

# ULTRA

HIGHEST STABILITY, MAXIMUM PERFORMANCE  
INDOOR LED SCREENS FOR HIGH RESOLUTION  
LED WALL PROJECTS



TRT WORLD BROADCAST STUDIO  
LONDON / UK



Ultra quality for ultra high definition requirements

Optimized for broadcast studio installations

Fanless design without noise

Super high gray scale and refresh rate

High reliability and stability for 7/24 operation

Special mask design to reduce moir effect in broadcast studio projects



TRT ARABIC BROADCAST STUDIO  
ISTANBUL / TURKEY

	COMPACT	COMPACT	COMPACT	COMPACT	SMART	SMART	SMART	SMART
	LDCISP01.2UL	LDCISP01.5UL	LDCISP01.9UL	LDCISP02.5UL	LDSISP01.2UL	LDSISP01.4UL	LDSISP01.5UL	LDSISP01.8UL
<b>General</b>								
Operating environment	indoor	indoor	indoor	indoor	indoor	indoor	indoor	indoor
Pixel pitch	1.27mm	1.58mm	1.9mm	2.54mm	1.25mm	1.45mm	1.56mm	1.87mm
Service type	front or rear access	front or rear access	front or rear access	front and rear access	front and rear access	front and rear access	front and rear access	front and rear access
Calibrated brightness (nits)	>700nits	>700nits	>700nits	>700nits	>700nits	>700nits	>700nits	>700nits
Lamp type	SMD	SMD	SMD	SMD	SMD	SMD	SMD	SMD
Lifespan (hours at %50 brightness)	>100.000hours	>100.000hours	>100.000hours	>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	3.000K~8.500K	3.000K~8.500K	3.000K~8.500K
Gray scale	>16bits	>16bits	>16bits	>16bits	>16bits	>16bits	>16bits	>16bits
Brightness control	256 level	256 level	256 level	256 level	256 level	256 level	256 level	256 level
<b>Module Specifications</b>								
Module dimensions (mm)	304.94x343.08	304.94x343.08	304.94x343.08	304.94x343.08	300x168.75	300x168.75	300x168.75	300x168.75
Refresh frequency	>3840Hz	>3840Hz	>3840Hz	>3840Hz	>3800Hz	>3800Hz	>3800Hz	>3840Hz
Module resolution	240x270px	192x216px	160x180px	120x135px	240x135px	206x116px	192x108px	160x90px
LED drive method	dynamic	dynamic	dynamic	dynamic	dynamic	dynamic	dynamic	dynamic
Module material	aluminum	aluminum	aluminum	aluminum	aluminum	aluminum	aluminum	aluminum
Module type	apparent	apparent	apparent	apparent	apparent	apparent	apparent	apparent
PCB type	multilayer	multilayer	multilayer	multilayer	multilayer	multilayer	multilayer	multilayer
PCB surface coating	humiseal	humiseal	humiseal	humiseal	humiseal	humiseal	humiseal	humiseal
<b>Panel Specifications</b>								
Panel material	aluminum	aluminum	aluminum	aluminum	aluminum	aluminum	aluminum	aluminum
Panel paint	ES powder coated	ES powder coated	ES powder coated	ES powder coated	ES powder coated	ES powder coated	ES powder coated	ES powder coated
Panel dimensions (mm) <sup>1</sup>	609.92x343.08	609.92x343.08	609.92x343.08	609.92x343.08	600x337.5	600x337.5	600x337.5	600x337.5
Diagonal length (inch)	27.5"	27.5"	27.5"	27.5"	27"	27"	27"	27"
Panel weight	<8kg	<8kg	<8kg	<8kg	<7kg	<7kg	<7kg	<7kg
Panel resolution	480x270px	384x216px	320x180px	240x135px	480x270px	412x232px	384x216px	320x180px
Pixel density (pcs/sqm)	628.849	400.000	276.676	154.500	640.000	480.000	409.600	276.676
Viewing angle (horizontal x vertical)	>120° x 120°	>120° x 120°	>120° x 120°	>120° x 120°	>120° x 120°	>120° x 120°	>120° x 120°	>120° x 120°
Minimum viewing distance	>1.2m	>1.5m	>1.9m	>2.5m	>1.2m	>1.4m	>1.5m	>1.8m
Operating temperature range	0C ~ +50C	0C ~ +50C	0C ~ +50C	0C ~ +50C	0C ~ +50C	0C ~ +50C	0C ~ +50C	0C ~ +50C
Storage temperature range	-20C ~ +60C	-20C ~ +60C	-20C ~ +60C	-20C ~ +60C	-20C ~ +60C	-20C ~ +60C	-20C ~ +60C	-20C ~ +60C
Operating humidity	10% ~ 90%	10% ~ 90%	10% ~ 90%	10% ~ 90%	10% ~ 90%	10% ~ 90%	10% ~ 90%	10% ~ 90%
Power input voltage	110 ~ 240 VAC	110 ~ 240 VAC	110 ~ 240 VAC	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	50 ~ 60 Hz	50 ~ 60 Hz	50 ~ 60 Hz
Average power per sqm	<120W	<120W	<120W	<120W	<120W	<120W	<120W	<120W
Max power per sqm	<600W	<600W	<600W	<600W	<600W	<600W	<600W	<600W
Active PFC	YES	YES	YES	YES	YES	YES	YES	YES
Load tolerance <sup>2</sup>	25% min.	25% min.	25% min.	25% min.	25% min.	25% min.	25% min.	25% min.
Panel installation type	Fixed installation	Fixed installation	Fixed installation	Fixed installation	Fixed installation	Fixed installation	Fixed installation	Fixed installation
Cooling	Passive cooling	Passive cooling	Passive cooling	Passive cooling	Passive cooling	Passive cooling	Passive cooling	Passive cooling
<b>Other</b>								
Max input resolution	>2K	>2K	>2K	>2K	>2K	>2K	>2K	>2K
Standard video sources <sup>3</sup>	DVI, HDMI	DVI, HDMI	DVI, HDMI	DVI, HDMI	DVI, HDMI	DVI, HDMI	DVI, HDMI	DVI, HDMI
Other direct video sources	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Brightness adjustment	Automatic & manual	Automatic & manual	Automatic & manual	Automatic & manual	Automatic & manual	Automatic & manual	Automatic & manual	Automatic & manual
Death pixel monitoring	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Module monitoring	YES	YES	YES	YES	YES	YES	YES	YES
Temperature monitoring	YES	YES	YES	YES	YES	YES	YES	YES
Smoke monitoring	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Voltage monitoring	YES	YES	YES	YES	YES	YES	YES	YES
Power redundancy	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Signal path backup	YES	YES	YES	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	CAT or Fiber Optic	CAT or Fiber Optic	CAT or Fiber Optic
Standby scheduling	YES	YES	YES	YES	YES	YES	YES	YES
Power on/off scheduling	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Power saving mode	YES	YES	YES	YES	YES	YES	YES	YES
Certification	CE-EMC, CE-LVD, RoHS	CE-EMC, CE-LVD, RoHS	CE-EMC, CE-LVD, RoHS	CE-EMC, CE-LVD, RoHS	CE-EMC, CE-LVD, RoHS	CE-EMC, CE-LVD, RoHS	CE-EMC, CE-LVD, RoHS	CE-EMC, CE-LVD, RoHS
<b>Options</b>								
LED brand <sup>4</sup>	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
LED surface color	Black	Black	Black	Black	Black	Black	Black	Black

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

4- Available LED options are CREE [CR], NICHIA [NC], EVERLIGHT [EV], MULTICOLOR [MC], NATIONSTAR [NS]. Please check order code for details.

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

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