

AV-3 IR Pro Data Sheet

INDOOR SERIES

AV-3 IR Pro





02-03 • Series and Features

04-05 • Product Details

o Size - Product Photo

08-09 • Cabinet Detail - Safety

10-11 o Installation Guides

o Accessories - Company Info



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



AV-3 IR Pro

- · High Refresh Rate: 3840Hz
- High Contrast
- · A Class Led Chip
- · High Quality PCB
- · High Quality MASK

THERE ARE TWO CABINET SIZE IS YOUR OPNION





Features

- *** FRONT SERVICE or Back Services
- *** Light Weight
- *** Aliminum Die-Casting
- *** 500x500:12 in 1 Case weight with products: 118kg.
- *** 500x1000:6 in 1 Case weight with products: 118kg.
- *** Faster Cooling
- *** Advenced and safety Lock
- *** Nova Star Controller
- *** SPACE BLACK



O TECHNICAL SPECIFICATION

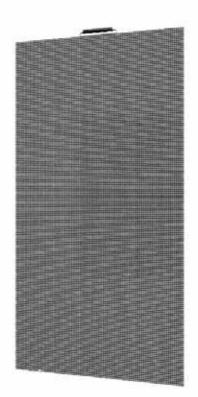
:	:
IR PRO	IR PRO
Rental	Rental
	Indoor
	3,91mm
	>1100 Nits
	>3840Hz
	<27
	Class A
	Class A
•	Chipone or Smilar Meanwell or Smilar/Smilier
	Novastar
	Seetronic
	:
	SMD 2020
	Cooper
•	Space Black
•	250mm x 250mm
64 x 64	64 x 64
>14-16 Bit	>14-16 Bit
	Best Quality
Normal Mask	Normal Mask
High Quality	High Quality
>65536	>65536
:	:
8 MODULE	4 MODULE
500 x 1000 x 77mm	500 x 500 x 77mm
Die-Casting Aliminum	Die-Casting Aliminum
13,8	< 7
128x256	128x128
32768	16384
IP40	IP40
:	:
PWM	PWM
High Refresh Rate	High Refresh Rate
	>%75
	1/16
	256 x 256
	65536
	3.500K~8.500K
` '	140 (±30)
` /	140 (±30)
	No
	No
	No
	Yes
_	Optional
_	Optional High Quality
ingii Quanty	Tilgii Quality
Vos	Yes
	1 03
	>100.000 Hours
	-15 - +45 (±10)
	-40! " +60! ,10%-90%RH
·	800
	500
175	175
47 ~ 63Hz / 110 ~ 240 VAC	47 ~ 63Hz / 110 ~ 240 VAC
REV22	REV22
	Plate-Power-Cat5 Cable
Rental Screen	Rental Screen
CE/EMC/LVD-ATR-EUR1 ISO-9001:2015 ISO-14001:2015	CE/EMC/LVD-ATR-EUR1 ISO-9001:2015 ISO-14001:2015
	Indoor 3,91mm >1100 Nits >3840Hz <27 :



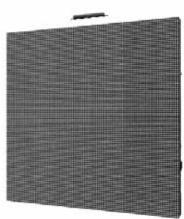
PRODUCT CABINET SIZE





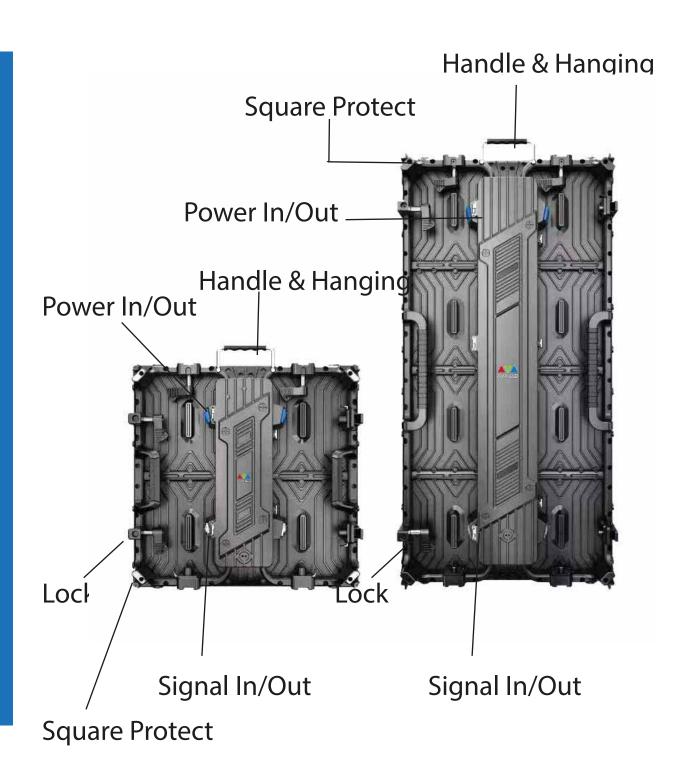






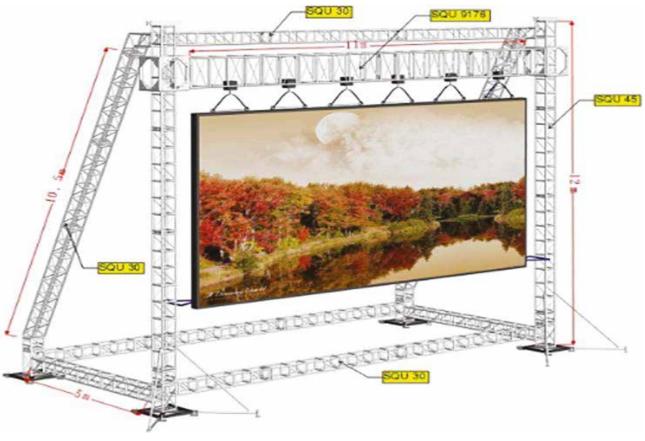












QALITY IN DETAIL



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.



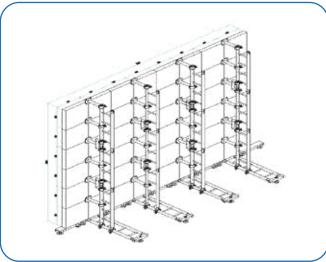
































AV-3 OR Pro Data Sheet

OUTDOOR SERIES

AV-3 OR PRO





02-03 • Series and Features

04-05 • Product Details

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08-09 • Cabinet Detail - Safety

10-11 o Installation Guides

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AV-3 OR

- · High Refresh Rate: 3840Hz
- · High Brightness
- · A Class Led Chip
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- · High Quality MASK

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Features

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- *** Advenced and safety Lock
- *** Nova Star Controller
- *** BLACK SHELL

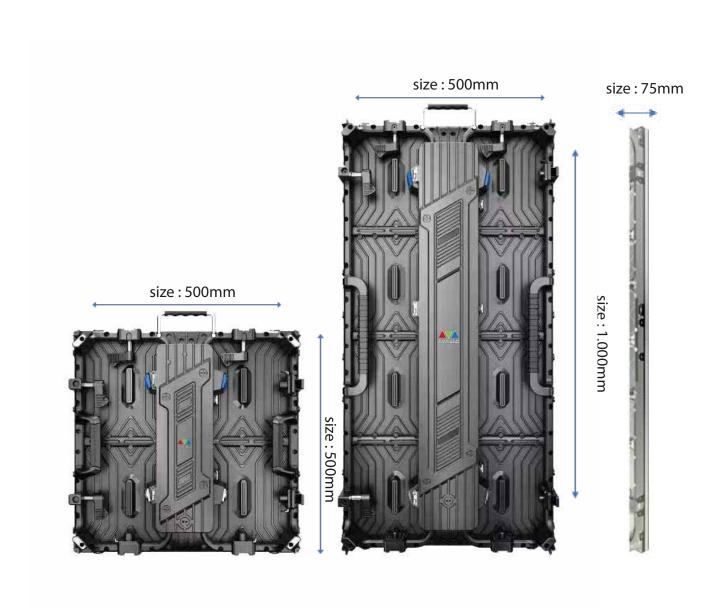


O TECHNICAL SPECIFICATION

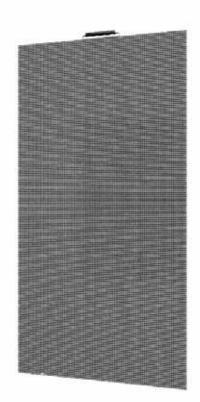
MODEL NAME	AV-3 500x1000mm	AV-3 500x500mm
Features	:	:
Series	OR PRO	OR PRO
Panel installation type	Rental	Rental
Operating Environment	Outdoor	Outdoor
Pixel Pitch	3,91 mm	3,91mm
Brightness Refresh Rate	>4600 Nits >3840Hz	>4600 Nits >3840Hz
Weight / m2	<27	<27
Material Brands	-21	-21
Lamp	Class A	Class A
Entegred	Chipone or Smilar	Chipone or Smilar
Powersupply	Meanwell or Smilar/Smilier	Meanwell or Smilar/Smilier
Controller	Novastar	Novastar
Connectors : Seetronic	Seetronic	Seetronic
Module Specifications	:	:
Pixel Configuration	SMD 1921	SMD 1921
LED Chip	Cooper	Cooper
LED	Black Shell	Black Shell
Module Size (mm)	250mm x 250mm	250mm x 250mm
Module Resolution	64 x 64	64 x 64
Processing	>14-16 Bit	>14-16 Bit
PCB Quality	Best Quality	Best Quality
Module - Mask Quality	Normal Mask	Normal Mask
Picture / Video Quality	High Quality	High Quality
Grey Scale	>65536	>65536
Cabinet Specifications	: e MODILLE	;
Module Per Cabinet	8 MODULE 500 x 1000 x 77mm	4 MODULE
Cabinet Size (mm) Cabinet Material	Die-Casting Aliminum	500 x 500 x 77mm
Weight Per Panel Net kg.	13,8	Die-Casting Aliminum
Cabinet Resolution	128x256	128x128
Pixel Density / Cabinet	32768	16384
IP Rating	Back IP54 / Front IP67	Back IP54 / Front IP67
Others Specifications	:	:
Driving IC Type	PWM	PWM
Refrate Quality 2	High Refresh Rate	High Refresh Rate
No Waterless Ripple of Camera	>%75	>%75
Driving Method '' Scan ''	1/16	1/16
Resolution/SQM	256 x 256	256 x 256
Pixel Density / m2	65536	65536
White Color Calibration (Adj.)	3.500K~8.500K	3.500K~8.500K
Horizontal Viewing Angle	140 (±30)	140 (±30)
Vertical Viewing Angle	140 (±30)	140 (±30)
Low Latency	No	No
HDR	No	No
Mapping	No	No
Rotation per 90 Degree	Yes	Yes
Free Rotation (with R5)	Optional	Optional
Clear View	Optional	Optional
Refresh Quality	High Quality	High Quality
High Refresh (PLL inside)	- V	- V
High Refresh Power Saving	Yes	Yes
High Refresh Dynamic Power Saving	- >100 000 Henry	- >100 000 House
Expected LED Lifetime %50	>100.000 Hours	>100.000 Hours
Operating Temperature Range Operating Humidity Range	-15 - +45 (±10) -40! " +60! ,10%-90%RH	-15 - +45 (±10) -40! " +60! ,10%-90%RH
Power on Time (<w sqm)<="" td=""><td>800</td><td>800</td></w>	800	800
Power Consumption (<w sqm)<="" td=""><td>750</td><td>750</td></w>	750	750
Average Power Consumption (<w sqm)<="" td=""><td>262,5</td><td>262,5</td></w>	262,5	262,5
Voltage Range	47 ~ 63Hz / 110 ~ 240 VAC	47 ~ 63Hz / 110 ~ 240 VAC
Voltage Range Version	REV22	REV22
Packing include	Plate-Power-Cat5 Cable	Plate-Power-Cat5 Cable
Usage Area	Rental Screen	Rental Screen
Certificate	CE/EMC/LVD-ATR-EUR1 ISO-9001:2015	CE/EMC/LVD-ATR-EUR1 ISO-9001;2015



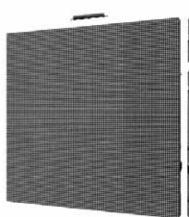
PRODUCT CABINET SIZE







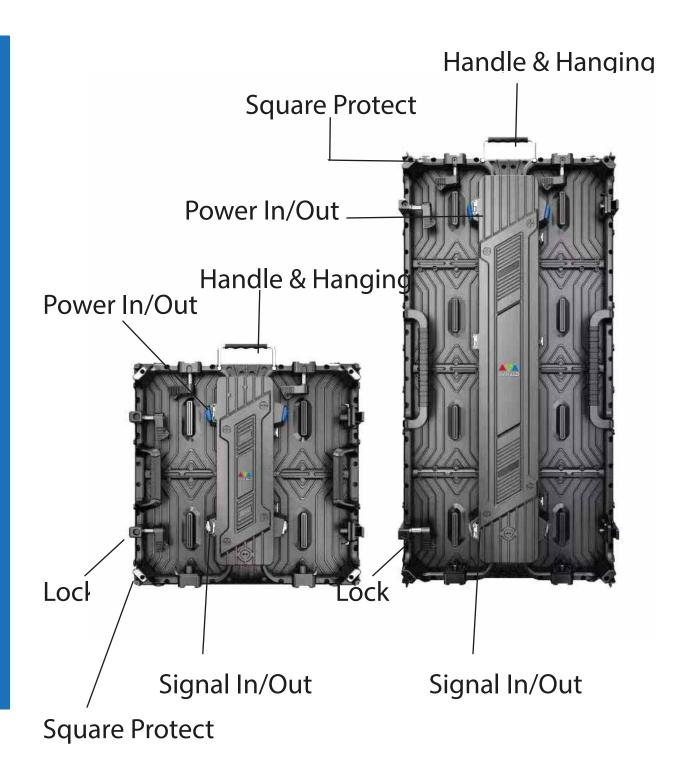






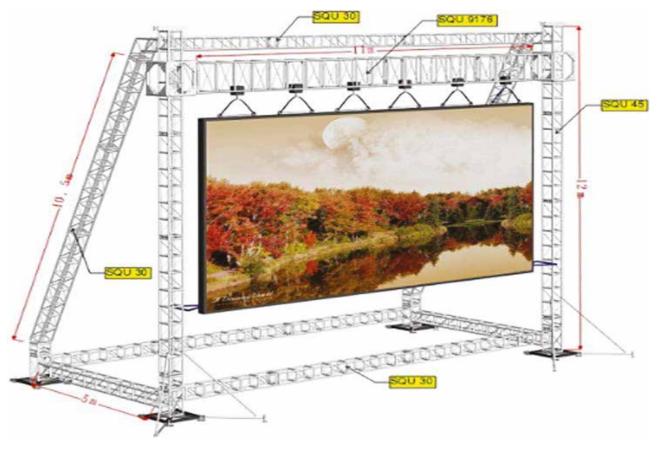


O CONNECTION









QALITY IN DETAIL



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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.



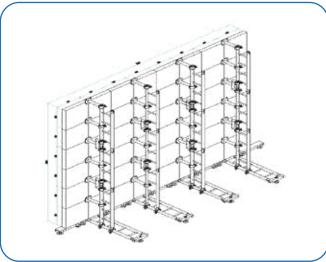
































AV-3 OR Plus Data Sheet

OUTDOOR SERIES

AV-3 OR Plus





02-03 • Series and Features

04-05 • Product Details

o Size - Product Photo

08-09 • Cabinet Detail - Safety

10-11 o Installation Guides

o Accessories - Company Info



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



AV-3 OR Plus

- · High End Refresh Rate: 3840Hz
- · High Brightness
- · A Class Led Chip
- · High Quality PCB
- · High Quality MASK

THERE ARE TWO CABINET SIZE IS YOUR OPNION





Features

- *** FRONT SERVICE or Back Services
- *** Light Weight
- *** Aliminum Die-Casting
- *** 500x500:12 in 1 Case weight with products: 118kg.
- *** 500x1000:6 in 1 Case weight with products: 118kg.
- *** Faster Cooling
- *** Advenced and safety Lock
- *** Nova Star Controller
- *** BLACK SHELL

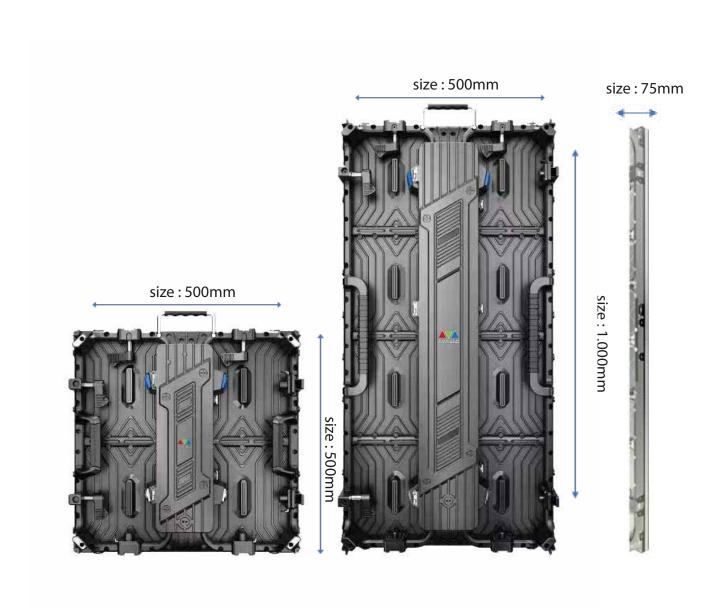


O TECHNICAL SPECIFICATION

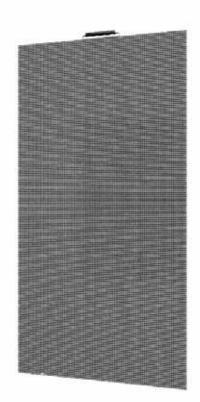
MODEL NAME	AV-3 500x1000mm	AV-3 500x500mm
Features	:	:
Series	OR PRO	OR PRO
Panel installation type	Rental	Rental
Operating Environment	Outdoor	Outdoor
Pixel Pitch	3,91mm	3,91mm
Brightness	>4600 Nits	>4600 Nits
Refresh Rate	>3840Hz	>3840Hz
Weight / m2	<27	<27
Material Brands		
Lamp	Class A	Class A
Entegred	Chipone or Smilar	Chipone or Smilar
Powersupply	Meanwell or Smilar/Smilier	Meanwell or Smilar/Smilier
Controller	Novastar	Novastar
Connectors : Seetronic	Seetronic	Seetronic
Module Specifications	: CMD 1021	:
Pixel Configuration	SMD 1921	SMD 1921
LED Chip	Cooper	Cooper
LED	Black Shell	Black Shell
Module Size (mm)	250mm x 250mm	250mm x 250mm
Module Resolution	64 x 64	64 x 64
Processing PCR Quality	>14-16 Bit	>14-16 Bit
PCB Quality	Best Quality Normal Mask	Best Quality Normal Mask
Module - Mask Quality		
Picture / Video Quality	High Quality >65536	High Quality
Grey Scale Cabinet Specifications	>05530 :	>65536
Module Per Cabinet	8 MODULE	4 MODULE
Cabinet Size (mm)	500 x 1000 x 77mm	500 x 500 x 77mm
Cabinet Size (IIIII) Cabinet Material	Die-Casting Aliminum	Die-Casting Aliminum
Weight Per Panel Net kg.	13,8	< 7
Cabinet Resolution	128x256	128x128
Pixel Density / Cabinet	32768	16384
IP Rating	Back IP54 / Front IP67	Back IP54 / Front IP67
Others Specifications	:	Back II 34 / Front II 0 /
Driving IC Type	PWM	PWM
Refrate Quality 2	High Refresh Rate	High Refresh Rate
No Waterless Ripple of Camera	>%75	>%75
Driving Method " Scan "	1/16	1/16
Resolution/SQM	256 x 256	256 x 256
Pixel Density / m2	65536	65536
White Color Calibration (Adj.)	3.500K~8.500K	3.500K~8.500K
Horizontal Viewing Angle	140 (±30)	140 (±30)
Vertical Viewing Angle	140 (±30)	140 (±30)
Low Latency	No	No
HDR	No	No
Mapping	No	No
Rotation per 90 Degree	Yes	Yes
Free Rotation (with R5)	Optional	Optional
Clear View	Optional	Optional
Refresh Quality	High Quality	High Quality
High Refresh (PLL inside)	-	-
High Refresh Power Saving	Yes	Yes
High Refresh Dynamic Power Saving	-	-
Expected LED Lifetime %50	>100.000 Hours	>100.000 Hours
Operating Temperature Range	-15 - +45 (±10)	-15 - +45 (±10)
Operating Humidity Range	-40! " +60! ,10%-90%RH	-40! " +60! ,10%-90%RH
Power on Time (<w sqm)<="" td=""><td>800</td><td>800</td></w>	800	800
Power Consumption (<w sqm)<="" td=""><td>750</td><td>750</td></w>	750	750
Average Power Consumption (<w sqm)<="" td=""><td>262,5</td><td>262,5</td></w>	262,5	262,5
Voltage Range	47 ~ 63Hz / 110 ~ 240 VAC	47 ~ 63Hz / 110 ~ 240 VAC
Version	REV22	REV22
Packing include	Plate-Power-Cat5 Cable	Plate-Power-Cat5 Cable
Usage Area	Rental Screen	Rental Screen
Certificate	CE/EMC/LVD-ATR-EUR1 ISO-9001:2015	CE/EMC/LVD-ATR-EUR1 ISO-9001:2015



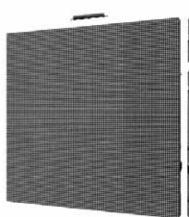
PRODUCT CABINET SIZE







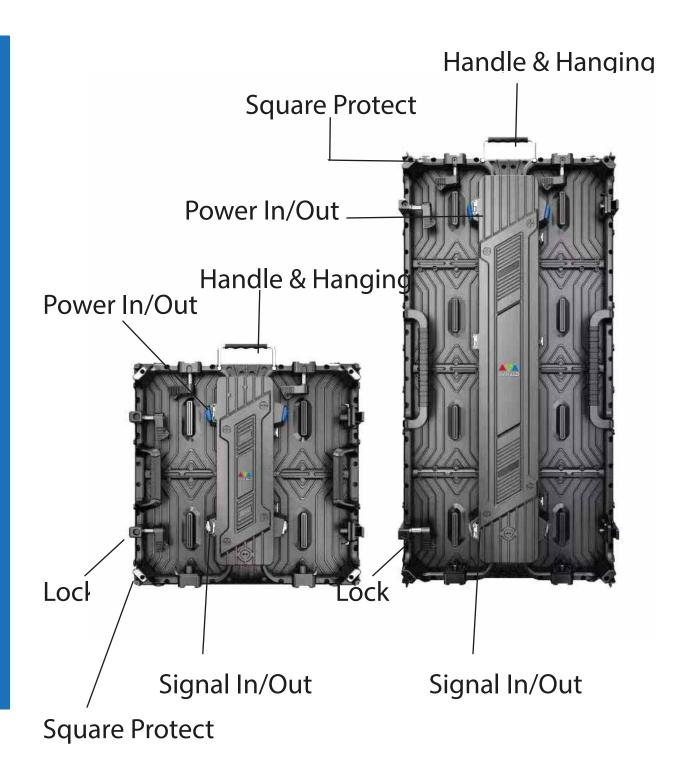






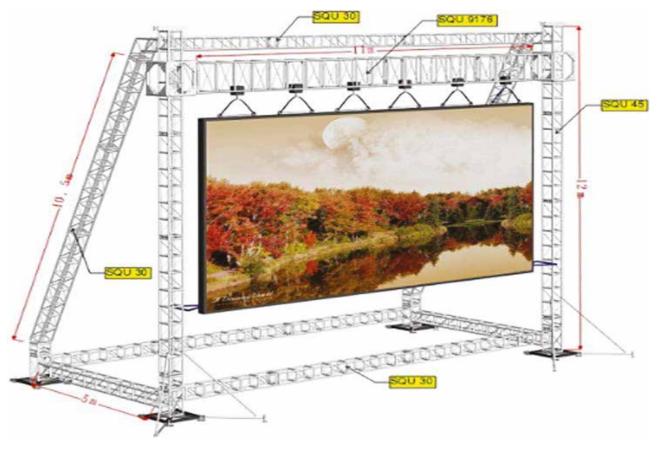


O CONNECTION









QALITY IN DETAIL



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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.



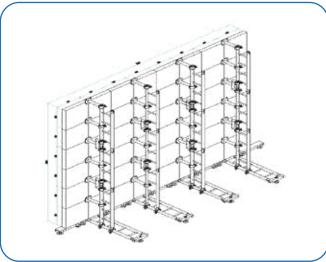
































AV-4 OR

Data Sheet

OUTDOOR SERIES

AV-4 OR





02-03 • Series and Features

04-05 • Product Details

o Size - Product Photo

08-09 • Cabinet Detail - Safety

10-11 o Installation Guides

o Accessories - Company Info



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



AV-4 OR

- · High Refresh Rate: 3840Hz
- · High Brightness
- · A Class Led Chip
- · High Quality PCB
- · High Quality MASK



THERE ARE TWO CABINET SIZE IS YOUR OPNION





Features

- *** FRONT SERVICE or Back Services
- *** Light Weight
- *** Aliminum Die-Casting
- *** 500x500:12 in 1 Case weight with products: 118kg.
- *** 500x1000:6 in 1 Case weight with products: 118kg.
- *** Faster Cooling
- *** Advenced and safety Lock
- *** Nova Star Controller
- *** BLACK SHELL

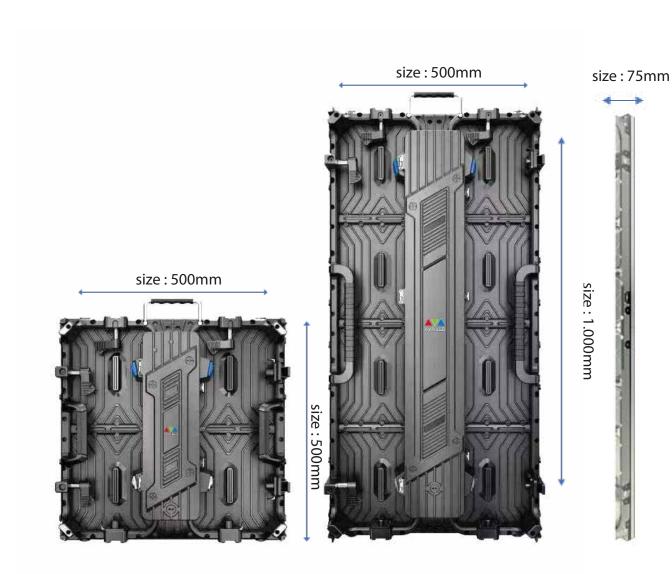




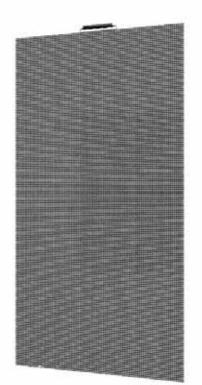
MODEL NAME	AV-4 500x1000mm	AV-4 500x500mm
Features	:	:
Series	OR	OR
Panel installation type	Rental	Rental
Operating Environment	Outdoor	Outdoor
Pixel Pitch	4,81mm	4,81 mm
Brightness	>4500 Nits	>4500 Nits
Refresh Rate	>3840Hz	>3840Hz
Weight / m2	<27	<27
Material Brands		
Lamp	Class A	Class A
Entegred	Chipone or Smilar	Chipone or Smilar
Powersupply	Meanwell or Smilar/Smilier	Meanwell or Smilar/Smilier
Controller	Novastar	Novastar
Connectors : Seetronic	Seetronic	Seetronic
Module Specifications	:	CMD 1001
Pixel Configuration	SMD 1921	SMD 1921
LED Chip	Cooper	Cooper
LED Madula Siza (mm)	Black Shell	Black Shell
Module Size (mm) Module Resolution	250mm x 250mm 52 X 52	250mm x 250mm 52 X 52
Processing	>14-16 Bit	>14-16 Bit
PCB Quality	Best Quality	Best Quality
Module - Mask Quality	Normal Mask	Normal Mask
Picture / Video Quality	High Quality	High Quality
Grey Scale	>65536	>65536
Cabinet Specifications	:	:
Module Per Cabinet	8 MODULE	4 MODULE
Cabinet Size (mm)	500 x 1000 x 77mm	500 x 500 x 77mm
Cabinet Material	Die-Casting Aliminum	Die-Casting Aliminum
Weight Per Panel Net kg.	13,8	< 7
Cabinet Resolution	104 x 208	104 x 104
Pixel Density / Cabinet	21632	10816
IP Rating	Back IP54 / Front IP67	Back IP54 / Front IP67
Others Specifications	:	:
Driving IC Type	PWM	PWM
Refrate Quality 2	High Refresh Rate	High Refresh Rate
No Waterless Ripple of Camera	>%75	>%75
Driving Method " Scan "	1/13	1/13
Resolution/SQM	208 x 208	208 x 208
Pixel Density / m2	43264	43264
White Color Calibration (Adj.) Horizontal Viewing Angle	3.500K~8.500K 140 (±30)	3.500K~8.500K 140 (±30)
Vertical Viewing Angle	140 (±30) 140 (±30)	140 (±30) 140 (±30)
Low Latency	No	No
HDR	No	No
Mapping	No	No
Rotation per 90 Degree	Yes	Yes
Free Rotation (with R5)	Optional	Optional
Clear View	Optional	Optional
Refresh Quality	High Quality	High Quality
High Refresh (PLL inside)	-	-
High Refresh Power Saving	Yes	Yes
High Refresh Dynamic Power Saving	-	-
Expected LED Lifetime %50	>100.000 Hours	>100.000 Hours
Operating Temperature Range	-15 - +45 (±10)	-15 - +45 (±10)
Operating Humidity Range	-40! " +60! ,10%-90%RH	-40! " +60! ,10%-90%RH
Power on Time (<w sqm)<="" td=""><td>800</td><td>800</td></w>	800	800
Power Consumption (<w sqm)<="" td=""><td>700</td><td>700</td></w>	700	700
Average Power Consumption (<w sqm)<="" td=""><td>245</td><td>245</td></w>	245	245
Voltage Range	47 ~ 63Hz / 110 ~ 240 VAC	47 ~ 63Hz / 110 ~ 240 VAC
Version	REV22	REV22
Packing include	Plate-Power-Cat5 Cable	Plate-Power-Cat5 Cable
Usage Area	Rental Screen	Rental Screen
Certificate	CE/EMC/LVD-ATR-EURI ISO-9001:2015 ISO-14001:2015	CE/EMC/LVD-ATR-EUR1 ISO-9001:2015 ISO-14001:2015
	100 1.001.2010	100 1.301,2010



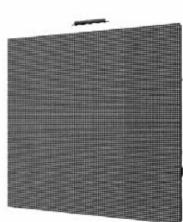
PRODUCT CABINET SIZE







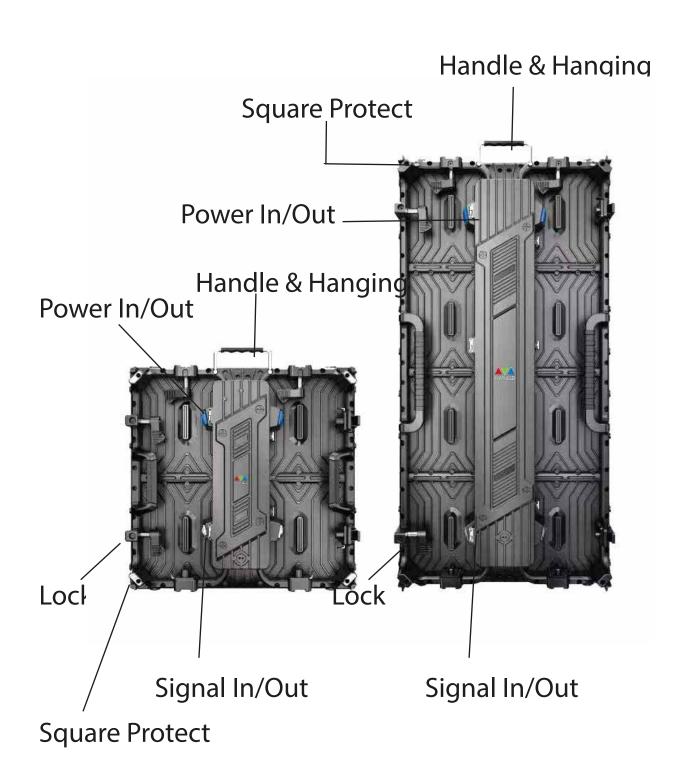






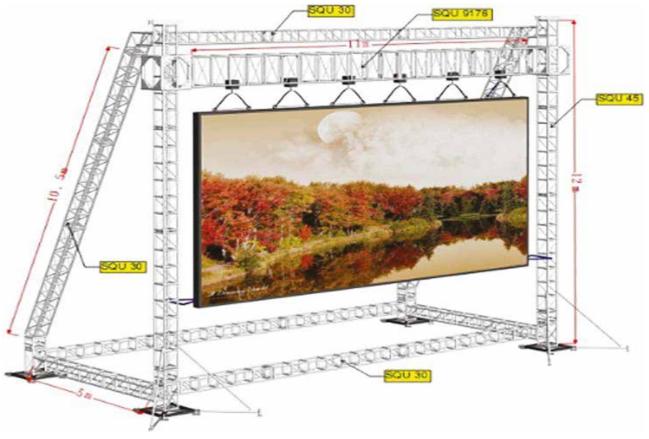


CONNECTION









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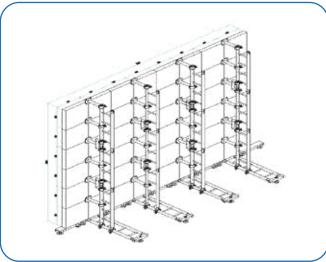
































TK-PRO-IP-1
P1,86
Data Sheet



TK-PRO-IP-1"P1,86"









02-04 • Features

o Technical Specification

06-08 • Cabinet Size - Photo

09-10 • Safety - Instalation

11 - 12 • Vision

o Company Info



Magnesium Die Casting Cabinet

Cabinet Size: 640x1920x70mm

Videowall Systems, Easy and Fast

Installation " Magnetic Cabinet Systems "

Front Seriveces

USB Input " Plug and Play "

HDMI Input "Plug and Play"

CAT 5 input

Wifi Commution "optional"

Lan Control with internet

4G Control "optional"

Smart Systems " IOS - Android "

1GB memory

POSTER & Videowall same Screen



TK-PRO-IP 1 PRO "P1,86"

- High Refresh Rate: 3840Hz
- · A Class Led Chip
- High Quality PCB
- · High Quality MASK
- · Rotation 90 Degree







Features

- *** FRONT SERVICE
- *** Light Weight
- *** Magnesium Die-Casting
- *** 3 in 1 Case weight with products: 129kg.
- *** Faster Cooling
- *** Advenced and safety Lock
- *** Nova Star Controller
- *** SPACE BLACK



MODEL NAME	TK-PRO-IP-1 "P1,86"
Features	:
Series	Pro
Panel installation type	Fix Instalation
Operating Environment	Indoor
Pixel Pitch	1,86mm
Brightness Refresh Rate	>800 Nits >3840Hz
Weight / m2	<22
Material Brands	722
Lamp	Class A
Entegred	Chipone or Smilar
Powersupply	Meanwell or Smilar
Controller	Novastar
Connectors : Seetronic	Seetronic
Module Specifications	:
Pixel Configuration	SMD 1515
LED Chip	Cooper
LED	Space Black
Module Size (mm)	320mm x 160mm
Module Resolution	172 x 86
Processing	>14-16 Bit
PCB Quality Modulo Mosk Quality	Best Quality
Module - Mask Quality	Normal Mask High Quality
Picture / Video Quality Grey Scale	>262144
Cabinet Specifications	:
Module Per Cabinet	24 MODULE
Cabinet Size (mm)	640 x 1920 x 70
Cabinet Material	Die-Casting Magnesium
Weight Per Panel Net kg.	27
Cabinet Resolution	344 x 1.024
Pixel Density / Cabinet	352256
IP Rating	IP40
Others Specifications	:
Driving IC Type	PWM
Refrate Quality 2	Highend Refresh Rate
No Waterless Ripple of Camera	>%75
Driving Method " Scan "	1/29
Resolution/SQM	538 x 538
Pixel Density / m2 White Color Calibration (Adj.)	289444 3.500K~8.500K
Horizontal Viewing Angle	3.500K~8.500K
Vertical Viewing Angle	140 (±30)
Low Latency	No
HDR	No
Mapping	Yes
Rotation per 90 Degree	Yes
Free Rotation (with R5)	Optional
Clear View	Optional
Refresh Quality	High Quality
High Refresh (PLL inside)	-
High Refresh Power Saving	Yes
High Refresh Dynamic Power Saving	-
Expected LED Lifetime %50	>100.000 Hours
Operating Temperature Range	-15 - +45 (±10)
Operating Humidity Range	-40! " +60! ,10%-90%RH
Power on Time (<w sqm)<="" td=""><td>800</td></w>	800
Power Consumption (<w sqm)<="" td=""><td>670</td></w>	670
Average Power Consumption (<w sqm)<="" td=""><td>201 47 63Hz / 110 240 VAC</td></w>	201 47 63Hz / 110 240 VAC
Voltage Range	47 ~ 63Hz / 110 ~ 240 VAC
Version Packing include	REV22 Plate-Power-Cat5 Cable
a coming include	
Usage Area	Advertisement, Shopping Center, Restaurant & info Board
Certificate	CE/EMC/LVD-ATR-EUR1 ISO-9001:2015



size: 640mm



size: 1.920mm

27KG.



size : 70mm



3 IN 1 129KG.







FAST ROTATION: 0 - 90 - 180 - 270 - 360



FRONT SERVICES







Ultra High Definition

It delivers a truly amazing picture with extraordinary pixels producing an image that is HD quality in an LED Screen.ipsum

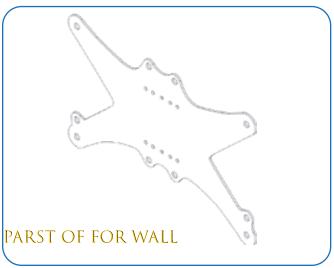


















The support structure has to be provided and installed by the customer because they very from project to project. The following issues must be considered:

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.



size: 3.840mm



ULTRA WIDE VIEWING ANGLE



Both 160° from horizontal & vertical for the viewing angle. Seeing from five directions, it would be still the natural and clear image in an LED display.

ULTRA FAST RESPONSE



Response speed



Perfect Rendering Dynamic Picture

Smear Ghosting Phenomenon

18 BIT GREY SCALE



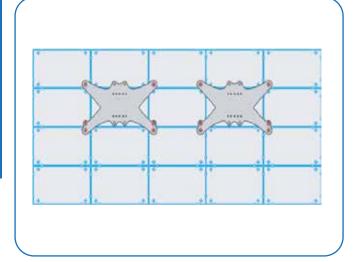
AVA LED



Others











TK-PRO-IP-2

P2,5
Data Sheet



TK-PRO-IP-2 "P2,5"









```
02-04 o Features
```

o Technical Specification

06-08 • Cabinet Size - Photo

09-10 • Safety - Instalation

11 - 12 • Vision

o Company Info



Magnesium Die Casting Cabinet

Cabinet Size: 640x1920x70mm

Videowall Systems, Easy and Fast

Installation " Magnetic Cabinet Systems "

Front Seriveces

USB Input " Plug and Play "

HDMI Input "Plug and Play"

CAT 5 input

Wifi Commution "optional"

Lan Control with internet

4G Control "optional"

Smart Systems " IOS - Android "

1GB memory

POSTER & Videowall same Screen



TK-PRO-IP 2"P2,5" PRO

- · High Refresh Rate: 3840Hz
- · A Class Led Chip
- · High Quality PCB
- · High Quality MASK
- · Rotation 90 Degree







Features

- *** FRONT SERVICE
- *** Light Weight
- *** Magnesium Die-Casting
- *** 3 in 1 Case weight with products: 129kg.
- *** Faster Cooling
- *** Advenced and safety Lock
- *** Nova Star Controller
- *** SPACE BLACK



MODEL NAME	TK-PRO-IP-2 " P2,5 "
Features	:
Series	Pro
Panel installation type	Fix Instalation
Operating Environment Pixel Pitch	Indoor 2.5mm
Brightness	2,5mm >1000 Nits
Refresh Rate	>3840Hz
Weight / m2	<22
Material Brands	
Lamp	Class A
Entegred	Chipone or Smilar
Powersupply	Meanwell or Smilar
Controller	Novastar
Connectors : Seetronic	Seetronic
Module Specifications	: CMD 2020
Pixel Configuration	SMD 2020
LED Chip LED	Cooper Space Black
Module Size (mm)	320mm x 160mm
Module Resolution	128 x 64
Processing	>14-16 Bit
PCB Quality	Best Quality
Module - Mask Quality	Normal Mask
Picture / Video Quality	High Quality
Grey Scale	>65536
Cabinet Specifications	:
Module Per Cabinet	24 MODULE
Cabinet Size (mm)	640 x 1920 x 70
Cabinet Material	Die-Casting Magnesium
Weight Per Panel Net kg.	27
Cabinet Resolution	256 x 768
Pixel Density / Cabinet IP Rating	196608 IP40
Others Specifications	:
Driving IC Type	PWM
Refrate Quality 2	High Refresh
No Waterless Ripple of Camera	>%75
Driving Method " Scan "	1/32
Resolution/SQM	400 x 400
Pixel Density / m2	160000
White Color Calibration (Adj.)	3.500K~8.500K
Horizontal Viewing Angle	140 (±30)
Vertical Viewing Angle	140 (±30)
Low Latency	No No
HDR Mapping	Yes
Rotation per 90 Degree	Yes
Free Rotation (with R5)	Optional
Clear View	Optional
Refresh Quality	High Quality
High Refresh (PLL inside)	-
High Refresh Power Saving	Yes
High Refresh Dynamic Power Saving	-
Expected LED Lifetime %50	>100.000 Hours
Operating Temperature Range	-15 - +45 (±10)
Operating Humidity Range	-40! " +60! ,10%-90%RH
Power on Time (<w sqm)<="" td=""><td>800 570</td></w>	800 570
Power Consumption (<w (<w="" average="" consumption="" power="" sqm)="" sqm)<="" td=""><td>171</td></w>	171
Voltage Range	47 ~ 63Hz / 110 ~ 240 VAC
Version	REV22
Packing include	Plate-Power-Cat5 Cable
Usage Area	Advertisement, Shopping Center, Restaurant & info Board
Certificate	CE/EMC/LVD-ATR-EURI ISO-9001:2015 ISO-14001:2015



size: 640mm



size : 1.920mm



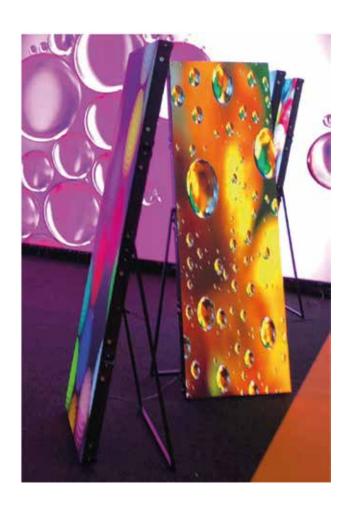
27KG.

size: 70mm



3 IN 1 129KG.







FAST ROTATION: 0 - 90 - 180 - 270 - 360



FRONT SERVICES







Ultra High Definition

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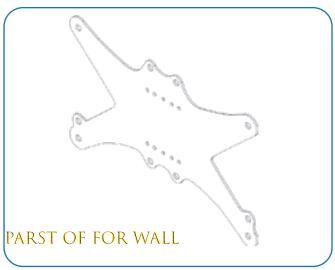


















The support structure has to be provided and installed by the customer because they very from project to project. The following issues must be considered:

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.



size: 3.840mm



ULTRA WIDE VIEWING ANGLE



Both 160° from horizontal & vertical for the viewing angle. Seeing from five directions, it would be still the natural and clear image in an LED display.

ULTRA FAST RESPONSE



Response speed



Perfect Rendering Dynamic Picture

Smear Ghosting Phenomenon

18 BIT GREY SCALE



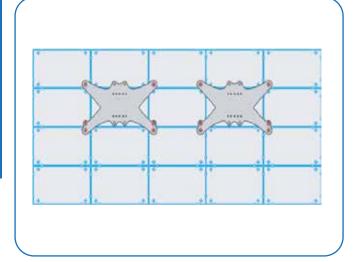
AVA LED



Others













www.avaledscreen.com info@avaledscreen.com

AVA GROUP GMBH

Adress: Seelbachstraße 5, 66687 Wadern, Germany

Phone: +49 211 730 64 817









TK-PRO-IP-2 Data Sheet



INDOOR FRONT SERVICE POSTER SERIES

TK-PRO-IP-2





```
02-04 o Features
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o Technical Specification

06-08 • Cabinet Size - Photo

09-10 • Safety - Instalation

11 - 12 • Vision

o Company Info



Magnesium Die Casting Cabinet

Cabinet Size: 640x1920x70mm

Videowall Systems, Easy and Fast

Installation " Magnetic Cabinet Systems "

Front Seriveces

USB Input " Plug and Play "

HDMI Input "Plug and Play"

CAT 5 input

Wifi Commution "optional"

Lan Control with internet

4G Control "optional"

Smart Systems " IOS - Android "

1GB memory

POSTER & Videowall same Screen



TK-PRO-IP 2

- · High Refresh Rate: 3840Hz
- · A Class Led Chip
- · High Quality PCB
- · High Quality MASK
- · Rotation 90 Degree





Features

- *** FRONT SERVICE
- *** Light Weight
- *** Magnesium Die-Casting
- *** 3 in 1 Case weight with products: 129kg.
- *** Faster Cooling
- *** Advenced and safety Lock
- *** Nova Star Controller
- *** SPACE BLACK



Footunes	TK-PRO-IP-2
Features	:
Series	Pro
Panel installation type	Fix Instalation
Operating Environment	Indoor
Pixel Pitch	2mm
Brightness	>800 Nits
Refresh Rate	>3840Hz
Weight / m2	<22
Material Brands	Clara A
Lamp	Class A
Entegred Powersupply	Chipone or Smilar Meanwell or Smilar
Powersupply Controller	Novastar
Connectors : Seetronic	Seetronic
Module Specifications	:
Pixel Configuration	SMD 1515
LED Chip	Cooper
LED	Space Black
Module Size (mm)	320mm x 160mm
Module Resolution	160 x 80
Processing	>14-16 Bit
PCB Quality	Best Quality
Module - Mask Quality	Normal Mask
Picture / Video Quality	High Quality
Grey Scale	>65536
Cabinet Specifications	:
Module Per Cabinet	24 MODULE
Cabinet Size (mm)	640 x 1920 x 70
Cabinet Material	Die-Casting Magnesium
Weight Per Panel Net kg.	27
Cabinet Resolution	320 x 960
Pixel Density / Cabinet	307200
IP Rating	IP40
Others Specifications	:
Driving IC Type	PWM
Refrate Quality 2	High Refresh
No Waterless Ripple of Camera	>%75
Driving Method " Scan "	1/40
Resolution/SQM	500 x 500
Pixel Density / m2	250000
White Color Calibration (Adj.)	3.500K~8.500K
Horizontal Viewing Angle	140 (±30)
Vertical Viewing Angle	140 (±30)
Low Latency	No
HDR	No
	**
	Yes
Mapping	Yes
Mapping Rotation per 90 Degree	
Mapping	Yes
Mapping Rotation per 90 Degree Free Rotation (with R5)	Yes Optional
Mapping Rotation per 90 Degree Free Rotation (with R5) Clear View	Yes Optional Optional
Mapping Rotation per 90 Degree Free Rotation (with R5) Clear View Refresh Quality	Yes Optional Optional
Mapping Rotation per 90 Degree Free Rotation (with R5) Clear View Refresh Quality High Refresh (PLL inside)	Yes Optional Optional High Quality
Mapping Rotation per 90 Degree Free Rotation (with R5) Clear View Refresh Quality High Refresh (PLL inside) High Refresh Power Saving	Yes Optional Optional High Quality
Mapping Rotation per 90 Degree Free Rotation (with R5) Clear View Refresh Quality High Refresh (PLL inside) High Refresh Power Saving High Refresh Dynamic Power Saving	Yes Optional Optional High Quality - Yes
Mapping Rotation per 90 Degree Free Rotation (with R5) Clear View Refresh Quality High Refresh (PLL inside) High Refresh Power Saving High Refresh Dynamic Power Saving Expected LED Lifetime %50	Yes Optional Optional High Quality - Yes - >100.000 Hours
Mapping Rotation per 90 Degree Free Rotation (with R5) Clear View Refresh Quality High Refresh (PLL inside) High Refresh Power Saving High Refresh Dynamic Power Saving Expected LED Lifetime %50 Operating Temperature Range	Yes Optional Optional High Quality - Yes - >100.000 Hours -15 - +45 (±10)
Mapping Rotation per 90 Degree Free Rotation (with R5) Clear View Refresh Quality High Refresh (PLL inside) High Refresh Power Saving High Refresh Dynamic Power Saving Expected LED Lifetime %50 Operating Temperature Range Operating Humidity Range	Yes Optional Optional High Quality - Yes - >100.000 Hours -15 - +45 (±10) -40! " +60! ,10%-90%RH
Mapping Rotation per 90 Degree Free Rotation (with R5) Clear View Refresh Quality High Refresh (PLL inside) High Refresh Power Saving High Refresh Dynamic Power Saving Expected LED Lifetime %50 Operating Temperature Range Operating Humidity Range Power on Time (<w sqm)<="" td=""><td>Yes Optional Optional High Quality - Yes - >100.000 Hours -15 - +45 (±10) -40! " +60! ,10%-90%RH 800</td></w>	Yes Optional Optional High Quality - Yes - >100.000 Hours -15 - +45 (±10) -40! " +60! ,10%-90%RH 800
Mapping Rotation per 90 Degree Free Rotation (with R5) Clear View Refresh Quality High Refresh (PLL inside) High Refresh Power Saving High Refresh Dynamic Power Saving Expected LED Lifetime %50 Operating Temperature Range Operating Humidity Range Power on Time (<w (<w="" consumption="" power="" sqm)="" sqm)<="" td=""><td>Yes Optional Optional High Quality - Yes - >100.000 Hours -15 - +45 (±10) -40! " +60! ,10%-90%RH 800 550</td></w>	Yes Optional Optional High Quality - Yes - >100.000 Hours -15 - +45 (±10) -40! " +60! ,10%-90%RH 800 550
Mapping Rotation per 90 Degree Free Rotation (with R5) Clear View Refresh Quality High Refresh (PLL inside) High Refresh Power Saving High Refresh Dynamic Power Saving Expected LED Lifetime %50 Operating Temperature Range Operating Humidity Range Power on Time (<w (<w="" average="" consumption="" power="" sqm)="" sqm)<="" td=""><td>Yes Optional Optional High Quality - Yes - >100.000 Hours -15 - +45 (±10) -40! " +60! ,10%-90%RH 800 550 165</td></w>	Yes Optional Optional High Quality - Yes - >100.000 Hours -15 - +45 (±10) -40! " +60! ,10%-90%RH 800 550 165
Mapping Rotation per 90 Degree Free Rotation (with R5) Clear View Refresh Quality High Refresh (PLL inside) High Refresh Power Saving High Refresh Dynamic Power Saving Expected LED Lifetime %50 Operating Temperature Range Operating Humidity Range Power on Time (<w (<w="" average="" consumption="" power="" range<="" sqm)="" td="" voltage=""><td>Yes Optional Optional High Quality - Yes - >100.000 Hours -15 - +45 (±10) -401 " +601 ,10%-90%RH 800 550 165 47 ~ 63Hz / 110 ~ 240 VAC</td></w>	Yes Optional Optional High Quality - Yes - >100.000 Hours -15 - +45 (±10) -401 " +601 ,10%-90%RH 800 550 165 47 ~ 63Hz / 110 ~ 240 VAC
Mapping Rotation per 90 Degree Free Rotation (with R5) Clear View Refresh Quality High Refresh (PLL inside) High Refresh Power Saving High Refresh Dynamic Power Saving Expected LED Lifetime %50 Operating Temperature Range Operating Humidity Range Power on Time (<w (<w="" average="" consumption="" power="" range="" sqm)="" td="" version<="" voltage=""><td>Yes Optional Optional High Quality - Yes - >100.000 Hours -15 - +45 (±10) -40! " +60! ,10%-90%RH 800 550 165 47 ~ 63Hz / 110 ~ 240 VAC REV22</td></w>	Yes Optional Optional High Quality - Yes - >100.000 Hours -15 - +45 (±10) -40! " +60! ,10%-90%RH 800 550 165 47 ~ 63Hz / 110 ~ 240 VAC REV22
Mapping Rotation per 90 Degree Free Rotation (with R5) Clear View Refresh Quality High Refresh (PLL inside) High Refresh Power Saving High Refresh Dynamic Power Saving Expected LED Lifetime %50 Operating Temperature Range Operating Temperature Range Operating Humidity Range Power on Time (<w (<w="" average="" consumption="" include<="" packing="" power="" range="" sqm)="" td="" version="" voltage=""><td>Yes Optional Optional High Quality - Yes - >100.000 Hours -15 - +45 (±10) -40! " +60! ,10%-90%RH 800 550 165 47 ~ 63Hz / 110 ~ 240 VAC REV22 Plate-Power-Cat5 Cable Advertisement, Shopping Center,</td></w>	Yes Optional Optional High Quality - Yes - >100.000 Hours -15 - +45 (±10) -40! " +60! ,10%-90%RH 800 550 165 47 ~ 63Hz / 110 ~ 240 VAC REV22 Plate-Power-Cat5 Cable Advertisement, Shopping Center,



size: 640mm



size : 1.920mm

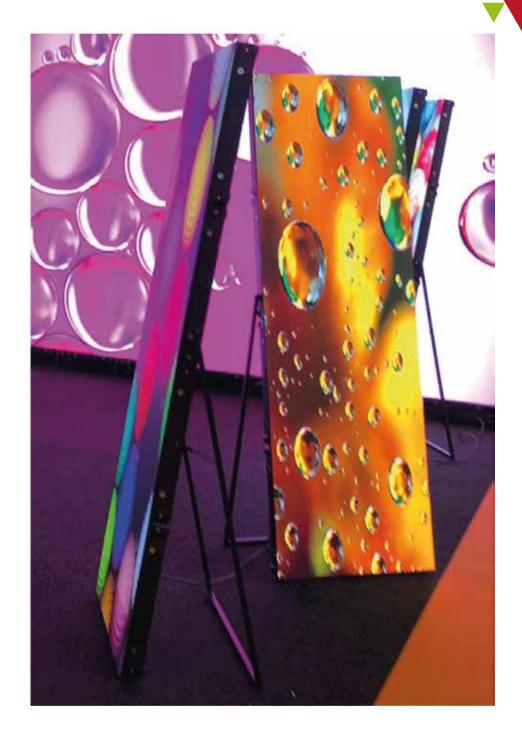
27KG.



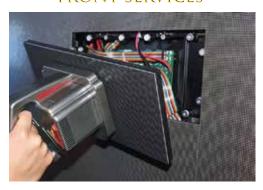
size: 70mm



3 IN 1 129KG.



FRONT SERVICES







Ultra High Definition

It delivers a truly amazing picture with extraordinary pixels producing an image that is HD quality in an LED Screen.ipsum

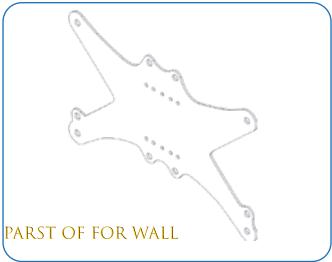


















The support structure has to be provided and installed by the customer because they very from project to project. The following issues must be considered:

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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.





ULTRA WIDE VIEWING ANGLE



Both 160° from horizontal & vertical for the viewing angle. Seeing from five directions, it would be still the natural and clear image in an LED display.

ULTRA FAST RESPONSE



Response speed



Perfect Rendering Dynamic Picture

Smear Ghosting Phenomenon

18 BIT GREY SCALE



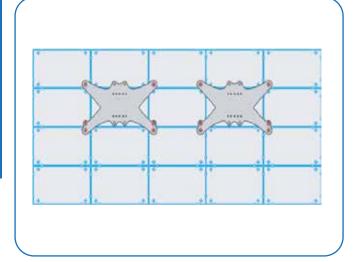
AVA LED



Others













www.avaledscreen.com info@avaledscreen.com

AVA GROUP GMBH

Adress: Seelbachstraße 5, 66687 Wadern, Germany

Phone: +49 211 730 64 817









TK-PRO-IP-3 Data Sheet



INDOOR FRONT SERVICE POSTER SERIES

TK-PRO-IP-3





02-04 o Features

o Technical Specification

06-08 • Cabinet Size - Photo

09 - 10 • Safety - Instalation

11 - 12 • Vision

o Company Info



Magnesium Die Casting Cabinet

Cabinet Size: 640x1920x70mm

Videowall Systems, Easy and Fast

Installation " Magnetic Cabinet Systems "

Front Seriveces

USB Input " Plug and Play "

HDMI Input "Plug and Play"

CAT 5 input

Wifi Commution "optional"

Lan Control with internet

4G Control "optional"

Smart Systems " IOS - Android "

1GB memory

POSTER & Videowall same Screen



TK-PRO-IP 3

- · High Refresh Rate: 3840Hz
- · A Class Led Chip
- · High Quality PCB
- · High Quality MASK
- · Rotation 90 Degree



Features

- *** FRONT SERVICE
- *** Light Weight
- *** Magnesium Die-Casting
- *** 3 in 1 Case weight with products: 129kg.
- *** Faster Cooling
- *** Advenced and safety Lock
- *** Nova Star Controller
- *** SPACE BLACK



MODEL NAME	TK-PRO-IP-3
Features	:
Series	Pro
Panel installation type	Fix Instalation
Operating Environment	Indoor
Pixel Pitch	3,076mm
Brightness	>1000 Nits
Refresh Rate Weight / m2	>3840Hz <22
Material Brands	~22
Lamp	Class A
Entegred	Chipone or Smilar
Powersupply	Meanwell or Smilar
Controller	Novastar
Connectors : Seetronic	Seetronic
Module Specifications	:
Pixel Configuration	SMD 2020
LED Chip	Cooper
LED	Space Black
Module Size (mm)	320mm x 160mm
Module Resolution	104 x 52
Processing	>14-16 Bit
PCB Quality	Best Quality
Module - Mask Quality	Normal Mask
Picture / Video Quality	High Quality
Grey Scale	>65536
Cabinet Specifications	:
Module Per Cabinet	24 MODULE
Cabinet Size (mm)	640 x 1920 x 70
Cabinet Material Weight Per Panel Net kg.	Die-Casting Magnesium 27
Cabinet Resolution	208 x 624
Pixel Density / Cabinet	129792
IP Rating	IP40
Others Specifications	:
Driving IC Type	PWM
Refrate Quality 2	High Refresh
No Waterless Ripple of Camera	>%75
Driving Method " Scan "	1/26
Resolution/SQM	325 x 325
Pixel Density / m2	105625
White Color Calibration (Adj.)	3.500K~8.500K
Horizontal Viewing Angle	140 (±30)
Vertical Viewing Angle	140 (±30)
Low Latency	No
HDR	No
Mapping	Yes
Rotation per 90 Degree	Yes
Free Rotation (with R5)	Optional
Clear View	Optional
Refresh Quality	High Quality
High Refresh (PLL inside)	- V
High Refresh Power Saving	Yes
High Refresh Dynamic Power Saving Expected LED Lifetime %50	>100.000 Hours
	-15 - +45 (±10)
Operating Temperature Range Operating Humidity Range	-40! " +60! ,10%-90%RH
Power on Time (<w sqm)<="" td=""><td>800</td></w>	800
Power Consumption (<w sqm)<="" td=""><td>560</td></w>	560
Average Power Consumption (<w sqm)<="" td=""><td>168</td></w>	168
ge - o to company tron (oqiii)	47 ~ 63Hz / 110 ~ 240 VAC
Voltage Range	
	REV22
Voltage Range Version Packing include	REV22 Plate-Power-Cat5 Cable
	Plate-Power-Cat5 Cable
Version	
Version Packing include	Plate-Power-Cat5 Cable Advertisement, Shopping Center,



size: 640mm



size : 1.920mm

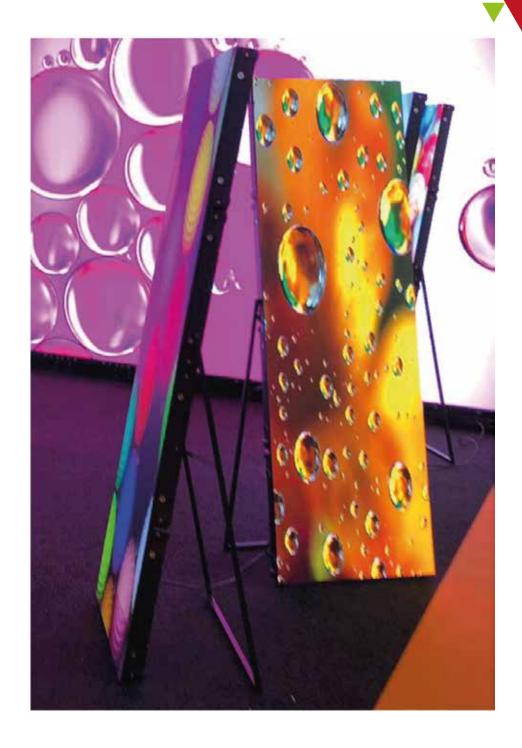


27KG.

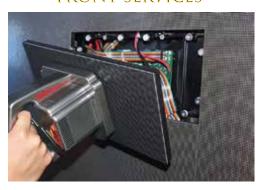


3 IN 1 129KG.

410mm



FRONT SERVICES







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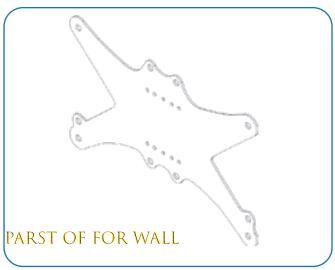


















The support structure has to be provided and installed by the customer because they very from project to project. The following issues must be considered:

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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.



size: 3.840mm



ULTRA WIDE VIEWING ANGLE



Both 160° from horizontal & vertical for the viewing angle. Seeing from five directions, it would be still the natural and clear image in an LED display.

ULTRA FAST RESPONSE



Response speed



Perfect Rendering Dynamic Picture

Smear Ghosting Phenomenon

18 BIT GREY SCALE



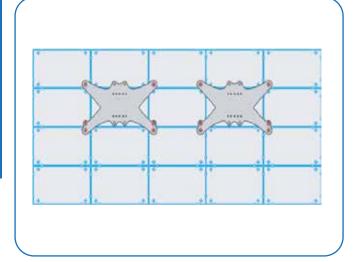
AVA LED



Others













www.avaledscreen.com info@avaledscreen.com

AVA GROUP GMBH

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Phone: +49 211 730 64 817









TK-PRO-IP-4
Data Sheet



INDOOR FRONT SERVICE POSTER SERIES

TK-PRO-IP-4





02-03 • Series and Features

04-05 • Product Details

06-07 o Product Size - Photo

08-09 • Cabinet Detail - Safety

10-11 o Installation Guides

o Accessories - Company Info



Magnesium Die Casting Cabinet

Cabinet Size: 640x1920x70mm

Videowall Systems, Easy and Fast

Installation " Magnetic Cabinet Systems "

Front Seriveces

USB Input " Plug and Play "

HDMI Input "Plug and Play"

CAT 5 input

Wifi Commution "optional"

Lan Control with internet

4G Control "optional"

Smart Systems " IOS - Android "

1GB memory

POSTER & Videowall same Screen



TK-PRO-IP 4

- · High Refresh Rate: 3840Hz
- · A Class Led Chip
- High Quality PCB
- · High Quality MASK
- · Rotation 90 Degree











Features

- *** FRONT SERVICE
- *** Light Weight
- *** Magnesium Die-Casting
- *** 3 in 1 Case weight with products: 129kg.
- *** Faster Cooling
- *** Advenced and safety Lock
- *** Nova Star Controller
- *** SPACE BLACK



TECHNICAL SPECIFICATION

MODEL NAME	TK-PRO-IP-4
Features	
Series	: Pro
Panel installation type	Fix Instalation
Operating Environment	Indoor
Pixel Pitch	4mm
Brightness	>1000 Nits
Refresh Rate	>3840Hz
Weight / m2	<22
Material Brands	
Lamp	Class A
Entegred	Chipone or Smilar
Powersupply Controller	Meanwell or Smilar
Connectors : Seetronic	Novastar Seetronic
Module Specifications	:
Pixel Configuration	SMD 2020
LED Chip	Cooper
LED	Space Black
Module Size (mm)	320mm x 160mm
Module Resolution	80 x 40
Processing	>14-16 Bit
PCB Quality	Best Quality
Module - Mask Quality	Normal Mask
Picture / Video Quality	High Quality
Grey Scale	>65536
Cabinet Specifications	:
Module Per Cabinet	24 MODULE
Cabinet Size (mm)	640 x 1920 x 70
Cabinet Material	Die-Casting Magnesium
Weight Per Panel Net kg. Cabinet Resolution	27 160 x 480
Pixel Density / Cabinet	76800
IP Rating	IP40
Others Specifications	:
Driving IC Type	PWM
Refrate Quality 2	High Refresh
No Waterless Ripple of Camera	>%75
Driving Method " Scan "	1/20
Resolution/SQM	250 x 250
Pixel Density / m2	62500
White Color Calibration (Adj.)	3.500K~8.500K
Horizontal Viewing Angle	140 (±30)
Vertical Viewing Angle	140 (±30)
Low Latency	No
HDR	No
Mapping	Yes
Rotation per 90 Degree Free Rotation (with R5)	Yes Optional
Clear View	Optional
Refresh Quality	High Quality
High Refresh (PLL inside)	-
High Refresh Power Saving	Yes
High Refresh Dynamic Power Saving	-
Expected LED Lifetime %50	>100.000 Hours
Operating Temperature Range	-15 - +45 (±10)
Operating Humidity Range	-40! " +60! ,10%-90%RH
Power on Time (<w sqm)<="" td=""><td>800</td></w>	800
Power Consumption (<w sqm)<="" td=""><td>550</td></w>	550
Average Power Consumption (<w sqm)<="" td=""><td>165</td></w>	165
Voltage Range	47 ~ 63Hz / 110 ~ 240 VAC
Version	REV22
Packing include	Plate-Power-Cat5 Cable
Usage Area	Advertisement, Shopping Center, Restaurant & info Board
Certificate	CE/EMC/LVD-ATR-EUR1 ISO-9001:2015 ISO-14001:2015



size: 640mm



size : 1.920mm

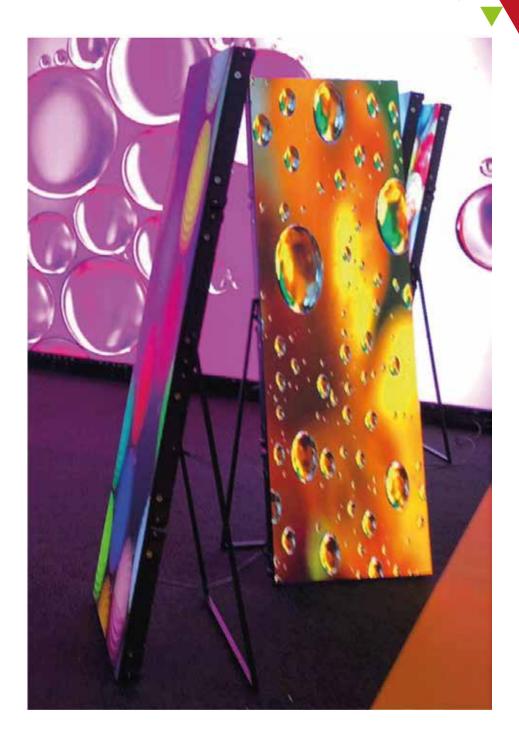
27KG.



size : 70mm



3 IN 1 129KG.



FRONT SERVICES







Ultra High Definition

It delivers a truly amazing picture with extraordinary pixels producing an image that is HD quality in an LED Screen.ipsum

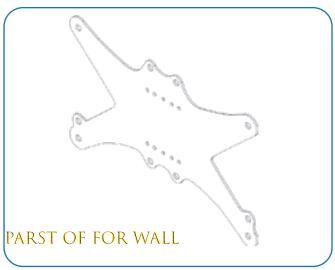


















The support structure has to be provided and installed by the customer because they very from project to project. The following issues must be considered:

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.



size: 3.840mm



ULTRA WIDE VIEWING ANGLE



Both 160° from horizontal & vertical for the viewing angle. Seeing from five directions, it would be still the natural and clear image in an LED display.

ULTRA FAST RESPONSE



Response speed



Perfect Rendering Dynamic Picture

Smear Ghosting Phenomenon

18 BIT GREY SCALE



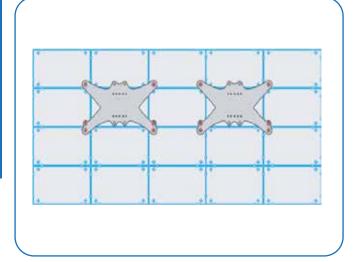
AVA LED



Others













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TN-OF-4 Data Sheet

OUTDOOR SERIES

TN-OF 4 TN-OF-4 PRO TN-OF-4 PLUS





02-03 • Series and Features

04-05 • Product Details

06-07 o Product Size - Photo

08-09 • Cabinet Detail - Safety

10-11 o Installation Guides

o Accessories - Company Info



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



TN-OF-4

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

TN-OF-4 PRO

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









Features

- *** Back Services
- *** Light Weight
- *** Magnesium Die-Casting
- *** 4 in 1 Case weight with products: 129kg.
- *** Faster Cooling
- *** Advenced and safety Lock
- *** Nova Star Controller
- *** Black Shell



O TECHNICAL SPECIFICATION

MODEL NAME	TIM OF 4	THE OF A PRO
MODEL NAME	TN-OF 4	TN-OF 4 PRO
Features Sories	Standaut	Pro
Series Panel installation type	Standart Fix Instalation	Fix Instalation
Panel installation type Operating Environment	Outdoor	Outdoor
Pixel Pitch	4mm	4mm
Brightness	>5800 Nits	>5800 Nits
Refresh Rate	>3000 Mts	>3840Hz
Weight / m2	27,5	27,5
Material Brands	2190	21,0
Lamp	Class A	Class A
Entegred	Chipone	Chipone
Powersupply	Meanwell	Meanwell
Controller	Novastar	Novastar
Connectors : Seetronic	Seetronic	Seetronic
Module Specifications		
Pixel Configuration	SMD 1921	SMD 1921
LED Chip	Cooper	Cooper
LED	Black Shell	Black Shell
Module Size (mm)	320x160	320x160
Module Resolution	80 x 40	80 x 40
Processing	>14-16 Bit	>14-16 Bit
PCB Quality	High Quality	Best Quality
Module - Mask Quality	High Quality	Best Quality
Picture / Video Quality	Standart	High Quality
Grey Scale	>65536	>65536
Cabinet Specifications		
Module Per Cabinet	18 MODULE	18 MODULE
Cabinet Size (mm)	960 x 960 x 105	960 x 960 x 105
Cabinet Material	Die-Casting Magnesium	Die-Casting Magnesium
Weight Per Panel Net kg.	25	25
Cabinet Resolution	240 x 240	240 x 240
Pixel Density / Cabinet	57600	57600
IP Rating	Back IP54 / Front IP67	Back IP54 / Front IP67
Others Specifications	0.11	DAYA
Driving IC Type	Ordinary	PWM
Refrate Quality 2	Standart Quality >%50	High Refresh >%75
No Waterless Ripple of Camera Driving Method '' Scan ''	1/10	1/10
Resolution/SQM	250 x 250	250 x 250
Pixel Density / m2	62500	62500
White Color Calibration (Adj.)	3.500K~8.500K	3.500K~8.500K
Horizontal Viewing Angle	140 (±30)	140 (±30)
Vertical Viewing Angle	140 (±30)	140 (±30)
Low Latency	Optional	Optional
HDR	Optional	Optional
Mapping	Optional	Optional
Rotation per 90 Degree	Optional	Optional
Free Rotation (with R5)	Optional	Optional
Clear View	Optional	Optional
Refresh Quality	Standart Quality	High Quality
High Refresh (PLL inside)	-	-
High Refresh Power Saving	-	!
High Refresh Dynamic Power Saving	-	-
Expected LED Lifetime %50	>100,000 Hours	>100,000 Hours
Operating Temperature Range	-15 - +45 (±10)	-15 - +45 (±10)
Operating Humidity Range	-40" # +60" ,10%-90%RH	-40" # +60" ,10%-90%RH
Power on Time (<w sqm)<="" td=""><td>900</td><td>900</td></w>	900	900
Power Consumption (<w sqm)<="" td=""><td>780</td><td>780</td></w>	780	780
Average Power Consumption (<w sqm)<="" td=""><td>312</td><td>312</td></w>	312	312
Voltage Range	47 ~ 63Hz / 110 ~ 240 VAC	47 ~ 63Hz / 110 ~ 240 VAC
Version	REV22	REV22
Packing include	Plate-Power-Cat5 Cable	Plate-Power-Cat5 Cable
Usage Area	Small Pixel Advertisement, Shopping Center & Totem	Small Pixel Advertisement, Shopping Center & Totem
Certificate	CE/EMC/LVD-ATR-EUR1 ISO-9001:2015 ISO-14001:2015	CE/EMC/LVD-ATR-EUR1 ISO-9001:2015 ISO-14001:2015

Ava Group GMBH reserves the right to change any product specification, discontinue of any product or services without prior notice QALITY IN DETAIL



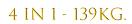
size:960mm

size: 105mm



size:960mm

25KG.



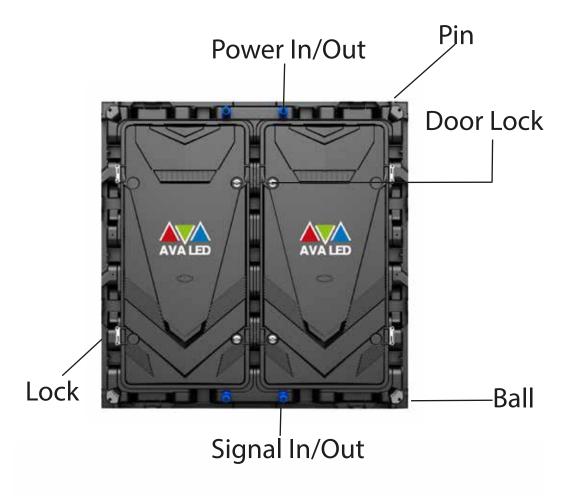


QALITY IN DETAIL

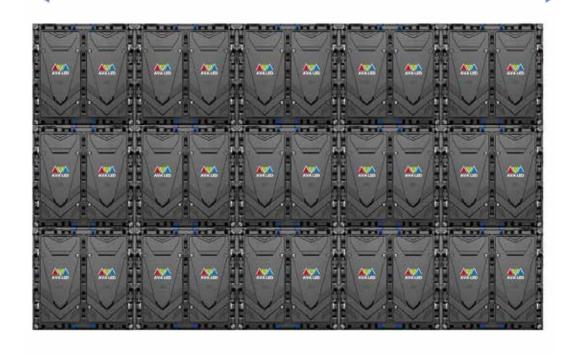




size: 2.880mm



size: 4.800mm



















size: 2.880mm

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.

Ground stability

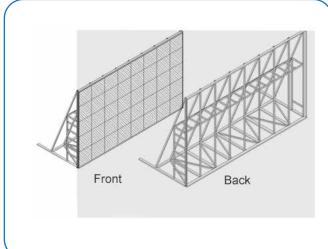
Front clearances: For making sure there is sufficient free area in front of the LED display screen and respect the maximum viewing angles and distance. Local regulations regarding such installation.

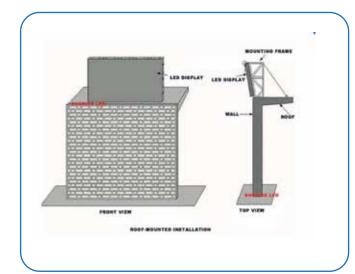


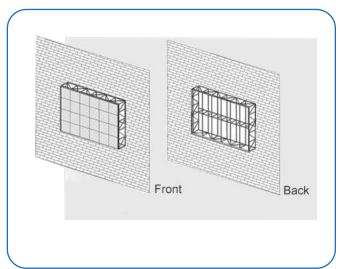
size: 3.840mm

































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TN FIX SERIES OTHER MODELS

OUTDOOR SERIES

TN-OF 5 TN-OF-5 PRO TN-OF-5 PLUS





02-03 • Series and Features

04-05 • Product Details

06-07 o Product Size - Photo

08-09 • Cabinet Detail - Safety

10-11 o Installation Guides

o Accessories - Company Info



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



TN-OF-5

- · Standart Refresh Rate: 1920Hz
- · A Class Led Chip
- · High Quality PCB
- · High Quality MASK
- · Rotation 90 Degree

TN-OF-5 PRO

- · High Refresh Rate: 3840Hz
- · A Class Led Chip
- · High Quality PCB
- · High Quality MASK
- · Rotation 90 Degree

TN-OF-5 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









Features

- *** Back Service
- *** Light Weight
- *** Magnesium Die-Casting
- *** 4 in 1 Case weight with products: 129kg.
- *** Faster Cooling
- *** Advenced and safety Lock
- *** Nova Star Controller
- *** Black Shell



O TECHNICAL SPECIFICATION

	1	
MODEL NAME	TN-OF 5	TN-OF 5 PRO
Features	g. 1	_
Series	Standart	Pro
Panel installation type	Fix Instalation	Fix Instalation
Operating Environment	Outdoor	Outdoor
Pixel Pitch	5mm	5mm
Brightness Refresh Rate	>6000 Nits >1920Hz	>6300 Nits >3840Hz
Weight / m2	27,5	27,5
Material Brands	21,3	21,3
Lamp	Class A	Class A
Entegred	Chipone	Chipone
Powersupply	Meanwell	Meanwell
Controller	Novastar	Novastar
Connectors : Seetronic	Seetronic	Seetronic
Module Specifications		
Pixel Configuration	SMD 1921	SMD 1921
LED Chip	Cooper	Cooper
LED	Black Shell	Black Shell
Module Size (mm)	320x160	320x160
Module Resolution	64 x 64	64 x 64
Processing	>14-16 Bit	>14-16 Bit
PCB Quality	High Quality	Best Quality
Module - Mask Quality	High Quality	Best Quality
Picture / Video Quality	Standart	High Quality
Grey Scale	>65536	>65536
Cabinet Specifications		
Module Per Cabinet	18 MODULE	18 MODULE
Cabinet Size (mm)	960 x 960 x 105	960 x 960 x 105
Cabinet Material	Die-Casting Magnesium	Die-Casting Magnesium
Weight Per Panel Net kg.	25	25
Cabinet Resolution	192 x 192	192 x 192
Pixel Density / Cabinet	36864	36864
IP Rating	Back IP54 / Front IP67	Back IP54 / Front IP67
Others Specifications	0.4"	DIVA
Driving IC Type Refrate Quality 2	Ordinary Standart Quality	PWM High Refresh
No Waterless Ripple of Camera	>%50	>%75
Driving Method " Scan "	1/8	1/8
Resolution/SQM	200 x 200	200 x 200
Pixel Density / m2	40000	40000
White Color Calibration (Adj.)	3.500K~8.500K	3.500K~8.500K
Horizontal Viewing Angle	140 (±30)	140 (±30)
Vertical Viewing Angle	140 (±30)	140 (±30)
Low Latency	!	!
HDR	!	!
Mapping	!	!
Rotation per 90 Degree	!	!
Free Rotation (with R5)	!	!
Clear View	!	!
Refresh Quality	Standart Quality	High Quality
High Refresh (PLL inside)	-	-
High Refresh Power Saving	-	п
High Refresh Dynamic Power Saving	-	-
Expected LED Lifetime %50	>100,000 Hours	>100,000 Hours
Operating Temperature Range	-15 - +45 (±10)	-15 - +45 (±10)
Operating Humidity Range	-40# \$ +60# ,10%-90%RH	-40# \$ +60# ,10%-90%RH
Power on Time (<w sqm)<="" td=""><td>900</td><td>900</td></w>	900	900
Power Consumption (<w sqm)<="" td=""><td>750</td><td>750</td></w>	750	750
Average Power Consumption (<w sqm)<="" td=""><td>300</td><td>300</td></w>	300	300
Voltage Range	47 ~ 63Hz / 110 ~ 240 VAC	47 ~ 63Hz / 110 ~ 240 VAC
Version Dealing include	REV22	REV22
Packing include	Plate-Power-Cat5 Cable	Plate-Power-Cat5 Cable
Usage Area	Auditorium, Concert Area , Advertisement, Shopping Center, Scoreboard & Totem	Auditorium, Concert Area , Advertisement, Shopping Center, Scoreboard & Totem
Certificate	CE/EMC/LVD-ATR-EUR1 ISO-9001:2015 ISO-14001:2015	CE/EMC/LVD-ATR-EURI ISO-9001:2015 ISO-14001:2015



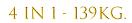
size:960mm

size: 105mm



size:960mm

25KG.



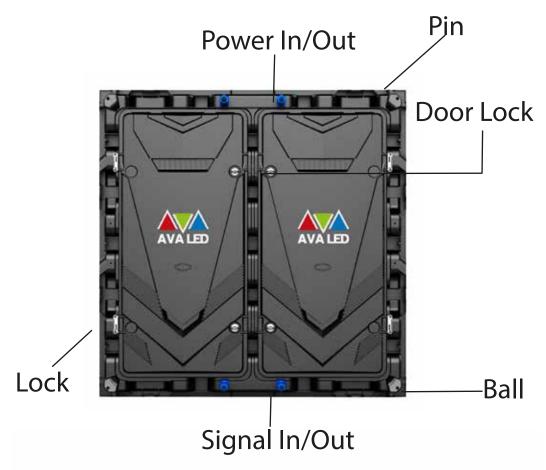


QALITY IN DETAIL

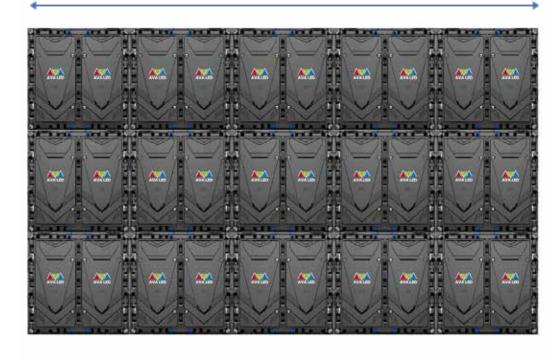








size: 4.800mm



size: 2.880mm

















size: 2.880mm

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.

Ground stability

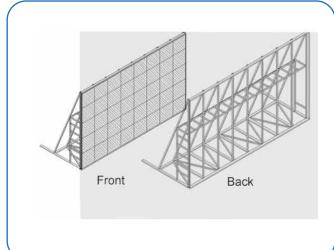
Front clearances: For making sure there is sufficient free area in front of the LED display screen and respect the maximum viewing angles and distance. Local regulations regarding such installation.

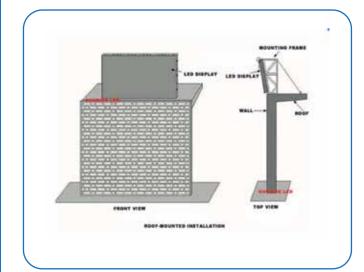


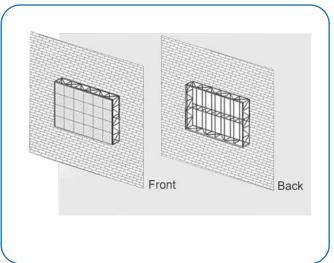
size: 3.840mm

































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TN-OF-6 Data Sheet



TN FIX SERIES OTHER MODELS

OUTDOOR SERIES

TN-OF 6 TN-OF-6 PRO TN-OF-6 PLUS





02-03 • Series and Features

04-05 • Product Details

06-07 o Product Size - Photo

08-09 • Cabinet Detail - Safety

10-11 o Installation Guides

o Accessories - Company Info



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



TN-OF-6

- Standart Refresh Rate: 1920Hz
- · C Class Led Chip
- · Standart PCB Quality
- · High Quality MASK
- · Rotation 90 Degree

TN-OF-6 PRO

- High Refresh Rate: 3840Hz
- · B Class Led Chip
- · High Quality PCB
- · High Quality MASK
- · Rotation 90 Degree

TN-OF-6 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









Features

- *** Back Services
- *** Light Weight
- *** Magnesium Die-Casting
- *** 4 in 1 Case weight with products: 129kg.
- *** Faster Cooling
- *** Advenced and safety Lock
- *** Nova Star Controller
- *** Black Shell

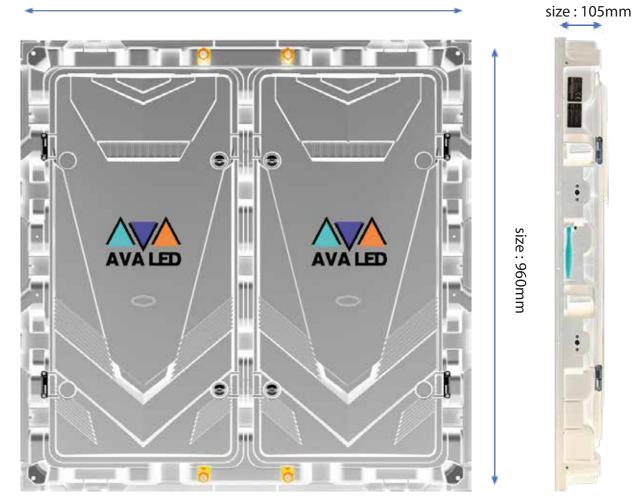


O TECHNICAL SPECIFICATION

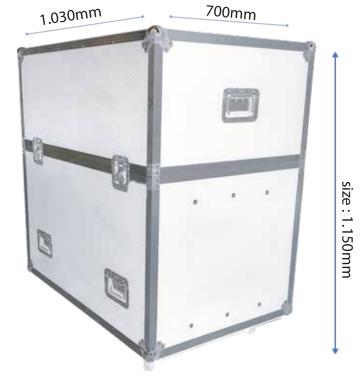
MODEL WILLE			
MODEL NAME	TN-OF 6	TN-OF 6 PRO	TN-OF 6 PLUS
Version			
Pixel Pitch	6,666mm	6,666mm	6,666mm
Pixel Configuration	SMD 2727	SMD 2727	SMD 2727
LED	Black Shell	Black Shell	Black Shell
Processing	16 Bit	16 Bit	10 D'4
Processing	22500	22500	18 Bit
Pixel Density / m2	22500	22500	22500
Resolution/SQM	150 x 150	150 x 150	
Cabinet Resolution 960 x 960	144 x 144	144 x 144	
Pixel Density / Cabinet	20736	20736	220 100
Module Size (mm)	320x160	320x160	320x160
Cabinet Size (mm)	960 x 960 x 105	960 x 960 x 105	960 x 960 x 105
Module Per Cabinet	18 MODULE	18 MODULE	18 MODULE
Module Resolution	48 x 24	48 x 24	48 x 24
Weight Per Panel Net kg. 960x950mm	25kg.	25kg.	25kg.
Rotation per 90 Degree	0	0	/
Free Rotation (with R5)	0	0	√
Mapping	0	0	√
Clear View	0	0	√
Low Latency	0	0	√
HDR	0	0	✓
Power Consumption (<w sqm)<="" td=""><td>760</td><td>760</td><td>760</td></w>	760	760	760
Average Power Consumption (<w sqm)<="" td=""><td>304</td><td>304</td><td>304</td></w>	304	304	304
Driving Method	1/6		
Brightness	>6000 Nits	>6300 Nits	>6500 Nits
Refresh Rate	>1920Hz	-	-
Refresh Rate High Refresh	-	>3840Hz	>3840Hz
Refresh Quality	Standart Quality	High Quality	Best Quality
High Refresh (PLL inside)	-	-	√
High Refresh Power Saving	-	✓	√
High Refresh Dynamic Power Saving	-	-	✓
Driving IC Type	Ordinary	PWM	
Refrate Quality 2	Standart Quality	High Refresh	4K Refresh Rate
No Waterless Ripple of Camera	>%50	>%75	>%90
Cabinet Material	Die-Casting Magnesium	Die-Casting Magnesium	Die-Casting Magnesium
Horizontal Viewing Angle	140 (±30)	140 (±30)	140 (±30)
Vertical Viewing Angle	140 (±30)	140 (±30)	140 (±30)
Expected LED Lifetime %50	100,000 Hours	100,000 Hours	100,000 Hours
IP Rating	Back IP54 / Front IP65	Back IP54 / Front IP65	Back IP54 / Front IP65
PCB Quality	High Quality	Best Quality	Best Quality
Module - Mask Quality	High Quality	Best Quality	Best Quality
LED Chip	Class C	Class B	Class A
Picture / Video Quality	Standart	High Quality	Best Quality
Grey Scale	65536	65536	262144
Control Systems	Nova Star	Nova Star	Nova Star
Operating Temperature Range	-20 - +60 (±10)	-20 - +60 (±10)	-20 - +60 (±10)
Operating Humidity Range	-40℃~+60℃,10%-90%RH	-40°C~+60°C,10%-90%RH	,
Voltage Range	200 ∼240VAC	200 ∼240VAC	200 ∼240VAC
Packing include	Plate-Power-Cat5 Cable	Plate-Power-Cat5 Cable	Plate-Power-Cat5 Cable
	CE/EMC/LVD-ATR-EUR1	CE/EMC/LVD-ATR-EUR1	CE/EMC/LVD-ATR-EUR1
	ISO-9001:2015	ISO-9001:2015	ISO-9001:2015
Certificate	ISO-14001:2015	ISO-14001:2015	ISO-14001:2015



size: 960mm



25KG.



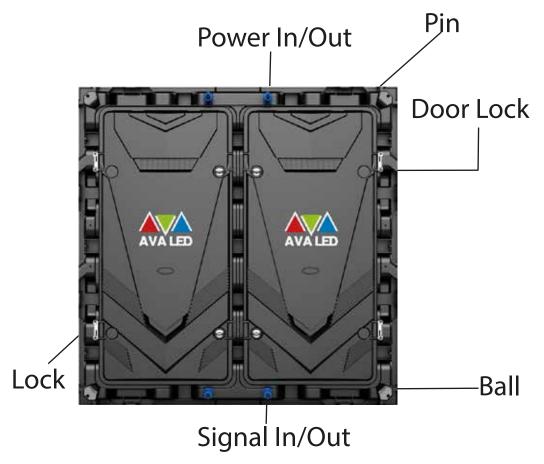
QALITY IN DETAIL

4 IN 1 - 139KG.

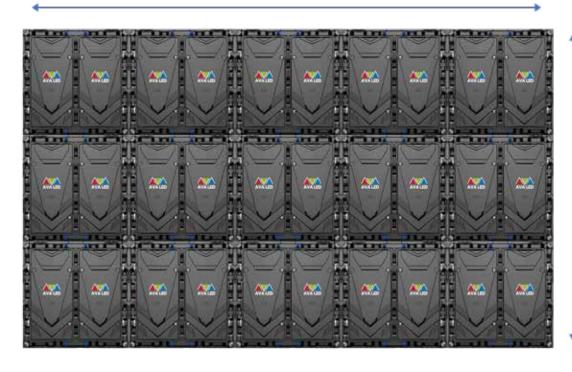








size: 4.800mm



size : 2.880mm

















size: 2.880mm

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.

Ground stability

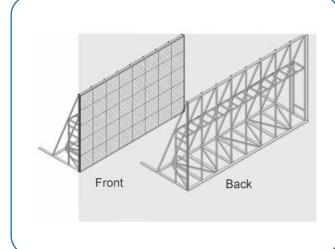
Front clearances: For making sure there is sufficient free area in front of the LED display screen and respect the maximum viewing angles and distance. Local regulations regarding such installation.

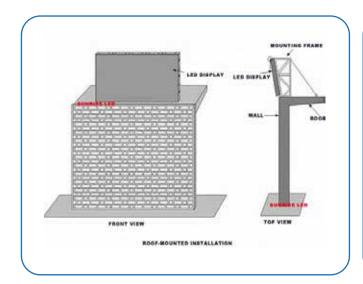


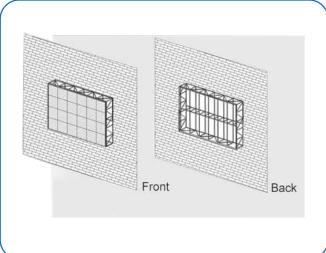
size: 3.840mm

































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Data Sheet

TN FIX SERIES OTHER MODELS

OUTDOOR SERIES

TN-OF 8 TN-OF-8 PRO TN-OF-8 PLUS





02-03 • Series and Features

04-05 • Product Details

06-07 o Product Size - Photo

08-09 • Cabinet Detail - Safety

10-11 o Installation Guides

o Accessories - Company Info



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



TN-OF-8

- · Standart Refresh Rate: 1920Hz
- · A Class Led Chip
- · Standart PCB Quality
- · High Quality MASK
- · Rotation 90 Degree

TN-OF-8 PRO

- · Standart Refresh Rate: 1920Hz
- · A Class Led Chip
- · High Quality PCB
- · High Quality MASK
- · Rotation 90 Degree









Features

- *** Back Service
- *** Light Weight
- *** Magnesium Die-Casting
- *** 4 in 1 Case weight with products: 129kg.
- *** Faster Cooling
- *** Advenced and safety Lock
- *** Nova Star Controller
- *** Balck Shell



O TECHNICAL SPECIFICATION

MODEL NAME	TN-OF 8	TN-OF 8 PRO	
Features	IN-OF 8	IN-OF 8 PRO	
Series	Standart	Pro	
Panel installation type	Fix Instalation	Fix Instalation	
Operating Environment	Outdoor	Outdoor	
Pixel Pitch	8mm	8mm	
Brightness	>6200 Nits	>6500 Nits	
Refresh Rate	>1920Hz	>1920Hz	
Weight / m2	27,5	27,5	
Material Brands	Clara A	Class A	
Lamp Entegred	Class A Chipone	Class A Chipone	
Powersupply	Meanwell	Meanwell	
Controller	Novastar	Novastar	
Connectors : Seetronic	Seetronic	Seetronic	
Module Specifications			
Pixel Configuration	SMD 3535	SMD 3535	
LED Chip	Cooper	Cooper	
LED	Black Shell	Black Shell	
Module Size (mm)	320x160	320x160	
Module Resolution	40 x 20	40 x 20	
Processing	>14-16 Bit	>14-16 Bit	
PCB Quality Module - Mask Quality	High Quality High Quality	Best Quality Best Quality	
` '	Standart	High Quality	
Picture / Video Quality Grev Scale	>65536	>65536	
Cabinet Specifications	. 0000		
Module Per Cabinet	18 MODULE	18 MODULE	
Cabinet Size (mm)	960 x 960 x 105	960 x 960 x 105	
Cabinet Material	Die-Casting Magnesium	Die-Casting Magnesium	
Weight Per Panel Net kg.	25	25	
Cabinet Resolution	120 x 120	120 x 120	
Pixel Density / Cabinet	14400	14400	
IP Rating	Back IP54 / Front IP67	Back IP54 / Front IP67	
Others Specifications	0.11		
Driving IC Type	Ordinary	High Defeate	
Refrate Quality 2 No Waterless Ripple of Camera	Standart Quality >%50	High Refresh >%75	
Driving Method " Scan "	1/5	1/5	
Resolution/SQM	125 x 125	125 x 125	
Pixel Density / m2	15625	15625	
White Color Calibration (Adj.)	3.500K~8.500K	3.500K~8.500K	
Horizontal Viewing Angle	140 (±30)	140 (±30)	
Vertical Viewing Angle	140 (±30)	140 (±30)	
Low Latency	!	!	
HDR	!	!	
Mapping	!	!	
Rotation per 90 Degree	!	!	
Free Rotation (with R5) Clear View	!	!	
Refresh Quality	: Standart Quality	High Quality	
High Refresh (PLL inside)	-	-	
High Refresh Power Saving	-	"	
High Refresh Dynamic Power Saving	-	-	
Expected LED Lifetime %50	>100,000 Hours	>100,000 Hours	
Operating Temperature Range	-15 - +45 (±10)	-15 - +45 (±10)	
Operating Humidity Range	-40# \$ +60# ,10%-90%RH	-40# \$ +60# ,10%-90%RH	
Power on Time (<w sqm)<="" td=""><td>900</td><td>900</td></w>	900	900	
Power Consumption (<w sqm)<="" td=""><td>750</td><td>750</td></w>	750	750	
Average Power Consumption (<w sqm)<="" td=""><td>300</td><td>300</td></w>	300	300	
Voltage Range	47 ~ 63Hz / 110 ~ 240 VAC	47 ~ 63Hz / 110 ~ 240 VAC	
Version Packing include	REV22 Plate-Power-Cat5 Cable	REV22 Plate-Power-Cat5 Cable	
1 acting include	Auditorium, Concert Area ,	Auditorium, Concert Area ,	
Usage Area	Additorium, Concert Area, Advertisement, Shopping Center, Scoreboard & Totem	Advertisement, Shopping Center, Scoreboard & Totem	
Certificate	CE/EMC/LVD-ATR-EURI ISO-9001:2015 ISO-14001:2015	CE/EMC/LVD-ATR-EURI ISO-9001:2015 ISO-14001:2015	

Ava Group GMBH reserves the right to change any product specification, discontinue of any product or services without prior notice



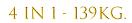
size:960mm

size: 105mm



size:960mm

25KG.





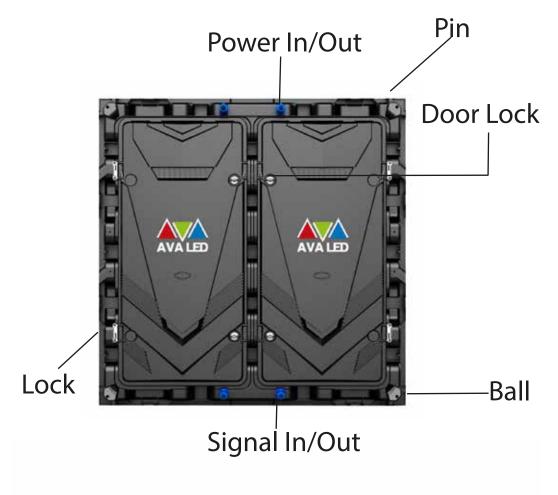
QALITY IN DETAIL



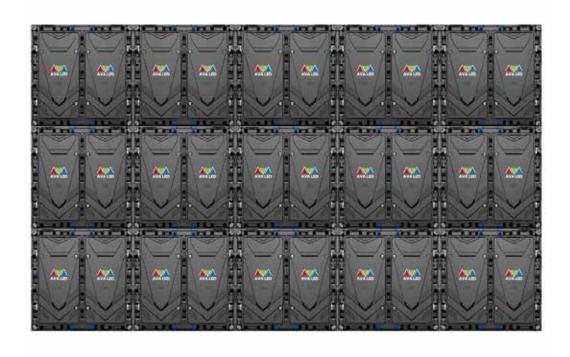




size: 2.880mm



size: 4.800mm





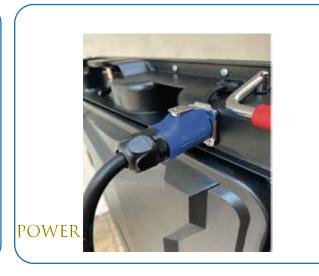














size: 2.880mm

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.

Ground stability

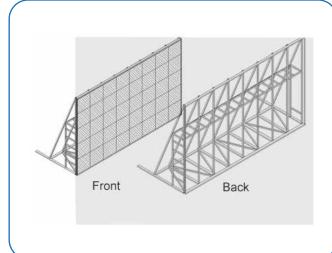
Front clearances: For making sure there is sufficient free area in front of the LED display screen and respect the maximum viewing angles and distance. Local regulations regarding such installation.

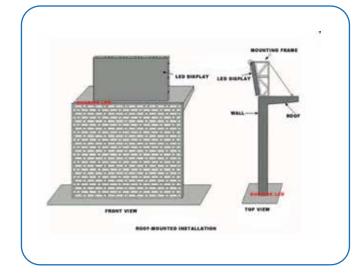


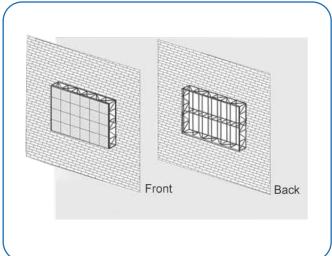
size: 3.840mm































TN-OF-10 Data Sheet

TN FIX SERIES OTHER MODELS

OUTDOOR SERIES

TN-OF 10 TN-OF-10 PRO TN-OF-10 PLUS





02-03 • Series and Features

04-05 • Product Details

06-07 o Product Size - Photo

08-09 • Cabinet Detail - Safety

10-11 o Installation Guides

o Accessories - Company Info



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



TN-OF-10

- · Standart Refresh Rate: 1920Hz
- · A Class Led Chip
- · High Quality PCB
- · High Quality MASK
- · Rotation 90 Degree

TN-OF-10 PRO

- · High Refresh Rate: 3840Hz
- · A Class Led Chip
- · High Quality PCB
- · High Quality MASK
- · Rotation 90 Degree

TN-OF-10"P10"PLUS

- Standart Refresh Rate: 3840Hz
- · A Class Led Chip
- · High Quality PCB
- · High Quality MASK
- Rotation 90 Degree









Features

- *** Back Service
- *** Light Weight
- *** Magnesium Die-Casting
- *** 4 in 1 Case weight with products: 129kg.
- *** Faster Cooling
- *** Advenced and safety Lock
- *** Nova Star Controller
- *** Balck Shell



Service	MODEL NAME	TN-OF-10	TN-OF-10 PRO	TN-OF 10 Plus
Pace Facilitation type Fix fondation	Features			
Outdoor Outd	Series	Standart	Pro	Plus
Price	Panel installation type			
Principations 2-500 Nits 2-700 Nits	Operating Environment			
Selection Sele	Pixel Pitch			
Weight mar	Brightness			
Marerial Branch Class A Class				
Class A Class C Clas	0	27,5	27,5	27,5
Entegred Chipone Chipone Chipone Chipone Chipone Chipone Meanwell Mean		Clare A	Clare A	Cl A
Power-upply	*		2	
Sourceton Sectronic Sect	_	•		•
Sourcoin Sourcoin			***	*** ***
Module Specifications				
Pixel Configuration		Sections	Sections	Sections
LED Chip	•	SMD 3535	SMD 3535	SMD 3535
Black Shell 320x166 320x167 320x166 320x167 32	LED Chip			
Module Resolution 32 x 16 32 x	LED	•	_	•
Processing	Module Size (mm)			
Rest Quality Rest	Module Resolution	32 x 16	32 x 16	32 x 16
Best Quality Best	Processing	>14-16 Bit	>14-16 Bit	>16-18 Bit
	PCB Quality	Best Quality	Best Quality	Best Quality
Grey Scale	Module - Mask Quality	Best Quality	Best Quality	Best Quality
Cabinet Specifications	Picture / Video Quality	,,,	Ü - •	
Module Per Cabinet	Grey Scale	>65536	>65536	>262144
Cabinet Size (mm) 960 x 960 x 105 960 x 960 x 105 DieCasting Magnesium DieCasting	*			
Die-Casting Magnesium Die-				
Weight Per Panel Net kg. 2.5 2	()			
Pixel Density / Cabinet 96 x 96 96 x 96 921				<u> </u>
Pixel Density / Cabinet 9216 9216 9216 9216 P Rating Back IP\$4 / Front IP67 Back IP\$4 / Front IP67 Density Delvers Specifications Delving IC Type -	- U			
PRating Back IP\$4 / Front IP67 Back IP\$5 / Front IP67				
Others Specifications	•			
Driving IC Type		Back IF 34 / Front IF 0 /	Back IF 54 / Front IF 0 /	Back IF 54 / FTOIL IF 0 /
Refrate Quality 2				DWM
No Wateriest Ripple of Camera >9%50 >9%75 >9%90	<u> </u>			
Driving Method "Scan"				
Resolution/SQM	• •			
Pixel Density / m2	Resolution/SOM			
Horizontal Viewing Angle	Pixel Density / m2		10000	10000
Vertical Viewing Angle	White Color Calibration (Adj.)	3.500K~8.500K	3.500K~8.500K	3.500K~8.500K
Low Latency	Horizontal Viewing Angle	140 (±30)	140 (±30)	140 (±30)
Mapping	Vertical Viewing Angle	140 (±30)	140 (±30)	140 (±30)
Apping	Low Latency	Optional	Optional	!
Rotation per 90 Degree	HDR	Optional	Optional	!
Clear View	Mapping	•	•	!
Clear View	Rotation per 90 Degree		•	!
High Quality	Free Rotation (with R5)		•	!
High Refresh (PLL inside)			•	P (2 W)
	- '		U - V	Best Quality
Expected LED Lifetime %50				!
Sepected LED Lifetime %50			!	!
Departing Temperature Range			>100 000 Hours	>100 000 Hours
Departing Humidity Range	•	•	·	
Power on Time (<w 900="" sqm)="" td="" ="" <=""><td></td><td></td><td>` /</td><td>\ /</td></w>			` /	\ /
Power Consumption (<w (<="" (<w="" a="" average="" consumption="" power="" sqm)=""> Average Power Consumption (Barbara Aver 63Hz / 110 ~ 240 VAC Ave</w>		· ·	•	·
Average Power Consumption (<w 110="" 240="" 2<="" 320="" 47="" 63hz="" sqm)="" td="" vac="" ~=""><td>Power Consumption (<w sqm)<="" td=""><td></td><td></td><td></td></w></td></w>	Power Consumption (<w sqm)<="" td=""><td></td><td></td><td></td></w>			
Voltage Range 47 ~ 63Hz / 110 ~ 240 VAC 47 ~ 63Hz / 110 ~ 240 VAC 47 ~ 63Hz / 110 ~ 240 VAC Version REV22 REV22 REV22 Packing include Plate-Power-Cat5 Cable Plate-Power-Cat5 Cable Plate-Power-Cat5 Cable Auditorium, Concert Area , Advertisement, Shopping Center, Scoreboard & Totem CE/EMC/LVD-ATR-EUR1 Certificate ISO-9001:2015 ISO-9001:2015 ISO-9001:2015	Average Power Consumption (<w sqm)<="" td=""><td></td><td></td><td></td></w>			
Packing include Plate-Power-Cat5 Cable Auditorium, Concert Area , Advertisement, Shopping Center, Scoreboard & Totem CE/EMC/LVD-ATR-EUR1 Certificate Plate-Power-Cat5 Cable Auditorium, Concert Area , Advertisement, Shopping Center, Scoreboard & Totem CE/EMC/LVD-ATR-EUR1 CE/EMC/LVD-ATR-EUR1 ISO-9001:2015 ISO-9001:2015	Voltage Range	47 ~ 63Hz / 110 ~ 240 VAC	47 ~ 63Hz / 110 ~ 240 VAC	47 ~ 63Hz / 110 ~ 240 VAC
Auditorium, Concert Area , Auditorium, Concert Area , Advertisement, Shopping Center, Scoreboard & Totem CE/EMC/LVD-ATR-EUR1 ISO-9001:2015 Auditorium, Concert Area , Advertisement, Shopping Center, Scoreboard & Totem CE/EMC/LVD-ATR-EUR1 CE/EMC/LVD-ATR-EUR1 ISO-9001:2015 Advertisement, Shopping Center, Scoreboard & Totem CE/EMC/LVD-ATR-EUR1 CE/EMC/LVD-ATR-EUR1 ISO-9001:2015 ISO-9001:2015	Version	REV22	REV22	REV22
Usage Area Advertisement, Shopping Center, Scoreboard & Totem CE/EMC/LVD-ATR-EUR1 Certificate Advertisement, Shopping Center, Scoreboard & Totem CE/EMC/LVD-ATR-EUR1 CE/EMC/LVD-ATR-EUR1 ISO-9001:2015 Advertisement, Shopping Center, Scoreboard & Totem CE/EMC/LVD-ATR-EUR1 CE/EMC/LVD-ATR-EUR1 ISO-9001:2015 ISO-9001:2015	Packing include	Plate-Power-Cat5 Cable	Plate-Power-Cat5 Cable	Plate-Power-Cat5 Cable
Scoreboard & Totem Scoreboard & Totem Scoreboard & Totem CE/EMC/LVD-ATR-EUR1 CE/EMC/LVD-ATR-EUR1 CE/EMC/LVD-ATR-EUR1 Certificate ISO-9001:2015 ISO-9001:2015		Auditorium, Concert Area ,		
CE/EMC/LVD-ATR-EUR1 CE/EMC/LVD-ATR-EUR1 CE/EMC/LVD-ATR-EUR1 Certificate ISO-9001:2015 ISO-9001:2015 ISO-9001:2015	Usage Area			Advertisement, Shopping Center,
Certificate ISO-9001:2015 ISO-9001:2015 ISO-9001:2015		Scoreboard & Totem	Scoreboard & Totem	Scoreboard & Totem
	Certificate			
180 17001.7015 180 17001.7015 180 17001.7015		ISO-9001:2015 ISO-14001:2015	ISO-9001:2015 ISO-14001:2015	ISO-9001:2015 ISO-14001:2015



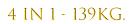
size:960mm

size: 105mm



size:960mm

25KG.

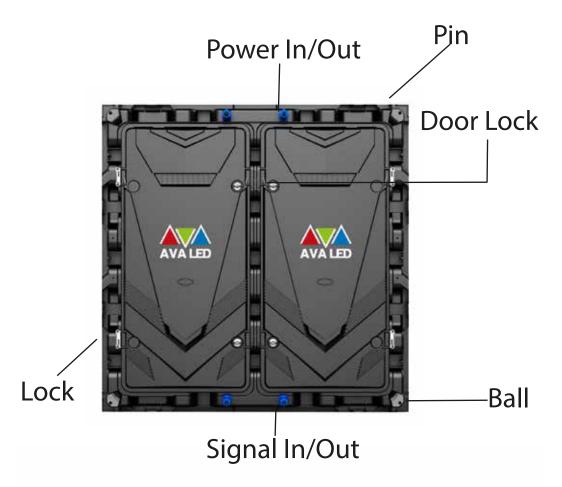




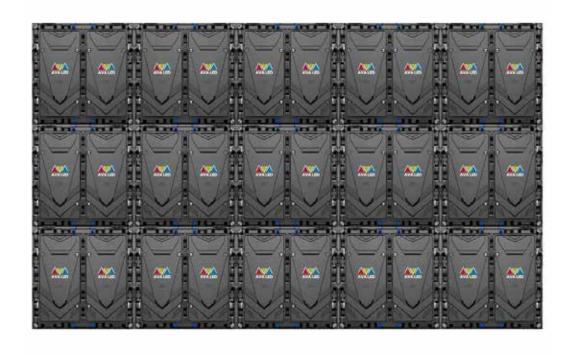
QALITY IN DETAIL







size: 4.800mm



size : 2.880mm

















size: 2.880mm

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.

Ground stability

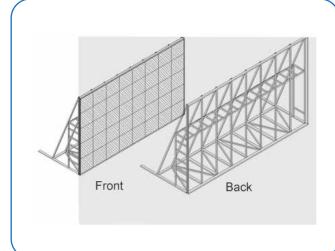
Front clearances: For making sure there is sufficient free area in front of the LED display screen and respect the maximum viewing angles and distance. Local regulations regarding such installation.

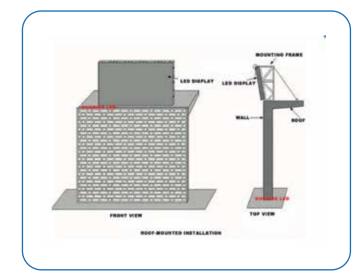


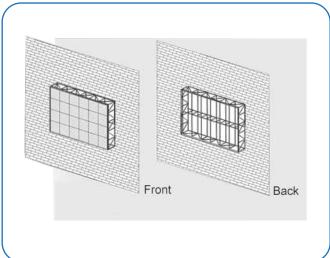
size: 3.840mm































TN-PRO-IF-1
P1,86
Data Sheet



TN-PRO-IF-1 "P1,86"





```
02-04 o Features
```

o Technical Specification

06-08 • Cabinet Size - Photo

09-10 • Safety - Instalation

11 - 12 • Vision

o Company Info



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



TN-PRO-IF-2"P2,5"

- · High Refresh Rate: 3840Hz
- · A Class Led Chip
- · High Quality PCB
- · High Quality MASK
- · Rotation 90 Degree





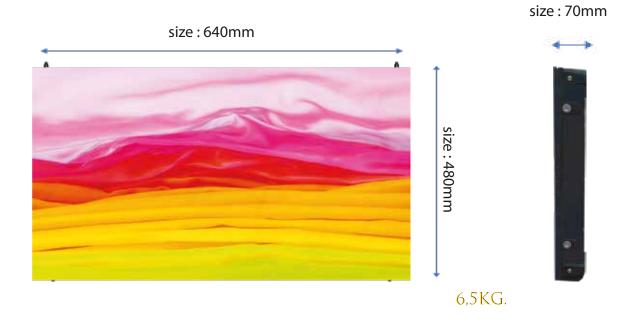
Features

- *** FRONT SERVICE
- *** Light Weight
- *** Magnesium Die-Casting
- *** 3 in 1 Case weight with products: 129kg.
- *** Faster Cooling
- *** Advenced and safety Lock
- *** Nova Star Controller
- *** SPACE BLACK



MODEL NAME	TN-PRO-IF-1 "P1,86"	
Features	:	
Series	Pro	
Panel installation type	Fix Instalation	
Operating Environment	Indoor	
Pixel Pitch	1,86mm	
Brightness	>800 Nits	
Refresh Rate	>3840Hz	
Weight / m2	<21	
Material Brands	Class A	
Lamp Entegred	Chipone	
Powersupply	Meanwell	
Controller	Novastar	
Connectors : Seetronic	Seetronic	
Module Specifications	:	
Pixel Configuration	SMD 1515	
LED Chip	Cooper	
LED	Space Black	
Module Size (mm)	320mm x 160mm	
Module Resolution	172 x 86	
Processing	>14-16 Bit	
PCB Quality	Best Qality	
Module - Mask Quality	Normal Mask	
Picture / Video Quality	Best Quality	
Grey Scale	>65536	
Cabinet Specifications	:	
Module Per Cabinet	6 MODULE	
Cabinet Size (mm)	640 x 480 x 70	
Cabinet Material	Die-Casting Aliminum	
Weight Per Panel Net kg.	6,5	
Cabinet Resolution	344 x 258	
Pixel Density / Cabinet	88753	
IP Rating	IP40	
Others Specifications	;	
Driving IC Type	PWM	
Refrate Quality 2	Highend Refresh Rate	
No Waterless Ripple of Camera Driving Method '' Scan ''	>%75 1/29	
Resolution/SQM	538 x 538	
Pixel Density / m2	289444	
White Color Calibration (Adj.)	3.500K~8.500K	
Horizontal Viewing Angle	140 (±30)	
Vertical Viewing Angle	140 (±30)	
Low Latency	No	
HDR	No	
Mapping	Yes	
Rotation per 90 Degree	Yes	
Free Rotation (with R5)	Optional	
Clear View	Optional	
Refresh Quality	High Quality	
High Refresh (PLL inside)	-	
High Refresh Power Saving	Yes	
High Refresh Dynamic Power Saving	-	
Expected LED Lifetime %50	>100.000 Hours	
Operating Temperature Range	-15 - +45 (±10)	
Operating Humidity Range	-40! " +60! ,10%-90%RH	
Power on Time (<w sqm)<="" td=""><td>600</td></w>	600	
Power Consumption (<w sqm)<="" td=""><td>530</td></w>	530	
Average Power Consumption (<w sqm)<="" td=""><td colspan="2">159</td></w>	159	
Voltage Range	47 ~ 63Hz / 110 ~ 240 VAC	
Version Pasking include	REV22	
Packing include	Plate-Power-Cat5 Cable	
Usage Area	Studio, Confrence, Meeting Room & TV	
Certificate	CE/EMC/LVD-ATR-EUR1 ISO-9001:2015 ISO-14001:2015	

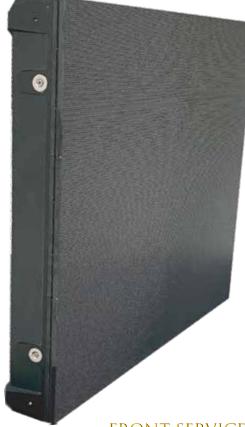










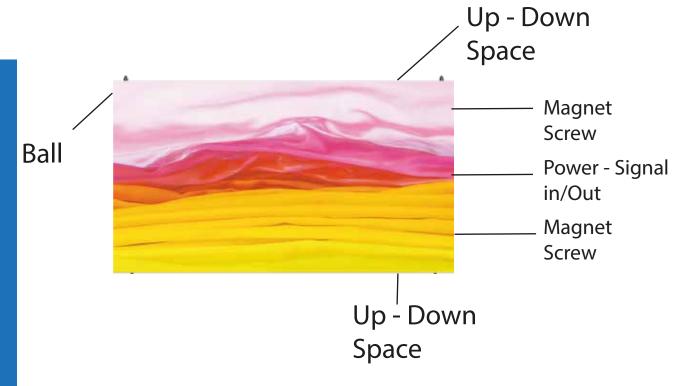












Ultra High Definition

It delivers a truly amazing picture with extraordinary pixels producing an image that is HD quality in an LED Screen.ipsum

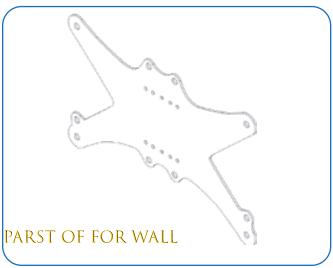


















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Environmental conditions: Humidity, wind, temperatures, rain, snow etc.

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.

HANGING



size: 3.840mm



ULTRA WIDE VIEWING ANGLE



Both 160° from horizontal & vertical for the viewing angle. Seeing from five directions, it would be still the natural and clear image in an LED display.

ULTRA FAST RESPONSE



Response speed



Perfect Rendering Dynamic Picture

Smear Ghosting Phenomenon

18 BIT GREY SCALE



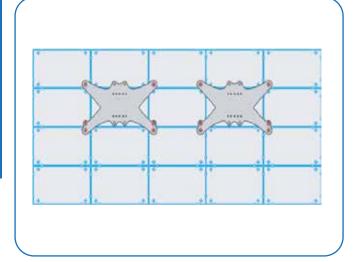
AVA LED



Others











TN-PRO-IF-2 Data Sheet



INDOOR FRONT SERVICE SERIES

TN-PRO-IF-2









02-04 o Features

o Technical Specification

06-08 • Cabinet Size - Photo

09-10 • Safety - Instalation

11 - 12 • Vision

o Company Info



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



TN-PRO-IF-2"P2,5"

- · High Refresh Rate: 3840Hz
- · A Class Led Chip
- · High Quality PCB
- · High Quality MASK
- · Rotation 90 Degree





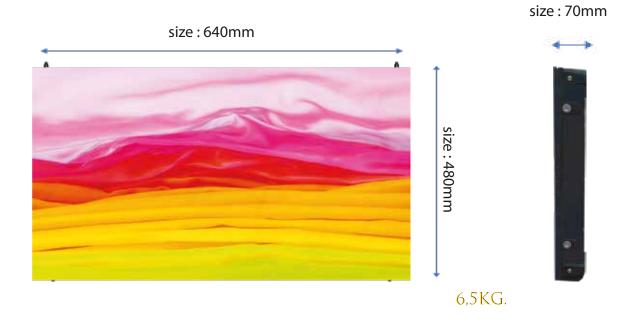
Features

- *** FRONT SERVICE
- *** Light Weight
- *** Magnesium Die-Casting
- *** 3 in 1 Case weight with products: 129kg.
- *** Faster Cooling
- *** Advenced and safety Lock
- *** Nova Star Controller
- *** SPACE BLACK



MODEL NAME	TN-PRO-IF-2	
Features	:	
Series	Pro	
Panel installation type	Fix Instalation	
Operating Environment	Indoor	
Pixel Pitch	2 mm	
Brightness	>800 Nits	
Refresh Rate Weight / m2	>3840Hz <21	
Material Brands	~21	
Lamp	Class A	
Entegred	Chipone	
Powersupply	Meanwell	
Controller	Novastar	
Connectors : Seetronic	Seetronic	
Module Specifications	: CMD 1515	
Pixel Configuration	SMD 1515	
LED Chip	Cooper Space Block	
Module Size (mm)	Space Black 320mm x 160mm	
Module Size (mm) Module Resolution	320mm x 160mm 160 x 80	
Processing	>14-16 Bit	
PCB Quality	Best Qality	
Module - Mask Quality	Normal Mask	
Picture / Video Quality	High Quality	
Grey Scale	>65536	
Cabinet Specifications	:	
Module Per Cabinet	6 MODULE	
Cabinet Size (mm)	640 x 480 x 70	
Cabinet Material	Die-Casting Aliminum	
Weight Per Panel Net kg. Cabinet Resolution	6,5 320 x 240	
Pixel Density / Cabinet	76800	
IP Rating	IP40	
Others Specifications	:	
Driving IC Type	PWM	
Refrate Quality 2	High Refresh	
No Waterless Ripple of Camera	>%75	
Driving Method " Scan "	1/40	
Resolution/SQM	500 x 500	
Pixel Density / m2 White Color Calibration (Adj.)	250000 3.500K~8.500K	
Horizontal Viewing Angle	3.500K~8.500K 140 (±30)	
Vertical Viewing Angle	140 (±30)	
Low Latency	No	
HDR	No	
Mapping	Yes	
Rotation per 90 Degree	Yes	
Free Rotation (with R5)	Optional	
Clear View	Optional	
Refresh Quality	High Quality	
High Refresh (PLL inside)	- Von	
High Refresh Power Saving High Refresh Dynamic Power Saving	Yes	
Expected LED Lifetime %50	>100.000 Hours	
Operating Temperature Range	-15 - +45 (±10)	
Operating Humidity Range	-40! " +60! ,10%-90%RH	
Power on Time (<w sqm)<="" td=""><td>600</td></w>	600	
Power Consumption (<w sqm)<="" td=""><td>450</td></w>	450	
Average Power Consumption (<w sqm)<="" td=""><td colspan="2">135</td></w>	135	
Voltage Range	47 ~ 63Hz / 110 ~ 240 VAC	
Version	REV22	
Packing include	Plate-Power-Cat5 Cable	
Usage Area	Studio, Confrence, Meeting Room & TV	
Certificate	CE/EMC/LVD-ATR-EUR1 ISO-9001:2015 ISO-14001:2015	

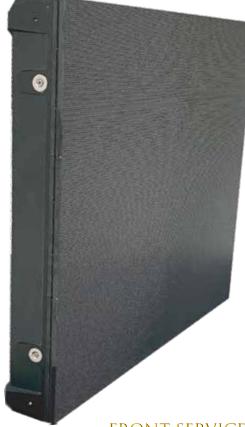










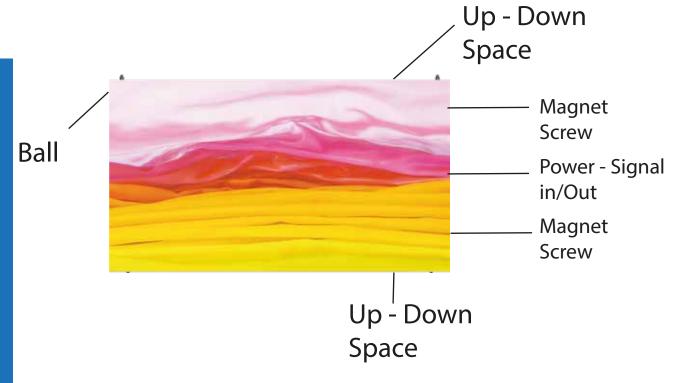












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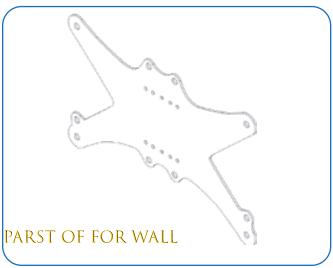


















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Environmental conditions: Humidity, wind, temperatures, rain, snow etc.

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.

HANGING



size: 3.840mm



ULTRA WIDE VIEWING ANGLE



Both 160° from horizontal & vertical for the viewing angle. Seeing from five directions, it would be still the natural and clear image in an LED display.

ULTRA FAST RESPONSE



Response speed



Perfect Rendering Dynamic Picture

Smear Ghosting Phenomenon

18 BIT GREY SCALE



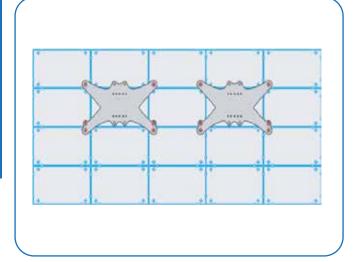
AVA LED



Others











TN-PRO-IF-2
P2,5
Data Sheet



TN-PRO-IF-2 "P2,5"







```
02-04 o Features
```

o Technical Specification

06-08 • Cabinet Size - Photo

09-10 • Safety - Instalation

11 - 12 • Vision

o Company Info



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



TN-PRO-IF-2"P2,5"

- · High Refresh Rate: 3840Hz
- · A Class Led Chip
- · High Quality PCB
- · High Quality MASK
- · Rotation 90 Degree





Features

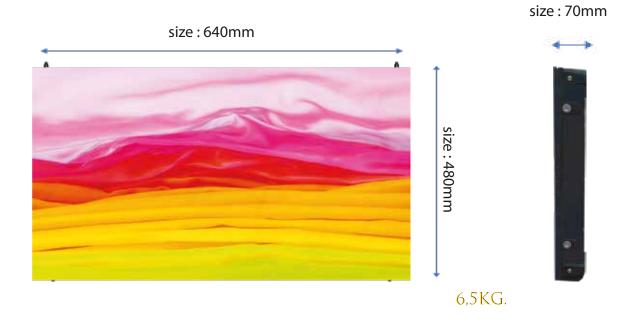
- *** FRONT SERVICE
- *** Light Weight
- *** Magnesium Die-Casting
- *** 3 in 1 Case weight with products: 129kg.
- *** Faster Cooling
- *** Advenced and safety Lock
- *** Nova Star Controller
- *** SPACE BLACK



MODEL NAME	TN-PRO-IF-2 "P2,5"
Features	:
Series	Pro
Panel installation type	Fix Instalation
Operating Environment Pixel Pitch	Indoor 2,5mm
Brightness	>1100 Nits
Refresh Rate	>1100 Nts
Weight / m2	<21
Material Brands	- 21
Lamp	Class A
Entegred	Chipone
Powersupply	Meanwell
Controller	Novastar
Connectors : Seetronic	Seetronic
Module Specifications	:
Pixel Configuration	SMD 2020
LED Chip	Cooper
LED	Space Black
Module Size (mm)	320mm x 160mm
Module Resolution	128 x 64
Processing	>14-16 Bit
PCB Quality	Best Qality
Module - Mask Quality	Normal Mask
Picture / Video Quality	High Quality
Grey Scale	>65536
Cabinet Specifications	:
Module Per Cabinet	6 MODULE
Cabinet Size (mm)	640 x 480 x 70
Cabinet Material Weight Per Panel Net kg.	Die-Casting Aliminum 6,5
Cabinet Resolution	256 x 192
Pixel Density / Cabinet	49152
IP Rating	IP40
Others Specifications	:
Driving IC Type	PWM
Refrate Quality 2	High Refresh
No Waterless Ripple of Camera	>%75
Driving Method " Scan "	1/32
Resolution/SQM	400 x 400
Pixel Density / m2	160000
White Color Calibration (Adj.)	3.500K~8.500K
Horizontal Viewing Angle	140 (±30)
Vertical Viewing Angle	140 (±30)
Low Latency	No
HDR	No
Mapping	Yes
Rotation per 90 Degree	Yes
Free Rotation (with R5)	Optional
Clear View	Optional
n	
Refresh Quality	High Quality
High Refresh (PLL inside)	-
High Refresh (PLL inside) High Refresh Power Saving	High Quality - Yes
High Refresh (PLL inside) High Refresh Power Saving High Refresh Dynamic Power Saving	Yes
High Refresh (PLL inside) High Refresh Power Saving High Refresh Dynamic Power Saving Expected LED Lifetime %50	Yes ->100.000 Hours
High Refresh (PLL inside) High Refresh Power Saving High Refresh Dynamic Power Saving Expected LED Lifetime %50 Operating Temperature Range	- Yes - >100.000 Hours -15 - +45 (±10)
High Refresh (PLL inside) High Refresh Power Saving High Refresh Dynamic Power Saving Expected LED Lifetime %50 Operating Temperature Range Operating Humidity Range	- Yes - >100.000 Hours -15 - +45 (±10) -40! " +60! ,10%-90%RH
High Refresh (PLL inside) High Refresh Power Saving High Refresh Dynamic Power Saving Expected LED Lifetime %50 Operating Temperature Range Operating Humidity Range Power on Time (<w sqm)<="" td=""><td>- Yes - >100.000 Hours -15 - +45 (±10) -401 " +60! ,10%-90%RH 600</td></w>	- Yes - >100.000 Hours -15 - +45 (±10) -401 " +60! ,10%-90%RH 600
High Refresh (PLL inside) High Refresh Power Saving High Refresh Dynamic Power Saving Expected LED Lifetime %50 Operating Temperature Range Operating Humidity Range Power on Time (<w (<w="" consumption="" power="" sqm)="" sqm)<="" td=""><td>- Yes - >100.000 Hours -15 - +45 (±10) -401 " +601 ,10%-90%RH 600 470</td></w>	- Yes - >100.000 Hours -15 - +45 (±10) -401 " +601 ,10%-90%RH 600 470
High Refresh (PLL inside) High Refresh Power Saving High Refresh Dynamic Power Saving Expected LED Lifetime %50 Operating Temperature Range Operating Humidity Range Power on Time (<w (<w="" average="" consumption="" power="" sqm)="" sqm)<="" td=""><td>- Yes</td></w>	- Yes
High Refresh (PLL inside) High Refresh Power Saving High Refresh Dynamic Power Saving Expected LED Lifetime %50 Operating Temperature Range Operating Humidity Range Power on Time (<w (<w="" average="" consumption="" power="" range<="" sqm)="" td="" voltage=""><td>- Yes</td></w>	- Yes
High Refresh (PLL inside) High Refresh Power Saving High Refresh Dynamic Power Saving Expected LED Lifetime %50 Operating Temperature Range Operating Humidity Range Power on Time (<w (<w="" average="" consumption="" power="" range="" sqm)="" td="" version<="" voltage=""><td>Yes </td></w>	Yes
High Refresh (PLL inside) High Refresh Power Saving High Refresh Dynamic Power Saving Expected LED Lifetime %50 Operating Temperature Range Operating Humidity Range Power on Time (<w (<w="" average="" consumption="" power="" range<="" sqm)="" td="" voltage=""><td>- Yes</td></w>	- Yes
High Refresh (PLL inside) High Refresh Power Saving High Refresh Dynamic Power Saving Expected LED Lifetime %50 Operating Temperature Range Operating Humidity Range Power on Time (<w (<w="" average="" consumption="" include<="" packing="" power="" range="" sqm)="" td="" version="" voltage=""><td>- Yes</td></w>	- Yes
High Refresh (PLL inside) High Refresh Power Saving High Refresh Dynamic Power Saving Expected LED Lifetime %50 Operating Temperature Range Operating Humidity Range Power on Time (<w (<w="" average="" consumption="" power="" range="" sqm)="" td="" version<="" voltage=""><td>- Yes - >100.000 Hours -15 - +45 (±10) -40! " +60! ,10%-90%RH 600 470 141 47 ~ 63Hz / 110 ~ 240 VAC REV22 Plate-Power-Cat5 Cable Studio, Advertisement, Auditorium</td></w>	- Yes - >100.000 Hours -15 - +45 (±10) -40! " +60! ,10%-90%RH 600 470 141 47 ~ 63Hz / 110 ~ 240 VAC REV22 Plate-Power-Cat5 Cable Studio, Advertisement, Auditorium

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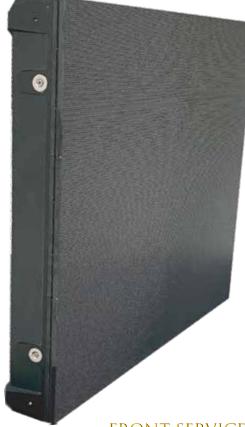










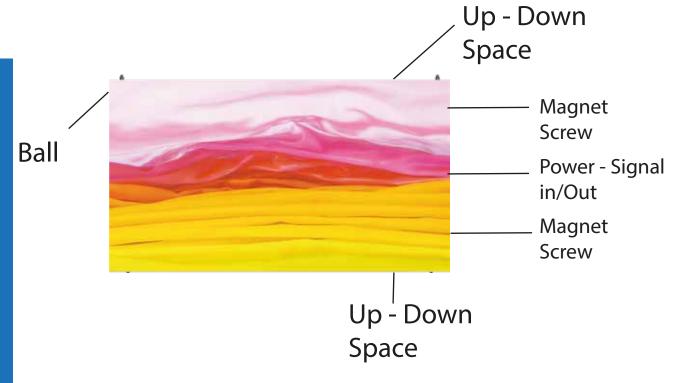












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It delivers a truly amazing picture with extraordinary pixels producing an image that is HD quality in an LED Screen.ipsum

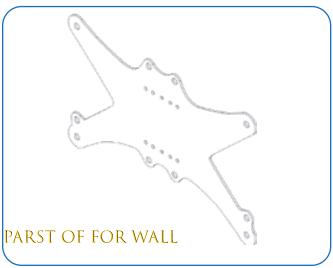


















The support structure has to be provided and installed by the customer because they very from project to project. The following issues must be considered:

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.

HANGING



size: 3.840mm



ULTRA WIDE VIEWING ANGLE



Both 160° from horizontal & vertical for the viewing angle. Seeing from five directions, it would be still the natural and clear image in an LED display.

ULTRA FAST RESPONSE



Response speed



Perfect Rendering Dynamic Picture

Smear Ghosting Phenomenon

18 BIT GREY SCALE



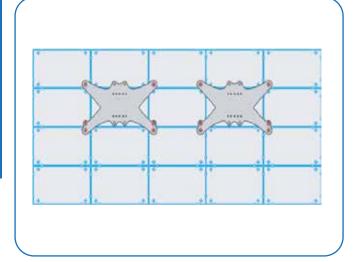
AVA LED



Others











TN-PRO-IF-3 Data Sheet



TN FIX SERIES OTHER MODELS

INDOOR FRONT SERVICE SERIES

TN-PRO-IF-3





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02-04 o Features
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o Technical Specification

06-08 • Cabinet Size - Photo

09-10 • Safety - Instalation

11 - 12 • Vision

o Company Info



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



TN-PRO-IF-3

- · High Refresh Rate: 3840Hz
- · A Class Led Chip
- · High Quality PCB
- · High Quality MASK
- · Rotation 90 Degree





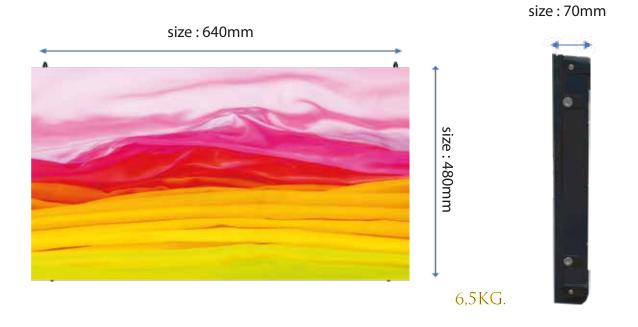
Features

- *** FRONT SERVICE
- *** Light Weight
- *** Magnesium Die-Casting
- *** 3 in 1 Case weight with products: 129kg.
- *** Faster Cooling
- *** Advenced and safety Lock
- *** Nova Star Controller
- *** SPACE BLACK



MODEL NAME	TN-PRO-IF-3
Features	:
Series	Pro
Panel installation type	Fix Instalation
Operating Environment	Indoor
Pixel Pitch	3,076mm
Brightness	>1100 Nits
Refresh Rate Weight / m2	>3840Hz <21
Material Brands	<21
Lamp	Class A
Entegred	Chipone
Powersupply	Meanwell
Controller	Novastar
Connectors : Seetronic	Seetronic
Module Specifications	:
Pixel Configuration	SMD 2020
LED Chip	Cooper
LED	Space Black
Module Size (mm)	320mm x 160mm
Module Resolution	128 x 64
Processing PCB Quality	>14-16 Bit
Module - Mask Quality	Best Qality Normal Mask
Picture / Video Quality	High Quality
Grey Scale	>65536
Cabinet Specifications	:
Module Per Cabinet	6 MODULE
Cabinet Size (mm)	640 x 480 x 70
Cabinet Material	Die-Casting Aliminum
Weight Per Panel Net kg.	6,5
Cabinet Resolution	208 x 156
Pixel Density / Cabinet	32448
IP Rating	IP40
Others Specifications	:
Driving IC Type	PWM
Refrate Quality 2 No Waterless Ripple of Camera	High Refresh >%75
Driving Method " Scan "	1/26
Resolution/SQM	325 x 325
Pixel Density / m2	105625
White Color Calibration (Adj.)	3.500K~8.500K
Horizontal Viewing Angle	140 (±30)
Vertical Viewing Angle	140 (±30)
Low Latency	No
HDR	No
Mapping	Yes
Rotation per 90 Degree	Yes
Free Rotation (with R5)	Optional
Clear View	Optional High Quality
Refresh Quality High Refresh (PLL inside)	High Quality
High Refresh Power Saving	Yes
High Refresh Dynamic Power Saving	-
Expected LED Lifetime %50	>100.000 Hours
Operating Temperature Range	-15 - +45 (±10)
Operating Humidity Range	-40! " +60! ,10%-90%RH
Power on Time (<w sqm)<="" td=""><td>600</td></w>	600
Power Consumption (<w sqm)<="" td=""><td>460</td></w>	460
Average Power Consumption (<w sqm)<="" td=""><td>138</td></w>	138
Voltage Range	47 ~ 63Hz / 110 ~ 240 VAC
Version Dealing include	REV22
Packing include	Plate-Power-Cat5 Cable
Usage Area	Studio, Advertisement, Auditorium, Conference & Concert Hall
Certificate	CE/EMC/LVD-ATR-EUR1 ISO-9001:2015 ISO-14001:2015



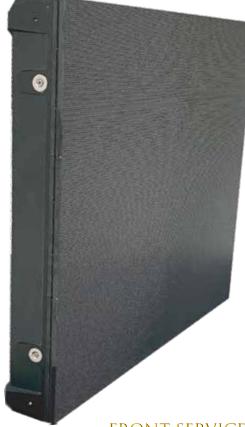




12 IN 1 129KG.





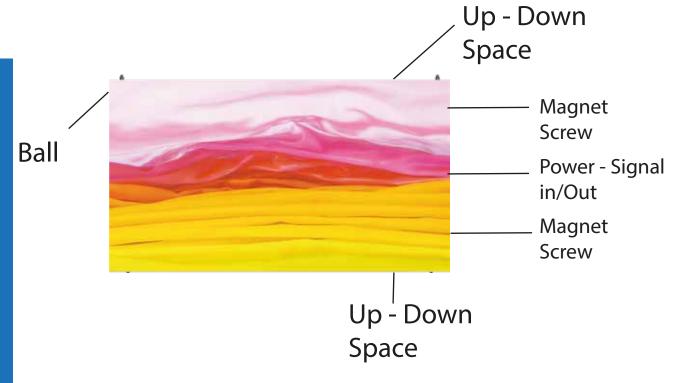












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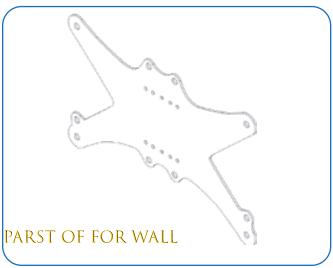


















The support structure has to be provided and installed by the customer because they very from project to project. The following issues must be considered:

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.

HANGING



size: 3.840mm



ULTRA WIDE VIEWING ANGLE



Both 160° from horizontal & vertical for the viewing angle. Seeing from five directions, it would be still the natural and clear image in an LED display.

ULTRA FAST RESPONSE



Response speed



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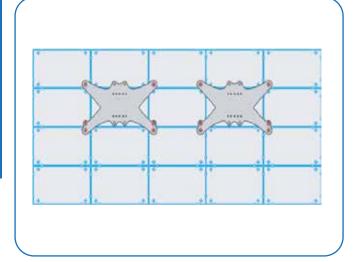
AVA LED



Others











TN-PRO-IF-4 Data Sheet







02-04 o Features

o Technical Specification

06-08 • Cabinet Size - Photo

09-10 • Safety - Instalation

11 - 12 • Vision

o Company Info



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



TN-PRO-IF-4

- · High Refresh Rate: 3840Hz
- · A Class Led Chip
- · High Quality PCB
- · High Quality MASK
- · Rotation 90 Degree





Features

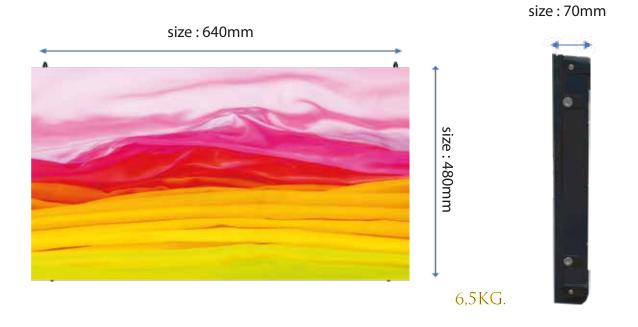
- *** FRONT SERVICE
- *** Light Weight
- *** Magnesium Die-Casting
- *** 3 in 1 Case weight with products: 129kg.
- *** Faster Cooling
- *** Advenced and safety Lock
- *** Nova Star Controller
- *** SPACE BLACK



	!"#\$%&#'()*</th></tr><tr><td>Features</td><td>:</td></tr><tr><td>Series</td><td>Pro</td></tr><tr><td>Panel installation type</td><td>Fix Instalation</td></tr><tr><td>Operating Environment</td><td>Indoor 4mm</td></tr><tr><td>Pixel Pitch</td><td></td></tr><tr><td>Brightness Refresh Rate</td><td>>1100 Nits >3840Hz</td></tr><tr><td>Weight / m2</td><td><21</td></tr><tr><td>Material Brands</td><td>~21</td></tr><tr><td>Lamp</td><td>Class A</td></tr><tr><td>Entegred</td><td>Chipone</td></tr><tr><td>Powersupply</td><td>Meanwell</td></tr><tr><td>Controller</td><td>Novastar</td></tr><tr><td>Connectors : Seetronic</td><td>Seetronic</td></tr><tr><td>Module Specifications</td><td>:</td></tr><tr><td>Pixel Configuration</td><td>SMD 2020</td></tr><tr><td>LED Chip</td><td>Cooper</td></tr><tr><td>LED</td><td>Space Black</td></tr><tr><td>Module Size (mm)</td><td>320mm x 160mm</td></tr><tr><td>Module Resolution</td><td>80 x 40</td></tr><tr><td>Processing</td><td>>14-16 Bit</td></tr><tr><td>PCB Quality Made and Overlife</td><td>Best Qality</td></tr><tr><td>Module - Mask Quality Picture / Video Quality</td><td>Normal Mask High Quality</td></tr><tr><td>Grey Scale</td><td>>65536</td></tr><tr><td>Cabinet Specifications</td><td>:</td></tr><tr><td>Module Per Cabinet</td><td>6 MODULE</td></tr><tr><td>Cabinet Size (mm)</td><td>640 x 480 x 70</td></tr><tr><td>Cabinet Material</td><td>Die-Casting Aliminum</td></tr><tr><td>Weight Per Panel Net kg.</td><td>6,5</td></tr><tr><td>Cabinet Resolution</td><td>160 x 120</td></tr><tr><td>Pixel Density / Cabinet</td><td>19200</td></tr><tr><td>IP Rating</td><td>IP40</td></tr><tr><td>Others Specifications</td><td>:</td></tr><tr><td>Driving IC Type</td><td>PWM</td></tr><tr><td>Refrate Quality 2</td><td>High Refresh</td></tr><tr><td>No Waterless Ripple of Camera</td><td>>%75</td></tr><tr><td>Driving Method " Scan "</td><td>1/20</td></tr><tr><td>Resolution/SQM</td><td>250 x 250</td></tr><tr><td>Pixel Density / m2 White Color Calibration (Adj.)</td><td>62500 3.500K~8.500K</td></tr><tr><td>Horizontal Viewing Angle</td><td>3.500K~6.500K 140 (±30)</td></tr><tr><td>Vertical Viewing Angle</td><td>140 (±30)</td></tr><tr><td>Low Latency</td><td>No</td></tr><tr><td>HDR</td><td>No</td></tr><tr><td>Mapping</td><td>Yes</td></tr><tr><td>Rotation per 90 Degree</td><td>Yes</td></tr><tr><td>Free Rotation (with R5)</td><td>Optional</td></tr><tr><td>Clear View</td><td>Optional</td></tr><tr><td>Refresh Quality</td><td>High Quality</td></tr><tr><td>High Refresh (PLL inside)</td><td>-</td></tr><tr><td>High Refresh Power Saving</td><td>Yes</td></tr><tr><td>High Refresh Dynamic Power Saving</td><td>-</td></tr><tr><td>Expected LED Lifetime %50</td><td>>100.000 Hours</td></tr><tr><td>Operating Temperature Range</td><td>-15 - +45 (±10)</td></tr><tr><td>Operating Humidity Range</td><td>-40! " +60! ,10%-90%RH</td></tr><tr><td>Power on Time (<w/sqm)</td><td>600</td></tr><tr><td>Power Consumption (<w/sqm)</td><td>450</td></tr><tr><td>Average Power Consumption (<w/sqm)</td><td>135</td></tr><tr><td>Voltage Range Version</td><td>47 ~ 63Hz / 110 ~ 240 VAC</td></tr><tr><td>Packing include</td><td>REV22 Plate-Power-Cat5 Cable</td></tr><tr><td>1 acking include</td><td>1 late-r ower-Cat5 Cable</td></tr><tr><td>Usage Area</td><td>Studio, Advertisement, Auditorium, Conference & Concert Hall</td></tr><tr><td></td><td>CE/EMC/LVD-ATR-EUR1 ISO-9001:2015</td></tr></tbody></table>
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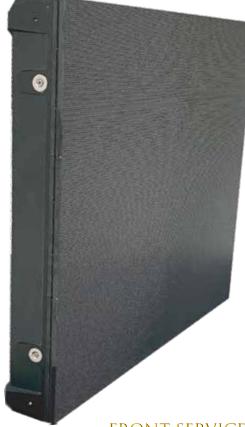




12 IN 1 129KG.





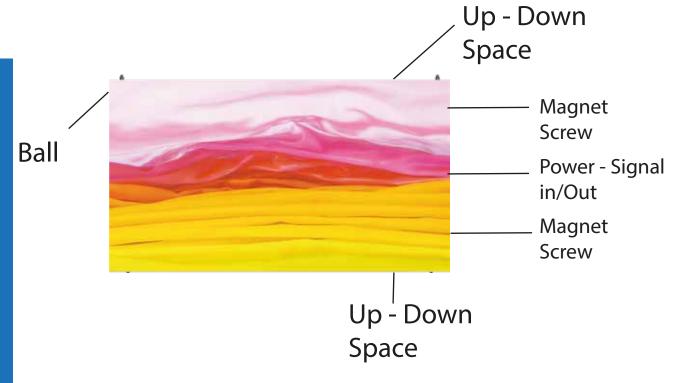












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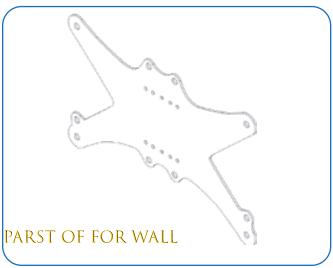


















The support structure has to be provided and installed by the customer because they very from project to project. The following issues must be considered:

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.

HANGING



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size: 2.880mm

size: 3.840mm



ULTRA WIDE VIEWING ANGLE



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ULTRA FAST RESPONSE



Response speed



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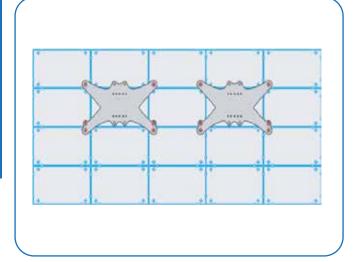
AVA LED



Others











OUTDOOR SERIES







os Specification

06-08 • Cabinet Detail

o9 Safety

10-11 o Installation

o Accessories - Company Info



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



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









P4 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



O TECHNICAL SPECIFICATION

Pro Fix Instalation Outdoor 4mm >6300 Nits >3840Hz <28 Class A Chipone Meanwell Novastar Seetronic SMD 1921 Cooper Black Shell
Fix Instalation Outdoor 4mm >6300 Nits >3840Hz <28 Class A Chipone Meanwell Novastar Sectronic SMD 1921 Cooper
Fix Instalation Outdoor 4mm >6300 Nits >3840Hz <28 Class A Chipone Meanwell Novastar Sectronic SMD 1921 Cooper
Outdoor 4mm >6300 Nits >3840Hz <28 Class A Chipone Meanwell Novastar Sectronic SMD 1921 Cooper
4mm >6300 Nits >3840Hz <28 Class A Chipone Meanwell Novastar Seetronic SMD 1921 Cooper
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Novastar Seetronic SMD 1921 Cooper
SMD 1921 Cooper
Cooper
Cooper
Black Shell
320mm x 320mm
80 x 80
>14-16 Bit
Best Quality
Normal Mask
High Quality
>65536
9 MODULE
960 x 960 x 115
Die-Casting Magnesium
25
240 x 240
57600
Back IP54 / Front IP67
PWM
High Refresh
>%75
1/10
250 x 250
62500
3.500K~8.500K
140 (±30)
140 (±30)
No
No
No
Optional
Optional
Optional
High Quality
-
Yes
-
>100.000 Hours
-15 - +45 (±10)
-40! " +60! ,10%-90%RH
900
780
312 47 - 63Hz / 110 - 240 VAC
47 ~ 63Hz / 110 ~ 240 VAC REV22
Plate-Power-Cat5 Cable
Small Pixel Advertisement, Shopping Center & Totem
CE/EMC/LVD-ATR-EUR1 ISO-9001:2015



size:960mm

size:115mm



size:960mm

25KG.

4 IN 1 - 139KG.



size: 1.150mm

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QALITY IN DETAIL







Power In/Out

Pjn

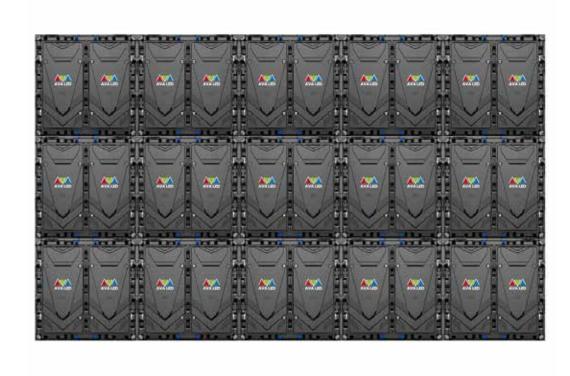


Door Lock

Front Service







size: 2.880mm

















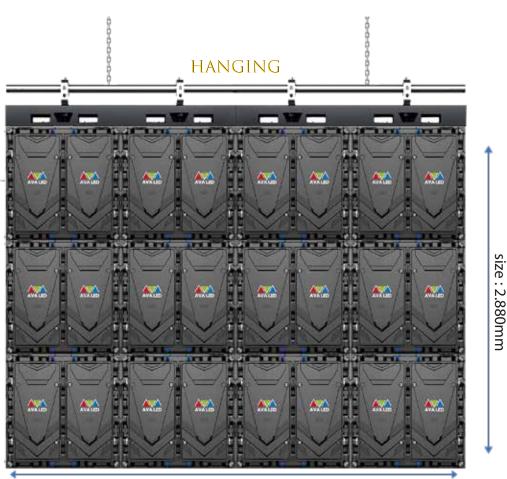
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Weight tolerances: Ensure that the support structure and the floor on which or the wall against which the support structure has to be installed, is qualified to handle the complete weight of the LED display screen. (which can be provided by manufacturer.

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

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.

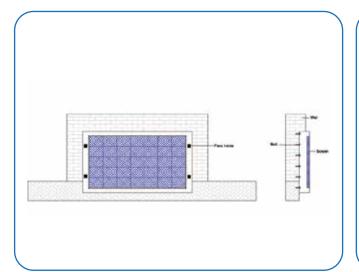


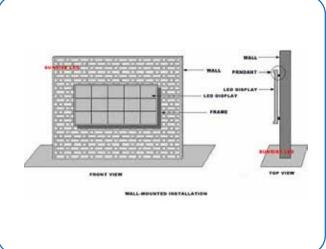
size: 3.840mm































OUTDOOR SERIES







os Specification

06-08 • Cabinet Detail

o9 Safety

10-11 o Installation

o Accessories - Company Info



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



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









P5 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



O TECHNICAL SPECIFICATION

MODEL NAME	TN-PRO-OF-5
Features	
Series	Pro
Panel installation type	Fix Instalation
Operating Environment	Outdoor
Pixel Pitch	5mm
Brightness	>6300 Nits
Refresh Rate	>3840Hz
Weight / m2	<28
Material Brands	
Lamp	Class A
Entegred	Chipone
Powersupply	Meanwell
Controller	Novastar
Connectors : Seetronic	Seetronic
Module Specifications	CMD 1021
Pixel Configuration	SMD 1921
LED Chip	Cooper
	Black Shell
Module Size (mm)	320mm x 320mm
Module Resolution	64 x 64 >14-16 Bit
Processing PCB Quality	Best Quality
Module - Mask Quality	Normal Mask
Picture / Video Quality	High Quality
Grey Scale	>65536
Cabinet Specifications	~03330
Module Per Cabinet	9 MODULE
Cabinet Size (mm)	960 x 960 x 115
Cabinet Material	Die-Casting Magnesium
Weight Per Panel Net kg.	25
Cabinet Resolution	192 x 192
Pixel Density / Cabinet	36864
IP Rating	Back IP54 / Front IP67
Others Specifications	
Driving IC Type	PWM
Refrate Quality 2	High Refresh
No Waterless Ripple of Camera	>%75
Driving Method " Scan "	1/8
Resolution/SQM	200 x 200
Pixel Density / m2	40000
White Color Calibration (Adj.)	3.500K~8.500K
Horizontal Viewing Angle	140 (±30)
Vertical Viewing Angle	140 (±30)
Low Latency	No
HDR	No
Mapping	No
Rotation per 90 Degree	Optional
Free Rotation (with R5)	Optional
Clear View	Optional
Refresh Quality	High Quality
High Refresh (PLL inside)	-
High Refresh Power Saving	Yes
High Refresh Dynamic Power Saving	-
Expected LED Lifetime %50	>100.000 Hours
Operating Temperature Range	-15 - +45 (±10)
Operating Humidity Range	-40! " +60! ,10%-90%RH
Power on Time (<w sqm)<="" td=""><td>900</td></w>	900
Power Consumption (<w sqm)<="" td=""><td>750</td></w>	750
Average Power Consumption (<w sqm)<="" td=""><td>300</td></w>	300
Voltage Range	47 ~ 63Hz / 110 ~ 240 VAC
Version	REV22
Packing include	Plate-Power-Cat5 Cable
	Auditorium, Concert Area ,
Usage Area	Advertisement, Shopping Center,
	Scoreboard & Totem
Certificate	Scoreboard & Totem CE/EMC/LVD-ATR-EUR1 ISO-9001:2015



size:960mm

size: 115mm



size:960mm

25KG.

size: 1.150mm



QALITY IN DETAIL

4 IN 1 - 139KG.







Power In/Out

Pjn

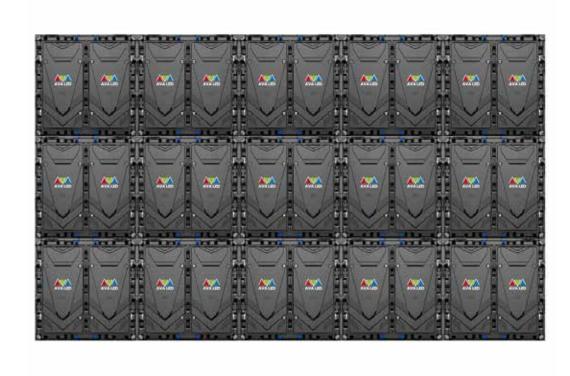


Door Lock

Front Service







size: 2.880mm

















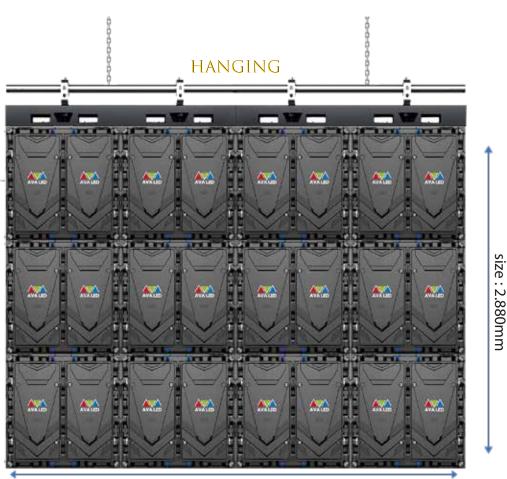
The support structure has to be provided and installed by the customer because they very from project to project. The following issues must be considered:

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.

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.

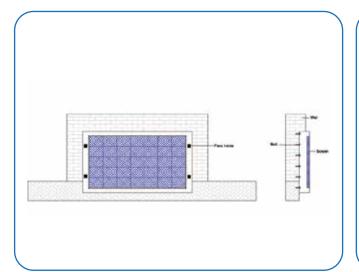


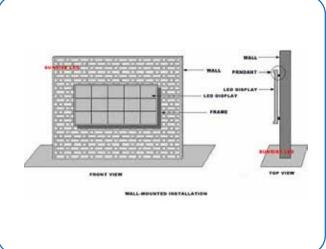
size: 3.840mm































OUTDOOR SERIES







os Specification

06-08 • Cabinet Detail

o9 Safety

10-11 o Installation

o Accessories - Company Info



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



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









P6 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



O TECHNICAL SPECIFICATION

MODEL NAME	TN-PRO-OF-6
MODEL NAME Features	IIN-PNO-OF-0
Series	Pro
Panel installation type	Fix Instalation
Operating Environment	Outdoor
Pixel Pitch	6.666mm
Brightness	>6500 Nits
Refresh Rate	>3840Hz
Weight / m2	<28
Material Brands	
Lamp	Class A
Entegred	Chipone
Powersupply	Meanwell
Controller	Novastar
Connectors : Seetronic	Seetronic
Module Specifications	
Pixel Configuration	SMD 2727
LED Chip	Cooper
LED	Black Shell
Module Size (mm)	320mm x 320mm
Module Resolution	48 x 48
Processing	>14-16 Bit
PCB Quality	Best Quality
Module - Mask Quality	Normal Mask
Picture / Video Quality	High Quality
Grey Scale	>65536
Cabinet Specifications	
Module Per Cabinet	9 MODULE
Cabinet Size (mm)	960 x 960 x 115
Cabinet Material	Die-Casting Magnesium
Weight Per Panel Net kg.	25
Cabinet Resolution	144 x 144
Pixel Density / Cabinet	20736
IP Rating	Back IP54 / Front IP67
Others Specifications	
Driving IC Type	PWM
Refrate Quality 2	High Refresh
No Waterless Ripple of Camera	>%75
Driving Method " Scan "	1/6
Resolution/SQM	150 x 150
Pixel Density / m2	22500
White Color Calibration (Adj.)	3.500K~8.500K
Horizontal Viewing Angle	140 (±30)
Vertical Viewing Angle Low Latency	140 (±30) No
HDR	- 10
	No No
Mapping Patation non 00 Degree	Optional
Rotation per 90 Degree	Optional
Free Rotation (with R5) Clear View	Optional
Refresh Quality	High Quality
High Refresh (PLL inside)	-
High Refresh Power Saving	Yes
High Refresh Dynamic Power Saving	-
Expected LED Lifetime %50	>50.000 Hours
Operating Temperature Range	-15 - +45 (±10)
Operating Humidity Range	-40! " +60! ,10%-90%RH
Power on Time (<w sqm)<="" td=""><td>W 900</td></w>	W 900
Power Consumption (<w sqm)<="" td=""><td>W 730</td></w>	W 730
Average Power Consumption (<w sqm)<="" td=""><td>W 292</td></w>	W 292
Voltage Range	47 ~ 63Hz / 110 ~ 240 VAC
Version	REV22
Packing include	Plate-Power-Cat5 Cable
0	Auditorium, Concert Area ,
Usage Area	Advertisement, Shopping Center,
	Scoreboard & Totem
	CE/EMC/LVD-ATR-EUR1
Certificate	ISO-9001:2015
	ISO-14001:2015



size:960mm

size: 115mm



size:960mm

25KG.

size: 1.150mm



QALITY IN DETAIL

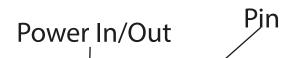
4 IN 1 - 139KG.







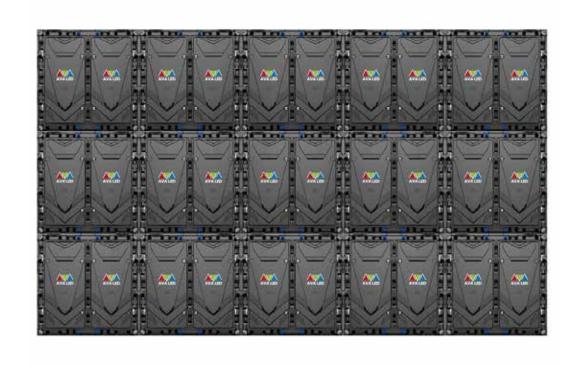
ck







Lock



size: 2.880mm

















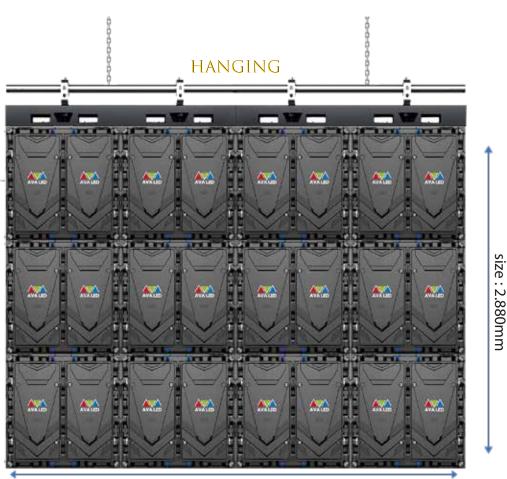
The support structure has to be provided and installed by the customer because they very from project to project. The following issues must be considered:

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.

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.

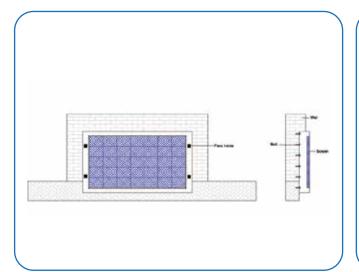


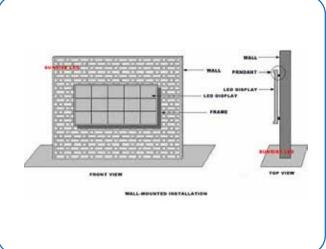
size: 3.840mm































Data Sheet

OUTDOOR SERIES

TN-PRO-OF-10







os Specification

06-08 • Cabinet Detail

op Safety

10-11 • Installation

o Accessories - Company Info



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



TN-PRO-OF-10

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





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



O TECHNICAL SPECIFICATION

MODEL NAME	TN-PRO-OF-10
Features	
Series	Pro
Panel installation type	Fix Instalation
Operating Environment	Outdoor
Pixel Pitch	10mm
Brightness	>7000 Nits
Refresh Rate	>3840Hz
Weight / m2	<28
Material Brands	
Lamp	Class A
Entegred	Chipone
Powersupply	Meanwell
Controller	Novastar
Connectors : Seetronic	Seetronic
Module Specifications	CMD 2525
Pixel Configuration	SMD 3535
LED Chip LED	Cooper Black Shell
Module Size (mm)	320mm x 320mm
Module Resolution	32 x 32
Processing	>14-16 Bit
PCB Quality	Best Quality
Module - Mask Quality	Normal Mask
Picture / Video Quality	High Quality
Grev Scale	>65536
Cabinet Specifications	
Module Per Cabinet	9 MODULE
Cabinet Size (mm)	960 x 960 x 115
Cabinet Material	Die-Casting Magnesium
Weight Per Panel Net kg.	25
Cabinet Resolution	96 x 96
Pixel Density / Cabinet	9216
IP Rating	Back IP54 / Front IP67
Others Specifications	
Driving IC Type	-
Refrate Quality 2	High Refresh
No Waterless Ripple of Camera	>%75
Driving Method " Scan "	1/2
Resolution/SQM	100 x 100
Pixel Density / m2	10000
White Color Calibration (Adj.)	3.500K~8.500K
Horizontal Viewing Angle	140 (±30)
Vertical Viewing Angle	140 (±30)
Low Latency	No No
HDR Manning	No No
Mapping Rotation per 90 Degree	
Free Rotation (with R5)	Optional Optional
Clear View	Optional
Refresh Quality	High Quality
	mgn Quanty
High Refresh (PLL inside)	_
High Refresh (PLL inside)	- Ves
High Refresh Power Saving	Yes
	Yes -
High Refresh Power Saving High Refresh Dynamic Power Saving Expected LED Lifetime %50	
High Refresh Power Saving High Refresh Dynamic Power Saving	Yes - >100.000 Hours
High Refresh Power Saving High Refresh Dynamic Power Saving Expected LED Lifetime %50 Operating Temperature Range	Yes
High Refresh Power Saving High Refresh Dynamic Power Saving Expected LED Lifetime %50 Operating Temperature Range Operating Humidity Range	Yes
High Refresh Power Saving High Refresh Dynamic Power Saving Expected LED Lifetime %50 Operating Temperature Range Operating Humidity Range Power on Time (<w sqm)<="" td=""><td>Yes </td></w>	Yes
High Refresh Power Saving High Refresh Dynamic Power Saving Expected LED Lifetime %50 Operating Temperature Range Operating Humidity Range Power on Time (<w (<w="" consumption="" power="" sqm)="" sqm)<="" td=""><td>Yes </td></w>	Yes
High Refresh Power Saving High Refresh Dynamic Power Saving Expected LED Lifetime %50 Operating Temperature Range Operating Humidity Range Power on Time (<w (<w="" average="" consumption="" power="" sqm)="" sqm)<="" td=""><td>Yes </td></w>	Yes
High Refresh Power Saving High Refresh Dynamic Power Saving Expected LED Lifetime %50 Operating Temperature Range Operating Humidity Range Power on Time (<w (<w="" average="" consumption="" power="" range<="" sqm)="" td="" voltage=""><td>Yes </td></w>	Yes
High Refresh Power Saving High Refresh Dynamic Power Saving Expected LED Lifetime %50 Operating Temperature Range Operating Humidity Range Power on Time (<w (<w="" average="" consumption="" power="" range="" sqm)="" td="" version<="" voltage=""><td>Yes </td></w>	Yes
High Refresh Power Saving High Refresh Dynamic Power Saving Expected LED Lifetime %50 Operating Temperature Range Operating Humidity Range Power on Time (<w (<w="" average="" consumption="" power="" range="" sqm)="" td="" version<="" voltage=""><td>Yes </td></w>	Yes
High Refresh Power Saving High Refresh Dynamic Power Saving Expected LED Lifetime %50 Operating Temperature Range Operating Humidity Range Power on Time (<w (<w="" average="" consumption="" include<="" packing="" power="" range="" sqm)="" td="" version="" voltage=""><td>Yes </td></w>	Yes
High Refresh Power Saving High Refresh Dynamic Power Saving Expected LED Lifetime %50 Operating Temperature Range Operating Humidity Range Power on Time (<w (<w="" area<="" average="" consumption="" include="" packing="" power="" range="" sqm)="" td="" usage="" version="" voltage=""><td>Yes </td></w>	Yes
High Refresh Power Saving High Refresh Dynamic Power Saving Expected LED Lifetime %50 Operating Temperature Range Operating Humidity Range Power on Time (<w (<w="" average="" consumption="" include<="" packing="" power="" range="" sqm)="" td="" version="" voltage=""><td>Yes </td></w>	Yes



size:960mm

size: 105mm



size:960mm

25KG.



QALITY IN DETAIL

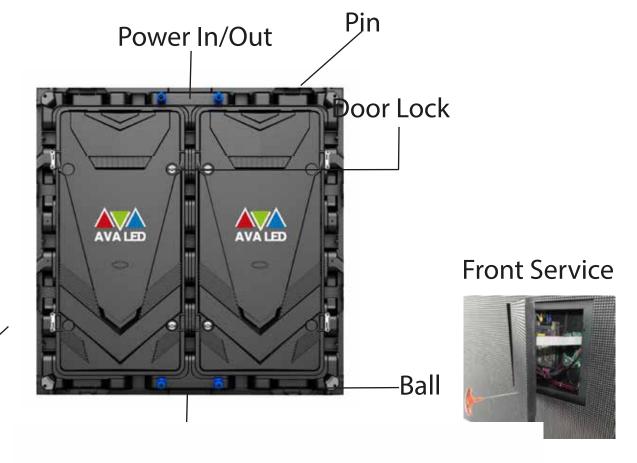
4 IN 1 - 139KG.

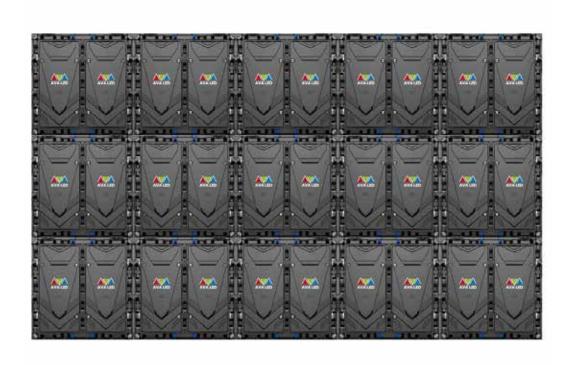




Lock







size: 2.880mm

















size : 2.880mm

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:

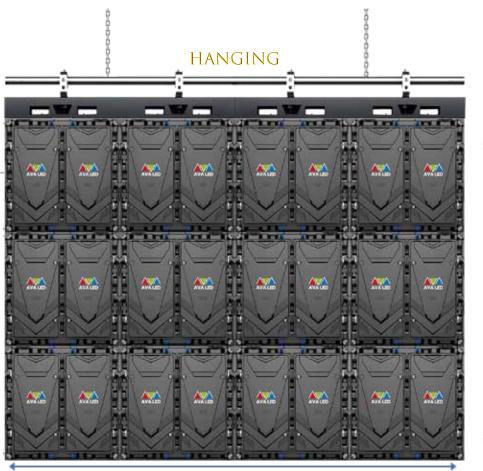
Weight tolerances: Ensure that the support structure and the floor on which or the wall against which the support structure has to be installed, is qualified to handle the complete weight of the LED display screen. (which can be provided by manufacturer.

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

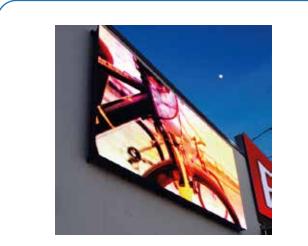
Front clearances: For making sure there is sufficient free area in front of the LED display screen and respect the maximum viewing angles and distance. Local regulations regarding such installation.

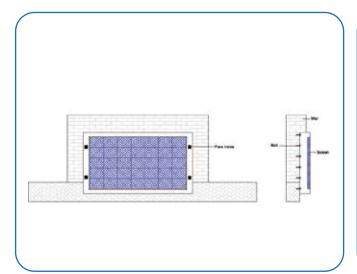


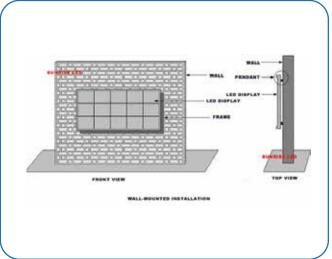
size: 3.840mm

































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AVA GROUP GMBH

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Phone: +49 211 730 64 817





