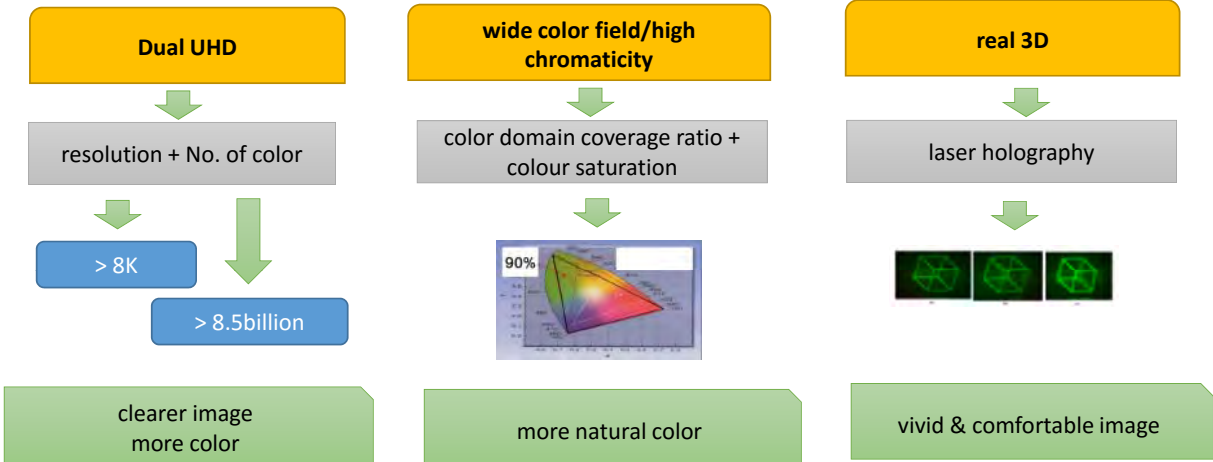


# Market and Technology of Laser Display System

2016.05

**Laser Display System is a better way to reproduce more vivid images to customer.**



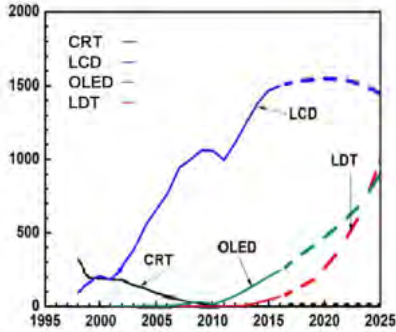
## □ Market of Laser Display System

□ Technology Trend

□ Needs for standards

□ Suggestions





In the next 10 years, laser display system will be widely used in high-end market.

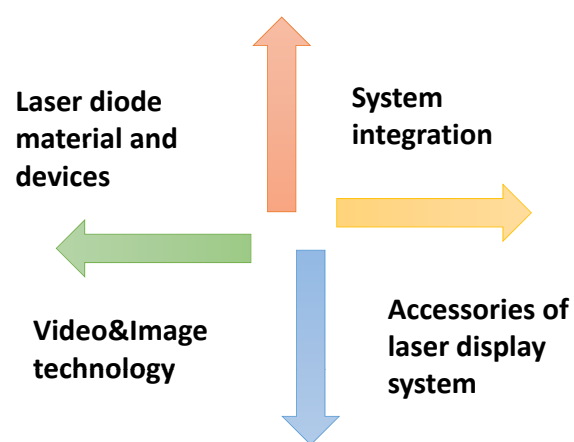
The data shown in this slide comes from Display Search (CRT/LCD/OLED) and Focus World (LDT) for the data before 2013. The data from 2016 to 2025 is based on the prediction from experts.



Number of Digital Cinema Projector all over the world (line A) vs in China (line B)

	2012	2013	2014	2015	2016	2017	2018	2019	2020
A	50000	65000	84500	97175	105,921	115,454	125,844	137,170	149,516
B	8000	10000	12500	15625	19531	24414	30518	38147	47684

- Market of Laser Television
- Technology Trend
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- Suggestions

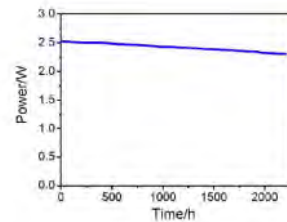
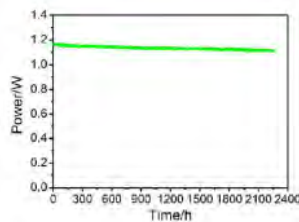
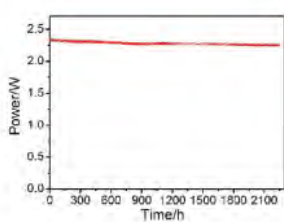


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Lifetimes Test Results for RGB Laser Modules

Test result of 3 group, each group has 10 models.  
For each group, the testing time is 2200 hrs.

There is no standard for testing method to evaluate the life of a laser display system, especially for laser television.

The same situation happens for evaluate the contrast of laser speckle.



Testing method to

- evaluate the image quality from the view of customer.
- evaluate the power consumption of the entire system.

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- Extend the scope of SS1, take consideration of new display equipment and system.
  - 3D display,
  - UHD TV,
  - Tiled screen
  - **+ laser television,**
  - **+ VR devices,**
  - etc.
- Any new topics or comments about leading display terminals will be highly welcomed in SS1.

- As for laser television, we suggest to start a survey among all members,
  - If there are any products on sale?
    - What are the types and brands?
  - Are there any regulations/standards for Laser CE products focused on safety , healthy and performance?
    - titles of these regulations/standards
    - List of key parameters.
  - Are there any existing standards on testing methods for laser display system
    - What kind of testing method is described?
  - Is there any potential needs for carry out further research in this topic?