

Press Release April 17, 2024

New lineup for HALDiS™ by OCTEC Corporation

Released in three series by technology

-- Reproduces real and ultra-high brightness and color with high accuracy. Maximum luminance 10,000 to 300,000 cd/m2--

OCTEC (Office: 2-8-22 Nakane, Meguro-ku, Tokyo; President: Kopff Pierre) is a Japanese company that develops and markets innovative solutions for luminance (brightness) and color reproduction. Its main customers are major automotive industry and image sensor companies.

By displaying images with a luminance of 10,000 cd/m² or more (the maximum luminance of a normal display is 300 to 1500 cd/m²), without using effects, you can experience, measure, and verify brightness indoors just the way you would perform that outdoors. Using our control software, input image data can be reproduced with high precision and high luminance.

We are pleased to announce the release of a lineup of three series of HALDiS™, our real and ultra-brightness display system, by technology, for a total of 6 series.

HALDiS™ 3 Series by Technology

HALDiS™ has been divided into three series by technology:
HALDiS-S, HALDiS-C, and HALDiS-T.

The features of each series and examples of typical applications are shown below (see the table in the image file for details on the six lineups).

HALDiS-S (Features)

- ✓ Provides accurate luminance display and measurement environment
- ✓ Multi-Image & Multimedia, Fully Automated Calibration (New Release)
- ✓ Actual luminance display enables sensory confirmation of appearance, such as flashing, brightness, darkness, etc.
- ✓ Capable of detecting irregularities that are difficult to see on the CG display of a normal display
- ✓ Ability to display multiple data in parallel for comparative analysis and list display

(Typical applications)

- Virtual prototyping: design evaluation, algorithm evaluation such as ADB control
- New product presentations and benchmarking (industrial products, construction, etc.)
- Camera test bench and driving simulator (visual function)

*Virtual prototyping is the process of developing a product by creating a virtual prototype on a computer and predicting its performance.

HALDiS-C (Features)

- ✓ Provides accurate luminance display and measurement environment
- ✓ High brightness ultra high contrast (contrast ratio 1 : 5 000 000 or higher)
- ✓ Fully automated calibration function (new release)
- ✓ Enables performance verification as well as logic verification of cameras for ADAS

(Typical applications)

- Camera test bench (HDR cameras can also be verified)
- Glare Reproduction Nighttime Scene Response (High Brightness + Ultra High Contrast)
- Wide viewing angle camera compatible (with converter lens)

HALDiS-T (Features)

- ✓ Providing an optimized display method tailored to the characteristics of human vision (new release)
- ✓ Fully automated calibration function (new release)

(Examples of typical applications)

- High brightness projection for home theaters and halls
- Special format content projection for viewing (new release)

Of the above series, HALDiS-S with the new release function will be exhibited at the Automotive Engineering Exposition 2024 YOKOHAMA to be held from May 22 (Wed) to 24 (Fri), 2024, and at the Automotive Engineering Exposition 2024 NAGOYA to be held from July 17 (Wed) to 19 (Fri), 2024. Exhibitor seminars will be held at both exhibitions (online format, with on-site seminar in Nagoya).

Automotive Engineering Exposition 2024 YOKOHAMA Exhibition

- ① Dates: Wednesday, May 22 - Friday, May 24, 2024
- ② Venue: Pacifico Yokohama
- ③ Hours: 10:00-18:00 (9:00-16:00 on the last day)
- ④ Booth No.: 190

Automotive Engineering Exposition 2024 NAGOYA Exhibition

- ① Dates: Wednesday, July 17 - Friday, July 19, 2024
- ② Venue: Aichi International Exhibition Hall (Aichi Sky Expo)
- ③ Hours: 10:00-18:00 (until 17:00 on the last day)
- ④ Booth No.: 89

Octec Corporation

Octec Corporation is a Japanese company that develops, manufactures, and sells innovative solutions ("HALDiS™", "oT-Record™", "oT-Sim™", consulting, etc.) to accurately "measure", "reproduce", "display", and "verify" indoor the luminance and color environment which prevails outdoor.

Image description

Image 1. Main image

Line-up image of HALDiS typical models

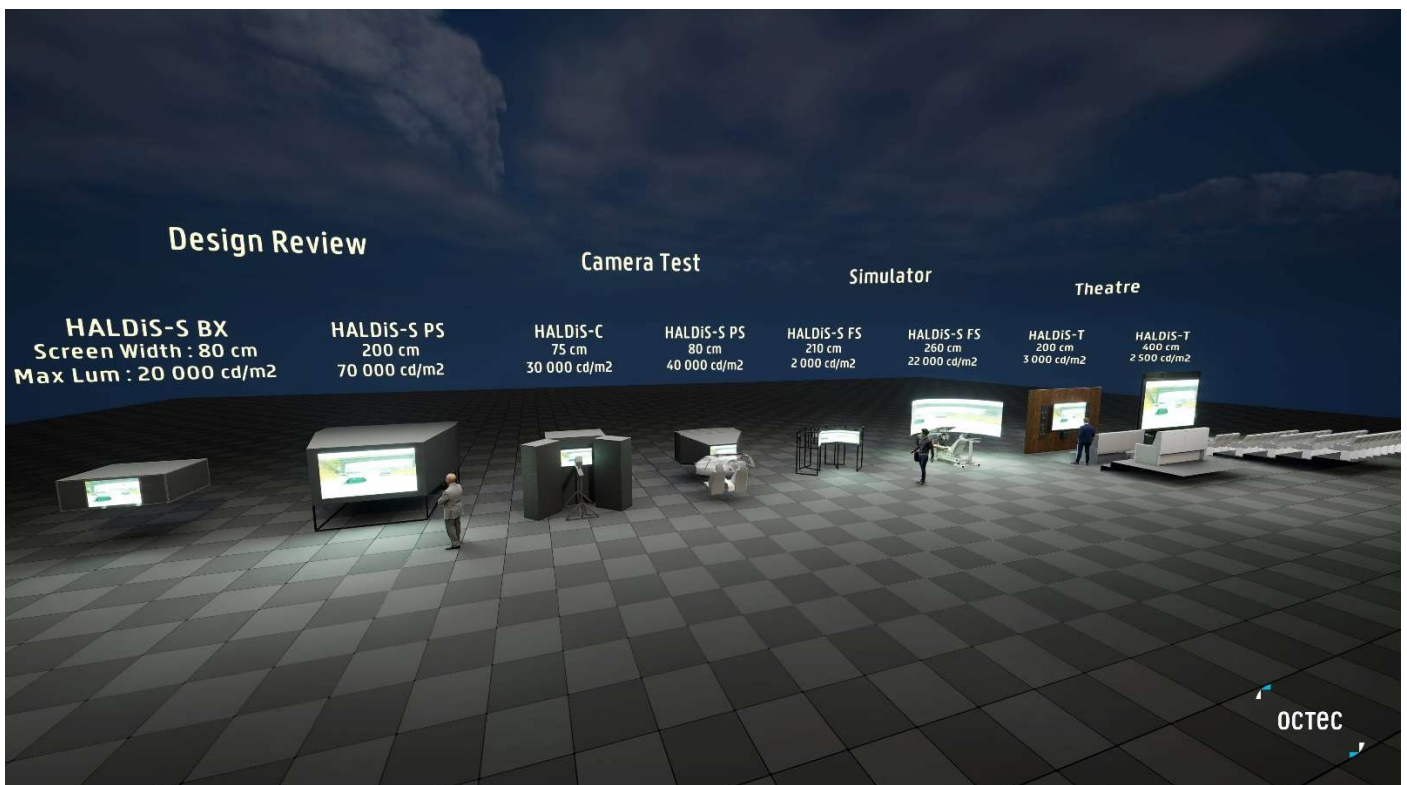


Image 2: Title image



Image 3 : summarized presentation of HALDiS series by technology

HALDiS

Very high and accurate luminance display on screen

3 technologies and 6 series of models

HALDiS S

Typical applications :


- Virtual prototyping (Industrial, architectural)
- Driving simulator
- Camera test bench for day-time test scenarios

3 series

BX : box shaped system for broad applications and easiness of use. Standard sizes but full optical quality

PS : planar screen with system half custom engineered adapted to specific applications and environment

FS : free shape of screen for even more demanding specific applications. Fully custom engineered systems



HALDiS C

Typical application :

- Camera test bench for night-time test scenarios


1 series

screen size from 28 to 40 inches

Huge contrast ratio of more than 1 : 5 millions

Maximum luminance : 25 000 cd/m2

Converter lens device for wide scope cameras



System size: W 1.80m x D 2.70m x H 1.95m (including camera bed)

Power : 7 000 W

Dark environment needed

HALDiS T

Typical applications :

- Home cinema
- Auditorium

2 series

HT : home theatre with screen width up to 2.0m

ST : with screen width over 2.0m

Balanced maximum luminance level and contrast, suited for unique shining viewing experience




Image 4 : specifications of HALDiS series by technology

HALDiS		3 technologies • specifications		Typical applications
Very high and accurate luminance display on screen				
HALDiS	S	Dynamic range	: from around 1 : 1 000 to 15 000	<ul style="list-style-type: none"> Virtual prototyping (industrial, architectural) Driving simulator Camera test bench for day-time test scenarios
		Maximum luminance	: 300 000 cd/m ² (depends on the parts assembled in the system)	
HALDiS	C	Typical ranges	: 60 to 60 000 cd/m ² daylight scenes or design review with sun reflection	<ul style="list-style-type: none"> Camera test bench for night-time test scenarios
		Typical ranges	: 45 to 45 000 cd/m ² design review of headlight block or tail-lamp block	
HALDiS	T	Typical ranges	: 3.0 to 3000 cd/m ² design review of industrial product	<ul style="list-style-type: none"> Home cinema Auditorium
		Typical ranges	: 0.06 to 60 cd/m ² headlight on driving scenery at night with reflection by traffic signs	
		tile composed image may be displayed with combination of different dynamic ranges		
		Typical sizes (width of display)	: 90, 120, 190, 400, 550 cm	
		Number of viewing spots	: basically only one or only few close to the standard viewing spot	
		Resolution	: from FHD to 8K or event more	
		Display functions	: free multiple image + multimedia vision and scale (input of design software data, images, videos, simulation ..)	
		Dynamic range	: more than 1 : 5 000 000	
		Maximum luminance	: 50 000 cd/m ²	
		Typical ranges	: 0.01 to 50 000 cd/m ² full night traffic scene with facing traffic headlight, signs, etc	
		Typical ranges	: tunnel scene with LED lighting	
		Typical ranges	: entry and exit of tunnel, underpass	
		Typical sizes (width of display)	: 25 to 32 inch (diagonal) W/H ratio = 16/9	
		Number of viewing spots	: basically only one = tested camera	
		Resolution	: basically FHD	
		Display function	: replay of recorded HDR video or play of simulated scene or simulation scenario	
		<ul style="list-style-type: none"> ✓ HALDiS-T is a specific version of HALDiS-S system regarding the display technology. ✓ Display function is different in line with the purpose of public viewing 		
		Dynamic range	: around 1 : 2 000 ~ 5 000	
		Maximum luminance	: 3 000 cd/m ² on a large screen for public viewing (in order to avoid inconvenient glare)	
		Typical ranges	: 1.5 to 3 000 cd/m ² all kinds of scenes	
		Typical ranges	: 0.01 to 20 cd/m ² for night scene, exploration of space, etc	
		tile composed image may be displayed with combination of different dynamic ranges		
		Typical sizes (width of display)	: 200, 300, 400 cm, till 12 m .. or even more	
		Number of viewing spots	: theater seats arranged in accordance of cinema design standards	
		Resolution	: FHD display of 4K to 8K sources	
		Display functions	: replay of videos with possible variation of dynamic range in accordance to the scenario	

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