JVC
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PRESS Release

VICTOR COMPANY OF JAPAN, LIMITED
1-7-1, SHINBASHI, MINATO-KU, TOKYO 105-0004, JAPAN
TELEPHONE : 03-3289-1458 TELEFAX : 03-3289-0376
URL: http://www.jvc.co.jp/english/

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# JVC Extends its Lineup of Proprietary D-ILA High-resolution Reflective Liquid Crystal Devices

**With three devices including 0.8-inch full HD spec version**

**Total of six devices, covering everything from 7.9 million pixel ultra-high definition displays and home theater rear projection television sets**

**Victor Company of Japan Ltd. (JVC) is pleased to announce the extension of its D-ILA* (Direct-Drive Image Light Amplifier) lineup with the development of three new devices. D-ILA is a proprietary high-resolution reflective liquid crystal device technology developed and used by JVC in its projectors. The three new units expand the range of offerings from high-definition applications to ordinary home theaters. The company proceeds development of new D-ILA projectors and rear projection television sets. It is also expanding its D-ILA device manufacturing with an eye to supply units to partner companies.**

JVC has developed three new D-ILA devices and the technology to mass-produce them:

(1) 1.7-inch diagonal 4K2K (approx. 7.9 million pixels: 3840 X 2048)

(2) 0.8-inch diagonal full HD (approx. 2.1 million pixels: 1920 x 1080)

(3) 0.7-inch diagonal 720 P (approx. 920,000 pixels: 1280 x 720)

These are in addition to the following three existing models:

(4) 1.3-inch diagonal QXGA (approx. 3.15 million pixels: 2048 x 1536)

(5) 0.7-inch diagonal SXGA+ (approx. 1.5 million pixels: 1400 x 1050)

(6) 0.9-inch diagonal SXGA (approx. 1.4 million pixels: 1365 x 1024).

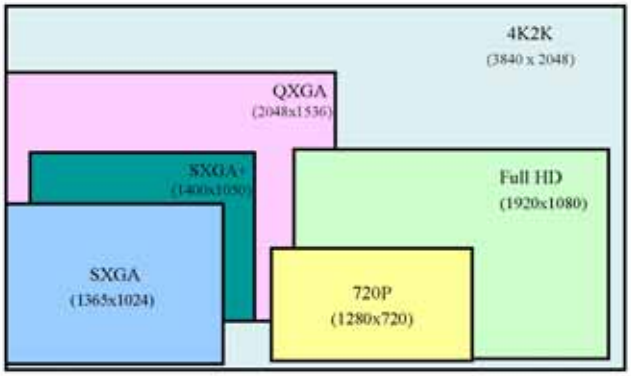
This lineup covers both professional and home applications.

**<Lineup JVC D-ILA devices >**

| | Device name | Display size (inch) | Pixels (H x V) | Aspect ratio | Major applications |
|---|---|---|---|---|---|
| NEW | 1. 1.7-inch 4K2K | 1.7 | 3840×2048 | 16:9 | Ultra high-definition video systems, simulation, etc. |
| | 2. 0.8-inch full HD | 0.8 | 1920×1080 | | High-end home theaters, wide-screen rear-projection TVs, etc. |
| | 3. 0.7-inch 720P | 0.7 | 1280×720 | | Rear-projection TVs, home theaters, amusement, etc. |
| EXSISTING | 4. 1.3-inch QXGA | 1.3 | 2048×1536 | 4:3 | Digital cinema, simulation, exhibitions, etc. |
| | 5. 0.7-inch SXGA+ | 0.7 | 1400×1050 | | Presentations, AV theaters, etc. |
| | 6. 0.9-inch SXGA | 0.9 | 1365×1024 | | Presentations, CG monitors, etc. |

**JVC and D-ILA**

D-ILA is a high-performance liquid crystal device technology developed by JVC that achieves high levels of both brightness and resolution in projector applications. It is a leading example of a reflective liquid crystal device, considered to be key to the next generation of projection systems. JVC successfully developed its SXGA (1.3 million pixels) version in October 1997 and launched its first D-ILA projector on the market at the end of the year. It has mass-produced devices for high-end projectors ever since.




**<Resolution images of devices>**

**<Features and superiority of D-ILA technology>**

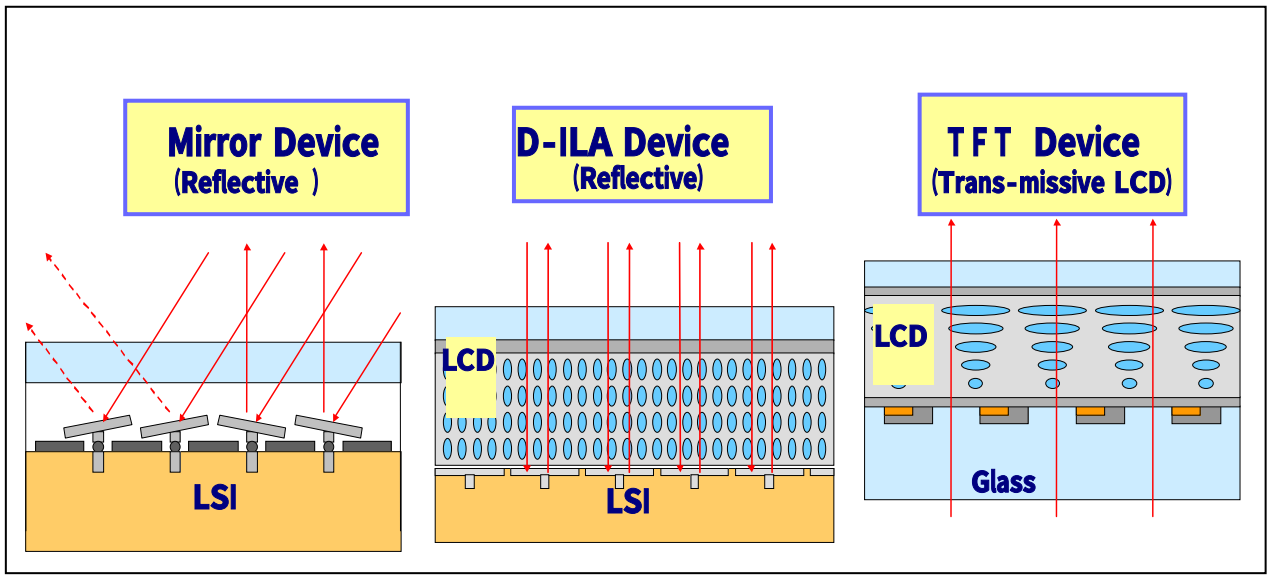
(1) Three-dimensional array of pixel addresses and liquid crystals for high aperture ratio expression (aperture ratio of 94% for 1.3-inch QXGA and 0.9-inch SXGA).

(2) Vertical alignment of liquid crystal layers to achieve high contrast and high-speed response. Smooth movements, which respond to natural movements of videos and fine levels of graduation to achieve high-resolution and high-definition images. This high contrast delivers a clear and film-like picture with "true black" quality and faithful reproduction of black gradation.

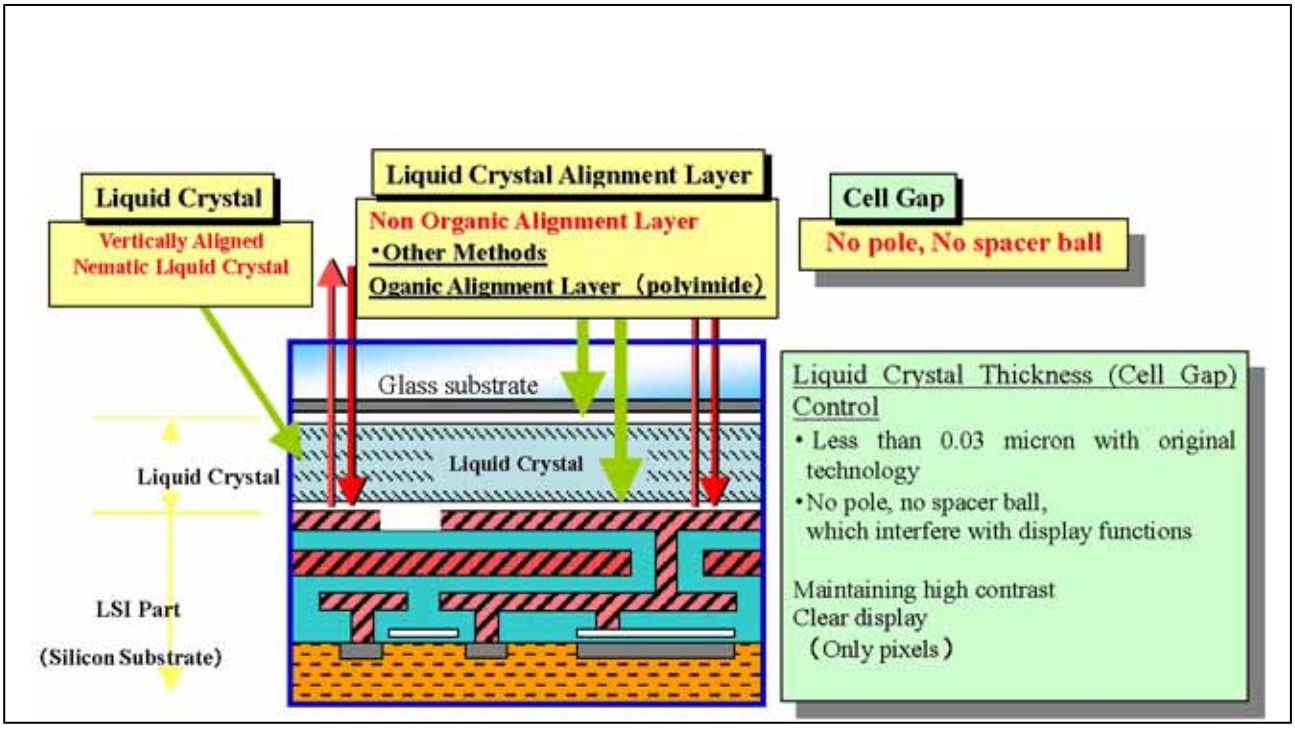
(3) Highest density device currently available as a micro display device: highest resolution for the same size and smallest size for the same resolution.

(4) Non-organic alignment layer to achieve high reliability and long life, making the devices suitable for both home television sets and for extended-operation systems such as monitors and simulators.

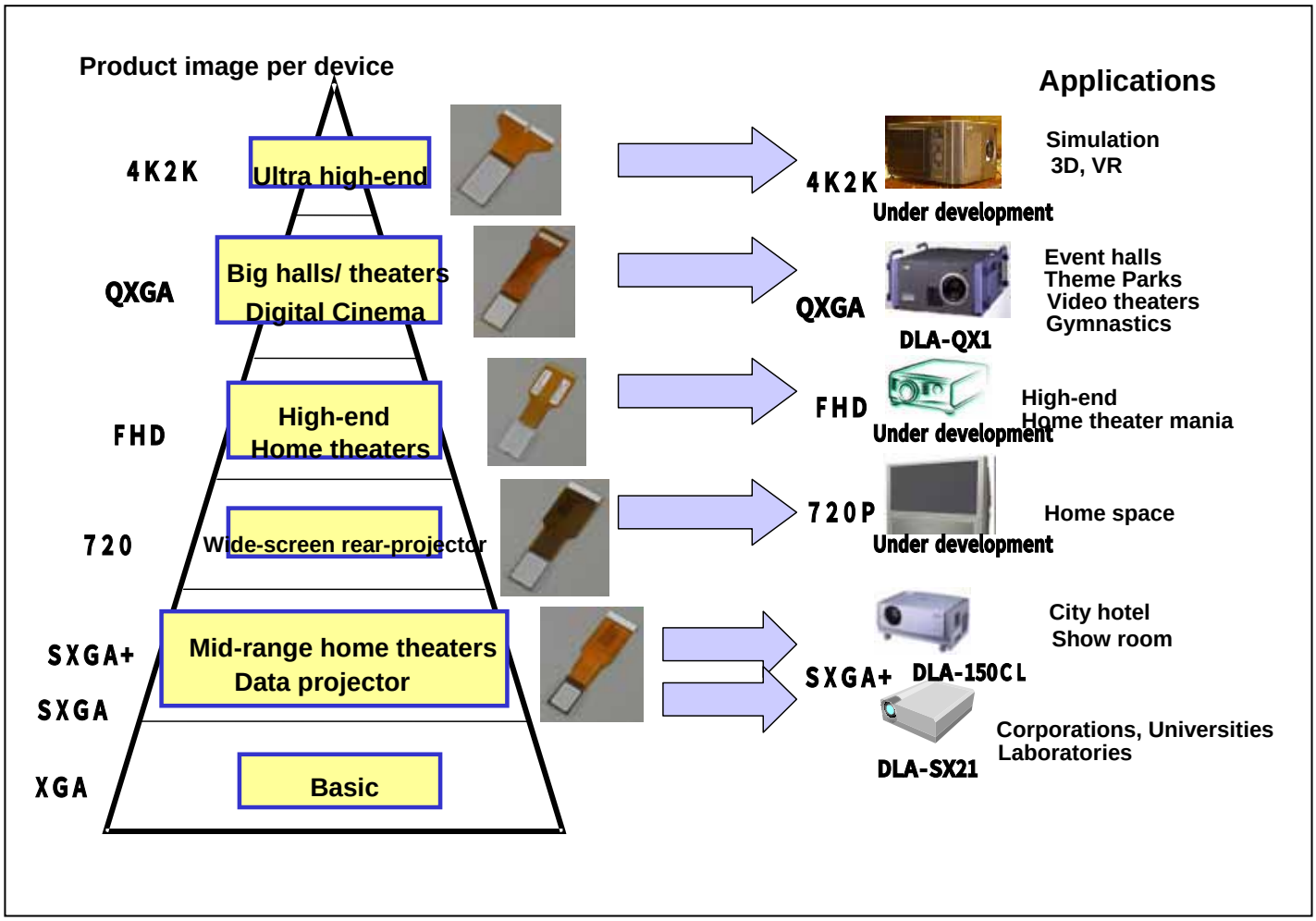
**<Structure images of micro display devices for representative projectors>**



**<A cross section and features of D-ILA devices>**




**<Product applications for each device>**



## <Features of newly developed D-ILA devices>

(1) 1.7-inch 4K2K device

At 7.9 million pixels (3840 X 2048 pixels, approximately quadruple high-definition levels), this is the highest resolution micro display device in the world*. JVC developed both the device and the technology to mass-produce it, paving the way for application in projectors for ultra-high-resolution graphics systems. (JVC has already delivered prototype high-resolution graphic projectors using the device as equipment used for experimental purposes in R & D to several domestic research institutes that have evaluated D-ILA technology as being excellent.)

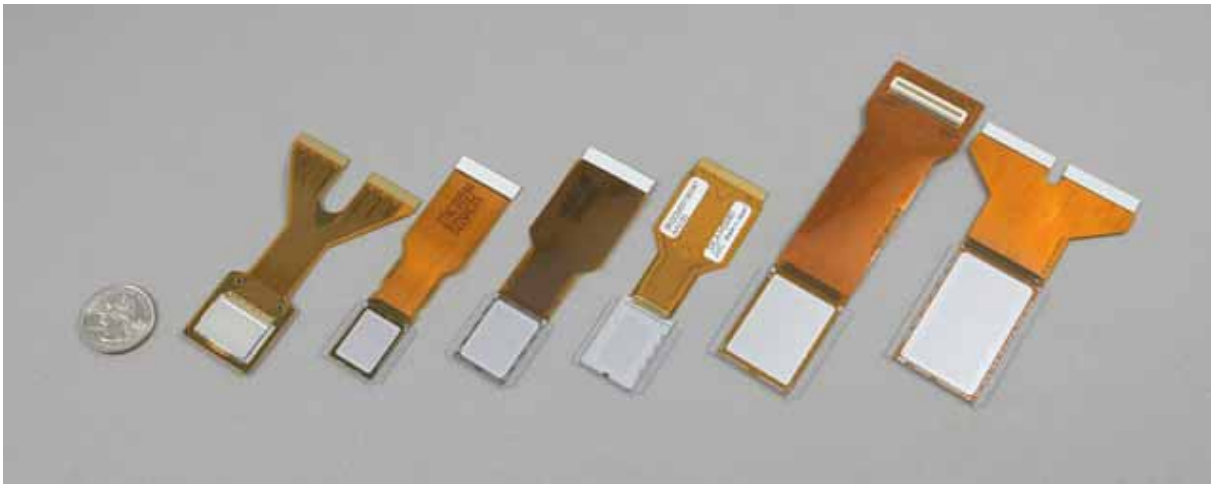
*As of Aug. 25, 2003 according to JVC' research.

(2) 0.8-inch full HD device

This D-ILA device provides full HD resolution that completely expresses the HDTV spec. As high-definition media (for example, BS digital television broadcasting in Japan) spreads, there are growing needs for high-definition, large-screen home theater systems, and this device offers approximately 2.1 million pixels (full HD: 1920 x 1080, capable of full expression of 1080i/1080p), a significant advance over conventional units. JVC is in the process of developing high-definition and high-quality picture home theater projectors using the device.

(3) 0.7-inch 720 P device

The high-resolution D-ILA device is capable of expression of 720 scan line progressive images. Though a compact 0.7 inches in size, it packs approximately 920,000 pixels (1280 X 720), bringing new resolution and screen size to the home theater market. JVC is under study about commercializing rear projection television sets.



**<The picture shows the lineup of D-ILA devices >**

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**For further information, please contact:**
Toshiya Ogata, Manager
Public Relations Office
Corporate Communications Department
Victor Company of Japan, Limited (JVC)
Tel: +81-(0)3-3289-1458 Fax: +81-(0)3 03-3289-0376
E-mail: ogata-toshiya@jvc-victor.jp
URL: http://www.jvc-victor.co.jp