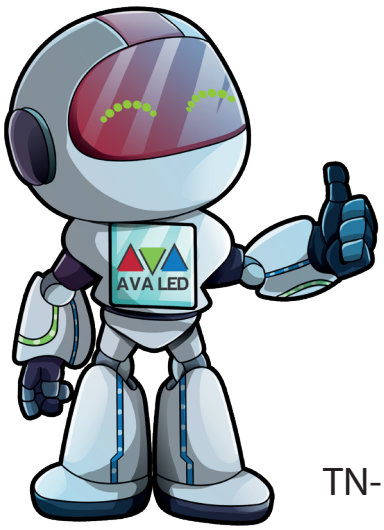
AVA LED

QALITY IN DETAIL

TN-PRO-OF-10

Data Sheet



OUTDOOR SERIES

TN-PRO-OF 10 | TN-PRO-OF-10 PRO | TN-PRO-OF-10 PLUS
TN-PRO-OF-10 PLUS+

ISO 9001:2015

CE

CERTIFIED ISO 14001:2015 COMPANY

TITLE OF CONTENTS

02 - 04 Features

05 Specification

06 - 08 Cabinet Detail

09 Safety

10-11 Installation

12-13 Accessories - Company Info

FEATURES

- Advanced Contrast Brightness Black technology,
- Advanced High Refresh Rate,
- FRONT SERVICES and Fast installation of panel to Light Frame,
- Just Signal person to install/uninstall, saving labor cost
- High Quality Die-Casting Aluminum-Magnesium frame design, fan design.
- No noise, lower power consumption, good heat dissipation.
- Easy and Fast Installation

FEATURES

TN-PRO-OF 10

- Standart Refresh Rate: 1920Hz
- C Class Led Chip
- Standart PCB Quality
- High Quality MASK

TN-PRO-OF 10 PRO

- High Refresh Rate: 3840Hz
- B Class Led Chip
- High Quality PCB
- High Quality MASK

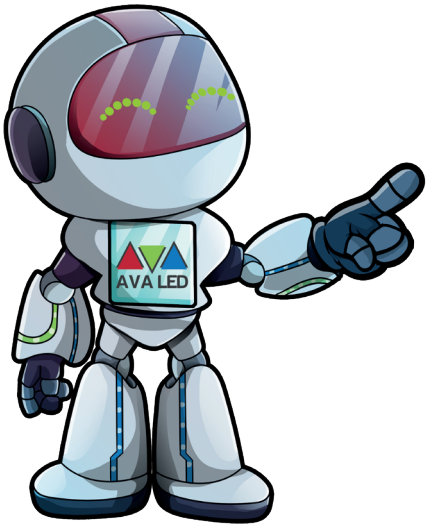
TN-PRO-OF 10 PLUS

- High Refresh Rate: 3840Hz
- A Class Led Chip
- Best Quality PCB
- Best Quality MASK
- High end Refresh Rate
- 18 Bit
- Clear View
- Free Rotation
- HDR
- 4K Refresh Rate

TN-PRO-OF 10 PLUS+

- A Class Led Chip

FEATURES





P10 Outdoor Products

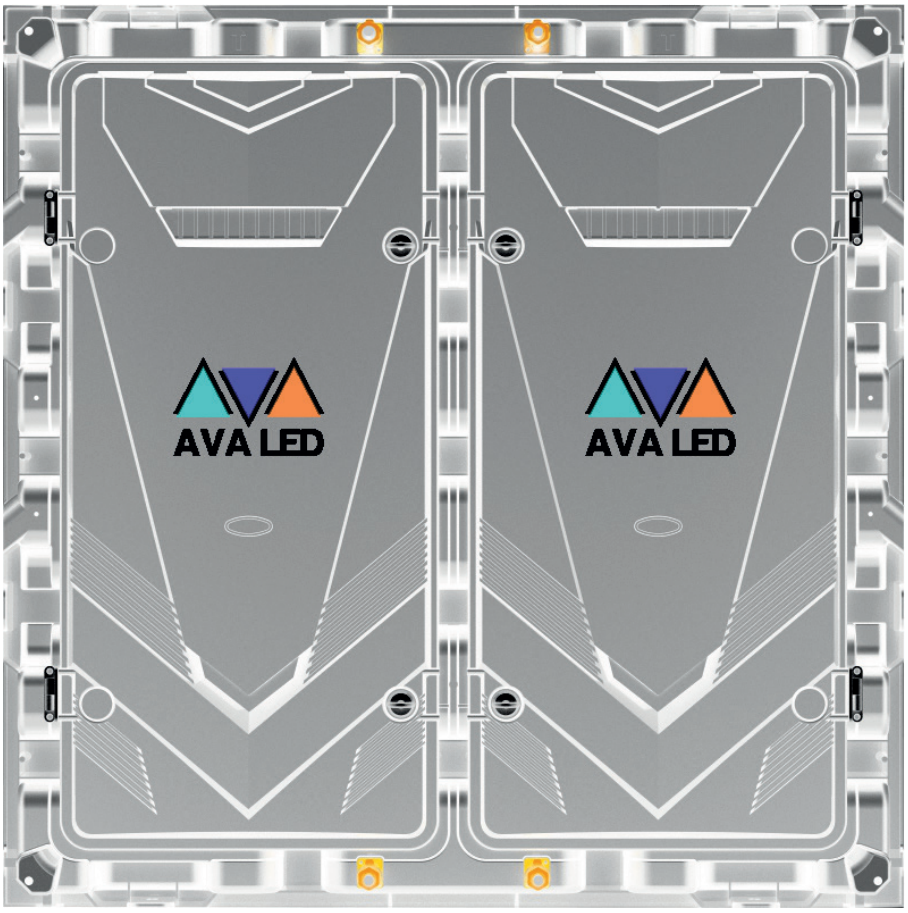
*** FRONT SERVICE - Back Services
*** Light Weight
*** Weight : 25kg
*** Magnesium Die-Casting
*** 4 in 1 Case weight with products: 139kg.
*** Faster Cooling
*** Advenced Lock
*** Nova Star Controller
*** BLACK SHELL

SPECIFICATION

MODEL NAME Version	TN-PRO-OF 10	TN-PRO-OF 10 PRO	TN-PRO-OF 10 PLUS	TN-PRO-OF 10 PLUS+
Pixel Pitch		10mm	10mm	10mm
Pixel Configuration	SMD 3535	SMD 3535	SMD 3535	SMD 3535
LED	Black Shell	Black Shell	Black Shell	Black Shell
Processing	16 Bit	16 Bit	-	-
Processing	-	-	18 Bit	18 Bit
Pixel Density / m2	10000	10000	10000	10000
Resolution/SQM	100 x 100	100 x 100	100 x 100	100 x 100
Cabinet Resolution 960 x 960	96 x 96	96 x 96	96 x 96	96 x 96
Pixel Density / Cabinet	9216	9216	9216	9216
Module Size (mm)	320 x 320	320 x 320	320 x 320	320 x 320
Cabinet Size (mm)	960 x 960 x 105	960 x 960 x 105	960 x 960 x 105	960 x 960 x 105
Module Per Cabinet	9 MODULE	9 MODULE	9 MODULE	9 MODULE
Module Resolution	32 X 32	32 X 32	32 X 32	32 X 32
Weight Per Panel Net kg. 960x950mm	25	25	25	25
Rotation per 90 Degree	❍	❍	✓	✓
Free Rotation (with R5)	❍	❍	✓	✓
Mapping	❍	❍	✓	✓
Clear View	❍	❍	✓	✓
Low Latency	❍	❍	✓	✓
HDR	❍	❍	✓	✓
Power Consumption (<w/sqm)	750	800	800	800
Average Power Consumption (<w/sqm)	300	320	320	320
Driving Method	1/4	1/2	1/2	1/2
Brightness	>6200 Nits	>7200 Nits	>7500 Nits	>800 Nits
Refresh Rate	>1920Hz	-	-	-
Refresh Rate High Refresh	-	>3840Hz	>3840Hz	>3840Hz
Refresh Quality	Standart Quality	High Quality	Best Quality	Best Quality
High Refresh (PLL inside)	-	-	✓	✓
High Refresh Power Saving	✓	✓	✓	✓
High Refresh Dynamic Power Saving	-	-	✓	✓
Driving IC Type	-	-	PWM	PWM
Refrate Quality 2	Standart Quality	High Refresh	4K Refresh Rate	4K Refresh Rate
No Waterless Ripple of Camera	>%50	>%75	>%90	>%90
Cabinet Material	Die-Casting Magnesium	Die-Casting Magnesium	Die-Casting Magnesium	Die-Casting Magnesium
Horizontal Viewing Angle	140 (±30)	140 (±30)	140 (±30)	140 (±30)
Vertical Viewing Angle	140 (±30)	140 (±30)	140 (±30)	140 (±30)
Expected LED Lifetime %50	100,000 Hours	100,000 Hours	100,000 Hours	100,000 Hours
IP Rating	Back IP54 / Front IP65	Back IP54 / Front IP65	Back IP54 / Front IP65	Back IP54 / Front IP65
PCB Quality	High Quality	Best Quality	Best Quality	Best Quality
Module - Mask Quality	High Quality	Best Quality	Best Quality	Best Quality
LED Chip	Class C	Class B	Class A	Class A+
Picture / Video Quality	Standart Quality	High Refresh	Best Quality	Best Quality
Grey Scale	65536	65536	262144	262144
Control Systems	Nova Star	Nova Star	Nova Star	Nova Star
Operating Temperature Range	-20 – +60 (±10)	-20 – +60 (±10)	-20 – +60 (±10)	-20 – +60 (±10)
Operating Humidity Range	-40℃~+60℃,10%-90%RH	-40℃~+60℃,10%-90%RH	-40℃~+60℃,10%-90%RH	-40℃~+60℃,10%-90%RH
Voltage Range	200 ~240VAC	200 ~240VAC	200 ~240VAC	200 ~240VAC
Packing include	Plate-Power-Cat5 Cable	Plate-Power-Cat5 Cable	Plate-Power-Cat5 Cable	Plate-Power-Cat5 Cable
Certificate	CE/EMC/LVD-ATR-EUR1 ISO-9001:2015 ISO-14001:2015	CE/EMC/LVD-ATR-EUR1 ISO-9001:2015 ISO-14001:2015	CE/EMC/LVD-ATR-EUR1 ISO-9001:2015 ISO-14001:2015	CE/EMC/LVD-ATR-EUR1 ISO-9001:2015 ISO-14001:2015

CABINET DETAIL

size : 960mm



size : 960mm

size : 105mm



25KG.



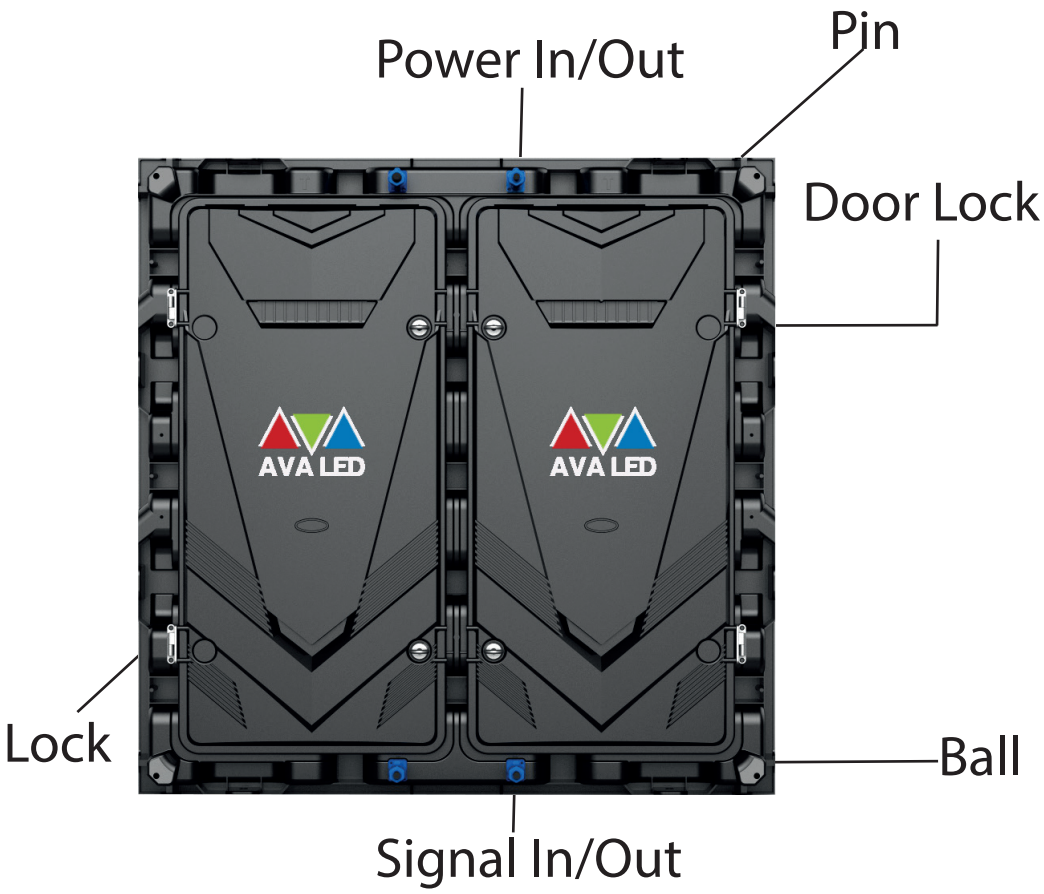
4 IN 1 - 139KG.

QALITY IN DETAIL

CABINET DETAIL



CABINET DETAIL



Front Service





SAFETY

CASE

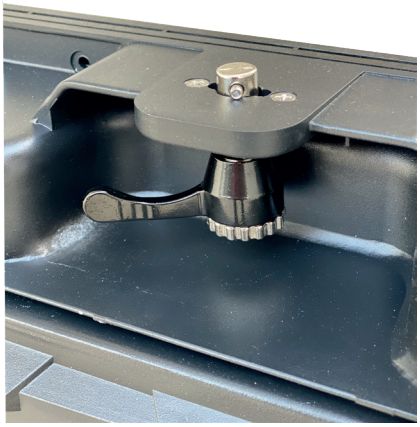




HANDLE



LOCK



BALL



POWER



The support structure has to be provided and installed by the customer because they very from project to project. The following issues must be considered:

Weight tolerances: Ensure that the support structure and the floor on which or the wall against which the support structure has to be installed, is qualified to handle the complete weight of the LED display screen.(which can be provided by manufacturer.

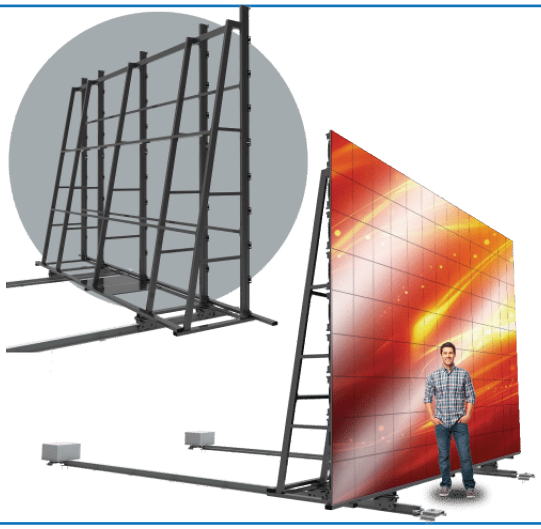
Environmental conditions: Humidity, wind, temperatures, rain, snow etc.

Location: Outdoor/.Indoor, altitude, etc. Usually, for outdoor display screen, the customer should build top cover and side cover for IP protection
(Including waterproof and dustproof)

Ground stability
Front clearances: For making sure there is sufficient free area in front of the LED display screen and respect the maximum viewing angles and distance. Local regulations regarding such installation.

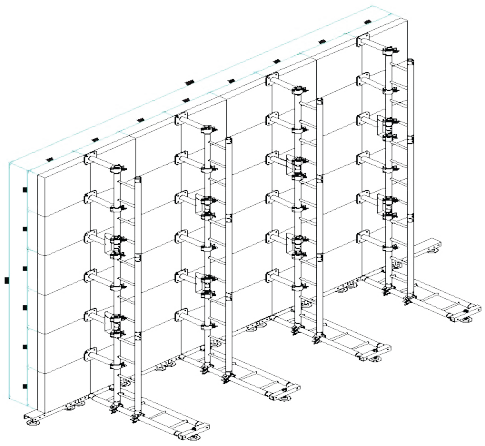


INSTALLATION













ACCESSORIES



FLY BAR





CASE



POWER



SIGNAL

NEUTRIK

CNLINKO®

SEETRONIC

COMPANY INFO

AVA LED

www.avaledscreen.com
info@avaledscreen.com

AVA GROUP GMBH

Adress: Goethestraße 7D - 40237 Düsseldorf / Germany

Phone : +49 211 730 64 817

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