



XPAND Medical Division

Medical Applications

About XPAND

- XPAND 3D is synonymous for state-of-the-art 3D technology.
 - Over 10,000 Cinemas in over 60 countries
 - Over 5,000 professional 3D installations worldwide
 - Invented the first universal 3D glasses
 - Founded FH3DG together with Samsung, Sony and Panasonic.
 - Powers 3D education in over 10,000 schools globally.
 - 3D OEM & Licensing to over 50 companies.

Some of XPAND's Licensees, Partners and OEM Customers include...



XPAND

- James Cameron with his wife – wearing XPAND glasses at Japanese Avatar premiere in 2009
- Transformers director Michael Bay (left) and actor / director George Clooney with XPAND in his private screening room.



XPAND



Oscar Becerra, the Technology Director of the Education Ministry – of Peru



Luiz Inácio Lula da Silva, former President of Brasil



Dmitry Medvedev, PM of Russia.



Ma Ying Jeou, President of Taiwan



Vladimir Putin, president of Russia.



Queen Elizabeth II

Cannes Film Festival – powered by XPAND

- Cannes 2009 opened with a 3D movie for the first time in history. Disney's animated film UP was presented on XPAND 3D Cinema System.
- XPAND has been the official 3D Technical partner of **Cannes and Venice Film Festivals** since 2009.



WHY MEDICAL????

WHY HERE???

WHY 3D??

WHY?

Amblyopia – “Lazy Eye”

- Neurofunctional disorder
- Present in 3%-5% of the population
- Affects 50% of children who need eyewear
- Current treatments are not good enough
- Market is thirsty for new solutions



Amblyz™

- The frequency of occlusion shown on the right is just illustration and does not reflect the actual frequency



AMBLYZ™

- 4% of children aged 3 to 8
- Parents love it (strong pull)
- Eye care professionals love it
- Requests for distribution from all over the world
- Availability – **Today.**



www.**AMBLYZ**.com

Motion Sickness Sunglasses

Electronic LCD glasses with additional UV sun protection filter and the ability to strobe. This solution is a drug free solution that can minimize motion sickness while acting as sunglasses. These glasses have only on / off mode (strobe / clear lens)

The glasses act as regular sunglasses and should be activated by the user with any motion sickness symptom. The treatment takes up to 10 minutes and can be repeated as needed.

Availability – May 2013



Dynamic protection sunglasses

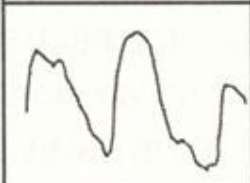
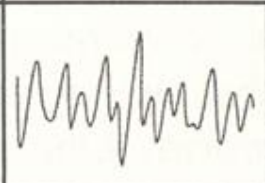
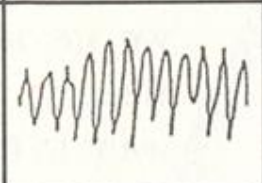





Electronic LCD glasses with additional UV sun protection filter. The glasses use light sensor in order to measure the light level and increase/decrease the "dark time" by changing the frequency of the strobes. The concept is very similar to welding masks. Designed for people with light sensitivity, people after cataract surgery etc.

Future Medical Applications

- **ADHD – The XPAND Solution**
 - High frequency repetitive visual stimulation
 - To attenuate hyperactive brain frequencies
 - Prototype devices assembled
 - Clinical tests to be initiated Q2 2013

cps = cycles per second, or Hertz

DELTA Less than 4 cps	THETA 4–8 cps	ALPHA 8–12 cps	SMR 12–15 cps	BETA 15–18 cps	HIGH BETA more than 19 cps
Sleep	Drowsy	Relaxed Focus	Relaxed Thought	Active Thinking	Excited
					

Future Medical Applications

- **Strabismus**

- Misalignment of eyes
- 3% of the population
- AMBLYZ based product, strong IP
- Initial supporting data has emerged from Amblyopia clinical experience
- More data is expected to emerge as AMBLYZ is being widely used
- Start sales Q3 2013





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