Creating New Vision with 3D Glasses

April. 2010



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1. CV of Rae Hwan, Lee

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CV of Rae Hwan, Lee



Company: Accupix Inc.

Name: Rae Hwan, Lee

Title: Director

◆ Over 22 years experiences in the area of audio / video, multimedia technology.

- ◆ Before joined Samsung Electronics, received BS degree in Electrical Engineering from ChungAng University Korea.
- ◆ During the work in Samsung Electronics (1985~1999), he is an expert on the field of playback disk media and has world top class level of technology as a chief Engineer.
 - Developed any kind of round shape things such as CDP, DVD, and CD-RW in the media technology fields.
- ◆ As a result of his experience in Samsung Electronics, found Reigncom (well known as iriver) as a Vice President (1999~2006) and to conquer the global MP3 markets which is a landmark in the history of the MP3 industry.
 Manage all the fields, such as, product planning, research and development, sales

and marketing, purchasing and procurement, production and etc.

CV of Rae Hwan, Lee



◆ Interested in educational, LED industry as well as 3D TV Glasses to expand business field.

Found atree Co., Ltd. (2006~), to participate in E-learning business such as manufacturing electronic dictionary devices and e-learning contents service business as well as LED with IT convergence products.

Established Wavesquare Inc. (2006~), to focus on LED business industry to expand his business more broadly.

Recently involved in 3D TV Glasses and Head Mounted Display (HMD) industry.

Awards

- Samsung Group Technology Award (Won 2 times awards)
 (Recognized within Samsung Group as an expert on Technology)
- IR52 Jang Young Shil Award (1994) by Korea Industrial Technology Association. (Honor and encourage outstanding accomplishments in technologically innovative activities of private companies)



2. 3D TV Market Size

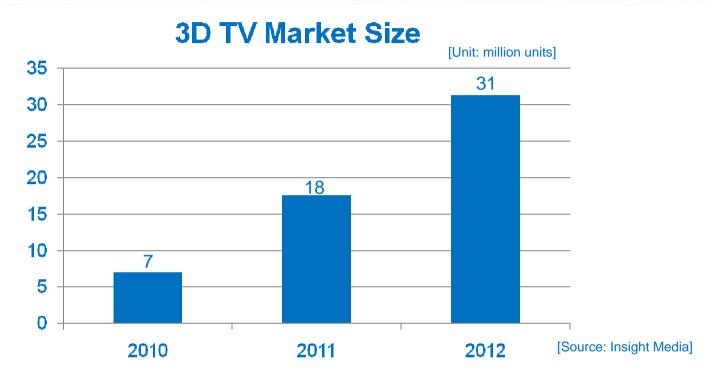
3D TV MARKET OVERVIEW IN KOREA



- Samsung Electronics released Shutter (Active) type LED 3D TV on Feb. 2010.
- LG Electronics released polarization (Passive) type LCD 3D TV on Aug. 2009 and Shutter (Active) type LED 3D TV on Mar. 2010.
- Public broadcasting, cable and Satellite broadcasting will air Full HD 3D TV on Oct. 2010 in Korea.
- Satellite broadcasting, SkyLife (Pay cable TV in Korea), launched 24 hours of 3D broadcasting on Jan. 1. 2010.

MARKET FORECAST

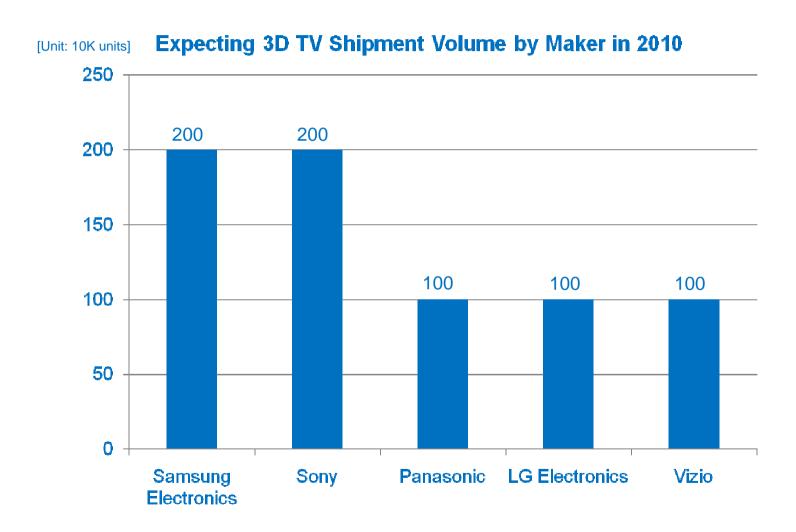




- Samsung Electronics: 2million units in 2010, 10million units in 2011.
- LG Electronics: 1million units in 2010, 4million units in 2011.
- Hana Daetoo Securities forecasts over 30million of 3D TV sell in 2011.
- Global 3D TV markets will grow from 7 million units (USD 8.8 billion) in 2010 to 18 million units (USD 20 billion) in 2011. [Source: Dec. 28. 2009 Seoul Economy]

MARKET FORECAST







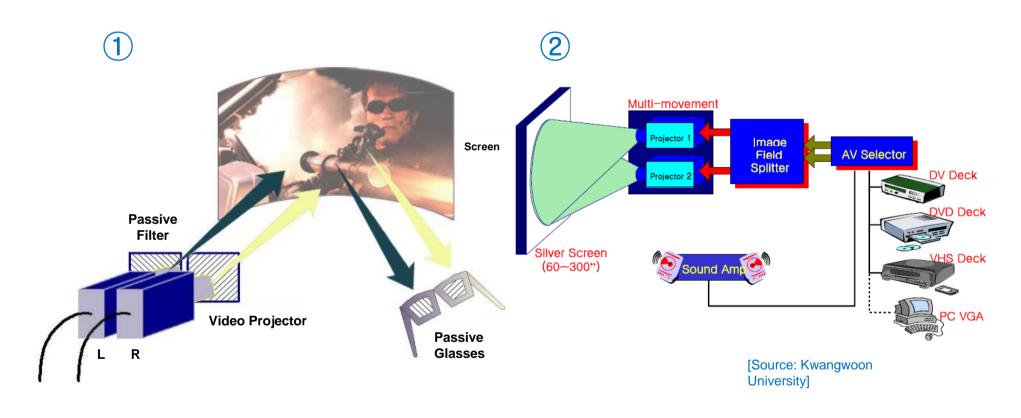
3. How 3D TV Glasses Works?

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3D GLASSES



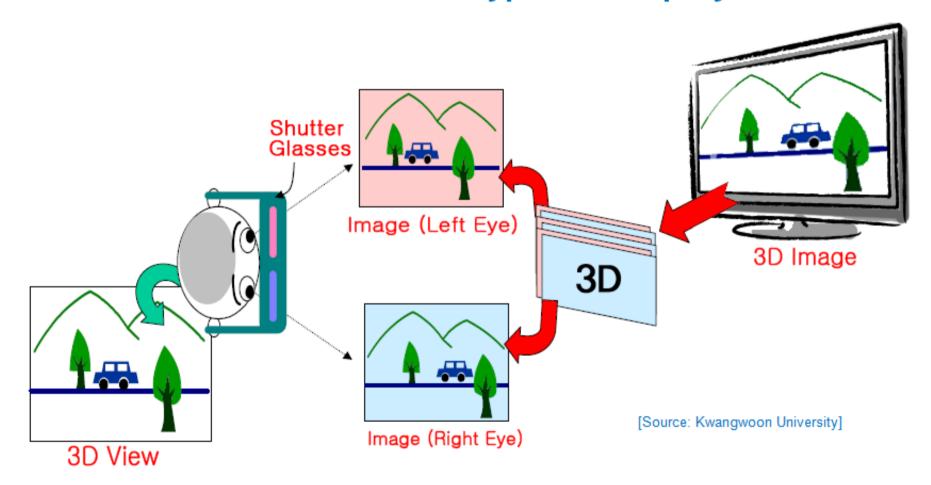
Passive Glasses type 3D Display



3D GLASSES



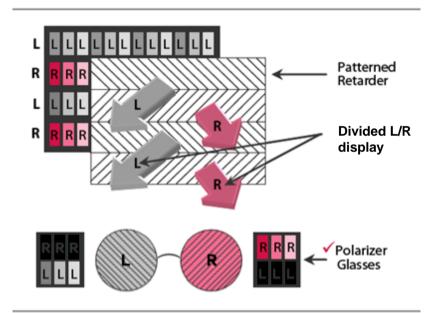
Shutter Glasses type 3D Display



3D GLASSES COMPARISON

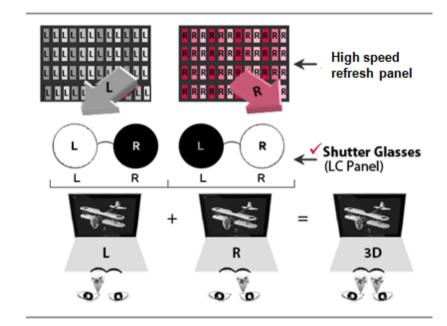
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- Passive Glasses -



Strength	Low cost (\$5~8) / Light weightHigh brightness (2D/3D)Good 3D cross talk
Weakness	Resolution & brightness decrease to halfNarrow 3D sightGlasses coadunate process needed

- Shutter Glasses -



Strength	 No brightness decrease Low cost for 3D panel No need glasses coadunate process 2D/3D panel co-use (240Hz)
Weakness	High cost (\$50) with IR / batteryNeed high response speedFlicker may occur by environment

[Source: Hana Daetoo Securities]

3D SHUTTER GLASSES



IR RX

3D Glasses

Display signal **Broadcasting** 3D display 3D TV Satellite **Broadcasting** 3D signal Cable **Broadcasting** 3D Emitter IR TX IP TV **Broadcasting**

Shutter Glasses type 3D Display with IR

THANK YOU!

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