR) or Radio Frequency** (for example Bluetooth®) Synchronization.

XPAND 3D Glasses are designed to have **a light, stylish and ergonomic frame** to ensure comfortable wear for everyone. Special adjustable nosepiece helps to ensure a better fit.

The **XPAND 3D Glasses Lite IR** are compatible with 3D devices that use IR 3D synchronization protocol, including XPAND equipped 3D cinemas1.

The **XPAND 3D Glasses Lite RF** are compatible with any 3D device bearing the logo of **Full HD 3D** and equipped with internal or external Radio Frequency (for example Bluetooth®) emitter2.

FULL HD 3D RF

For the extensive and up-to-date list of compatible devices for both models of XPAND 3D Glasses Lite please refer to http://www.xpand.me/compatible-devices

Technical Specifications

3D Technology: Active Shutter Glasses
Lens type: LCD, TN cell
Sync Method: Infrared (IR) or Radio Frequency (RF)
HFR: Yes
Shuttering Frequency: 96 Hz to 240 Hz
Temperature: 5 – 45° C
Battery Life: more than 40 hours (IR), more than 100 hours (RF)
Battery Type: Rechargeable Lithium-ion Polymer cell

Frame Specifications

Lens Size: 2,2" diagonal (58 mm)
Weight: 1.3 oz (37 g)
Dimensions (W x H x D): 6.7" x 1.6" x 6.5" (170 mm x 40 mm x 165 mm)
Frame Color: Black

All XPAND 3D Products Are **HFR Ready!**

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1 As of January 2013 IR (infrared) TVs are known to be all Sony, Philips, TCL, Sharp, active Toshiba models, as well as most Mitsubishi DLP TV models, Samsung models prior to 2011, and Panasonic models prior to 2012.
2 As of January 2013 RF/BT TVs are known to be: all Samsung 2011 and 2012 models, all Panasonic 2012 models, and some Mitsubishi DLP TV 2012 models.

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Infrared (IR) Mid-Range Emitter

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XPAND 3D Infrared (IR) Mid-Range Emitter (AE125H) generates the infrared signal that synchronizes the active 3D glasses with the digital projector or any other digital display device (projector or HDTV for example).

Nowadays the market is full of 3D ready TV sets - those have the IR emitters already built-in, but you may already own a HDTV that doesn't. This is where an external emitter like AE125H can come handy.

Compatible Glasses

AE125H supports XPAND Universal 3D Glasses, XPAND Infinity 3D Glasses, XPAND YOUniversal Electronic 3D Eyewear and XPAND 3D Glasses Lite IR.

Technical Specifications

HFR: Yes
Protection: Secured Protocol
Connector Type: Vesa
Diodes: 25°
Setup: AE125H must be aimed at screen and at the audience, if the screening room is very long
Coverage (maximum number of seats): 50
Power Supply: 110-240 V, power adapter included

All XPAND 3D Products Are HFR Ready!

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Radio Frequency (RF) Emitter

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XPAND 3D Radio Frequency (RF) Emitter (AD025-RF-X1) generates the Radio Frequency signal (for example Bluetooth®) that synchronizes the active 3D glasses with the digital display device (projector for example).

Compatible Glasses

XPAND YOUniversal Electronic 3D Eyewear with RF dongle (X104 + RF Dongle), XPAND 3D Glasses Lite RF, any FHD3D RF compatible glasses

Technical Specifications

Type of Synchronization: Radio Frequency (RF)
3D Synchronization Protocol In: Standard Mini DIN 3 (VESA) connector
3D Synchronization Protocol Out: FHD3D RF protocol
Shuttering Frequency: 48 Hz, 50 Hz, 60, 72, 96 and 120 Hz
Connector Type: VESA
Setup: Plug&Play
Coverage Range: 25 m radius typical, 10 m minimum (distance around the emitter)
Power: VESA powered, no external power supply needed
Weight: 76,5 g

XPAND Passive 3D Cinema

Creating Cinema Solutions for all 3D Experiences, XPAND now offers active and **passive** 3D systems.

Passive 3D Polarization Modulator

Having established a high quality product line for active 3D Experience, XPAND now offers Passive 3D Polarization Modulator for passive 3D cinema systems.

Passive 3D Polarization Modulator has been developed to fit requirements of passive 3D cinema:

- Bright, Low-ghost 3D
- Crisp, Sharp Image
- Heat-tolerant
- For 3D Screen Sizes up to ~ 58 ft
- Simple, Easy to Setup and Use
- No Moving Parts Low Cost/Maintenance
- Compatible with Standard Polarized 3D Glasses
- Patented, Future-proof

Technical Specifications

Aperture: 20 cm x 20 cm

Contrast: > 100:1

Efficiency: 15%

Operating speed: Upcoming **High Frame Rates** up to 240 Hz are supported.

XPAND Passive 3D Glasses

To complete the Passive 3D Cinema solution XPAND presents Passive 3D Glasses:

- High Quality
- Light in Weight
- Elegant Design
- Competitive Price
- Available in Two Sizes (large and small)

Technical Specifications

Large, Weight: 15,4 g (0.53 oz)

Large, Lens Diagonal Size: 54 mm (2.13")

Small, Weight: 8,7 g (0.28 oz)

Small, Lens Diagonal Size: 43,5 mm (1.70")

Polarizing Efficiency: > 99,5%

Transmittance: 40,5% +/-2%

XPAND White Flash Converter

DLP® Link™ is an excellent technology to use in the classroom, but when it comes to 3D, classrooms are sometimes just too big and the signal gets too weak in certain areas. To overcome this problem XPAND came up with a **simple** and **cost-effective solution**: XPAND White Flash Converter (WF-VC-1) is a small interface unit, upon which any type of 3D sync signal emitter and even XPAND passive modulators can be connected. With XPAND White Flash Converter it is possible to use **IR or RF external 3D emitters** as well as XPAND **passive 3D system** with DLP® Link™ projector.

Technical Specifications

3D Sync Protocol IN: DLP® Link™ compatible
3D Sync Protocol OUT: Standard Mini DIN 3 (VESA) connector
Supported Frame Rates: 48, 50, 60, 62, 72 Hz (96, 100, 120, 124 and 144 Hz field rate)
Coverage Range: Depends on the projector and screen used. In most cases > 10 m
Mounting Option:
- Rubberized legs for positioning on a flat surface
- Mounting socket for wall mount (supplied separately)

Power Supply: 12 VDC, 500 mA minimum

Dimensions: 115 × 76 × 36 mm, 125 g

XPAND 3D Cluster Emitter System

edu | pro

XPAND 3D Cluster Emitter System generates the **infrared** signal for 3D synchronization of active 3D glasses with the digital projector or any other digital display devices. The XPAND 3D Cluster (AE125-CH3) System is ideal for use with Flex Walls, 3D Cubes (3D Image displayed on the 4 walls), 3D Caves (3D image displayed on the 3 walls) and 3D Domes.

The System supports all XPAND active 3D glasses: XPAND Universal 3D Glasses, XPAND Infinity 3D Glasses, XPAND YOUniversal Electronic 3D Eyewear and XPAND 3D Glasses Lite IR.

The Product Pack Includes:

- 3 pcs: IR Emitter/ Distribution Module, Cluster, Encrypted
- 2 pcs: BNC(f) Three Way Splitter
- 1 pcs: Cable assembly, BNC to 3-pin mini-DIN
- 4 pcs: Cable Assembly, BNC(m) to BNC(m), 2m Length
- 3 pcs: Power Supply, AC-to-DC; 100-240VAC, 24VDC, 0.5A

XPAND
BEYOND IMAGINATION

3D

XPAND Anti Motion Sickness Glasses (Model. No X105-MS-1)

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).

What's Included:

- XPAND Anti Motion Sickness Glasses X105-MS-1 (1 piece)
- pouch (1 piece)
- USB charging cable (1 piece)
- user manual (1 piece)

Frame and Lens 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
Filter Category Number: Category 2
Number and year of this European Standard: EN 1836:2005+A1:2007

Systems and Bundles—Cinema

XPAND ONE Kit

XPAND 3D Small Auditorium Kit

- Small Auditorium, 125 seats and less,
- 1 x ADE1512H, IR Controller/Emitter,
- 1 x X-M210-25, Mount,
- 1 x AT100, IR Tester,
- 1 x 012-0026-00, Sync Cable for Module

XPAND Standard Kit

XPAND 3D Medium Auditorium Kit

- 125-450 Seats,
- 1 x AD1012H, IR Distribution Module,
- 1 x 012-0026-00, Sync. Module Cable,
- 1 x PS, Power Supply,
- 2 x AE 210, IR Emitters,
- 2 x X-M210-25, IR Emitter Mounts,
- 2 x 012-0025-00, Emitter Cable,
- 1 x AT100, IR Tester

XPAND Extra-Power Kit

XPAND 3D Large Auditorium Kit

- up to 800 Seats,
- 1 x AD1012H, IR Distribution Module,
- 1 x 012-0026-00, Sync. Module Cable,
- 1 x PS, Power Supply,
- 4 x AE 210, IR Emitters,
- 4 x X-M210-25, IR Emitter Mounts,
- 4 x 012-0025-00, Emitter Cable,
- 1 x AT100, IR Tester

All XPAND 3D Products Are HFR Ready!

Systems and Bundles—Edu

XPAND Lite Edu Kit

XPAND LITE Education Kit
- AD025-RF-X1 Radio Frequency (RF) Emitter
- 30 X105-RF XPAND 3D Glasses Lite RF

Educational package

XPAND Edu Case Package
- Includes 30 Edux 3 glasses and 1 X-Case-EDU

XPAND Edu 3D Kit

XPAND 3D IR Education Kit
- AE125H Emitter, Mid-Range, Wide Angle-25 degrees
- Cable assembly, BNC to 3-pin mini-DIN
- 20 X103-CP3 Inf Pi glasses

HFR ready

XPAND ONE Kit

XPAND 3D Small Auditorium Kit
- Small Auditorium, 100 seats and less,
- 1 x ADE1512H, IR Controller/Emitter,
- 1 x X-M210-25, Mount,
- 1 x AT100, IR Tester,
- 1 x 012-0026-00, Sync Cable for Module

HFR ready

XPAND Two Kit

XPAND 3D Medium Auditorium Kit
- Medium Auditorium,100-450 Seats,
- 1 x AD1012H, IR Distribution Module,
- 1 x 012-0026-00, Sync. Module Cable,
- 1 x PS, Power Supply,
- 2 x AE 210, IR Emitters,
- 2 x X-M210-25, IR Emitter Mounts,
- 2 x 012-0025-00, Emitter Cable,
- 1 x AT100, IR Tester

HFR ready

XPAND Four Kit

XPAND 3D Large Auditorium Kit
- Large auditorium, up to 800 Seats,
- 1 x AD1012H, IR Distribution Module,
- 1 x 012-0026-00, Sync. Module Cable,
- 1 x PS, Power Supply,
- 4 x AE 210, IR Emitters,
- 4 x X-M210-25, IR Emitter Mounts,
- 4 x 012-0025-00, Emitter Cable,
- 1 x AT100, IR Tester

HFR ready

XPAND
BEYOND IMAGINATION
3D

Systems and Bundles—Pro

XPAND QC Pro Kit

XPAND 3D Pro, QC

- AE125 Emitter, Mid-Range, Wide Angle-25 degrees
- Cable assembly, BNC to 3-pin mini-DIN
- 10 X103-C1 Infinity Pro glasses

XPAND VIP Pro Kit

XPAND 3D Pro, VIP

- AE125 Emitter, Mid-Range, Wide Angle-25 degrees, secured
- Cable assembly, BNC to 3-pin mini-DIN
- 5 YOUniversal Glasses X104 LX1

XPAND Lite Pro Kit

XPAND Lite Pro Kit

- AD025-RF-X1 Radio Frequency (RF) Emitter
- 10 X105-RF-X1 XPAND 3D Glasses Lite RF

XPAND 3D Cluster

AE125-CH3

- Midrange Emitter System, Three Wide Angle Emitters with Power Supplies and Cables

XPAND ONE Kit

XPAND 3D Small Auditorium Kit

- Small Auditorium, 125 seats and less,
- 1 x ADH1512, IR Controller/Emitter,
- 1 x X-M210-25, Mount,
- 1 x AT100, IR Tester,
- 1 x 012-0026-00, Sync Cable for Module

HFR ready

XPAND Two Kit

XPAND 3D Medium Auditorium Kit

- Medium Auditorium, 125-450 Seats,
- 1 x ADH1012, IR Distribution Module,
- 1 x 012-0026-00, Sync. Module Cable,
- 1 x PS, Power Supply,
- 2 x AE 210, IR Emitters,
- 2 x X-M210-25, IR Emitter Mounts,
- 2 x 012-0025-00, Emitter Cable,
- 1 x AT100, IR Tester

HFR ready

XPAND Four Kit

XPAND 3D Large Auditorium Kit

- Large auditorium, up to 800 Seats,
- 1 x ADH1012, IR Distribution Module,
- 1 x 012-0026-00, Sync. Module Cable,
- 1 x PS, Power Supply,
- 4 x AE 210, IR Emitters,
- 4 x X-M210-25, IR Emitter Mounts,
- 4 x 012-0025-00, Emitter Cable,
- 1 x AT100, IR Tester

HFR ready

All XPAND 3D Products Are **HFR Ready!**

XPAND
BEYOND IMAGINATION
3D

Systems and Bundles—Home Cinema

HFR Ready!
All XPAND 3D Products Are

XPAND Lite Home Kit

XPAND Lite Home Kit
- AD025-RF-X1 Radio Frequency (RF) Emitter
- 5 X105-RF-X1 XPAND 3D Glasses Lite RF

XPAND QC Home Kit

XPAND 3D QC Home Kit
- AE125H Emitter, Mid-Range, Wide Angle-25 degrees
- Cable assembly, BNC to 3-pin mini-DIN
- 10 X103-C1 Infinity Pro glasses

HFR ready

XPAND VIP Home Kit

XPAND 3D VIP Home Kit
- AE125H Emitter, Mid-Range, Wide Angle-25 degrees
- Cable assembly, BNC to 3-pin mini-DIN
- 5 YOUniversal Glasses X104 LX1

HFR ready

XPAND YOUniversal Kit

XPAND 3D YOUniversal Home Cinema Kit
- AE125H Emitter, Mid-Range, Wide Angle-25 degrees
- Cable assembly, BNC to 3-pin mini-DIN
- 10 YOUniversal IR + RF Glasses BX104 LX1

HFR ready

XPAND ONE Kit

XPAND 3D Small Home Auditorium Kit
- Small Auditorium, 120 seats and less,
- 1 x AD1512H, IR Controller/Emitter,
- 1 x X-M210-25, Mount,
- 1 x AT100, IR Tester,
- 1 x 012-0026-00, Sync Cable for Module

HFR ready

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3D

List of XPAND Accessories

RF Dongle
D104LX1 — RF Dongle for X104 glasses

USB recharging Hub
Hub for recharging — Hub for reacharging X104 YOUniversal glasses.

Active Glasses Tester
AT100 — IR tester

Emitter
AE210 — IR emitter

Emitter Mount
X-M210-25 — Emitter Mount, AE210, AE225

Cable Assembly
012-0012-00 — Cable Assembly, BNC(m) to DB9(m)

Cable Assembly
012-0016-00 — Cable Assembly, BNC(m) to BNC(m), 2m Length

Cable Assembly
012-0014-00 — Cable assembly, BNC to 3-pin mini-DIN

Cable Interface Assembly
012-0027-00 — Cable Interface Assembly, DB9-M to BNC-M and DB9-F, Active Buffer w/US Power Supply (Digital projection Titan cable)

Cable Interface Assembly
012-0028-00 — Cable Interface Assembly, Christie DB9(F) to DB9(F)-BNC(M) (Christie Mirage cable)

Cable Assembly
012-0029-00 — Cable Interface Assembly, DB9-M to BNC-M, w/Universal Power Supply

Cable Assembly
012-0026-00 — Cable assembly, DB37 pass-thru to DB9-F; AD1012H

Cable Assembly
012-0025-00 — Cable assembly, DB9-M to DB9-F; AE210

Power Supply
PSWX-0001-00 — AD1012H and ADE1512H power supply

Theatre Kit
Theatre kit — Including 1x 012-0026-00 distribution cable; 2x 012-0025-00 emiiter cables and 2x X-M210-25 mounting kits

XPAND 3D Glasses Case
X-Case-EDU — Heavy Duty Plastic Protective Case for Glasses Storage and Transportation

Standard Ear Pieces
HPGX-0023-00/HPGX-0024-00 — X101 standard arm kit (100 left or 100 right)

Standard Infinity Ear Pieces
0048-03/0049-03 — X103 Infinity standard arm kit (100 left or 100 right)

Small Ear Pieces
EP-X1031 — Ear pieces for XPAND IR 3D small-sized glasses (20pairs)

Small Nose Pieces
X-101-NP — X101 Nose pieces (box 1.000 pcs)

Nose Pieces
X-103-NP Infinity — X103 Nose pieces (box 1000 pcs; 500 S size, 500 L size)

Nose piece
X-Nose — X102 Nose piece (minimum order 20 pcs)

Battery door Infinity
0040-03 — Battery door for X103 cinema series glasses

Battery door small
BD-X1031 — Battery door for XPAND IR 3D small-sized glasses

Battery key
X101-key — Battery key

X-Batteries
050-BATTERY — X101 Round Battery Assembly with O-Ring including 2 battery keys (box 100 pcs)

CR2032 Batteries
PBXX-0002-00 — Battery for X103 Infinity glasses, 3V Lithium (CR2032) (box 300 pcs)

Red cover for ADE1510
HCX-0058-10 — Red cover for ADE1510

X-Wipes
X-Wipes — Antibacterial sanitizing & cleaning Wipes (box 1.000 pcs)

Presente3D Ribbon Bar Add-on for Microsoft PowerPoint®
Presente-R — Retail (1-9 licenses)

Presente3D Ribbon Bar Add-on for Microsoft PowerPoint®
Presente-S — SMB (10-99 licenses)

Presente3D Ribbon Bar Add-on for Microsoft PowerPoint®
Presente-E — Enterprise (100-1000 licenses)

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