CITYLINE

LDAOMP01.2CL

OUTDOOR FINE PITCH LED SCREENS FOR DIGITAL OUT-OF-HOME MESSAGING & PROFFESSIONAL INSTALLATIONS

Armour
LEDECA

LOWER CARBON
40% EMISSION

- New generation full-flip chip microLED technology
- Aluminum fanless design for high performance under extreme conditions
- Adjustable brightness optionally up to 6.500nits
- Lower power consumption with common-cathode technology
- Lightweight for easy adaptation and low cost framework design
- Production level calibration for best color uniformity

LEDECA OUTDOOR
FINE PITCH SOLUTIONS

General	
Operating environment	outdoor
Pixel pitch	1.25mm
Service type	front and rear access
Calibrated brightness (nits)	3.800nits
Lamp type	Flip-Chip Micro
Lifespan (hours at %50 brightness)	>80.000hours
White color calibration (adj.)	3.500K~8.500K
Gray scale	>24bits
Brightness control	256 level
Module Specifications	
Module dimensions (mm)	160x360
Refresh frequency	3.840Hz
Module resolution	128x288px
LED drive method	dynamic
Module material	aluminum
Module type	sealed
PCB type	multilayer
Surface coating	UV resistant & high contrast
Panel Specifications	
Panel material	aluminum
Panel paint	ES powder coated
Panel dimensions (mm)[1]	640x360
Panel depth	70mm
IP level	IP65 rear
Panel weight	8.5kg
Panel resolution	512x288px
Pixel density (pcs/sqm)	640.000
Viewing angle (horizontal x vertical)	175° x 160°
Minimum viewing distance	>1.2m
Operating temperature range	-20°C ~ +40°C
Storage temperature range	-30°C ~ +60°C
Operating humidity	10% ~ 80% non-condensing
Power input voltage	100 ~ 240 VAC
Power input frequency	50~60Hz
Average power per sqm	<200W
Max power per sqm	<600W
Active PFC	YES
Load tolerance[2]	25% min.
Panel installation type	Fixed installation
Cooling	Passive cooling without fan
Other	
Max input resolution	FHD, UHD, 4K, 8K
Standard video sources[3]	All digital formats
Brightness adjustment	Automatic & manual
Death pixel monitoring	Optional
Module monitoring	YES
Temperature monitoring	YES
Smoke monitoring	Optional
Voltage monitoring	YES
Power redundancy	N/A
Signal path backup	YES
Signal transmission	CAT or Fiber Optic
Standby scheduling	YES
Power on/off scheduling	Optional
Power saving mode	YES
Certification	CE-EMC, CE-LVD, RoHS, FCC
Options	
Contrast ratio	10.000:1
Higher Brightness - CLX	6.500nits
Corner installation	N/A

*The mechanical and electronic specification options are available.

1- Panel dimensions can change upon customer request
2- That value is the remain capacity of PSU's at 100% brightness and white color content
3- Different types of video input available as option

Front Access | Lightweight | Slim | Temp Monitoring | Smoke Monitoring | Voltage Monitoring | Remote Control | Easy To Install | Wide Angle | High Refresh Rate | Transparent | Noiseless | Calibration | Pixel Detection | Fanless

TECHNICALSPECIFICATIONS

LEDECA

CITYLINE

LDAOMP01.5CL

OUTDOOR FINE PITCH LED SCREENS FOR DIGITAL OUT-OF-HOME MESSAGING & PROFFESSIONAL INSTALLATIONS

Armour
LEDECA

LOWER CARBON
40% EMISSION

- New generation full-flip chip microLED technology
- Aluminum fanless design for high performance under extreme conditions
- Adjustable brightness optionally up to 6.500nits
- Lower power consumption with common-cathode technology
- Lightweight for easy adaptation and low cost framework design
- Production level calibration for best color uniformity

LEDECA OUTDOOR
FINE PITCH SOLUTIONS

General	
Operating environment	outdoor
Pixel pitch	1.53mm
Service type	front and rear access
Calibrated brightness (nits)	3.800nits
Lamp type	Flip-Chip Micro
Lifespan (hours at %50 brightness)	>80.000hours
White color calibration (adj.)	3.500K~8.500K
Gray scale	>24bits
Brightness control	256 level
Module Specifications	
Module dimensions (mm)	160x360
Refresh frequency	3.840Hz
Module resolution	104x232px
LED drive method	dynamic
Module material	aluminum
Module type	sealed
PCB type	multilayer
Surface coating	UV resistant & high contrast
Panel Specifications	
Panel material	aluminum
Panel paint	ES powder coated
Panel dimensions (mm)[1]	640x360
Panel depth	70mm
IP level	IP65 rear
Panel weight	8.5kg
Panel resolution	416x232px
Pixel density (pcs/sqm)	418.888
Viewing angle (horizontal x vertical)	175° x 160°
Minimum viewing distance	>1.5m
Operating temperature range	-20°C ~ +40°C
Storage temperature range	-30°C ~ +60°C
Operating humidity	10% ~ 80% non-condensing
Power input voltage	100 ~ 240 VAC
Power input frequency	50~60Hz
Average power per sqm	<200W
Max power per sqm	<600W
Active PFC	YES
Load tolerance[2]	25% min.
Panel installation type	Fixed installation
Cooling	Passive cooling without fan
Other	
Max input resolution	FHD, UHD, 4K, 8K
Standard video sources[3]	All digital formats
Brightness adjustment	Automatic & manual
Death pixel monitoring	Optional
Module monitoring	YES
Temperature monitoring	YES
Smoke monitoring	Optional
Voltage monitoring	YES
Power redundancy	N/A
Signal path backup	YES
Signal transmission	CAT or Fiber Optic
Standby scheduling	YES
Power on/off scheduling	Optional
Power saving mode	YES
Certification	CE-EMC, CE-LVD, RoHS, FCC
Options	
Contrast ratio	10.000:1
Higher Brightness - CLX	6.500nits
Corner installation	N/A

*The mechanical and electronic specification options are available.

1- Panel dimensions can change upon customer request
2- That value is the remain capacity of PSU's at 100% brightness and white color content
3- Different types of video input available as option

Front Access | Lightweight | Slim | Temp Monitoring | Smoke Monitoring | Voltage Monitoring | Remote Control | Easy To Install | Wide Angle | High Refresh Rate | Transparent | Noiseless | Calibration | Pixel Detection | Fanless

TECHNICALSPECIFICATIONS

LEDECA

CITYLINE

LDAOMP01.8CL

OUTDOOR FINE PITCH LED SCREENS FOR DIGITAL OUT-OF-HOME MESSAGING & PROFFESSIONAL INSTALLATIONS

Armour
LEDECA

LOWER CARBON
40% EMISSION

- New generation full-flip chip microLED technology
- Aluminum fanless design for high performance under extreme conditions
- Adjustable brightness optionally up to 6.500nits
- Lower power consumption with common-cathode technology
- Lightweight for easy adaptation and low cost framework design
- Production level calibration for best color uniformity

LEDECA OUTDOOR
FINE PITCH SOLUTIONS

General	
Operating environment	outdoor
Pixel pitch	1.86mm
Service type	front and rear access
Calibrated brightness (nits)	3.800nits
Lamp type	Flip-Chip Micro
Lifespan (hours at %50 brightness)	>80.000hours
White color calibration (adj.)	3.500K~8.500K
Gray scale	>24bits
Brightness control	256 level
Module Specifications	
Module dimensions (mm)	160x360
Refresh frequency	3.840Hz
Module resolution	86x192px
LED drive method	dynamic
Module material	aluminum
Module type	sealed
PCB type	multilayer
Surface coating	UV resistant & high contrast
Panel Specifications	
Panel material	aluminum
Panel paint	ES powder coated
Panel dimensions (mm)[1]	640x360
Panel depth	70mm
IP level	IP65 rear
Panel weight	8.5kg
Panel resolution	344x192px
Pixel density (pcs/sqm)	286.666
Viewing angle (horizontal x vertical)	175° x 160°
Minimum viewing distance	>1.8m
Operating temperature range	-20°C ~ +40°C
Storage temperature range	-30°C ~ +60°C
Operating humidity	10% ~ 80% non-condensing
Power input voltage	100 ~ 240 VAC
Power input frequency	50~60Hz
Average power per sqm	<200W
Max power per sqm	<600W
Active PFC	YES
Load tolerance[2]	25% min.
Panel installation type	Fixed installation
Cooling	Passive cooling without fan
Other	
Max input resolution	FHD, UHD, 4K, 8K
Standard video sources[3]	All digital formats
Brightness adjustment	Automatic & manual
Death pixel monitoring	Optional
Module monitoring	YES
Temperature monitoring	YES
Smoke monitoring	Optional
Voltage monitoring	YES
Power redundancy	N/A
Signal path backup	YES
Signal transmission	CAT or Fiber Optic
Standby scheduling	YES
Power on/off scheduling	Optional
Power saving mode	YES
Certification	CE-EMC, CE-LVD, RoHS, FCC
Options	
Contrast ratio	10.000:1
Higher Brightness - CLX	6.500nits
Corner installation	N/A

*The mechanical and electronic specification options are available.

1- Panel dimensions can change upon customer request
2- That value is the remain capacity of PSU's at 100% brightness and white color content
3- Different types of video input available as option

Front Access | Lightweight | Slim | Temp Monitoring | Smoke Monitoring | Voltage Monitoring | Remote Control | Easy To Install | Wide Angle | High Refresh Rate | Transparent | Noiseless | Calibration | Pixel Detection | Fanless

TECHNICALSPECIFICATIONS

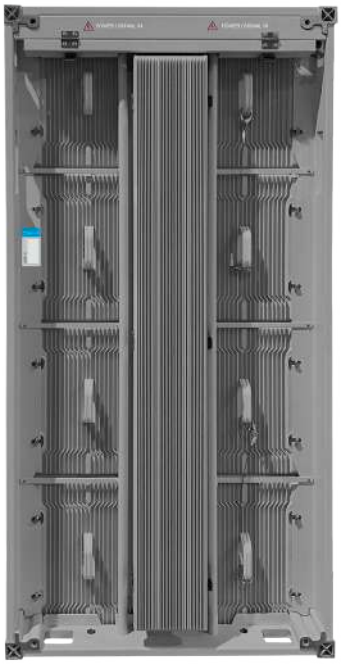
LEDECA

CITYLINE

LDAOSP02.9CL

OUTDOOR LED SCREENS FOR DIGITAL OUT-OF-HOME MESSAGING AT EXTREME ENVIRONMENTS

Armour
LEDECA



- Aluminum fanless design for high performance under extreme conditions
- Adjustable brightness optionally up to 10.000nits
- Lower power consumption with common-cathode technology
- Lightweight for easy adaptation and low cost framework design
- Production level calibration for best color uniformity

A1 TELECOM SHOP
WIEN / AUSTRIA

General	
Operating environment	outdoor
Pixel pitch	2.9mm
Service type	front and rear access
Calibrated brightness (nits)	5.000nits
Lamp type	SMD
Lifespan (hours at %50 brightness)	>100.000hours
White color calibration (adj.)	3.500K~8.500K
Gray scale	>16bits
Brightness control	256 level
Module Specifications	
Module dimensions (mm)	500x250
Refresh frequency	2.880Hz - 3.840Hz
Module resolution	172x86px
LED drive method	dynamic
Module material	aluminum
Module type	sealed
PCB type	multilayer
PCB surface coating	humiseal
Panel Specifications	
Panel material	aluminum
Panel paint	ES powder coated
Panel dimensions (mm)[1]	500x1.000
Panel depth	86mm
IP level	IP67 front, IP65 rear
Panel weight	<16kg
Panel resolution	172x344px
Pixel density (pcs/sqm)	118.336
Viewing angle (horizontal x vertical)	>160° x 140°
Minimum viewing distance	>3m
Operating temperature range	-20°C ~ +60°C
Storage temperature range	-25°C ~ +60°C
Operating humidity	10% ~ 90% non-condensing
Power input voltage	110 ~ 240 VAC
Power input frequency	50~60Hz
Average power per sqm	<140W
Max power per sqm	<650W
Active PFC	YES
Load tolerance[2]	25% min.
Panel installation type	Fixed installation
Cooling	Passive cooling without fan
Other	
Max input resolution	FHD, UHD, 4K, 8K
Standard video sources[3]	All digital formats
Brightness adjustment	Automatic & manual
Death pixel monitoring	Optional
Module monitoring	YES
Temperature monitoring	YES
Smoke monitoring	Optional
Voltage monitoring	YES
Power redundancy	N/A
Signal path backup	YES
Signal transmission	CAT or Fiber Optic
Standby scheduling	YES
Power on/off scheduling	Optional
Power saving mode	YES
Certification	CE-EMC, CE-LVD, RoHS, FCC
Options	
Energy-friendly (Avarage/max power per sqm)	70W/350W
Higher Brightness - CLX	6.500nits
Corner installation	90-degree / curved
*The mechanical and electronic specification options are available.	

1- Panel dimensions can change upon customer request
2- That value is the remain capacity of PSU's at 100% brightness and white color content
3- Different types of video input available as option

Front Access · Lightweight · Slim · Temp Monitoring · Smoke Monitoring · Voltage Monitoring · Remote Control · Easy To Install · Wide Angle · High Refresh Rate · Transparent · Noiseless · Calibration · Pixel Detection · Fanless

TECHNICALSPECIFICATIONS

LEDECA

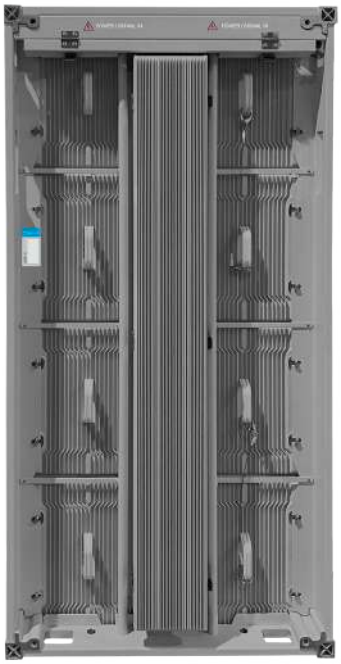
CITYLINE

LDAOSP03.9CL

OUTDOOR LED SCREENS FOR DIGITAL OUT-OF-HOME MESSAGING AT EXTREME ENVIRONMENTS

Armour
LEDECA

TECHNICAL SPECIFICATIONS



LOWER CARBON 40% EMISSION

- Aluminum fanless design for high performance under extreme conditions
- Adjustable brightness optionally up to 10.000nits
- Lower power consumption with common-cathode technology
- Lightweight for easy adaptation and low cost framework design
- Production level calibration for best color uniformity

A1 TELECOM SHOP
WIEN / AUSTRIA

General	
Operating environment	outdoor
Pixel pitch	3.9mm
Service type	front and rear access
Calibrated brightness (nits)	5.500nits
Lamp type	SMD
Lifespan (hours at %50 brightness)	>100.000hours
White color calibration (adj.)	3.500K~8.500K
Gray scale	>16bits
Brightness control	256 level
Module Specifications	
Module dimensions (mm)	500x250
Refresh frequency	2.880Hz - 3.840Hz
Module resolution	128x64px
LED drive method	dynamic
Module material	aluminum
Module type	sealed
PCB type	multilayer
PCB surface coating	humiseal
Panel Specifications	
Panel material	aluminum
Panel paint	ES powder coated
Panel dimensions (mm)[1]	500x1.000
Panel depth	86mm
IP level	IP67 front, IP65 rear
Panel weight	<16kg
Panel resolution	128x256px
Pixel density (pcs/sqm)	65.536
Viewing angle (horizontal x vertical)	>160° x 140°
Minimum viewing distance	>4m
Operating temperature range	-20°C ~ +60°C
Storage temperature range	-25°C ~ +60°C
Operating humidity	10% ~ 90% non-condensing
Power input voltage	110 ~ 240 VAC
Power input frequency	50~60Hz
Average power per sqm	<140W
Max power per sqm	<650W
Active PFC	YES
Load tolerance[2]	25% min.
Panel installation type	Fixed installation
Cooling	Passive cooling without fan
Other	
Max input resolution	FHD, UHD, 4K, 8K
Standard video sources[3]	All digital formats
Brightness adjustment	Automatic & manual
Death pixel monitoring	Optional
Module monitoring	YES
Temperature monitoring	YES
Smoke monitoring	Optional
Voltage monitoring	YES
Power redundancy	N/A
Signal path backup	YES
Signal transmission	CAT or Fiber Optic
Standby scheduling	YES
Power on/off scheduling	Optional
Power saving mode	YES
Certification	CE-EMC, CE-LVD, RoHS, FCC
Options	
Energy-friendly (Avarage/max power per sqm)	70W/350W
Higher Brightness - CLX	6.500nits
Corner installation	90-degree / curved
*The mechanical and electronic specification options are available.	

1- Panel dimensions can change upon customer request
2- That value is the remain capacity of PSU's at 100% brightness and white color content
3- Different types of video input available as option

Front Access | Lightweight | Slim | Temp Monitoring | Smoke Monitoring | Voltage Monitoring | Remote Control | Easy To Install | Wide Angle | High Refresh Rate | Transparent | Noiseless | Calibration | Pixel Detection | Fanless

LEDECA

CITYLINE
LDAOSP05.7CL

OUTDOOR LED SCREENS FOR DIGITAL OUT-OF-HOME MESSAGING AT EXTREME ENVIRONMENTS

Armour
LEDECA

- Aluminum fanless design for high performance under extreme conditions
- Adjustable brightness optionally up to 10.000nits
- Lower power consumption with common-cathode technology
- Lightweight for easy adaptation and low cost framework design
- Production level calibration for best color uniformity

LES 2 ALPES
LES 2 ALPES / FRANCE

General	
Operating environment	outdoor
Pixel pitch	5.7mm
Service type	front and rear access
Calibrated brightness (nits)	8.500nits
Lamp type	SMD
Lifespan (hours at %50 brightness)	>100.000hours
White color calibration (adj.)	3.500K~8.500K
Gray scale	>16bits
Brightness control	256 level
Module Specifications	
Module dimensions (mm)	480x320
Refresh frequency	3.840Hz
Module resolution	84x56px
LED drive method	dynamic
Module material	aluminum
Module type	sealed
PCB type	multilayer
PCB surface coating	humiseal
Panel Specifications	
Panel material	aluminum
Panel paint	ES powder coated
Panel dimensions (mm)[1]	960x960
Panel depth	94mm
IP level	IP67 front, IP65 rear
Panel weight	<29kg
Panel resolution	168x168px
Pixel density (pcs/sqm)	30.625
Viewing angle (horizontal x vertical)	>160° x 140°
Minimum viewing distance	>5m
Operating temperature range	-20°C ~ +60°C
Storage temperature range	-25°C ~ +60°C
Operating humidity	10% ~ 90% non-condensing
Power input voltage	110 ~ 240 VAC
Power input frequency	50~60Hz
Average power per sqm	<140W
Max power per sqm	<650W
Active PFC	YES
Load tolerance[2]	25% min.
Panel installation type	Fixed installation
Cooling	Passive cooling without fan
Other	
Max input resolution	FHD, UHD, 4K, 8K
Standard video sources[3]	All digital formats
Brightness adjustment	Automatic & manual
Death pixel monitoring	Optional
Module monitoring	YES
Temperature monitoring	YES
Smoke monitoring	Optional
Voltage monitoring	YES
Power redundancy	N/A
Signal path backup	YES
Signal transmission	CAT or Fiber Optic
Standby scheduling	YES
Power on/off scheduling	Optional
Power saving mode	YES
Certification	CE-EMC, CE-LVD, RoHS, FCC
Options	
Energy-friendly (Avarage/max power per sqm)	70W/350W
Higher Brightness - CLX	8.500nits
Corner installation	90-degree / curved
*The mechanical and electronic specification options are available.	

1- Panel dimensions can change upon customer request
2- That value is the remain capacity of PSU's at 100% brightness and white color content
3- Different types of video input available as option

Front Access | Lightweight | Slim | Temp Monitoring | Smoke Monitoring | Voltage Monitoring | Remote Control | Easy To Install | Wide Angle | High Refresh Rate | Transparent | Noiseless | Calibration | Pixel Detection | Fanless

TECHNICALSPECIFICATIONS

LEDECA

CITYLINE
LDAOSP06.6CL

OUTDOOR LED SCREENS FOR DIGITAL OUT-OF-HOME MESSAGING AT EXTREME ENVIRONMENTS

Armour
LEDECA

- Aluminum fanless design for high performance under extreme conditions
- Adjustable brightness optionally up to 10.000nits
- Lower power consumption with common-cathode technology
- Lightweight for easy adaptation and low cost framework design
- Production level calibration for best color uniformity

ISTIKBAL
BURSA / TURKEY

General	
Operating environment	outdoor
Pixel pitch	6.67mm
Service type	front and rear access
Calibrated brightness (nits)	6.500nits
Lamp type	SMD
Lifespan (hours at %50 brightness)	>100.000hours
White color calibration (adj.)	3.500K~8.500K
Gray scale	>16bits
Brightness control	256 level
Module Specifications	
Module dimensions (mm)	480x320
Refresh frequency	3.840Hz
Module resolution	72x48px
LED drive method	dynamic
Module material	aluminum
Module type	sealed
PCB type	multilayer
PCB surface coating	humiseal
Panel Specifications	
Panel material	aluminum
Panel paint	ES powder coated
Panel dimensions (mm)[1]	960x960
Panel depth	94mm
IP level	IP67 front, IP65 rear
Panel weight	<29kg
Panel resolution	144x144px
Pixel density (pcs/sqm)	22.500
Viewing angle (horizontal x vertical)	>160° x 140°
Minimum viewing distance	>6m
Operating temperature range	-20°C ~ +60°C
Storage temperature range	-25°C ~ +60°C
Operating humidity	10% ~ 90% non-condensing
Power input voltage	110 ~ 240 VAC
Power input frequency	50~60Hz
Average power per sqm	<140W
Max power per sqm	<650W
Active PFC	YES
Load tolerance[2]	25% min.
Panel installation type	Fixed installation
Cooling	Passive cooling without fan
Other	
Max input resolution	FHD, UHD, 4K, 8K
Standard video sources[3]	All digital formats
Brightness adjustment	Automatic & manual
Death pixel monitoring	Optional
Module monitoring	YES
Temperature monitoring	YES
Smoke monitoring	Optional
Voltage monitoring	YES
Power redundancy	N/A
Signal path backup	YES
Signal transmission	CAT or Fiber Optic
Standby scheduling	YES
Power on/off scheduling	Optional
Power saving mode	YES
Certification	CE-EMC, CE-LVD, RoHS, FCC
Options	
Energy-friendly (Avarage/max power per sqm)	70W/350W
Higher Brightness - CLX	8.500nits
Corner installation	90-degree / curved
*The mechanical and electronic specification options are available.	

1- Panel dimensions can change upon customer request
2- That value is the remain capacity of PSU's at 100% brightness and white color content
3- Different types of video input available as option

Front Access · Lightweight · Slim · Temp Monitoring · Smoke Monitoring · Voltage Monitoring · Remote Control · Easy To Install · Wide Angle · High Refresh Rate · Transparent · Noiseless · Calibration · Pixel Detection · Fanless

TECHNICALSPECIFICATIONS
LEDECA

CITYLINE
LDAOSP10.0CL

OUTDOOR LED SCREENS FOR DIGITAL OUT-OF-HOME MESSAGING AT EXTREME ENVIRONMENTS

Armour
LEDECA

- Aluminum fanless design for high performance under extreme conditions
- Adjustable brightness optionally up to 10.000nits
- Lower power consumption with common-cathode technology
- Lightweight for easy adaptation and low cost framework design
- Production level calibration for best color uniformity

DIGITAL BILLBOARD
ISTANBUL / TURKEY

General	
Operating environment	outdoor
Pixel pitch	10mm
Service type	front and rear access
Calibrated brightness (nits)	7.000nits
Lamp type	SMD
Lifespan (hours at %50 brightness)	>100.000hours
White color calibration (adj.)	3.500K~8.500K
Gray scale	>16bits
Brightness control	256 level
Module Specifications	
Module dimensions (mm)	480x320
Refresh frequency	3.840Hz
Module resolution	48x32px
LED drive method	dynamic
Module material	aluminum
Module type	sealed
PCB type	multilayer
PCB surface coating	humiseal
Panel Specifications	
Panel material	aluminum
Panel paint	ES powder coated
Panel dimensions (mm)[1]	960x960
Panel depth	94mm
IP level	IP67 front, IP65 rear
Panel weight	<29kg
Panel resolution	96x96px
Pixel density (pcs/sqm)	10.000
Viewing angle (horizontal x vertical)	>160° x 140°
Minimum viewing distance	>10m
Operating temperature range	-20°C ~ +60°C
Storage temperature range	-25°C ~ +60°C
Operating humidity	10% ~ 90% non-condensing
Power input voltage	110 ~ 240 VAC
Power input frequency	50~60Hz
Average power per sqm	<140W
Max power per sqm	<650W
Active PFC	YES
Load tolerance[2]	25% min.
Panel installation type	Fixed installation
Cooling	Passive cooling without fan
Other	
Max input resolution	FHD, UHD, 4K, 8K
Standard video sources[3]	All digital formats
Brightness adjustment	Automatic & manual
Death pixel monitoring	Optional
Module monitoring	YES
Temperature monitoring	YES
Smoke monitoring	Optional
Voltage monitoring	YES
Power redundancy	N/A
Signal path backup	YES
Signal transmission	CAT or Fiber Optic
Standby scheduling	YES
Power on/off scheduling	Optional
Power saving mode	YES
Certification	CE-EMC, CE-LVD, RoHS, FCC
Options	
Energy-friendly (Avarage/max power per sqm)	70W/350W
Higher Brightness - CLX	10.000nits
Corner installation	90-degree / curved

*The mechanical and electronic specification options are available.

1- Panel dimensions can change upon customer request
2- That value is the remain capacity of PSU's at 100% brightness and white color content
3- Different types of video input available as option

Front Access | Lightweight | Slim | Temp Monitoring | Smoke Monitoring | Voltage Monitoring | Remote Control | Easy To Install | Wide Angle | High Refresh Rate | Transparent | Noiseless | Calibration | Pixel Detection | Fanless

TECHNICALSPECIFICATIONS
LEDECA