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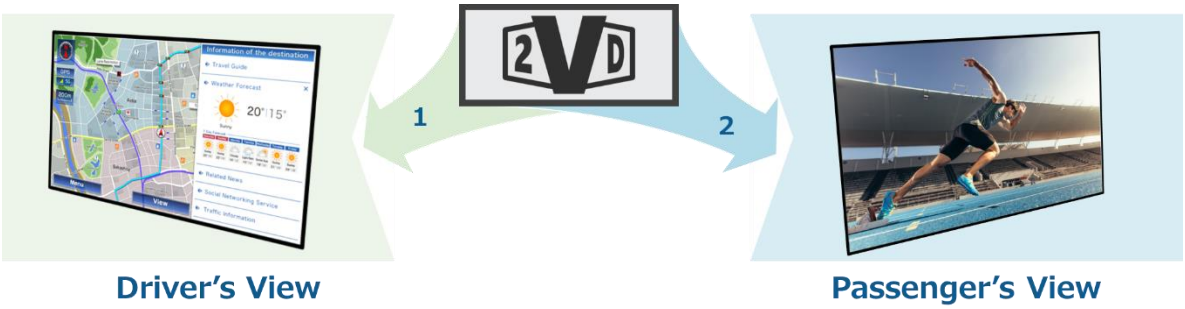
JDI Develops World's First Automotive Grade Dual Touch 2 Vision Display (2VD) ~ Simultaneously Displays Different Content to Driver and Passenger with Dual Touch Capabilities, Enabling One Display to Function as Two Displays ~

JDI has developed the world's first 2 Vision Display (2VD) technology that meets automotive grade image quality requirements while simultaneously displaying different image content based on viewing direction. As another world first, JDI has incorporated Dual Touch into its new 2VD technology that identifies discrete touch operations from different users. JDI Dual Touch 2VD thus enables a single display to function as two separate touch-enabled displays.



2VD has existed as a concept for many years. Unfortunately, it has historically been unable to overcome image quality issues to achieve commercialization and product use.

With its new Dual Touch 2VD technology, JDI has deployed its world-leading LTPS and optics capabilities to generate the necessary breakthrough in image quality to allow for widespread use. As an automotive use case, JDI Dual Touch 2VD simultaneously provides a large-screen, rich-content information display to the driver to support safe driving and a large-screen, high-quality passenger display on a single display. Dual Touch 2VD also resolves interior design constraints caused by the increase in displays, while allowing the reduction of in-car display usage to support streamlined and sophisticated interior designs.

2VD has also historically lacked touch functionality, an important capability for many use cases. JDI Dual Touch 2VD uses JDI-developed custom ICs to identify whether touch operations originate from the driver or passenger (again, using an automotive use case example), allowing a single display to function as two separate touch-enabled displays.

JDI is currently in discussions with multiple global automobile OEMs to incorporate JDI Dual Touch 2VD into their next-generation vehicle interiors, with first shipment possible as early as 2025. In collaboration with these OEMs, JDI is working to create unprecedented levels of automobile safety and comfort.

Existing 2VD vs. New JDI Dual Touch 2VD

	Existing 2VD	New JDI Dual Touch 2VD
Resolution	88 ppi	171 ppi
Brightness	350 nits	700 nits
Contrast	350 : 1	1000 : 1
NTSC Ratio	70%	85%
Touch Functionality	None	Dual Touch

Furthermore, JDI Dual Touch 2VD's rich functionality goes beyond the automotive industry. It has a broad set of use cases in an extraordinarily rich variety of contexts, locations, and industries and in both horizontal and vertical 2VD modes. As examples, JDI Dual Touch 2VD can be deployed in large signage applications or to create display security and privacy enhancements through viewing angle control, or to support innovative gaming applications.

A sample vertical use case of JDI Dual Touch 2VD would be a large display at a transportation hub such as an airport or train station, in which the changing user viewing angle, depending on the distance between the display and the user, allows for the simultaneous provision of rich visuals, art or other creative content, general information, or advertising (at a distance) and departure/arrival information (up close).

JDI Dual Touch 2VD is a breakthrough display technology that has the potential to change the way displays are used – and shared – all over the world in fundamentally new ways. JDI looks forward to open innovation and collaboration with individuals, organizations, and creative communities globally to explore new use cases for JDI Dual Touch 2VD that enrich people's daily lives. Please feel free to contact us at:

https://www.webcoms.jp/jdi/eng/form.php?pid=524