

ARENA

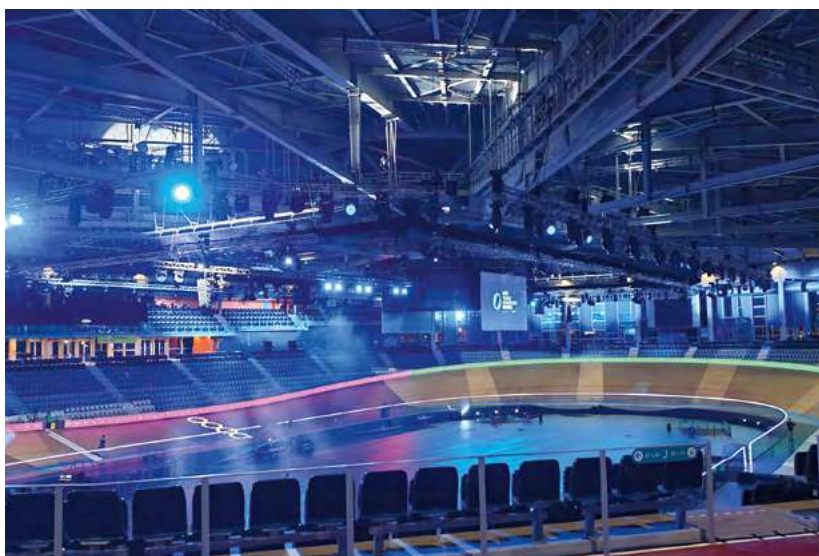
LDAISP06.2AR

DURABLE LED SCREENS FOR
SPORT VENUE PROJECTS



- Customized wide viewing angle mask structure
- Quick maintenance within 1.5 minutes module change period
- High level vandalism protection with strong PC surface
- Patented mask structure to prevent injuries
- Strong aluminum structure with passive cooling

VELODROME EU



General

Operating environment	indoor
Pixel pitch	6.2mm
Service type	front and rear access
Calibrated brightness (nits)	>1.500nits
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)	200x400
Refresh frequency	adjustable
Module resolution	32x64px
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	1.200x800
IP level	IP22 front and rear
Panel weight	<40kg
Panel resolution	192x128
Pixel density (pcs/sqm)	25,600
Viewing angle (horizontal x vertical)	>120° x 120°
Minimum viewing distance	>6m
Operating temperature range	0°C ~ +50°C
Storage temperature range	-20°C ~ +60°C
Operating humidity	10% ~ 90% non-condensing
Power input voltage	110 ~ 240 VAC
Power input frequency	50 ~ 60 Hz
Average power per sqm	<120W
Max power per sqm	<600W
Active PFC	YES
Load tolerance ²	25% min.
Panel installation type	Fixed installation
Cooling	Passive cooling

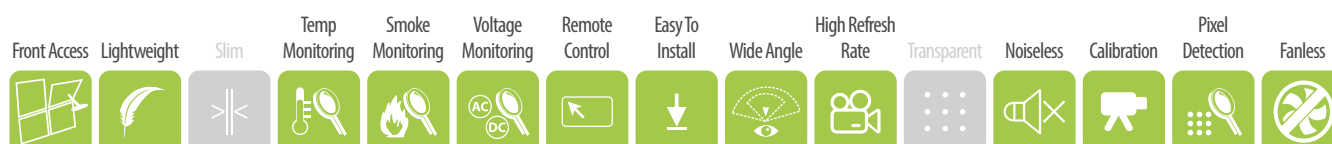
Other

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

*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



Apron Teknoloji AS. reserves the right to change any product specification, discontinue of any product or services without prior notice

TECHNICAL SPECIFICATIONS

LEDECA

ARENA LDAISP08.3AR

DURABLE LED SCREENS FOR
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DAKAR ARENA
DAKAR / SENEGAL



General

Operating environment	indoor
Pixel pitch	8.3mm
Service type	front and rear access
Calibrated brightness (nits)	>1.500nits
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)	200x400
Refresh frequency	adjustable
Module resolution	24x48px
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	1.200x800
IP level	IP22 front and rear
Panel weight	<40kg
Panel resolution	144x96
Pixel density (pcs/sqm)	14.400
Viewing angle (horizontal x vertical)	>120° x 120°
Minimum viewing distance	>8m
Operating temperature range	0°C ~ +50°C
Storage temperature range	-20°C ~ +60°C
Operating humidity	10% ~ 90% non-condensing
Power input voltage	110 ~ 240 VAC
Power input frequency	50 ~ 60 Hz
Average power per sqm	<120W
Max power per sqm	<600W
Active PFC	YES
Load tolerance ²	25% min.
Panel installation type	Fixed installation
Cooling	Passive cooling

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

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TECHNICAL SPECIFICATIONS

LEDECA

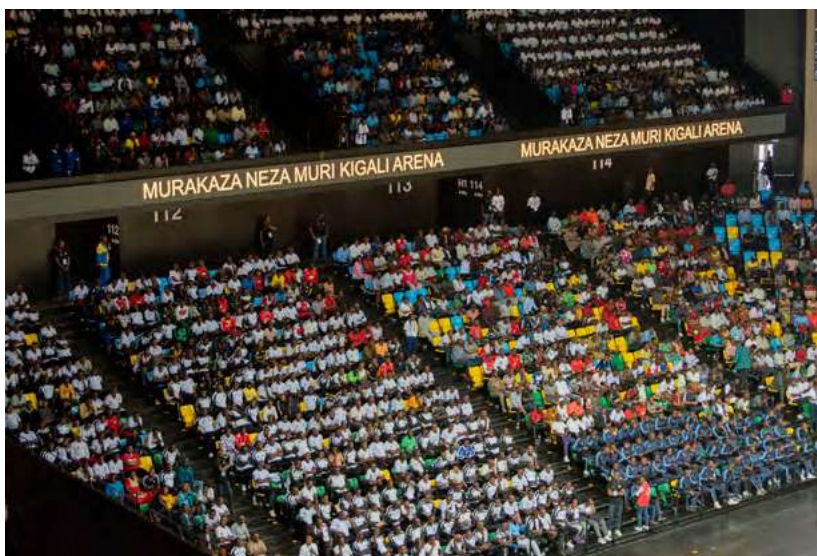
ARENA LDAISP10.0AR

DURABLE LED SCREENS FOR
SPORT VENUE PROJECTS



- Customized wide viewing angle mask structure
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- Patented mask structure to prevent injuries
- Strong aluminum structure with passive cooling

KIGALI ARENA
RWANDA



General

Operating environment	indoor
Pixel pitch	10mm
Service type	front and rear access
Calibrated brightness (nits)	>1.500nits
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)	200x400
Refresh frequency	adjustable
Module resolution	20x40px
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	1.200x800
IP level	IP22 front and rear
Panel weight	<40kg
Panel resolution	120x80
Pixel density (pcs/sqm)	10.000
Viewing angle (horizontal x vertical)	>120° x 120°
Minimum viewing distance	>10m
Operating temperature range	0°C ~ +50°C
Storage temperature range	-20°C ~ +60°C
Operating humidity	10% ~ 90% non-condensing
Power input voltage	110 ~ 240 VAC
Power input frequency	50 ~ 60 Hz
Average power per sqm	<120W
Max power per sqm	<600W
Active PFC	YES
Load tolerance ²	25% min.
Panel installation type	Fixed installation
Cooling	Passive cooling

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

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 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



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TECHNICAL SPECIFICATIONS

LEDECA

ARENA

LDAOSP10.0AR

DURABLE LED SCREENS FOR
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- Patented mask structure to prevent injuries
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GALATASARAY STADIUM İSTANBUL / TÜRKİYE



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)	400x300
Refresh frequency	adjustable
Module resolution	40x30px
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	1.600x900
IP level	IP67 front and rear
Panel weight	<40kg
Panel resolution	160x90
Pixel density (pcs/sqm)	10.000
Viewing angle (horizontal x vertical)	>120° x 120°
Minimum viewing distance	>10m
Operating temperature range	-15°C ~ +50°C
Storage temperature range	-20°C ~ +60°C
Operating humidity	10% ~ 90% non-condensing
Power input voltage	110 ~ 240 VAC
Power input frequency	50 ~ 60 Hz
Average power per sqm	<120W
Max power per sqm	<600W
Active PFC	YES
Load tolerance ²	25% min.
Panel installation type	Fixed installation
Cooling	Passive cooling

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, TUV, FCC

Options

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



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TECHNICAL SPECIFICATIONS

LEDECA

ARENA

LDAOSP12.5AR

DURABLE LED SCREENS FOR
SPORT VENUE PROJECTS



- Customized wide viewing angle mask structure
- Quick maintenance within 1.5 minutes module change period
- High level vandalism protection with strong PC surface
- Patented mask structure to prevent injuries
- Strong aluminum structure with passive cooling

TRABZONSPOR STADIUM TRABZON / TÜRKİYE



General

Operating environment	outdoor
Pixel pitch	12.5mm
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)	400x300
Refresh frequency	adjustable
Module resolution	32x24
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	1.600x900
IP level	IP67 front and rear
Panel weight	<40kg
Panel resolution	128x72
Pixel density (pcs/sqm)	6.400
Viewing angle (horizontal x vertical)	>120° x 120°
Minimum viewing distance	>12m
Operating temperature range	-15°C ~ +50°C
Storage temperature range	-20°C ~ +60°C
Operating humidity	10% ~ 90% non-condensing
Power input voltage	110 ~ 240 VAC
Power input frequency	50 ~ 60 Hz
Average power per sqm	<120W
Max power per sqm	<600W
Active PFC	YES
Load tolerance ²	25% min.
Panel installation type	Fixed installation
Cooling	Passive cooling

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, TUV, FCC

Options

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- That value is the remain capacity of PSU's at 100% brightness and white color content
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