



METAGROWTH 2026 Technology Briefing

Japan Display Inc. June 22, 2022







METAGROWTH 2026 Overall Strategy



2 AutoTech Business Strategy



InfiniTech Business Strategy



4 eLEAP (NextGen OLED)



HMO (High Mobility Oxide)



Metaverse (Ultra High Resolution)



Rælclear (Transparent Displays)



8 AutoTech



R&D Strategy: New Tech, Products, & Businesses





METAGROWTH 2026 Overall Strategy

Scott Callon Chairman & CEO



META

"Comprehensive, Overarching" Underscores JDI's Commitment to Transformational Growth

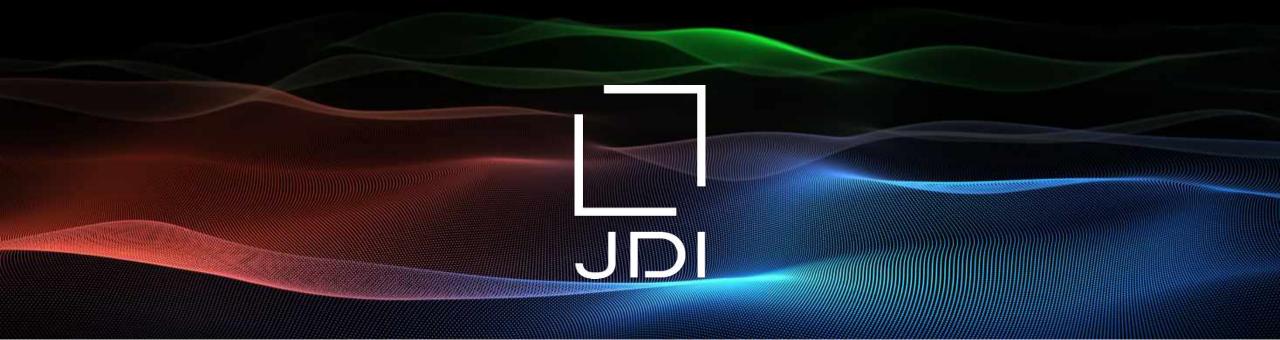
Metaverse Also a JDI Growth Driver



Core Strategy

Global No. 1 Technology Leadership to Best Serve Customers and Deliver PersonalTech For A Better World

METAGROWTH in Value Creation







Displays are a foundational technology for modern society JDI has unmatched technological capabilities to deliver customer & social value & improve people's lives





Core Strategy | Global No.1 Technology Leadership





- JDI has regained technology leadership in the global display industry with its <u>Global</u> <u>No. 1</u> proprietary technologies, including eLEAP (NextGen OLED), HMO (High Mobility Oxide), Metaverse (Ultra High Resolution), & Rælclear (Transparent Displays)
- JDI will further expand its technology leadership to dramatically increase customer & shareholder value

Note: Rælclear is a trademark of JDI. eLEAP is a provisional name, pending registration.



Core Strategy | Market-Leading Technology, Transformational Growth





- The global display business is a technology industry. JDI is a technology company. So are its customers. Customers' needs are superior technology & cost performance
- Support JDI customers' value creation & competitive advantage by delivering proprietary Global No.1 technologies such as eLEAP, which has unparalleled cost performance
- End participation in commodity competition, leverage JDI's one-of-a-kind, innovative technology to generate radical improvements in profitability & growth



Core Strategy | GreenTech & Sustainability





- Address deeply important global environmental issues via JDI environment positive GreenTech such as eLEAP & HMO, which deliver significant value to JDI's socially conscious customers
- Companies exist to serve society. JDI will always run its business to contribute to a sustainable world
- JDI is committed to an open corporate culture & supports the growth of each & every employee & their pursuit of Global No. 1 excellence



Focus Areas in this Presentation



Evolving & deepening JDI's core technology assets above & beyond displays to deliver Global No. 1 technologies that are good for people, society, & the earth we all share

R&D Division

Delivering best-in-class quality & technologies that deliver even greater safety & comfort during a once in a 100 years period of revolutionary change in the global automotive industry

AutoTech Business Unit

InfiniTech Business Unit Creating new de facto global technology standards for consumer & industrial devices via game-changing innovations that JDI licenses openly





AutoTech Business Strategy

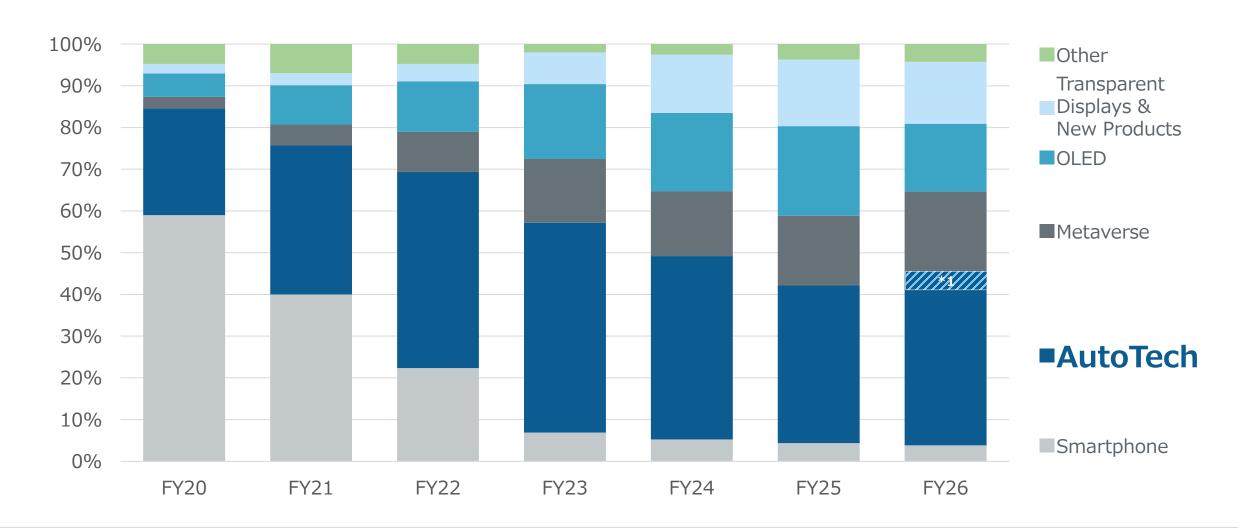
Seiichi Fukunaga Executive Officer Head of AutoTech Business Unit



AutoTech | Medium-Term Sales Target



Generate c. 40% of total JDI sales with a highly profitable business model

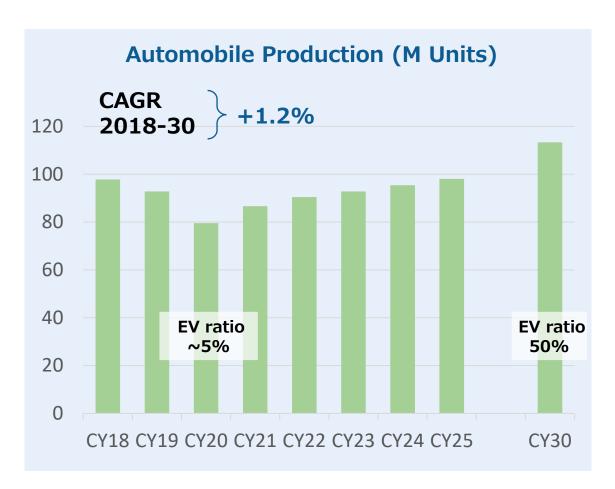




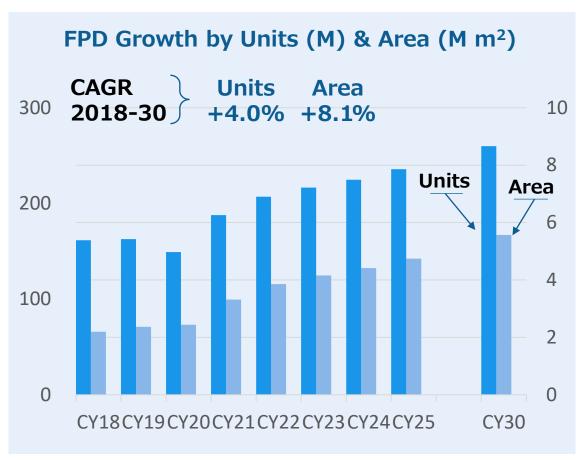
AutoTech | Automotive Display Market Trend



Led by EVs, secular growth in display demand







Source: Yano Research Institute Ltd. (October 2021) for automobile production; JDI estimates for EV ratio. FPD shipments are OMDIA_Small & Medium Display Market Tracker Forecast 4Q21; JDI estimates for CY30



AutoTech | Business Strategy



Develop integrated cockpits with best-in-class aesthetics & high value-add via new applications such as JDI's proprietary Privacy View Enhance passenger comfort & safety with high-end LCDs & eLEAP



Innovate to respond to evolving passenger information needs & interior designs



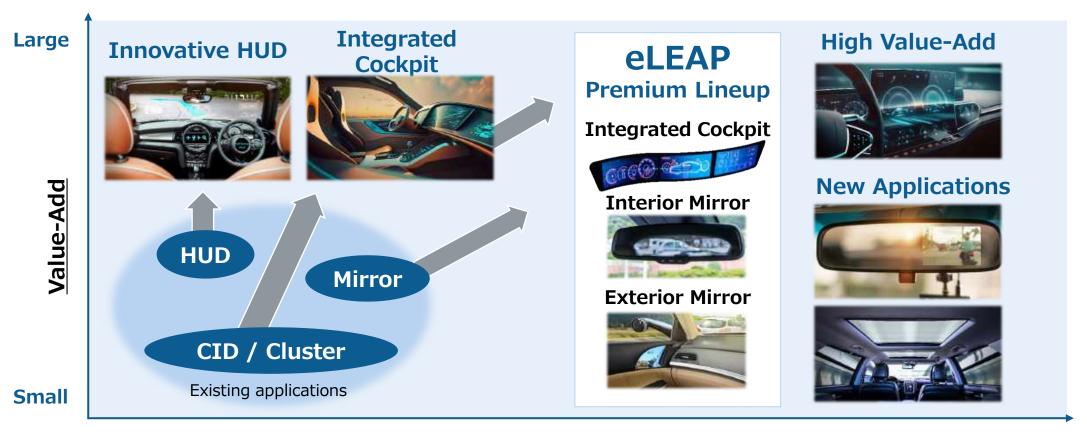
Deliver differentiated customer value with large displays, outstanding image quality, & JDI proprietary tech



AutoTech | Business Strategy



Increase road & passenger safety via innovative HUD & EV-focused, best-in-class integrated cockpit technology



Business Domain



AutoTech | Business Strategy





Lead the EV era with an extensive, leading-edge eLEAP line-up



Improve integrated cockpit & mirror designs with eLEAP free shapes







InfiniTech
Business Strategy

Kazuya Iizuka

Executive Officer
Head of InfiniTech Business Unit



InfiniTech Business Strategy







Infir

InfiniTech Business Strategy

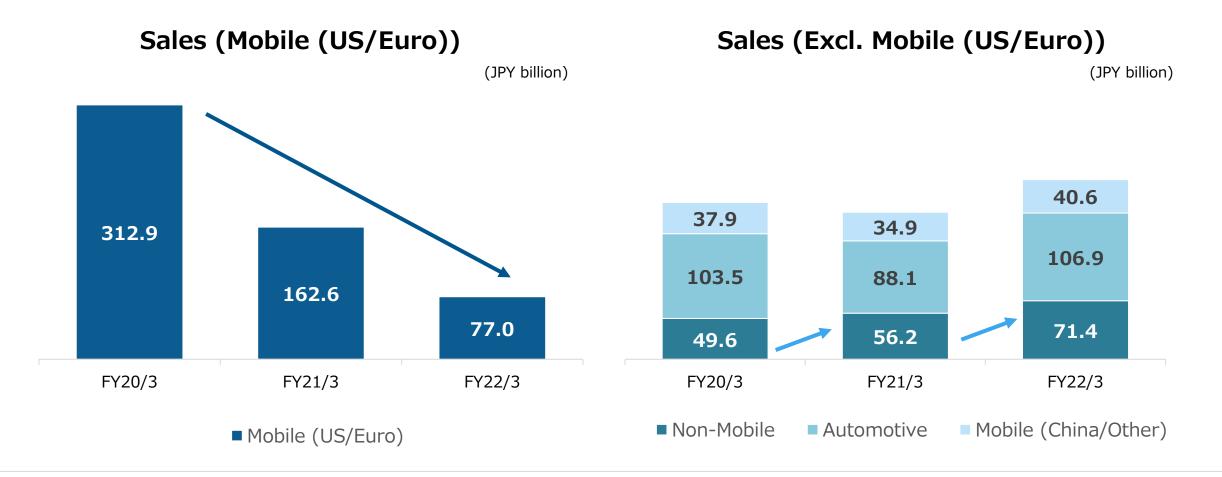
End Mobile Overconcentration



InfiniTech | Diversifying & Lowering Earnings Volatility



Absorbing sharp decline in Mobile (US/Euro) & growing profitable product portfolio







InfiniTech Business Strategy

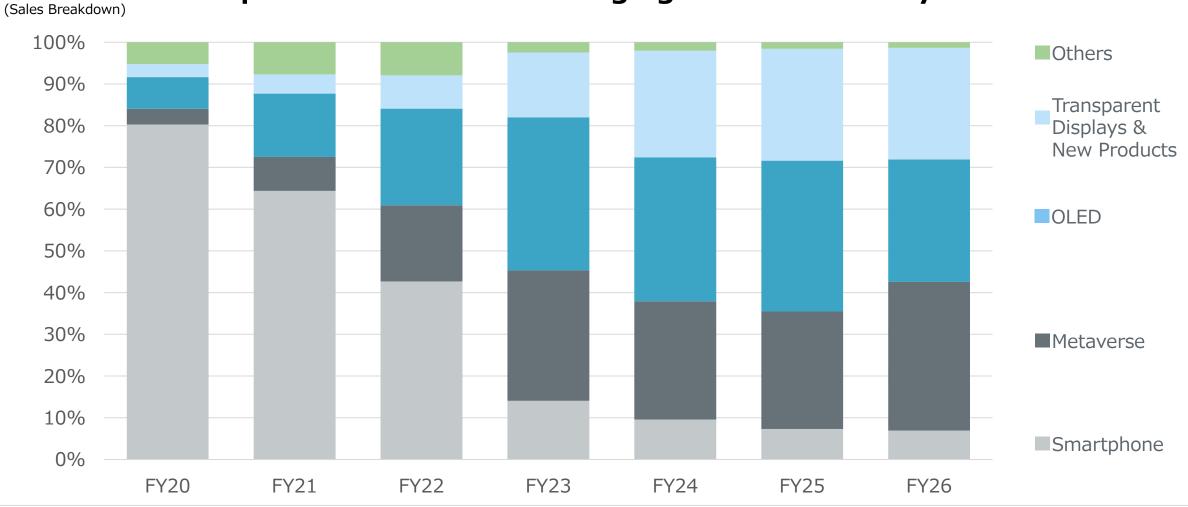
New Growth Strategy



InfiniTech | Focus on Profitable Products with High JDI Value-Add



Shrinking low-profit businesses & diversifying & optimizing product portfolio to drive earnings growth & stability

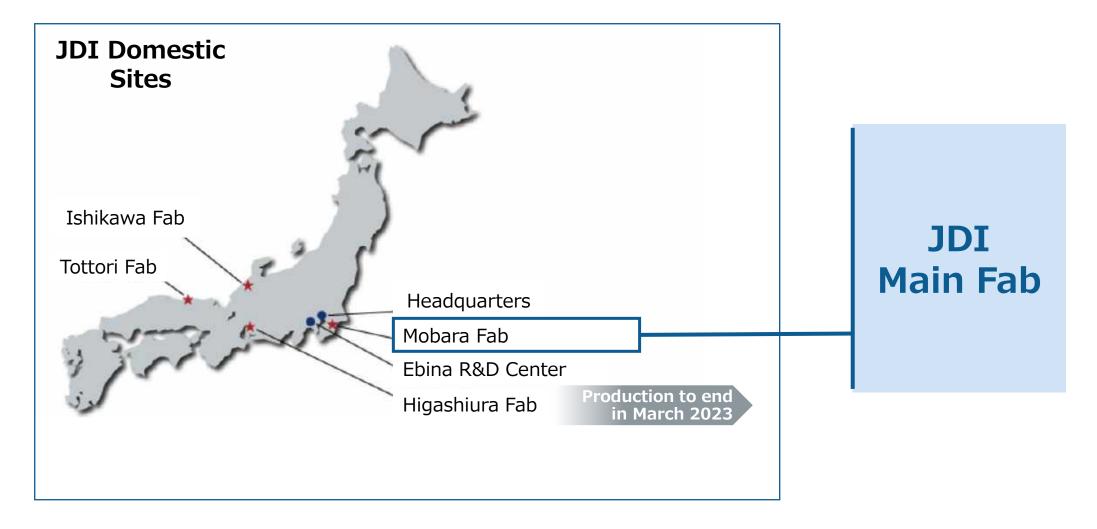




InfiniTech | Optimizing Fabs to Increase Cost Competitiveness



Consolidating InfiniTech Fabs from 2 to 1







3

InfiniTech Business Strategy

Growth Drivers







JDI's six proprietary growth drivers are all Global No.1 technologies that provide significant customer value & dramatically improve JDI's profitability

eLEAP (NextGen OLED)

- High brightness, long life, & high resolution
- Supports a wide range of shapes & sizes



HMO (High Mobility Oxide)

- Ultra-low power consumption, high resolution, & large display size capability
- Foundational technology for G8 & G10 fabs



Metaverse (Ultra High Resolution)

- Unparalleled sense of reality & immersion
- High yields & outstanding quality



Rælclear (Transparent Displays)

- World's highest transparency
- Social contribution by enabling more interactive & inclusive communication









InfiniTech Business Strategy

Market Feedback



InfiniTech | JDI New Technology Promotion Status





- Customer A
- ◆ Customer B
- Customer C

- c. 100 participants
- c. 60 participants
- c. 80 participants

- ✓ eLEAP & HMO "The
- ✓ Metaverse
- ✓ Rælclear
- "These are game changing solutions."
- "Looking forward to swift execution of high-res roadmap."
- "Same transparency as glass." "Can be used everywhere."
- "Wish to participate in development."





eLEAP (NextGen OLED)

2X Peak Brightness, 3X Lifetime

Noriyuki Hirata

eLEAP Project Champion InfiniTech Business Unit



eLEAP | Innovation Key Points

Pixels



ufacturing SSS Display Manu Proce

Frontend

Backplane (Array) Process

TFT

Glass

Substrate

Forming TFTs on Glass

substrate

LCD: Cell Process

OLED: Frontplane Process

Liquid crystal material is injected

LCD & substrate lamination is performed **Color filter substrate**

LCM (Liquid **Array substrate Crystal Material**)

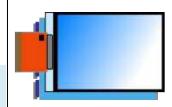
Emission layer deposited on OLED BP substrate

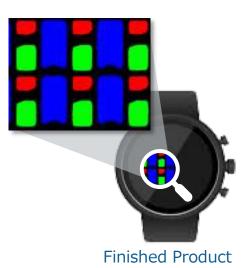
Backend

Module Process **Shipment**



Mounting Driver IC, Assembly, Final inspection





Growth Driver

Backplane Process

Frontplane Process

Module Process

Innovation Points

eLEAP



OLED & Frontplane Processes

eLEAP

HMO

Slide 29







eLEAP

- environment positive
- <u>L</u>ithography with maskless deposition
- Extreme long life, low power, & high luminance
- Any shape Patterning



HMO







2X peak brightness, 3X lifetime with brighter & clearer images, & free shape flexible designs

eLEAP

High Brightness (2X)



Brightness, vividness, & free shapes unimaginable with existing technology



Long Lifetime (3X)

Lifetime comparison	New	After 1yr	After 3yrs	After 5yrs
	0h	1000h	3000h	5000h
Conventional OLED				
eLEAP				

eLEAP

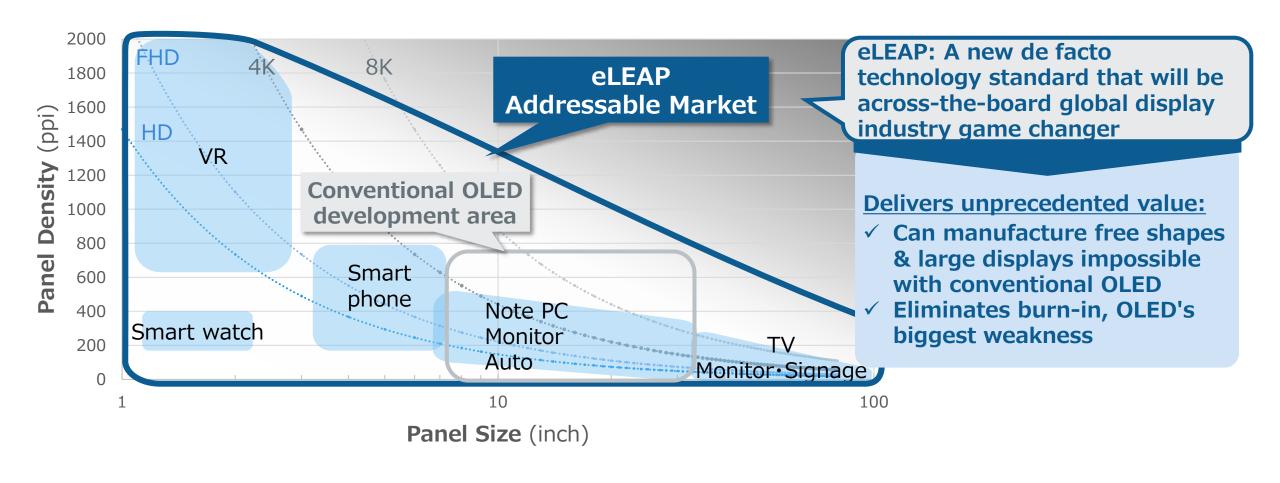
HMO



eLEAP (NextGen OLED) | Massive Addressable Market



Dominates all current OLED technologies across large addressable market



eLEAP

Metaverse



eLEAP | Environment Positive



eLEAP's maskless OLED deposition is a breakthrough, environment positive production process that eliminates mask cleaning chemicals & will generate 150k tons p.a. of CO2 emissions reduction via deployment at JDI Mobara fab





150k tons of yearly CO2 emissions =

CO2 Absorption Volume of 900k cedar trees



Cedar forest the size of 3.7k Tokyo **Domes**



CO2 emissions are JDI's calculations based on G6 Mobara production of 30 k sheets/month

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eLEAP | Production Roadmap



- Completed feasibility verification & started prototype production, will ship customer samples within 2022
 - ✓ Also building out mass-production line will increase capacity to meet demand
- Will license broadly across industry best technology for Gen8/Gen10 OLED lines

	CY21	CY22	CY23	CY24	CY25		
Phase	R&D	Sample prototyp	e Small-volu	me Ma	ss production		
Prototype Line	Mass production verification, customer sample shipment, small-lot production						
Mass Production Line		Line prep		Mass product	ion		



Allows for increasing size of high-resolution OLED displays



Best technology for Gen8/Gen10 OLED lines

eLEAP

Metaverse





HMO (High Mobility Oxide)

Backplane Technology Revolution

Masashi Tsubuku

Head of Process & OLED Device Development Section R&D Division



HMO | Innovation Key Points



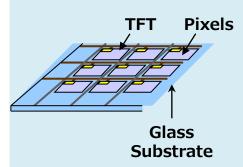
Display Manufacturing Process

Frontend

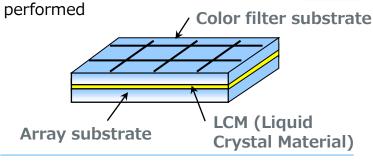
Backplane (Array) Process LCD: Cell Process

OLED: Frontplane Process

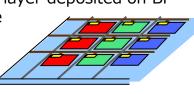
•Forming TFTs on Glass substrate



Liquid crystal material is injected & substrate lamination is



Emission layer deposited on BP substrate



Backend

Module Process



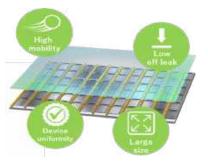


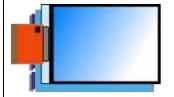
Mounting Driver IC, Assembly, Final inspection

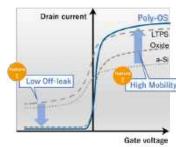
LCD

OLED

НМО







Growth Driver

Backplane Process

Frontplane Process

Module Process

Innovation Point

HMO



Backplane process (LCD & OLED)

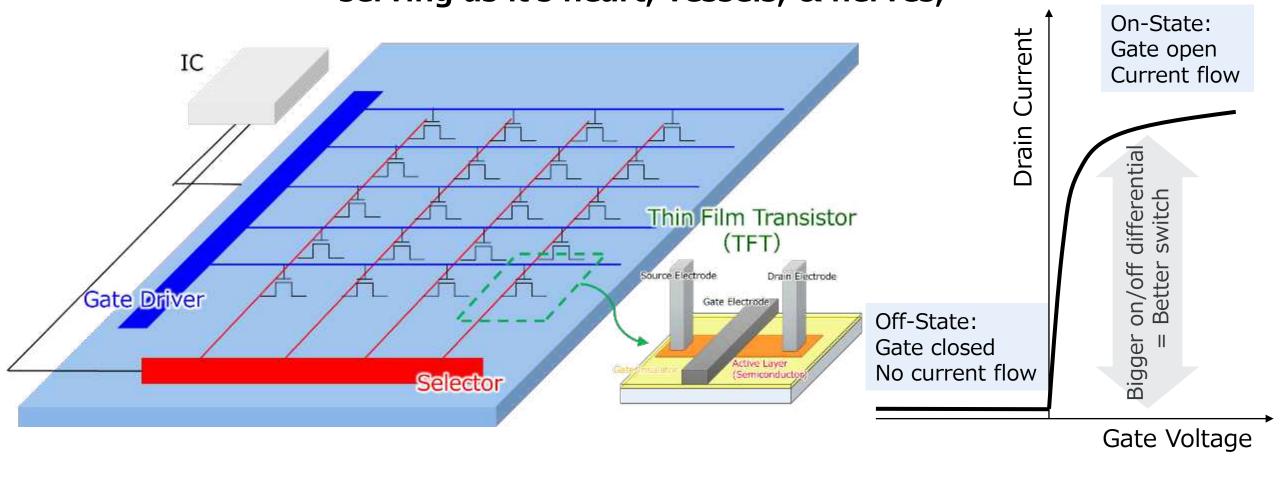
eLEAP

Rælclear





A Backplane is a collection of TFTs that control a display's functioning, serving as it's heart, vessels, & nerves,



НМО







Slide 38

Significantly improves field-effect mobility with standard oxide core structure

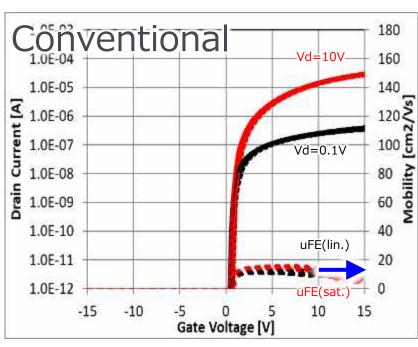


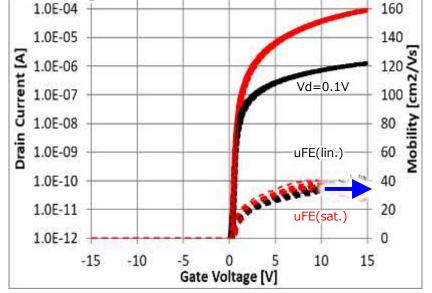
HMO

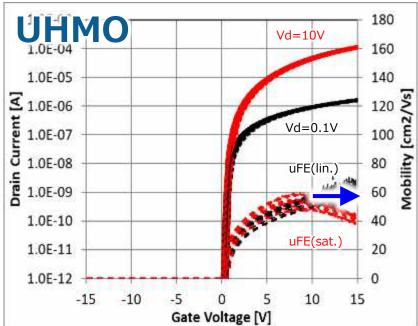


180

Vd=10V







12cm²/V·s

36cm²/V·s

52cm²/V·s

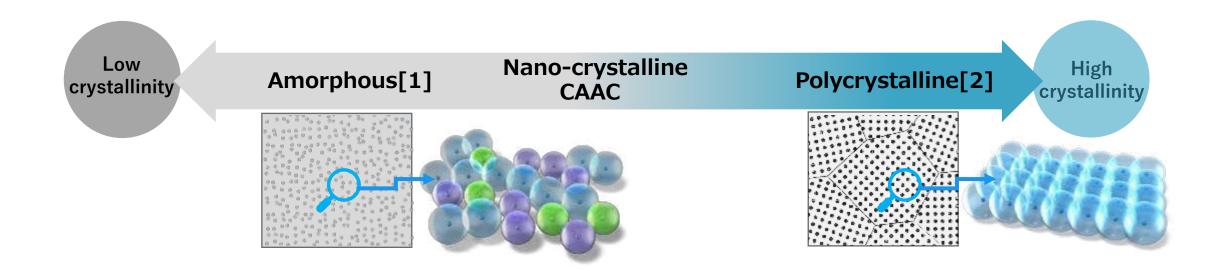
eLEAP HMO Metaverse Rælclear AutoTech New Tech



HMO | Technology Fundamentals



Converting conventional oxide to polycrystalline film leads to significant performance improvements



[1] Nature 432, 488(2004)

[2] Polycrystalline membranes developed by Idemitsu Kosan Co., Ltd.

2011 MRS Fall Meeting M6.7

Applied Physics Express 5 (2012) 011102



HMO | Technology Fundamentals



Only JDI has developed processes that solve polycrystalline oxide's manufacturing challenges



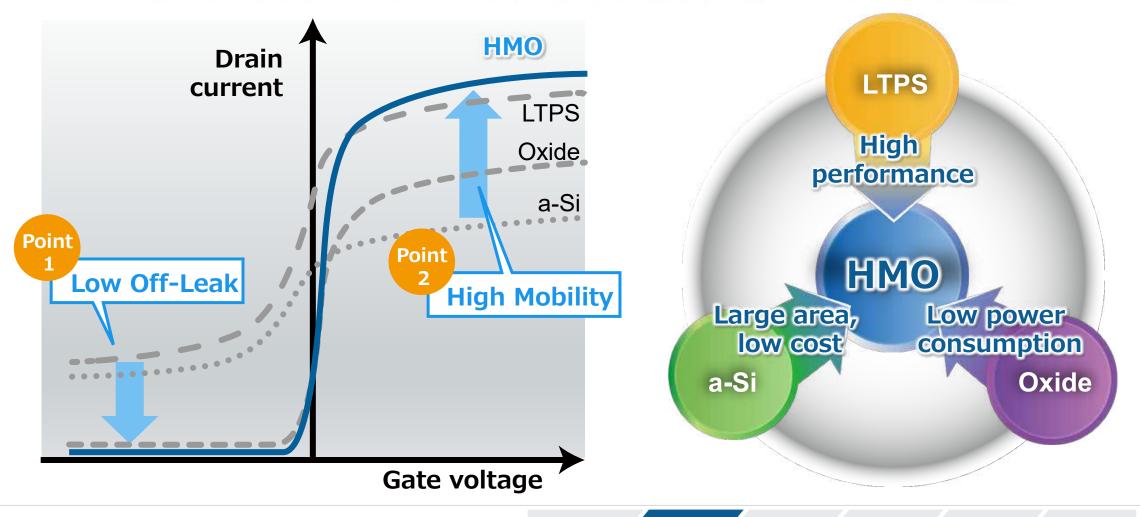
НМО







Breakthrough technology that combines high performance & low power consumption to dominate existing backplane technology



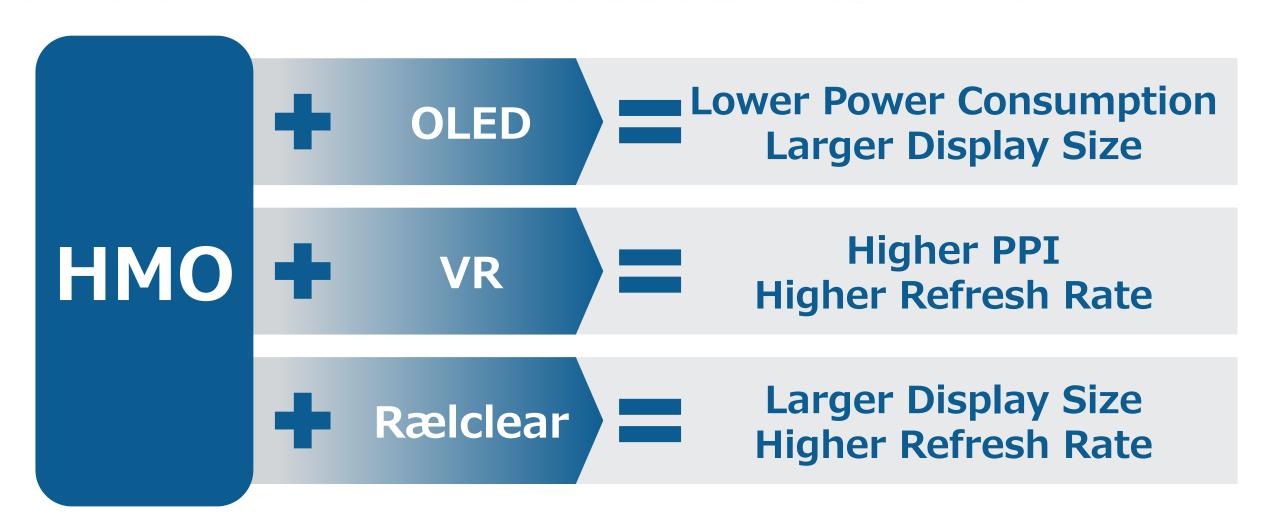
НМО



HMO | Significant Technology Synergies



Can combine HMO with different frontplane technologies to drive further value



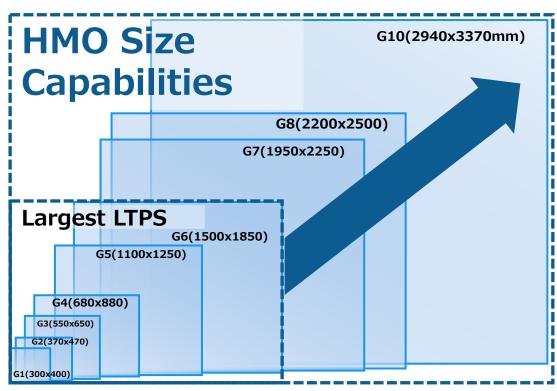
eLEAP



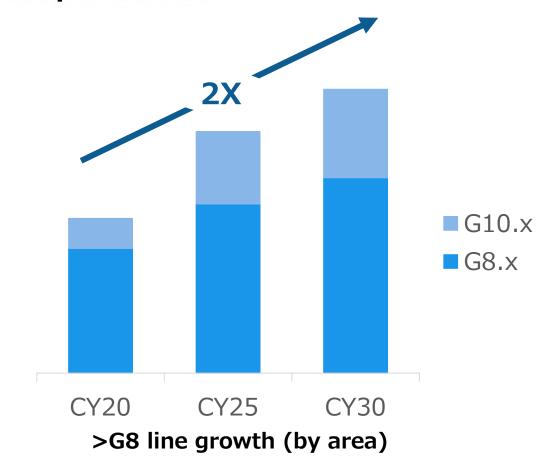
HMO | Forward Development



Pursuing collaboration with other companies for >G8 lines to further expand HMO market penetration



Increasing the feasible size of highperformance display substrates



Source: JDI estimates based on research institute information

Metaverse

Rælclear AutoTech New Tech





Metaverse
(Ultra High Resolution)
Bringing the Metaverse to Life

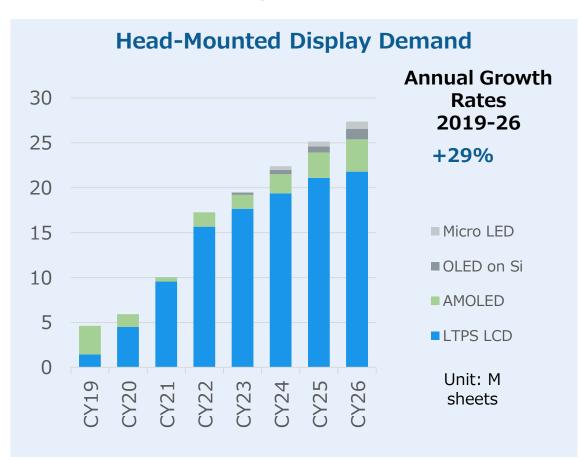
Takeshi Harayama Head of Business Division 1 InfiniTech Business Unit

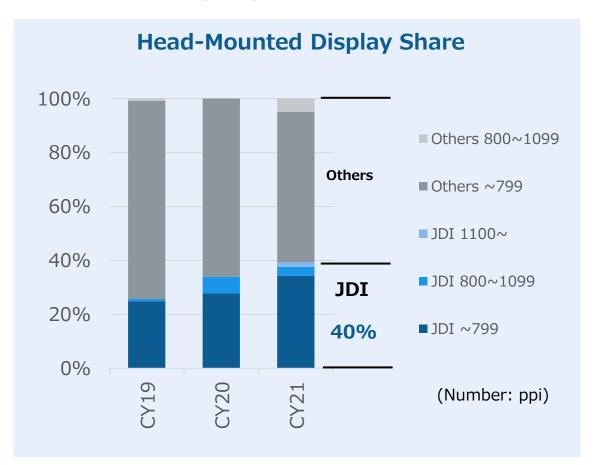






Global No. 1 in ultra high resolution displays, driving JDI market share expansion & high growth rate





Rælclear

Source: Data for demand is "OMDIA Small Medium Display Market Tracker Forecast 4Q21"; Share is JDI-estimated based on survey agency data (by volume)

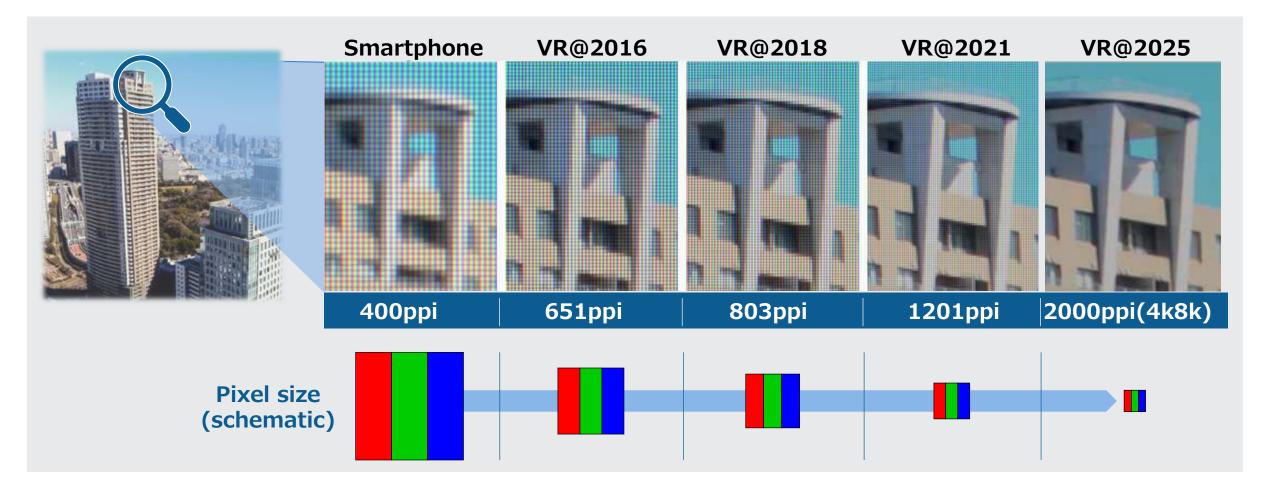
eLEAP HMO



Metaverse | JDI's VR Display Development History



JDI's ultra high resolution displays generate stunning image quality & cost performance



HMO





Metaverse

Technology Introduction



Metaverse | What is an Immersive Display?



High Resolution

High Brightness

High Contrast

Wide Color Gamut

Stunning Realism



Low **Latency**

High **Refresh Rate**

Impulse Display

Fast Response Liquid Crystal

Motion Blur Correction

Wide Viewing **Angle**

Optimized Display Size

New Lens Design

eLEAP

HMO

Slide 48



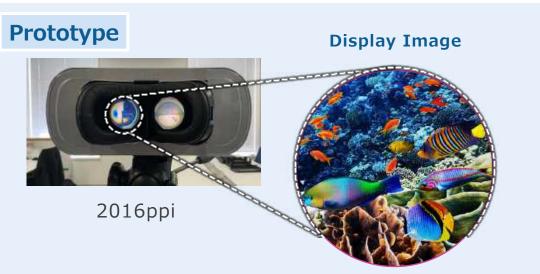
Metaverse | JDI's Ultra High Resolution VR Technology





Leading the global display industry with ultra high quality, ultra high resolution display technology





	VR 2.88" 1201ppi Advanced LTPS	Prototype
LCD Mode	IPS designed for VR	← Same
Diagonal Size	2.88 Inch	2.27 Inch
Resolution	2448×2448	3240×3240
Pixel Density	1201ppi	2016ppi
Refresh Rate	120Hz	90Hz
Backlight System	High-Speed Global Switching	← Same

eLEAP

Metaverse

HMO

Rælclear

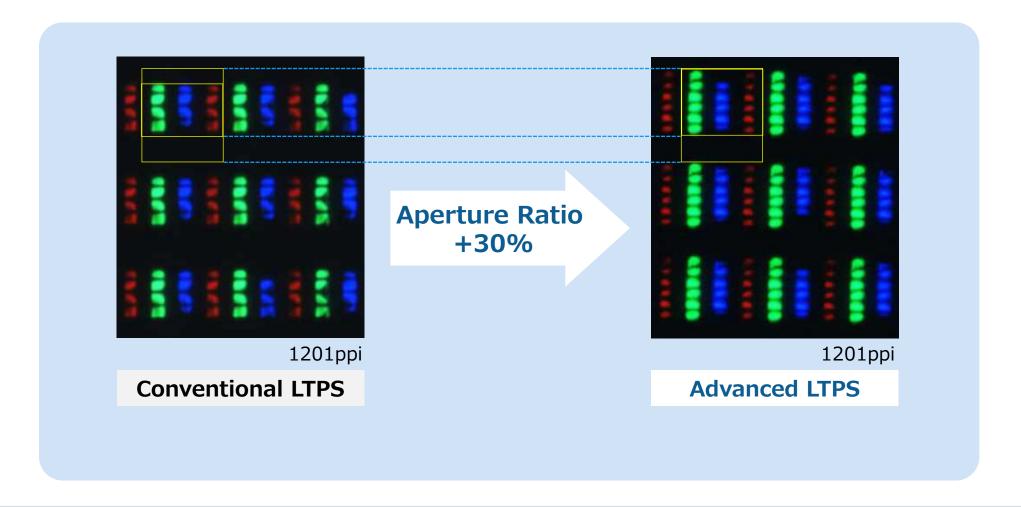
AutoTech

New Tech





1201ppi VR Display in mass production uses JDI's proprietary Advanced LTPS technology to generate high aperture ratios essential for VR displays



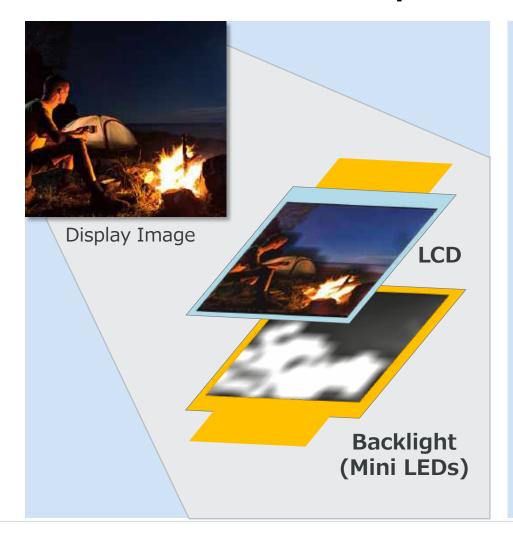
HMO

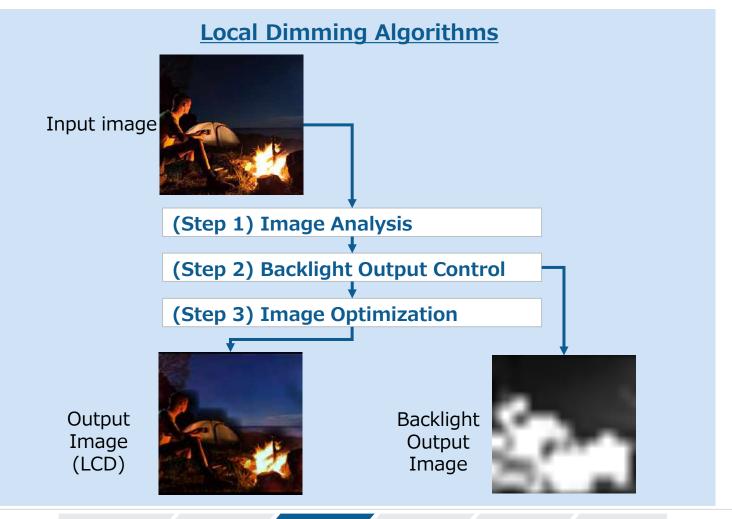


Metaverse | JDI's Local Dimming Technology



Algorithmic backlight controls lower power consumption & optimize image for higher contrast





Rælclear

Metaverse



Metaverse | JDI's Best-in-Class Image Quality



Fast response liquid crystal + high-speed backlight switching for clear image

Fast Response Liquid Crystal	-	✓	-	✓	
High-Speed Backlight Switching		-	✓	✓	
Display Image					
Problem	Blurring, Distortion	Blurring, Distortion	Ghost Image	Clear Image	

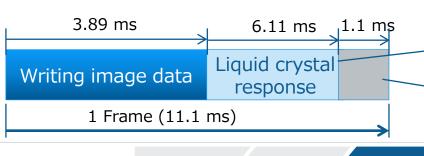
Sample Drive Timing

Resolution: 2160xRGBx2160

• Refresh Rate: 90Hz

High-Speed Global Backlight
 Switching: 1.1 ms

Switching: 1.1 ms



Fast Response Liquid Crystal (5X response speed vs. prev. IPS)

High-Speed Backlight Switching

HMO





Metaverse

Forward Outlook



Metaverse | JDI's VR Technology Roadmap



Resolution

4k x 4k per eye PPD*1 >30 FOV*2 130 degrees

Optimal Screen Size

Diagonal 2.x inches
Wide FOV within optimized eye-box
size

HDR Compatibility

Contrast: >100k

Color Gamut: >DCI-P3 95%

1700~2500ppi w/ Local Dimming



Brightness

1,000cd/m²
Tailored to pancake lens optical systems

Display Time (Impulse)

<0.5 ms (BL lighting ratio 6% @ 120Hz)

Refresh Rate

>120Hz

High refresh rate that can smoothly process pass-through video

*1) PPD: Pixels per degree, no. of Pixels per 1 degree of viewing angle

*2) FOV: Field of view

HMO

Metaverse



Metaverse | JDI's VR Solutions



VR Solutions Deploying Ultra High Resolution Displays



360-degree VR Content Production



Simultaneous, Multi-User VR Playback



Medical Training







Note: Medical training solution is being developed under the supervision of Jikei University

HMO





Rælclear
(Transparent Displays)
Changing How We Communic

Changing How We Communicate

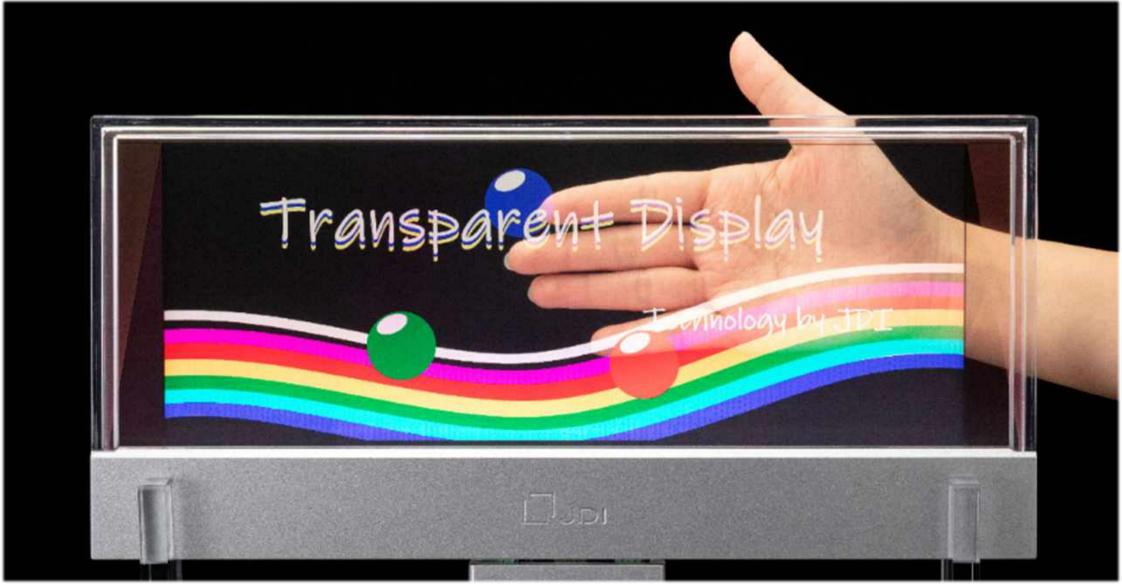
Tsutomu Sato

Head of LCD Application Engineering Section 2 InfiniTech Business Unit



Rælclear | The World's First Totally Transparent Display





eLEAP

HMO

Metaverse

Rælclear AutoTech

New Tech





Rælclear's name was born from its unique two-way transparency: starting from the letter "c", Rælclear reads as "clear" in both directions. With the world's highest display transparency, Rælclear enables brand-new display applications with unprecedented two-way communication.



Rælclear

Slide 58



Rælclear | Performance Characteristics



Glass-Like Transparency

JDI's proprietary liquid crystal materials generate 84% transparency, far superior to other companies'

Multi-Directional, Full Visibility

Competitors' transparent displays are degraded and blurred when viewed from the back, whereas JDI's transparency technology provides crystal clear images with zero degradation

Market Benchmarks **JDI research	JDI	OLED			Micro LED
Manufacturer		Company A	Company B	Company C	Company D
Transparency	84%	45%	68%	70%	60%
Multi- Directional	√	×	×	×	×

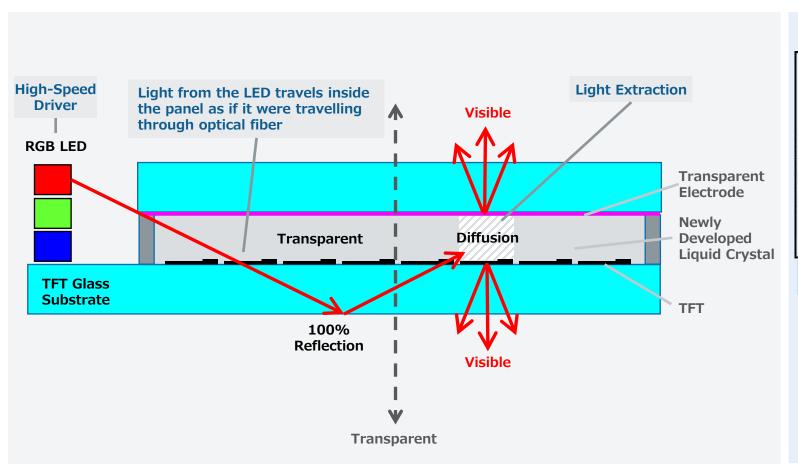
HMO

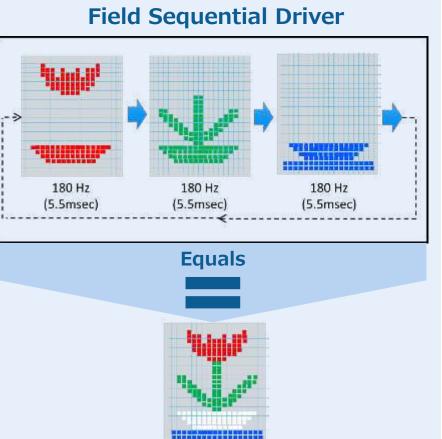


Rælclear | Technology Fundamentals



- Light emitted from the RGB LEDs travels through the LCD
- When voltage is applied to a desired location in the LCD, the liquid crystal enters a diffusion mode & extracts (diffuses) the light. The area where no voltage is applied becomes transparent
- Colors can be displayed by switching the RGB LED at high speed (field sequential drive)





eLEAP



Rælclear | Committed to Creating New Social & Customer Value



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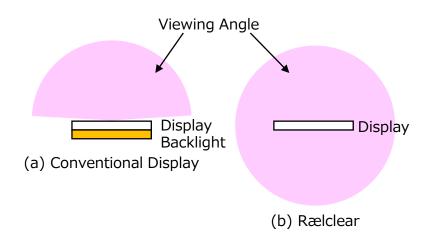
Working towards the Achievement of the SDGs

By deploying Rælclear on behalf of two people in conversation & visually showing their speech, it is possible to facilitate smooth communication, especially for the elderly and hard of hearing, because the speaker's facial expressions and words can be seen. In addition, Rælclear can also facilitate in-person, cross-cultural communication with simultaneous translation (SDGs No.10)



Content Sharing via a Nearly 360° Viewing Angle

With conventional displays, screens can only be viewed up to 180° due to blockage from the backlight. Rælclear images can be seen from both front & back, enabling Rælclear to be viewed from all directions & shared among friends, families, and colleagues



Freeing Space

Rælclear's glasslike transparency frees space from the visual obstruction of conventional displays. Rælclear displays naturally and unobtrusively blend into any environment, bringing the world of science fiction to reality

eLEAP HMO Metaverse Rælclear AutoTech New Tech



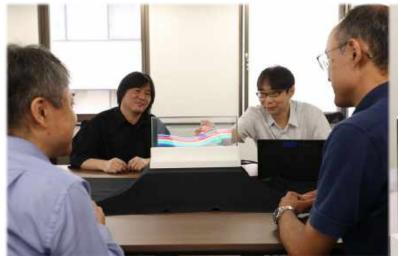
Rælclear | Use Cases







Supporting Communication for Hard of Hearing













Unobtrusive Interior Design

Accessing Recipes in the Kitchen

Reading Picture Books to Children

Rælclear

Slide 62



Rælclear | Communicating via Simultaneous Translation





*Dedicated software is required for translation









Impressive level of transparency



Unexpectedly clean & colorful images



Easy to read, crisp text display



Want to use in conference rooms



Helpful for people with hearing disabilities



Exciting, futuristic technology



Frees space – no feeling of enclosure

HMO

Slide 64









Businesses



Local Governments & Service Desks



Hospitals & Medical Organizations



Schools for Deaf



Organizations for Hearing-Impaired

Rælclear has been recognized by customers as a positive tool to "help communication" and is being deployed at inperson service desks and at community organizations that support people with disabilities

eLEAP

HMO



Rælclear | JDI Donating Rælclear to Support Ukrainian Refugees







Rælclear | Great Feedback at Makuake, a New Product & Service Launch Venue





eLEAP

HMO

Metaverse

AutoTech

Rælclear

New Tech





AutoTech

Leading the EV Era with NextGen Tech

Mitsuo Nomura

Deputy General Manager AutoTech Business Unit



AutoTech | Switchable Privacy Technology



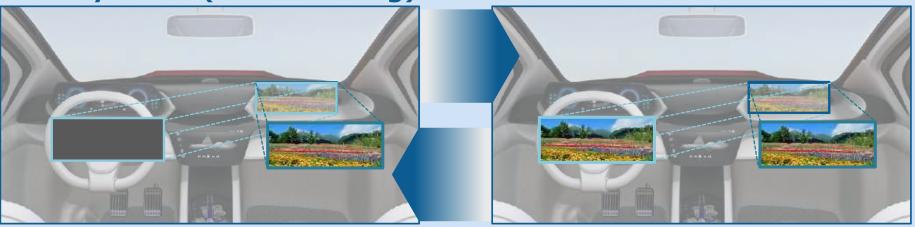


By controlling the passenger display's viewing angle with a switchable panel, "Privacy Mode" blocks the driver's view while "Public Mode" makes it visible

For safety, passenger display needs to be invisible to the driver while driving

Privacy Mode (While Driving)

Public Mode



Switchable privacy technology allows for easy switching between Privacy Mode & Public Mode. JDI's Privacy Mode achieves off-state illumination of <1% (@35°view)

eLEAP

Metaverse



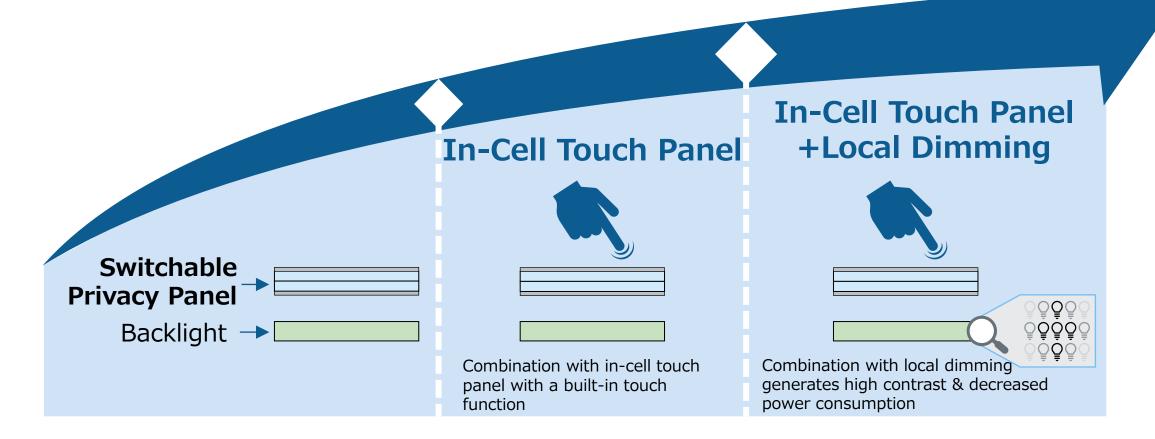
AutoTech | Switchable Privacy Technology







JDI's privacy technology has an independent switchable function that does not affect LCD & backlight design, allowing it to be combined with in-cell touch panels & local dimming backlights



eLEAP

HMO

Metaverse

Rælclear **AutoTech** New Tech

JDI



AutoTech | Switchable Privacy Technology

Privacy technology is suitable for large displays the driver & passenger, as it allows privacy features on only a portion of the screen

Privacy Mode (While Driving)



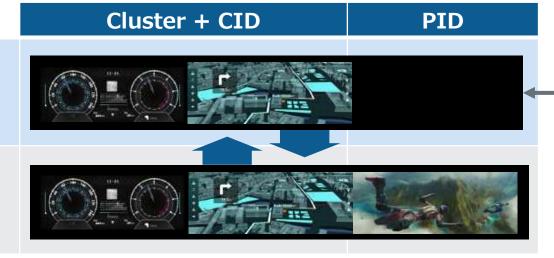


Public Mode

Demand rapidly increasing

Demand rapidly increasing for large displays, which integrate the driver seat display (cluster), CID, & passenger seat display (PID) Privacy Mode

> Public Mode



Privacy function can be applied only to PID

CID = Center Information Display PID = Passenger Information Display

eLEAP

НМО

Metaverse

Rælclear

AutoTech

New Tech



AutoTech | Head-Up Display (HUD)









HUD's higher image quality & functionality supports safer & more comfortable driving



Because HUD projects information to the front window, drivers have little eye movement which is safer & more convenient. Demand for HUD technology continues to grow



Better Visibility

Advanced Image Quality

- Higher resolution
- Superior brightness
- Larger screen sizes

More Realistic

Advanced Functionality

- AR HUD
- 3D HUD

Sharp image

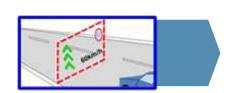




High resolution, high aperture ratio LTPS High-efficiency liquid crystal technology

AR (Augmented Reality) HUD







Liquid crystal lenses & light field technology

eLEAP

HMO

Metaverse

Rælclear

AutoTech

New Tech

Slide 72



AutoTech | Product Introduction



Integrated Cockpit



Integrated Cockpit Display

Stylish integrated cockpit design with in-cell touch functionality

3-in-1 Tiling/ Free Shape/ Curved Surface (Concave R800) to 2000mm)/ In-Cell Touch Panel



6.8" Operation Panel (in-cell touch panel)

14" Cluster

12.6" CID (in-cell touch panel)

High Value Add



Switchable Privacy Display

Privacy technology required for passenger side display of the integrated cockpit



Privacy ON



Passenger side display seen from the driver's seat

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R&D Strategy
New Tech, Products, &
Businesses

Yoshiharu Nakajima Chief Technology Officer Head of R&D Division



New Tech, Products, & Businesses | R&D Strategy Overview



Expand applications of JDI's Global No.1 technologies through continuous technological innovation Deliver products & solutions beneficial for people, society, & the earth itself via the power of technology



eLEAP

HMO

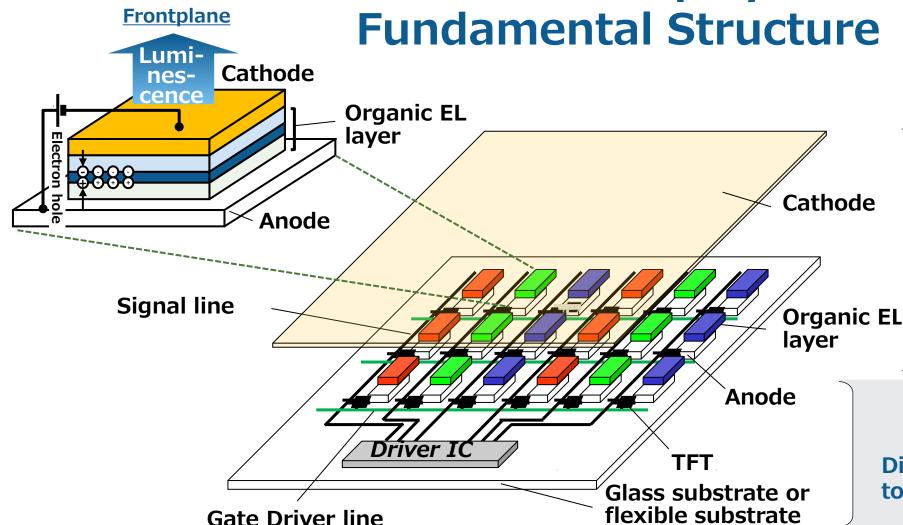
Rælclear

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OLED Display Fundamental Structure



Frontplane

Converts electric signals distributed to each pixel by the backplane into optical signals to generate images

Backplane

Distributes electrical signals to each pixel

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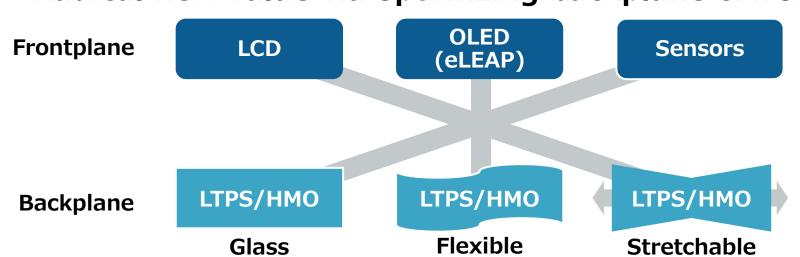
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New Tech, Products, & Businesses | JDI's Core Tech Evolution



- Driving the further advancement of world-leading backplane technology
- Radical new value via optimizing backplane & frontplane combinations





- NextGen OLED
- Ultra High Resolution Displays

Substrate

- **Transparent Displays**
- Micro LED



Substrate

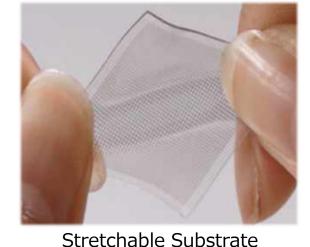
New Sensor Development

Substrate

- Large Authentication Sensors
- Non-Contact Sensors

Metaverse

Biometric Sensors











HMO

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New Tech, Products, & Businesses | Leading Edge Technologies



Customer Value

eLEAP (Next-Generation OLED)

- High-brightness, long-life, high resolution, & GreenTech
- Support wide range of shapes & sizes



HMO (High Mobility Oxide)

- Ultra-low power consumption, high resolution, & large display size capability
- Fundamental technology for G8/G10 fabs



Metaverse (Ultra High Resolution)

- Unparalleled sense of reality & immersion
- High yields & outstanding quality



Customer Value

AutoTech

- EV-focused, best-in-class integrated cockpit development
- Advanced HUD for higher driving safety



Rælclear (Transparent Display)

- World's highest transparency
- Social contribution by enabling more interactive & inclusive communication



eLEAP



New Tech, Products, & Businesses | New Application



Developing new products & solutions to address important social needs, leveraging JDI's deep technology capabilities



Support for public & personal health through contactless hover sensors



JDI technology innovation in ultra high speed, high bandwidth NextGen telecom



Supporting self-diagnostics & remote care with biometric sensor technology



eLEAP

Rælclear



New Tech, Products, & Businesses | Hover Sensors



Provide non-contact user interface for hygienic use by leveraging JDI's widely used Pixel Eyes in-cell touch technology



+ Transparent Display

Video Link (YouTube):

Hyperlink

Add-On Hover Sensor

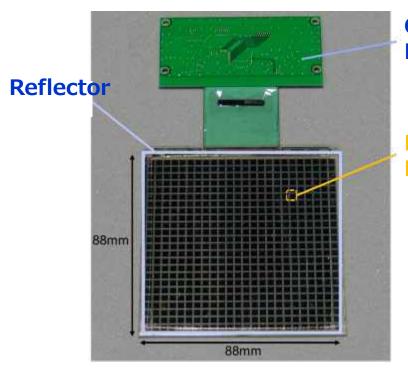
Sensor area size: c. 304 mm x 228 mm Medical & industrial use, reception, self-checkout, elevators, etc. Sensor area size: c. 292 mm x 109 mm Ticket vending machines at public facilities, menu tables, etc.

Metaverse



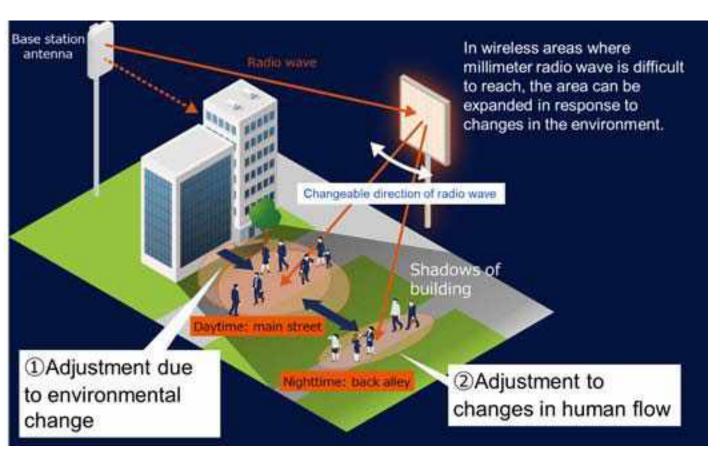


World's first liquid crystal meta-surface reflector changes radio wave direction to allow for flexible expansion of 5G service areas



Control Board

Reflecting Element



eLEAP

HMO

Metaverse

AutoTech

Rælclear

New Tech

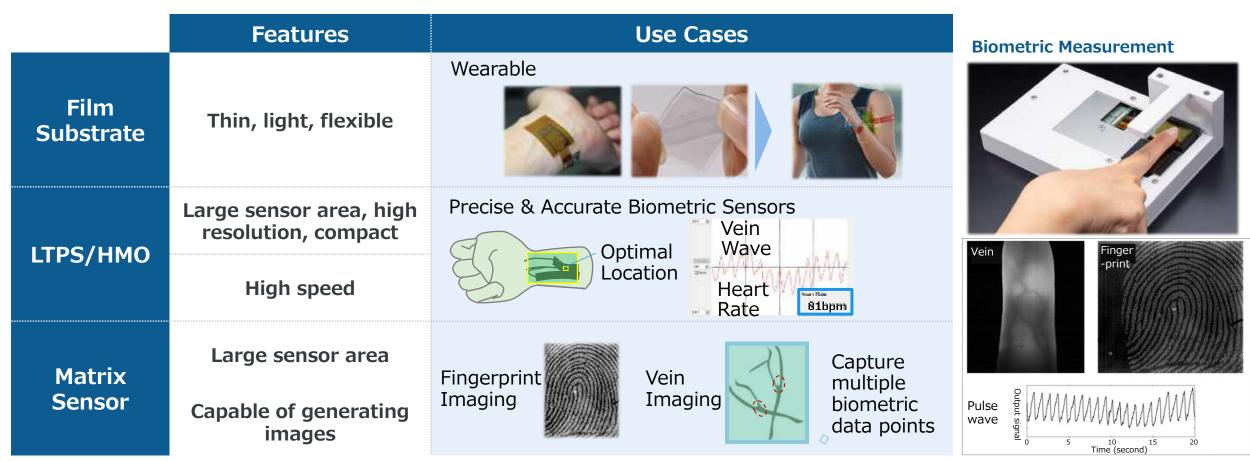


New Tech, Products, & Businesses | Biosensors



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Applying TFT technology to thin, light, curved, & flexible matrix sensors for wearable biosensor applications



eLEAP

Part of these researches were conducted with the support of the Japan Science and Technology Agency.



PersonalTech For A Better World







Thank You!

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