ALL IN ONE LED WALL

LEDECA
ALWAYS BRIGHT

MEETING ROOM • SHOWROOM • RETAIL
HOME CINEMA • MUSEUM • AND MORE

www.ledeca.com

ADVANTAGES

Highly targeted

WinkieCity provides DOOH campaigns having the ability to target audiences via a multitude of different criterias such as location, environment, timeslot, demographics and behavioural patterns.

WinkieCity DOOH entful experiences that improve brand recall as well as engagement.

Interactive friendly

DOOH's superior targeting capabilities make it easy for advertisers to improve performance across the board.
Offering r

Flexibility

DOOH campaigns can be easily amended remotely and in real-time. This means brands can quickly update creatives to make sure that their wider business aims are being served at all times.

This freedtinually optimised to ensure that there are no dips in performance.

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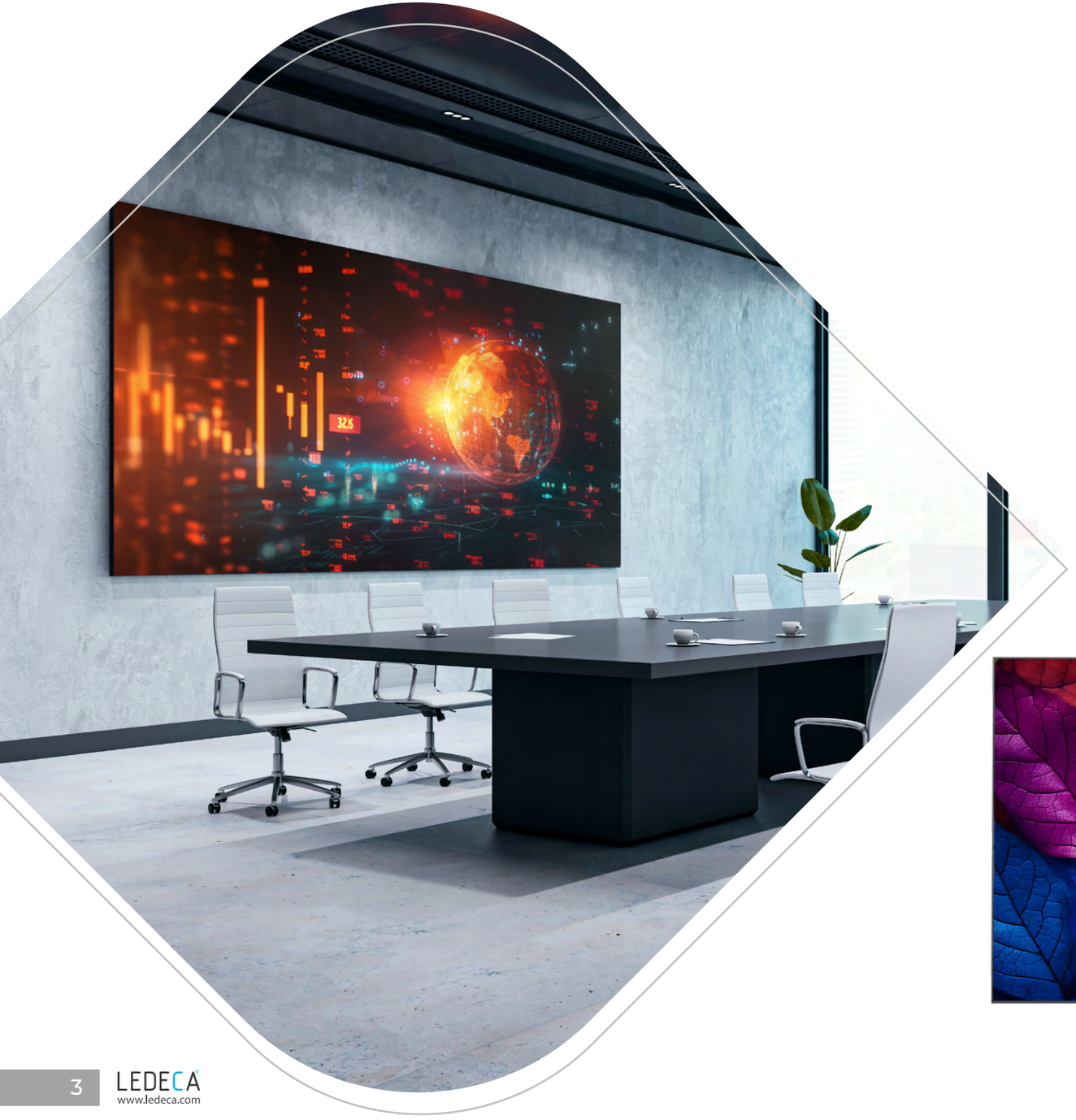

ADVANTAGES

Dynamic & Efficient

LEDECA WinkieCity DOOH solutions enables hyper-targeting in advertising. Hyper-targeting allows advertisers to tailor their messages not only based on the user's location but also by considering the time of day. This dynamic advertising approach aims to en

Flexibility for Advertisers

WinkieCity DOOH provides more flexibility for advertisers. Campaigns can be adapted in real-time, without having to send an expert out to tear down the poster and start again.

Active, Interactice, Productive

WinkieCity can be implement with interactive features such as touchscreens and inbuilt cameras possible, opening up a new world of interactivity.

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PURE COLORS

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COLD SURFACE

With optional high technology solution developed by LEDECA, the surface temperature of the LED wall is lower than the body temperature.

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EYE PROTECTION

Surface light source design, uniform light output, softer and more eye-protecting.

Blue light protection aims to mitigate the potential effects of high-energy visible (HEV) light on eye comfort and the body's natural rhythms.

Reduction of "Visual Noise": Blue light has short wavelengths that scatter more easily than other colors. This scattering can create "visual noise" that reduces contrast, potentially making it harder for the eyes to focus.

LEDECA uses Intelligent Dynamic Light Adjustment software while driving each LED to reduce flicker. This embedded software helps prevent low brightness levels that lead to high-speed flashing of the LEDs, which in turn helps minimize instances of eyestrain that can result when using the monitor for long periods. The result is a more comfortable extended viewing experience.

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INSTALLATION

PORTABLE STAND ALONE STRUCTURE

Standalone structure that offer unmatched flexibility and independence.
Portable all in one LED product comes according to various shapes and sizes, each tailored to different moving needs.

EFFICIENT INSTALLATION

The LEDECA All In One Led Wall offers simple installation to eliminate setup headaches and no need for expert support. Quick splicing for easy installation, wall-mounted design reduces installation difficulty, fine-tuned flatness level, all front maintenance provides replacement of LED module spare parts in seconds.

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CUSTOM STARTUP & INPUTS

Tailor startup content, input priorities, and HDMI wake-up to fit your workflow.

SCREEN SHARING

Compatible with multiple platforms, the LEDECA All In One LED Wall supports seamless wireless mirroring. Whether presenting documents, streaming videos, or conducting video conferences, users can cast content from their devices with minimal latency. It also supports split-screen functionality, enabling up to nine simultaneous displays for multitasking scenarios. You can also use wired screen sharing inputs such as HDMI, etc.

REMOTE CONTROLLER

Use the included Bluetooth voice remote for intuitive navigation and playback management.

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SMART CONFIGURATION AND QUICK SETUP

You can scan a QR code using the VNNOX Care app to automatically download configuration files and activate the LEDECA All In One LED Wall. The innovative topology mapping feature allows screen connection in just five seconds via photo capture, while automatic brightness calibration ensures uniformity without specialized equipment.

ADVANCED DISPLAY AND AUDIO CAPABILITIES

Equipped with Gigabit Ethernet outputs, the LEDECA All In One LED Wall Playback Control Processor handles resolutions up to 8K pixels. Its image enhancement technology improves contrast, detail, and color vibrancy, while the Eye Comfort Mode reduces blue light emission for prolonged viewing. On the audio front, it includes both SPDIF digital and 3.5-mm analog outputs for crystal-clear sound.

ROBUST CONNECTIVITY AND EXPANDABILITY

Inputs: HDMI 1.3, HDMI 2.0, USB 2.0
Outputs: Gigabit Ethernet, HDMI OUT, SPDIF, and 3.5-mm audio
Control Ports: RS232, sensor connectors and relay terminals.

This versatility allows the device to connect to cameras, sound systems, and infrared touch frames, making it suitable for diverse environments.

Hi-Res AUDIO | 2K QUAD HD | 4K ULTRA HD | 8K ULTRA HD

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PIXEL PITCH & SCREEN RESOLUTION

Selecting the appropriate pixel pitch is crucial when choosing an LED video wall to ensure optimal viewing experiences. Pixel pitch refers to the distance between adjacent pixels. Smaller pixel pitch is recommended for sharper images. Choosing the smallest pixel pitch is better? Sure no, as finer pixel pitches often come at a higher cost. By aligning pixel pitch with viewing needs, users can strike a balance between image quality, budget, and application requirements for an optimum LED wall pixel pitch selection.

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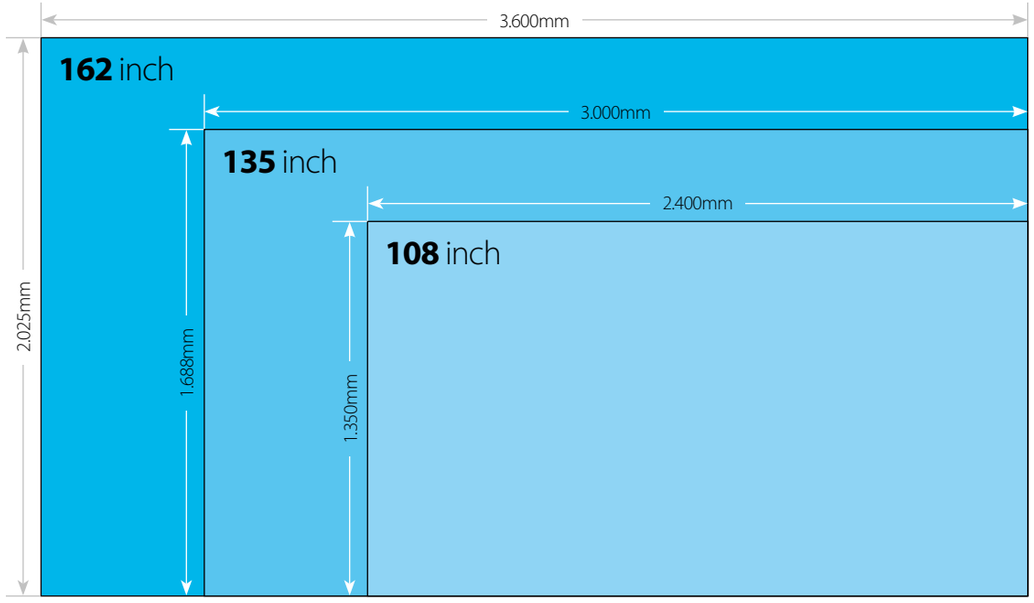
TECHNICAL SPECIFICATIONS

	LDSISP00.7UL	LDSISP00.9UL	LDSISP01.2UL	LDSISP01.5UL	LDSISP01.8UL
108" Product Specifications					
Product size	2.400x1.350mm	2.400x1.350mm	2.400x1.350mm	2.400x1.350mm	-
Product resolution	3.072x1.728px	2.560x1.440px	1.920x1.080	1.536x864px	-
135" Product Specifications					
Product size	3.000x1.688mm	3.000x1.688mm	3.000x1.688mm	3.000x1.688mm	3.000x1.688mm
Product resolution	3.840x2.160px	3.200x1.800px	2.400x1.350px	1.920x1.080px	1.600x900px
162" Product Specifications					
Product size	3.600x2.025mm	3.600x2.025mm	3.600x2.025mm	3.600x2.025mm	3.600x2.025mm
Product resolution	4.608x2.592px	3.840x2.160px	2.880x1.620px	2.304x1.296px	1.920x1.080px



	LDSISP00.7UL	LDSISP00.9UL	LDSISP01.2UL	LDSISP01.5UL	LDSISP01.8UL
General					
Operating environment	indoor	indoor	indoor	indoor	indoor
Pixel pitch	0.7mm	0.9mm	1.2mm	1.5mm	1.8mm
Service type	front and rear access	front and rear access	front and rear access	front and rear access	front and rear access
Calibrated brightness (nits)	>800nits	>800nits	>800nits	>800nits	>800nits
Lamp type	Flip Chip COB Micro LED	Flip Chip COB Micro LED	Flip Chip COB Micro LED	Flip Chip COB Micro LED	Flip Chip COB Micro LED
Lifespan (hours at %50 brightness)	>100.000hours	>100.000hours	>100.000hours	>100.000hours	>100.000hours
White color calibration (adj.)	3.000K~8.500K	3.000K~8.500K	3.000K~8.500K	3.000K~8.500K	3.000K~8.500K
Gray scale	>16bits	>16bits	>16bits	>16bits	>16bits
Brightness control	256 level	256 level	256 level	256 level	256 level
Module Specifications					
Refresh frequency	3.840Hz	3.840Hz	3.840Hz	3.840Hz	3.840Hz
LED drive method	dynamic	dynamic	dynamic	dynamic	dynamic
Module material	aluminum	aluminum	aluminum	aluminum	aluminum
Module type	apparent	apparent	apparent	apparent	apparent
PCB type	multilayer	multilayer	multilayer	multilayer	multilayer
PCB surface coating	humiseal	humiseal	humiseal	humiseal	humiseal
Panel Specifications					
Panel material	aluminum	aluminum	aluminum	aluminum	aluminum
Panel dimensions (mm)[1]	600x337.5	600x337.5	600x337.5	600x337.5	600x337.5
Diagonal size	27"[16:9]	27"[16:9]	27"[16:9]	27"[16:9]	27"[16:9]
Panel weight	<8kg	<8kg	<8kg	<8kg	<8kg
Panel resolution	768x432px	640x360px	480x270px	384x216px	320x180px
Pixel density (pcs/sqm)	1.638.400	1.137.778	640.000	409.600	284.444
Viewing angle (horizontal x vertical)	>175° x 175°	>175° x 175°	>175° x 175°	>175° x 175°	>175° x 175°
Minimum viewing distance	>0.7m	>0.9m	>1.2m	>1.5m	>1.8m
Operating temperature range	0°C ~ +50°C	0°C ~ +50°C	0°C ~ +50°C	0°C ~ +50°C	0°C ~ +50°C
Storage temperature range	-20°C ~ +60°C	-20°C ~ +60°C	-20°C ~ +60°C	-20°C ~ +60°C	-20°C ~ +60°C
Operating humidity	10% ~ 90% non-condensing	10% ~ 90% non-condensing	10% ~ 90% non-condensing	10% ~ 90% non-condensing	10% ~ 90% non-condensing
Power input voltage	110 ~ 240 VAC	110 ~ 240 VAC	110 ~ 240 VAC	110 ~ 240 VAC	110 ~ 240 VAC
Power input frequency	50 ~ 60 Hz	50 ~ 60 Hz	50 ~ 60 Hz	50 ~ 60 Hz	50 ~ 60 Hz
Average power per sqm	<80W	<80W	<80W	<80W	<80W
Max power per sqm	<400W	<400W	<400W	<400W	<400W
Active PFC	YES	YES	YES	YES	YES
Load tolerance[2]	25% min.	25% min.	25% min.	25% min.	25% min.
Panel installation type	Fixed installation	Fixed installation	Fixed installation	Fixed installation	Fixed installation
Cooling	Passive cooling	Passive cooling	Passive cooling	Passive cooling	Passive cooling
Other					
Max input resolution	FHD, UHD, 4K, 8K	FHD, UHD, 4K, 8K	FHD, UHD, 4K, 8K	FHD, UHD, 4K, 8K	FHD, UHD, 4K, 8K
Standard video sources[3]	All digital formats	All digital formats	All digital formats	All digital formats	All digital formats
Brightness adjustment	Automatic & manual	Automatic & manual	Automatic & manual	Automatic & manual	Automatic & manual
Death pixel monitoring	Optional	Optional	Optional	Optional	Optional
Module monitoring	YES	YES	YES	YES	YES
Temperature monitoring	YES	YES	YES	YES	YES
Smoke monitoring	Optional	Optional	Optional	Optional	Optional
Voltage monitoring	YES	YES	YES	YES	YES
Power redundancy	N/A	N/A	N/A	N/A	N/A
Signal path backup	YES	YES	YES	YES	YES
Signal transmission	CAT or Fiber Optic	CAT or Fiber Optic	CAT or Fiber Optic	CAT or Fiber Optic	CAT or Fiber Optic
Standby scheduling	YES	YES	YES	YES	YES
Power on/off scheduling	Optional	Optional	Optional	Optional	Optional
Power saving mode	YES	YES	YES	YES	YES
Certification	CE-EMC, CE-LVD, RoHS, FCC	CE-EMC, CE-LVD, RoHS, FCC	CE-EMC, CE-LVD, RoHS, FCC	CE-EMC, CE-LVD, RoHS, FCC	CE-EMC, CE-LVD, RoHS, FCC
Options					

*The mechanical and electronic specification options are available.

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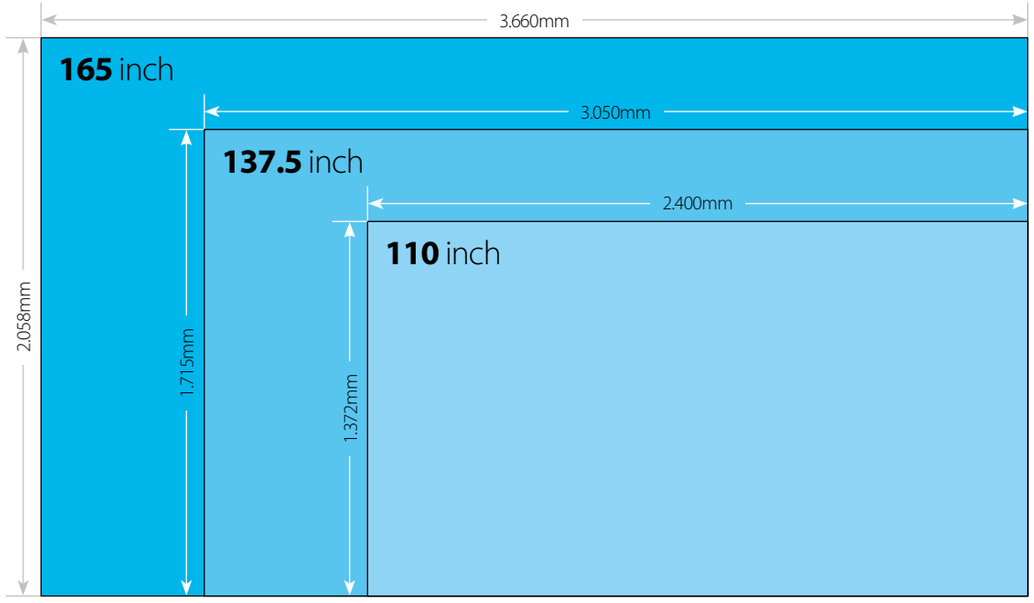
Product resolution	3.072x1.728px	2.560x1.440px	1.920x1.080	1.536x864px	-
137.5" Product Specifications					
Product size	3.050x1.715mm	3.050x1.715mm	3.050x1.715mm	3.050x1.715mm	3.050x1.715mm
Product resolution	3.840x2.160px	3.200x1.800px	2.400x1.350px	1.920x1.080px	1.600x900px
165" Product Specifications					
Product size	3.660x2.058mm	3.660x2.058mm	3.660x2.058mm	3.660x2.058mm	3.660x2.058mm
Product resolution	4.608x2.592px	3.840x2.160px	2.880x1.620px	2.304x1.296px	1.920x1.080px



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Service type	front access	front access	front access	front access	front access
Calibrated brightness (nits)	>800nits	>800nits	>800nits	>800nits	>800nits
Lamp type	Flip Chip COB Micro LED	Flip Chip COB Micro LED	Flip Chip COB Micro LED	Flip Chip COB Micro LED	Flip Chip COB Micro LED
Lifespan (hours at %50 brightness)	>100.000hours	>100.000hours	>100.000hours	>100.000hours	>100.000hours
White color calibration (adj.)	3.000K~8.500K	3.000K~8.500K	3.000K~8.500K	3.000K~8.500K	3.000K~8.500K
Gray scale	>16bits	>16bits	>16bits	>16bits	>16bits
Brightness control	256 level	256 level	256 level	256 level	256 level
Module Specifications					
Refresh frequency	7.680Hz	7.680Hz	7.680Hz	7.680Hz	7.680Hz
LED drive method	dynamic	dynamic	dynamic	dynamic	dynamic
Module material	aluminum	aluminum	aluminum	aluminum	aluminum
Module type	apparent	apparent	apparent	apparent	apparent
PCB type	multilayer	multilayer	multilayer	multilayer	multilayer
PCB surface coating	humiseal	humiseal	humiseal	humiseal	humiseal
Panel Specifications					
Panel material	aluminum	aluminum	aluminum	aluminum	aluminum
Panel dimensions (mm)[1]	610x343	610x343	610x343	610x343	610x343
Diagonal size	27.5"[16:9]	27.5"[16:9]	27.5"[16:9]	27.5"[16:9]	27.5"[16:9]
Panel weight	<8kg	<8kg	<8kg	<8kg	<8kg
Panel resolution	768x432px	640x360px	480x270px	384x216px	320x180px
Pixel density (pcs/sqm)	1.585.700	1.101.180	919.414	396.425	275.295
Viewing angle (horizontal x vertical)	>175° x 175°	>175° x 175°	>175° x 175°	>175° x 175°	>175° x 175°
Minimum viewing distance	>0.7m	>0.9m	>1.2m	>1.5m	>1.8m
Operating temperature range	0°C ~ +50°C	0°C ~ +50°C	0°C ~ +50°C	0°C ~ +50°C	0°C ~ +50°C
Storage temperature range	-20°C ~ +60°C	-20°C ~ +60°C	-20°C ~ +60°C	-20°C ~ +60°C	-20°C ~ +60°C
Operating humidity	10% ~ 90% non-condensing	10% ~ 90% non-condensing	10% ~ 90% non-condensing	10% ~ 90% non-condensing	10% ~ 90% non-condensing
Power input voltage	110 ~ 240 VAC	110 ~ 240 VAC	110 ~ 240 VAC	110 ~ 240 VAC	110 ~ 240 VAC
Power input frequency	50 ~ 60 Hz	50 ~ 60 Hz	50 ~ 60 Hz	50 ~ 60 Hz	50 ~ 60 Hz
Average power per sqm	<80W	<80W	<80W	<80W	<80W
Max power per sqm	<400W	<400W	<400W	<400W	<400W
Active PFC	YES	YES	YES	YES	YES
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Panel installation type	Fixed installation	Fixed installation	Fixed installation	Fixed installation	Fixed installation
Cooling	Passive cooling	Passive cooling	Passive cooling	Passive cooling	Passive cooling
Other					
Max input resolution	FHD, UHD, 4K, 8K	FHD, UHD, 4K, 8K	FHD, UHD, 4K, 8K	FHD, UHD, 4K, 8K	FHD, UHD, 4K, 8K
Standard video sources[3]	All digital formats	All digital formats	All digital formats	All digital formats	All digital formats
Brightness adjustment	Automatic & manual	Automatic & manual	Automatic & manual	Automatic & manual	Automatic & manual
Death pixel monitoring	Optional	Optional	Optional	Optional	Optional
Module monitoring	YES	YES	YES	YES	YES
Temperature monitoring	YES	YES	YES	YES	YES
Smoke monitoring	Optional	Optional	Optional	Optional	Optional
Voltage monitoring	YES	YES	YES	YES	YES
Power redundancy	N/A	N/A	N/A	N/A	N/A
Signal path backup	YES	YES	YES	YES	YES
Signal transmission	CAT or Fiber Optic	CAT or Fiber Optic	CAT or Fiber Optic	CAT or Fiber Optic	CAT or Fiber Optic
Standby scheduling	YES	YES	YES	YES	YES
Power on/off scheduling	Optional	Optional	Optional	Optional	Optional
Power saving mode	YES	YES	YES	YES	YES
Certification	CE-EMC, CE-LVD, RoHS, FCC	CE-EMC, CE-LVD, RoHS, FCC	CE-EMC, CE-LVD, RoHS, FCC	CE-EMC, CE-LVD, RoHS, FCC	CE-EMC, CE-LVD, RoHS, FCC
Options					

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ALWAYSBRIGHT

SCAN for more

ALLINONE LEDTV BROCHURE

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