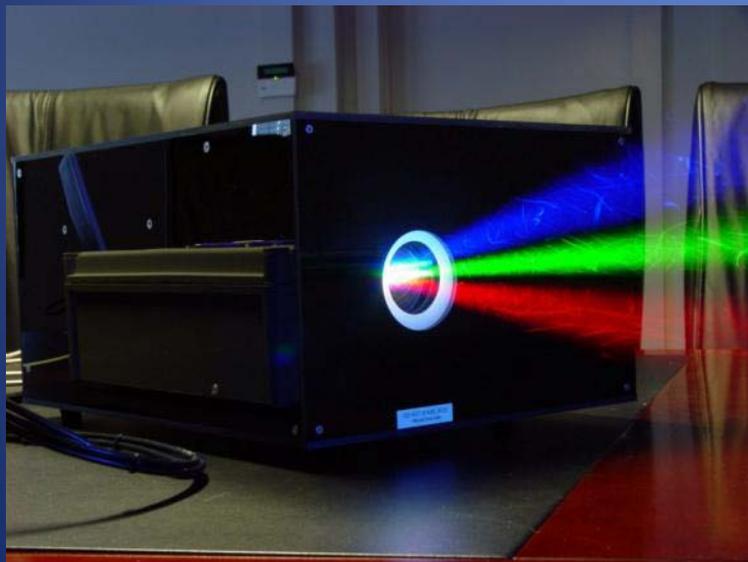


# HDI ™

LASER 3D-SCOPIC PROJECTION



# Current 3D Technology



- Anaglyph/Color-Code 3D releases on certain TV broadcasts and Blu-Ray.
- LCD and Plasma 3D displays above 80" will consume over 500 to 1,500 watts.
- Prices anticipated to be well over \$50,000 in this size category.
- Most TVs based on active shutter glasses of 60 to 120Hz alternating images per eye.
- Active glasses cost \$50 to \$150, require batteries and subject to unexpected breakdowns.
- Could generate another false start for 3D in the home and set industry back again.



Red/Blue Anaglyph /  
ColorCode 3D



Panasonic 103" 3D Plasma w/  
3D Shutter Glasses



Zero Creative 71" LCD  
No-glasses Lenticular

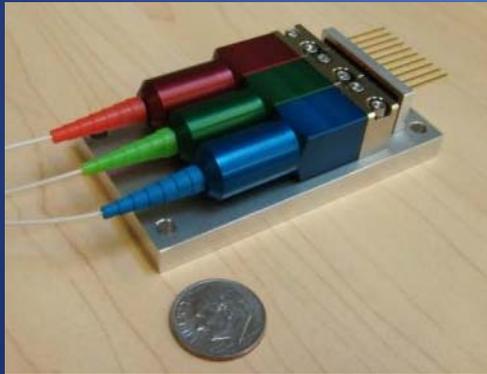


3D Micro-Pol Technology  
Passive glasses w/half res

# The HDI Difference



- COMFORT – L/R images delivered to both eyes simultaneously for smooth viewing.
- CLARITY – Dual 1920 x 1080p LCOS imagers at 360 color frames per second in 3D mode.
- COLOR – Superior color gamut by pure LASER wavelength illumination.
- COMPLIANCE – Less than 200 watts power consumption for 100"; meets CA 2013 EE Standards.
- COST – 60% lower street price than existing plasma televisions for 100" displays.
- CONSUMER AVAILABILITY – As early as 2010 and volume production ramping in 2011.



Efficient RGB Laser Sources



Dual 1080p LCOS Imagers



Extended Color Space

# HDI 3DTV Markets



- ENTERTAINMENT – 2D/3D High-end Home Theatre, Location Based Entertainment, 3D Video Gaming.
- ADVERTISING – Digital Signage, Kiosk Displays.
- EDUCATION/TRAINING – Medical/University Research, Stereo Microscopy, Molecular Modeling.
- GOVERNMENT/DEFENSE – Aerospace/Military, Flight Simulators, Geographic Info Systems (GIS).
- INDUSTRIAL/CAD/CAM – Virtual Prototyping, Mining/Oil Exploration, Engineering Construction.



3D Gaming w/Polarized Glasses



Digital Signage



Molecular Visualization

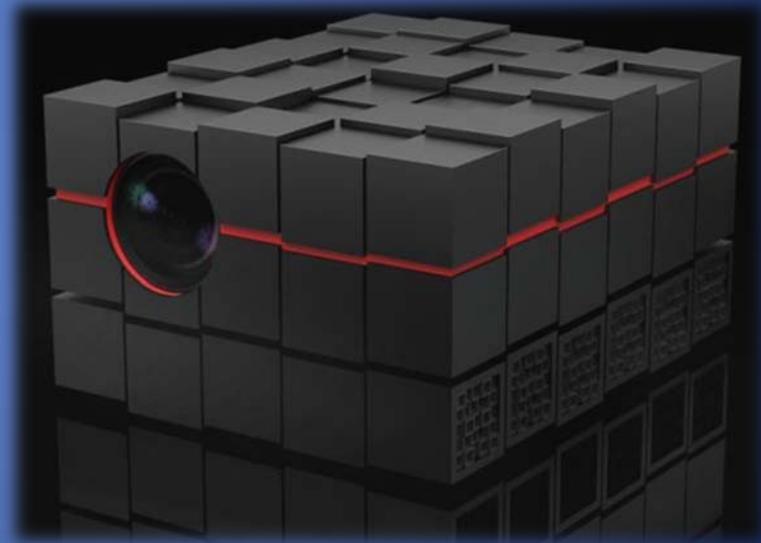
# HDI Products



- **100" HD Laser-3DTV** – Rear Prism Projection Technology, 10" deep Cabinet, Wall or Table Mount.
- **Laser 3D Front Projector** – RGB Fiber Coupled, >120" Screen Sizes, Circular Polarized, Scalable Lumens.

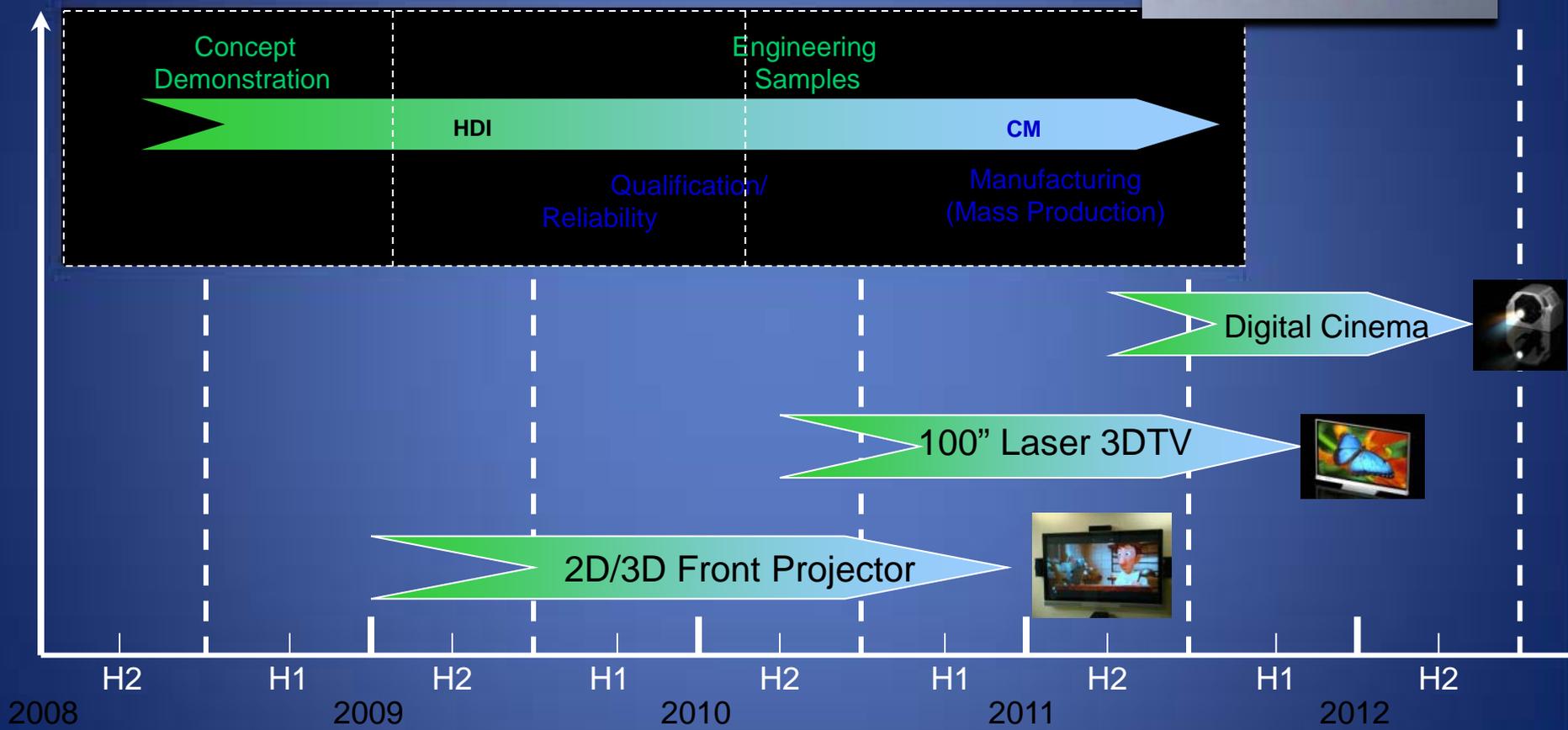


100" Laser 3DTV w/Phase Array Surround



HDI Laser 3D Front Projector

# HDI Product Roadmap



# HDI IP Summary



FILE DATE	PATENT TITLE
13-Feb-06	Methods and Systems for Multiple Primary Color Display
10-Jan-00	Method and Apparatus for Enhanced Performance Liquid Crystal Displays
20-May-03	Substrate Cell-Gap Compensation Apparatus and Method
2-Jul-07	Methods and Systems for Multiple Primary Color Display
1-Jul-07	Methods and Systems for Multiple Primary Color Display
30-Jan-98	Method and Apparatus for Forming Optical Gratings
4-Mar-98	Resonant Driver Apparatus and Method
14-Jan-03	Thin Cell Microdisplays with Optimum Optical Properties
3-Jul-08	Methods and System for Reducing Color Crosstalk in Single Panel Liquid Crystal Displays
27-Jun-08	Methods and System for Color Management in Display Systems
27-Jun-08	Methods and System for Brightness Enhancement in Displays
13-Nov-07	Anti-Speckling laser Rear-Projection Screen Structure and Methodology
24-Sep-08	Peripheral Projection Patent
16-Nov-06	Laser Projection Screen Structure
9-Feb-07	Methods and Systems of Pixel Illumination

Projection and LCoS Chip

Rear Prism Screen

Laser Illumination

# HDI IP Value



Technology	Source	\$ Invested in Development	IP Value
Microdisplay LCOS Chip	Microdisplay	\$50M	\$50M
RGB Laser Source	HDI	\$1M	\$2M
Optical Module	HDI	\$5M	\$50M

# Thanks!

