AVA LED

AV-3 IR Pro
Data Sheet

INDOOR SERIES

AV-3 IR Pro

TITLE OF CONTENTS

FEATURES

○ Advanced High Brightness Black technology,

○ Advanced High Refresh Rate,

○ Fast installation of panel to Light Frame,

○ Just Signal person to install/uninstall, saving labor cost

○ Die-Casting Aluminum-Magnesium frame design, fanless design.

○ No noise, lower power consumption, good heat dissipation.

FEATURES

AV-3 IR Pro
- High Refresh Rate: 3840Hz
- High Contrast
- A Class Led Chip
- High Quality PCB
- High Quality MASK
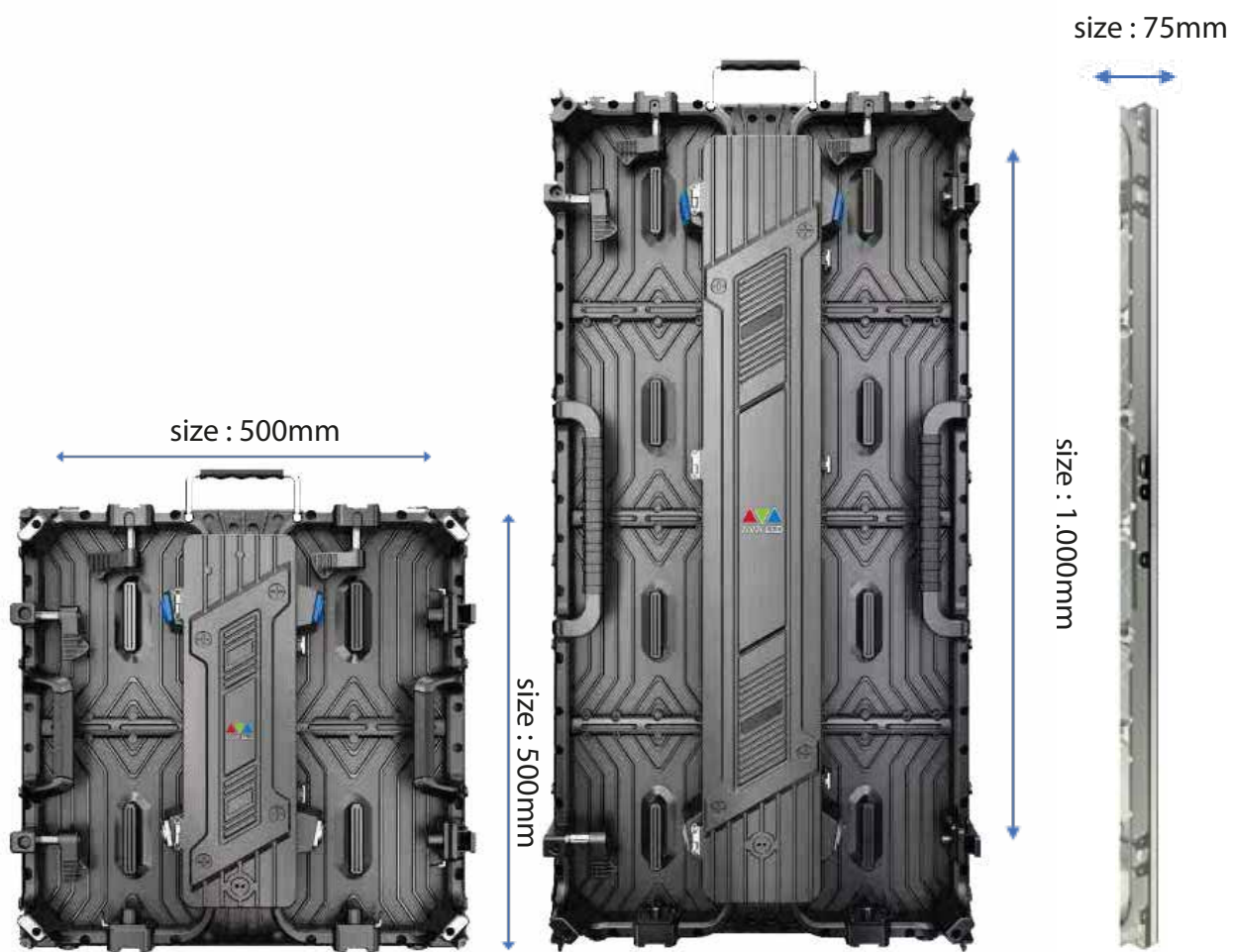
THERE ARE TWO CABINET SIZE IS YOUR OPNION

PRODUCT DETAILS

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

TECHNICAL SPECIFICATION

PRODUCT DETAILS

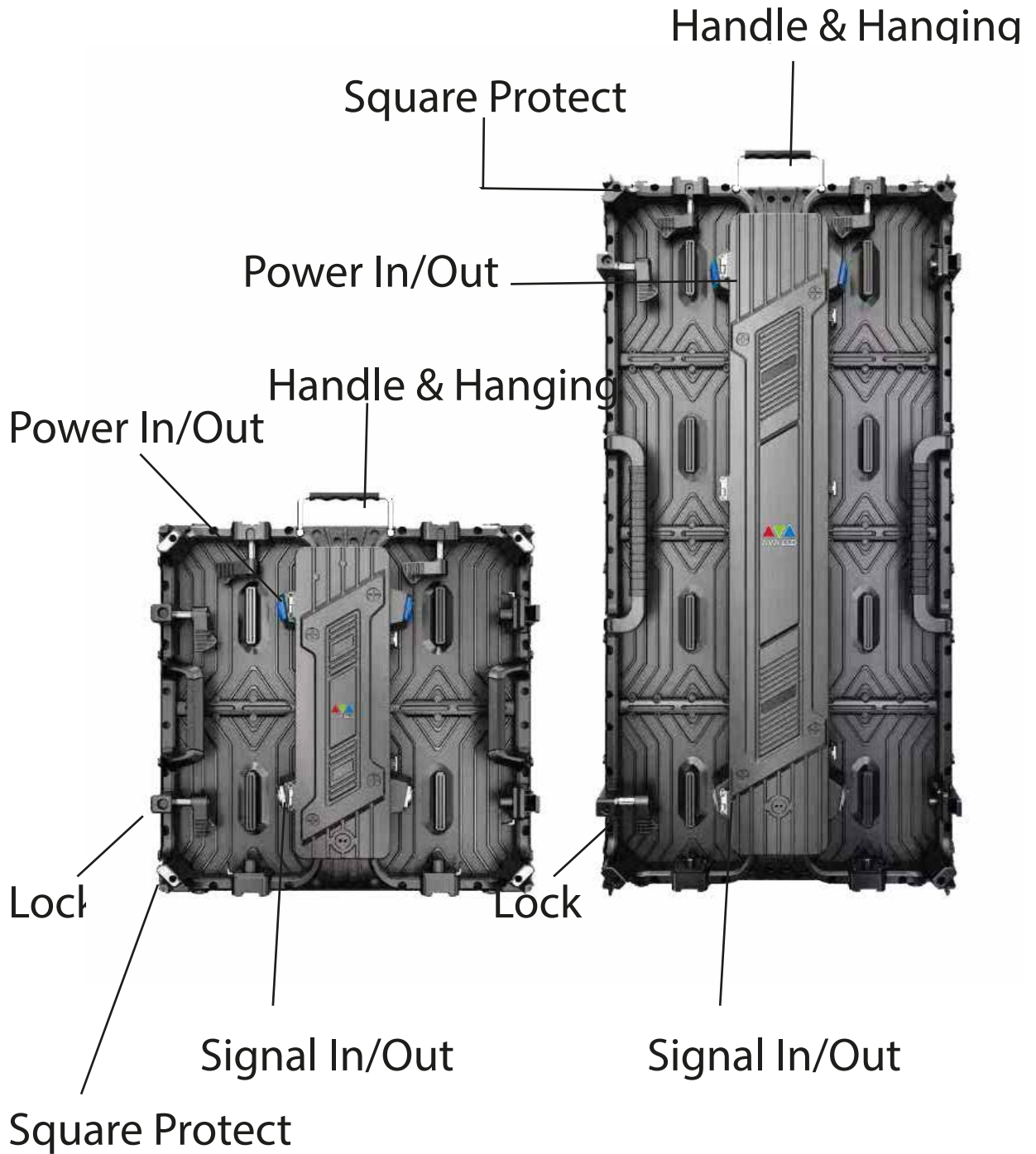| MODEL NAME	AV-3 500x1000	AV-3 500x500
Features	:	:
Series	IR PRO	IR PRO
Panel installation type	Rental	Rental
Operating Environment	Indoor	Indoor
Pixel Pitch	3,91mm	3,91mm
Brightness	>1100 Nits	>1100 Nits
Refresh Rate	>3840Hz	>3840Hz
Weight / m2	<27	<27
Material Brands	:	:
Lamp	Class A	Class A
Entegred	Chipone or Smilar	Chipone or Smilar
Powersupply	Meanwell or Smilar/Smilier	Meanwell or Smilar/Smilier
Controller	Novastar	Novastar
Connectors : Seetronic	Seetronic	Seetronic
Module Specifications	:	:
Pixel Configuration	SMD 2020	SMD 2020
LED Chip	Cooper	Cooper
LED	Space Black	Space Black
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	:	:
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	128x256	128x128
Pixel Density / Cabinet	32768	16384
IP Rating	IP40	IP40
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)	-	-
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)	800	800
Power Consumption (<w/sqm)	500	500
Average Power Consumption (<w/sqm)	175	175
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 ISO-14001:2015	CE/EMC/LVD-ATR-EUR1 ISO-9001:2015 ISO-14001:2015

QALITY IN DETAIL

PRODUCT CABINET SIZE

CABINET SIZE

size : 75mm

size : 500mm

size : 500mm

size : 1.000mm

PRODUCT PHOTO

CABINET DETAIL

Handle & Hanging

Square Protect

Power In/Out

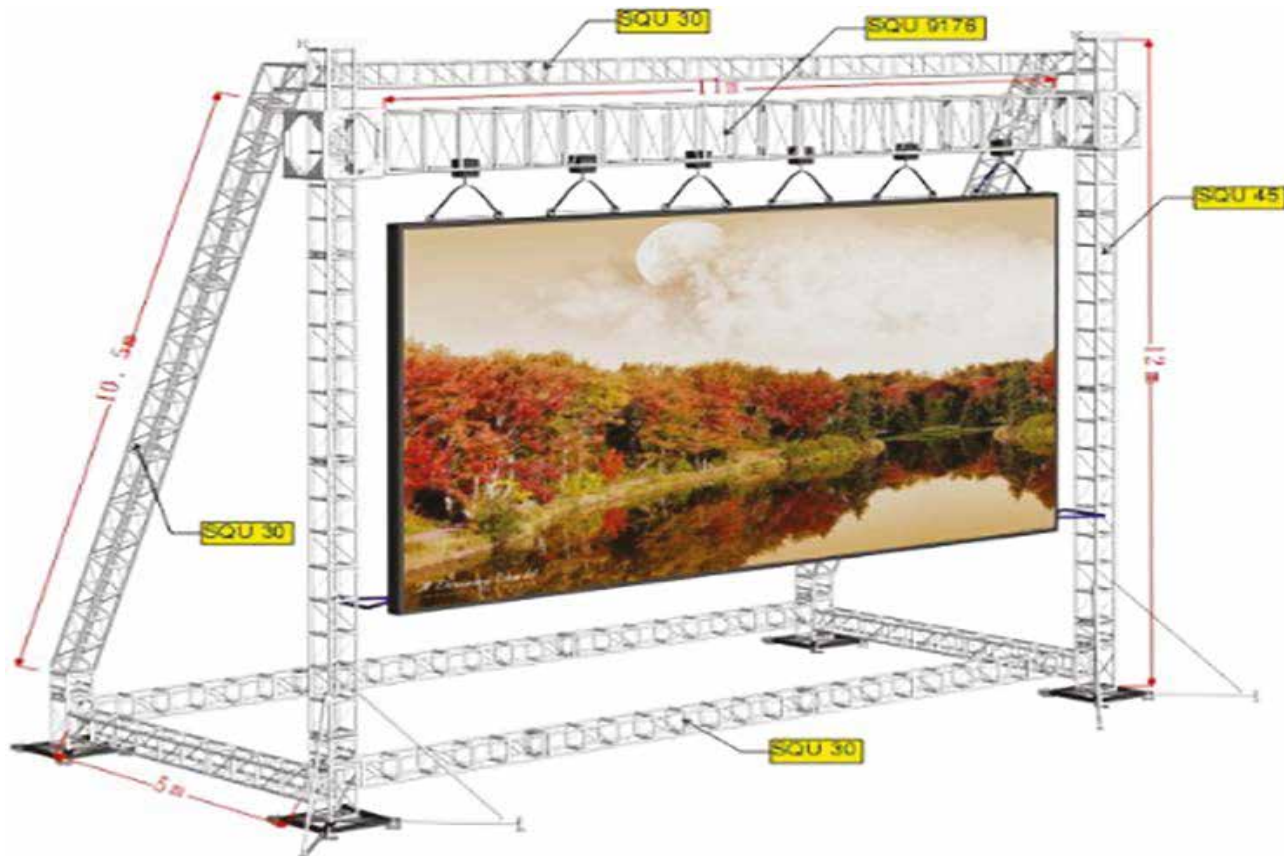Handle & Hanging

Power In/Out

Lock

Lock

Signal In/Out

Signal In/Out

Square Protect

SAFETY

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.

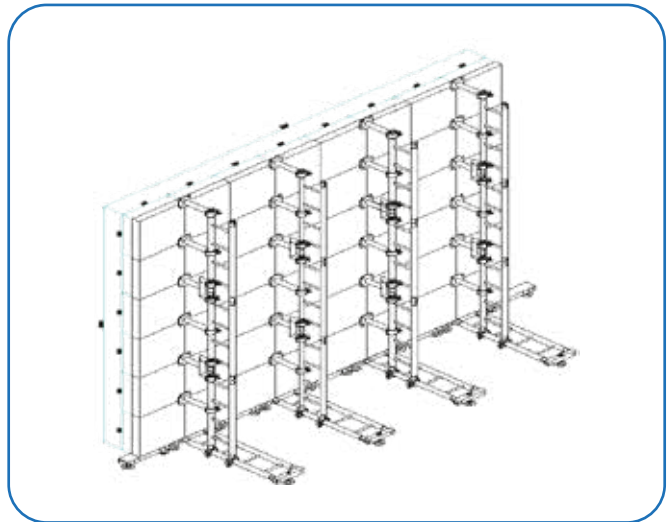Environmental conditions: Humidity, wind, temperatures, rain, snow etc.

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.

INSTALLLATION

ACCESSORIES

AVA LED

AV-3 OR Pro
Data Sheet

OUTDOOR SERIES

AV-3 OR PRO

ISO 9001:2015

CE

ISO 14001:2015 CERTIFIED COMPANY

TITLE OF CONTENTS

FEATURES

- Advanced High Brightness Black technology,

- Advanced High Refresh Rate,

- Fast installation of panel to Light Frame,

- Just Signal person to install/uninstall, saving labor cost

- Die-Casting Aluminum-Magnesium frame design, fanless design.

- No noise, lower power consumption, good heat dissipation.

FEATURES

AV-3 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

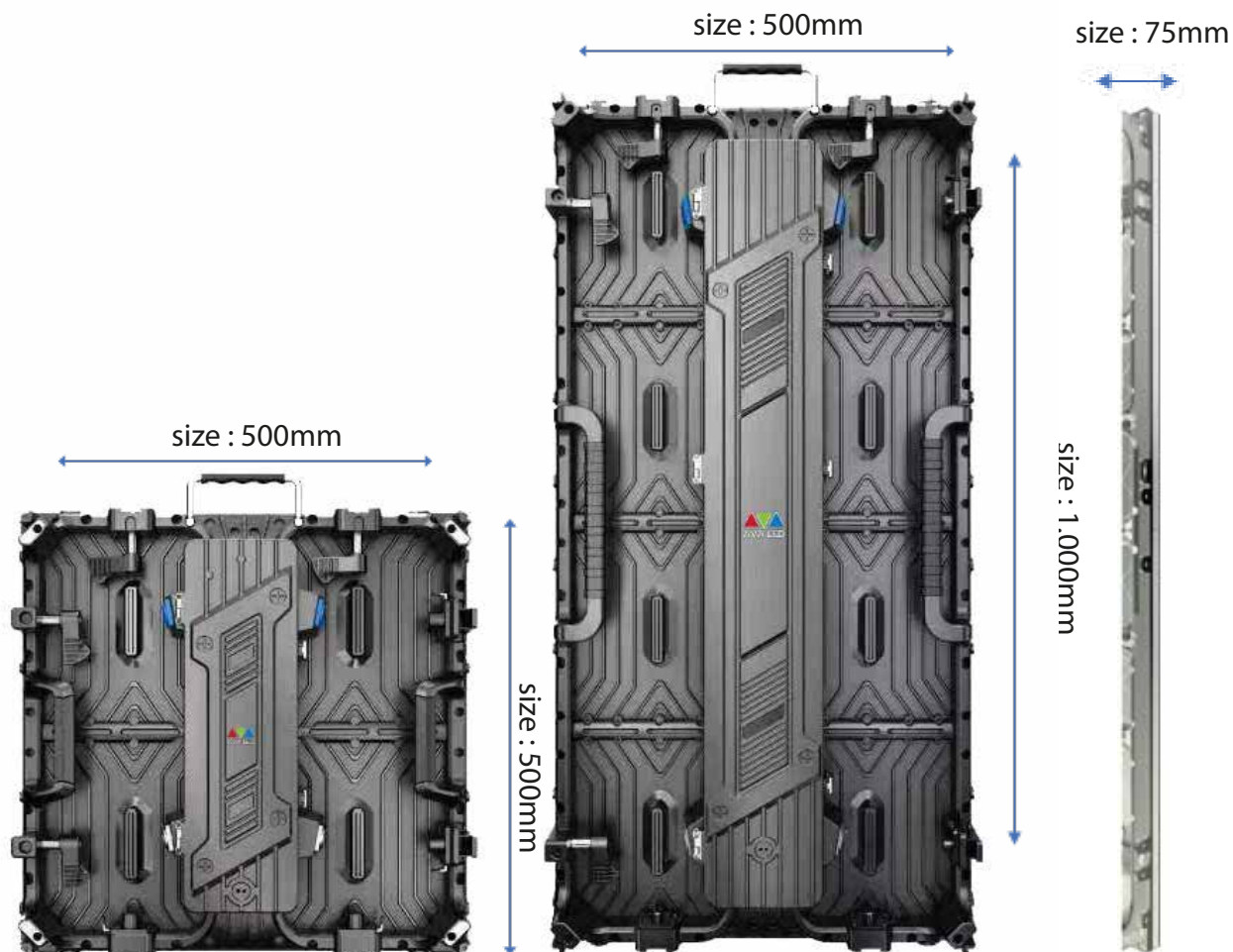**PRODUCT DETAILS**

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

TECHNICAL SPECIFICATION

PRODUCT DETAILS

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	:	:
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	:	:
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	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)	-	-
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)	800	800
Power Consumption (<w/sqm)	750	750
Average Power Consumption (<w/sqm)	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 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

PRODUCT CABINET SIZE

CABINET SIZE

size : 500mm

size : 75mm

size : 500mm

size : 500mm

size : 1.000mm

PRODUCT PHOTO

CABINET DETAIL

○ CONNECTION

Handle & Hanging

Square Protect

Power In/Out

Handle & Hanging

Power In/Out

Lock

Lock

Signal In/Out

Signal In/Out

Square Protect

SAFETY

SQU 30
SQU 9176
SQU 45
SQU 30
SQU 30

INSTALLATION

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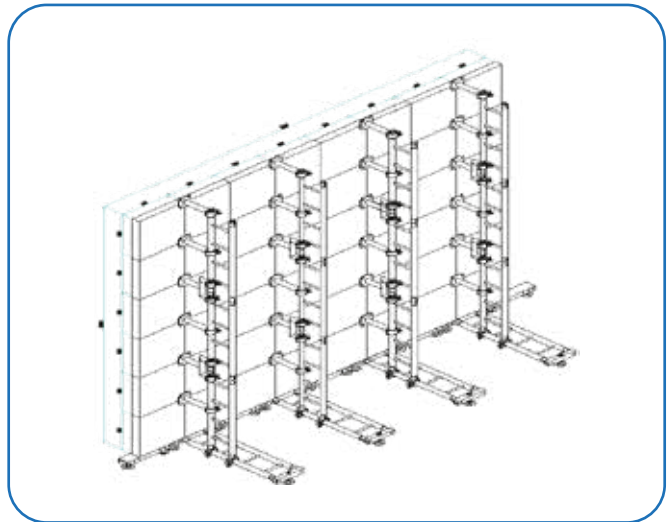
Location: Outdoor/.Indoor, altitude, etc. Usually, for outdoor display screen, the customer should build top cover and side cover for IP protection
(Including waterproof and dustproof)

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.

INSTALLLATION

ACCESSORIES

AVA LED

AV-3 OR Plus
Data Sheet

OUTDOOR SERIES

AV-3 OR Plus

ISO 9001:2015 CE ISO 14001:2015 CERTIFIED COMPANY

01

TITLE OF CONTENTS

QALITY IN DETAIL

FEATURES

○   Advanced High Brightness Black technology,

○   Advanced High Refresh Rate,

○   Fast installation of panel to Light Frame,

○   Just Signal person to install/uninstall, saving labor cost

○   Die-Casting Aluminum-Magnesium frame design, fanless design.

○   No noise, lower power consumption, good heat dissipation.

FEATURES

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
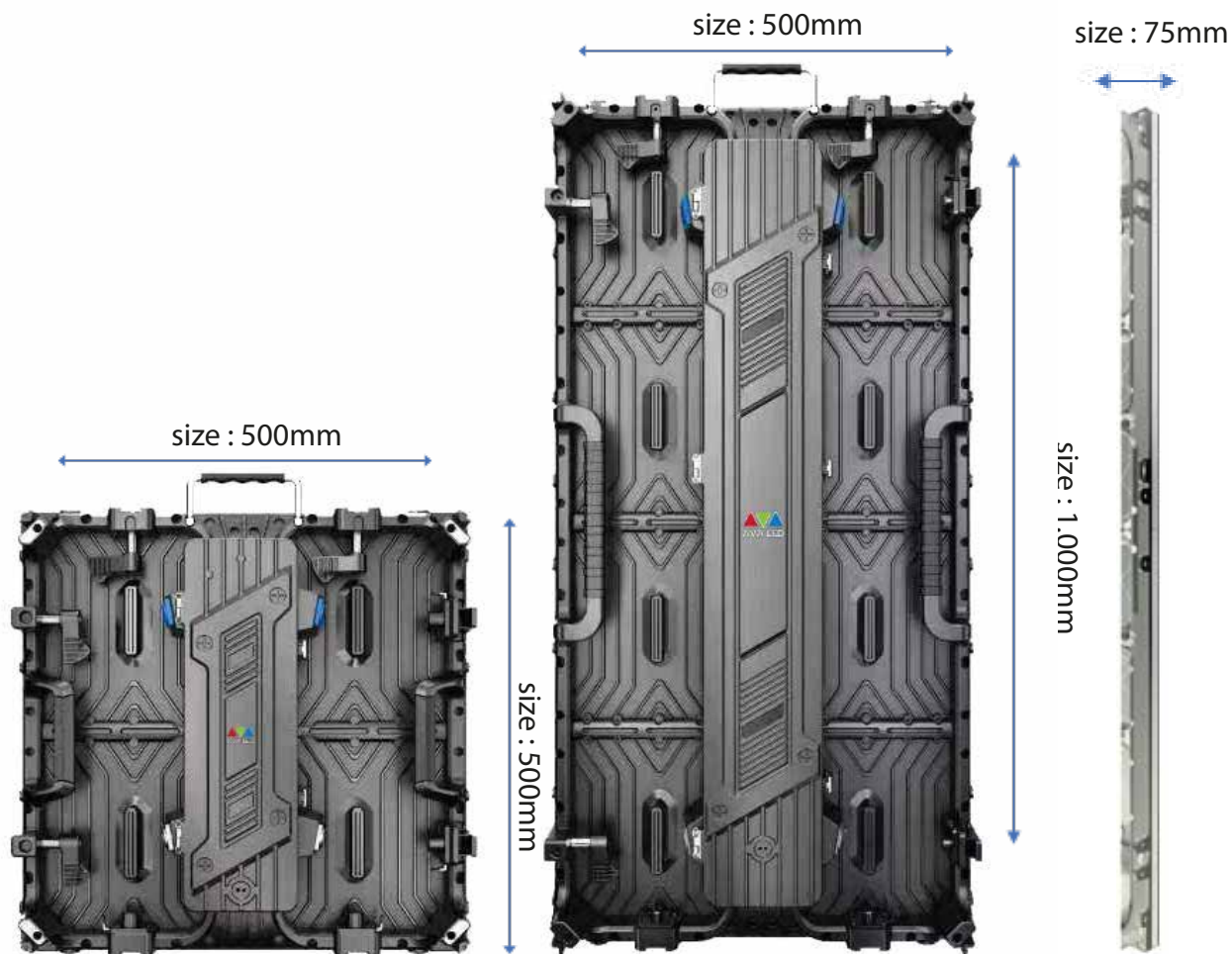
PRODUCT DETAILS

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

TECHNICAL SPECIFICATION

PRODUCT DETAILS

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	:	:
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	:	:
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	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)	-	-
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)	800	800
Power Consumption (<w/sqm)	750	750
Average Power Consumption (<w/sqm)	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 ISO-14001:2015	CE/EMC/LVD-ATR-EUR1 ISO-9001:2015 ISO-14001:2015

PRODUCT CABINET SIZE

CABINET SIZE

size : 500mm

size : 500mm

size : 500mm

size : 75mm

size : 1.000mm

PRODUCT PHOTO

○ CONNECTION

CABINET DETAIL

Handle & Hanging

Square Protect

Power In/Out

Handle & Hanging

Power In/Out
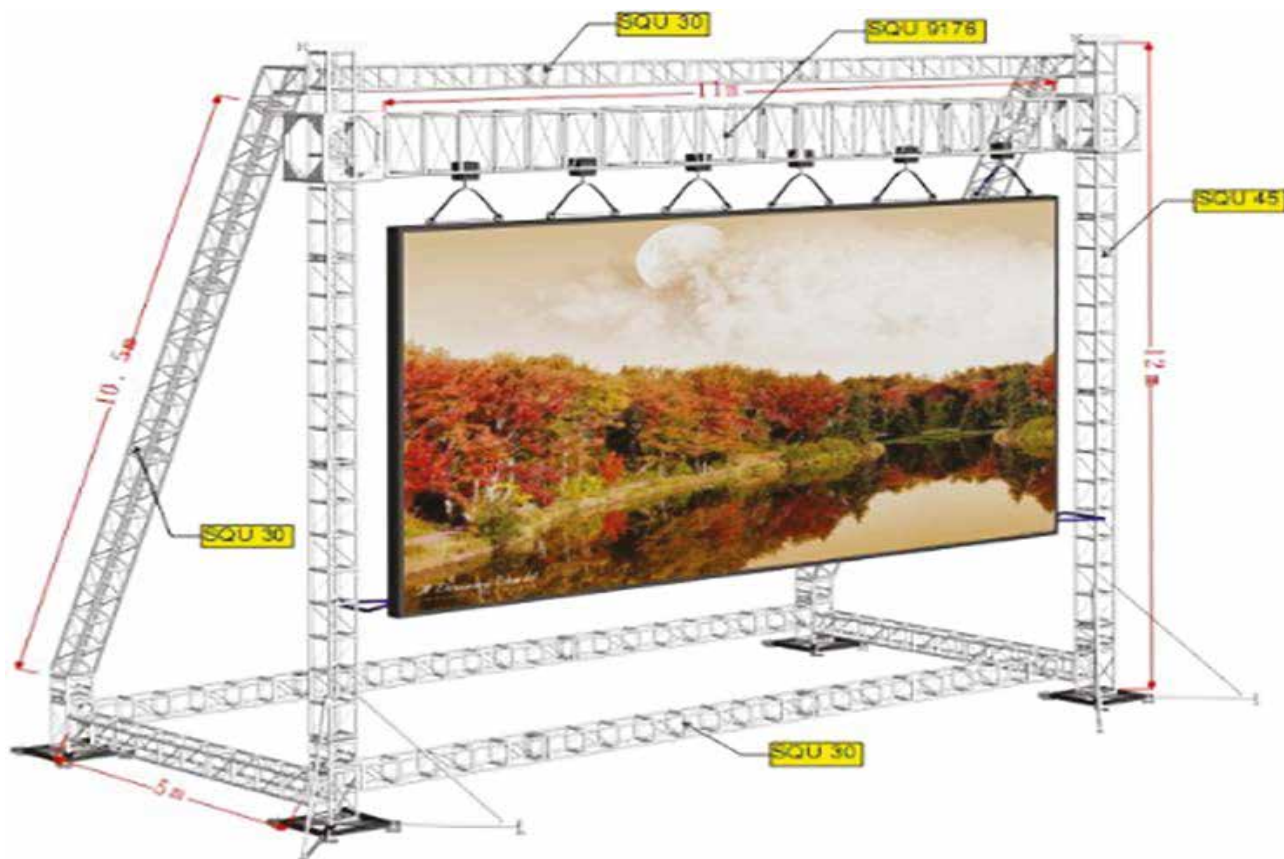
Lock

Lock

Signal In/Out

Signal In/Out

Square Protect

SAFETY

QALITY IN DETAIL

INSTALLATION

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.

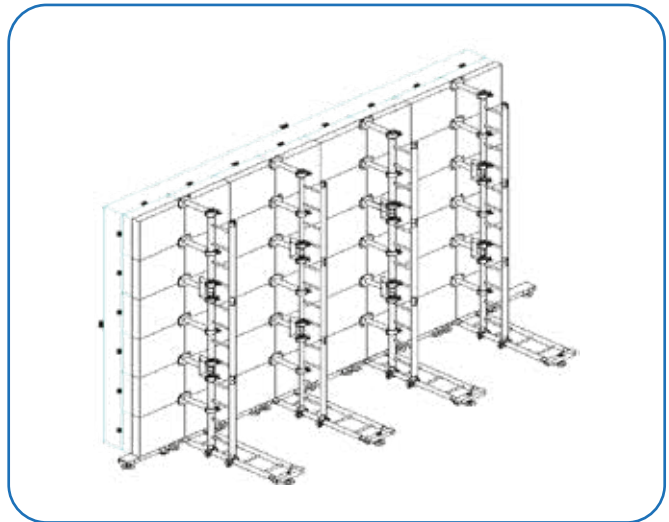Environmental conditions: Humidity, wind, temperatures, rain, snow etc.

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.

INSTALLLATION

ACCESSORIES

AVA LED

AV-4 OR
Data Sheet

OUTDOOR SERIES

AV-4 OR

ISO 9001:2015

C E

ISO 14001:2015 CERTIFIED COMPANY

01

TITLE OF CONTENTS

QALITY IN DETAIL

FEATURES

○ Advanced High Brightness Black technology,

○ Advanced High Refresh Rate,

○ Fast installation of panel to Light Frame,

○ Just Signal person to install/uninstall, saving labor cost

○ Die-Casting Aluminum-Magnesium frame design, fanless design.

○ No noise, lower power consumption, good heat dissipation.

FEATURES

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

PRODUCT DETAILS

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

TECHNICAL SPECIFICATION

PRODUCT DETAILS

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	4,81mm
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	:	:
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	52 X 52	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.)	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)	800	800
Power Consumption (<w/sqm)	700	700
Average Power Consumption (<w/sqm)	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-EUR1 ISO-9001:2015 ISO-14001:2015	CE/EMC/LVD-ATR-EUR1 ISO-9001:2015 ISO-14001:2015

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QALITY IN DETAIL

PRODUCT CABINET SIZE

CABINET SIZE

size : 500mm

size : 500mm

size : 500mm

size : 1,000mm

size : 75mm

PRODUCT PHOTO

⟲ CONNECTION

CABINET DETAIL

Handle & Hanging

Square Protect

Power In/Out

Handle & Hanging

Power In/Out

Lock

Lock

Signal In/Out

Signal In/Out

Square Protect

SAFETY

INSTALLATION

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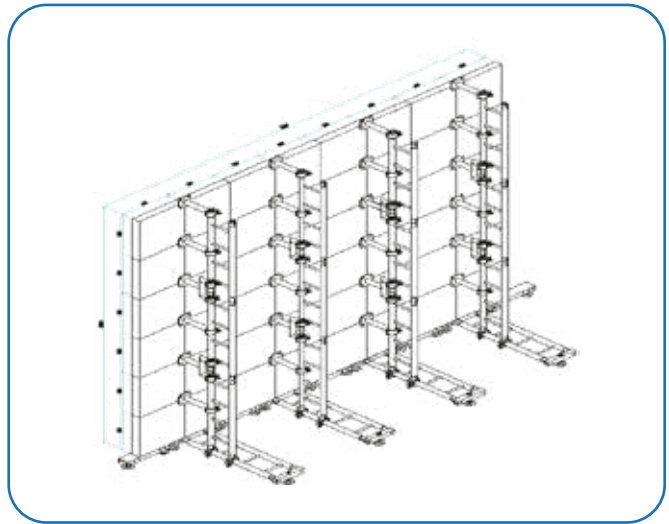
Environmental conditions: Humidity, wind, temperatures, rain, snow etc.

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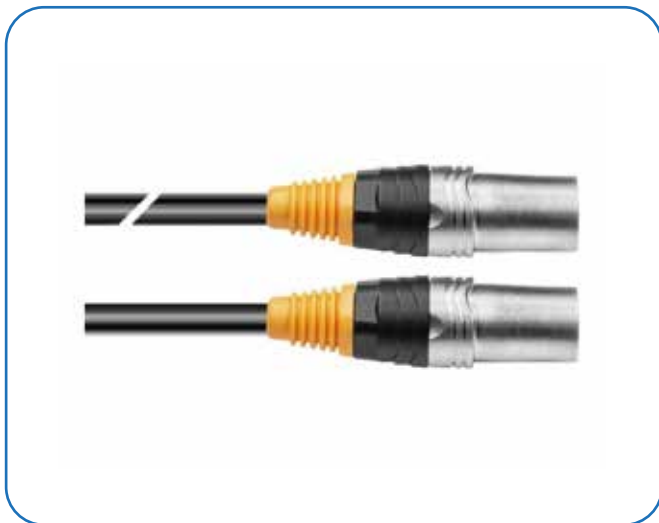(Including waterproof and dustproof)

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.

INSTALLLATION
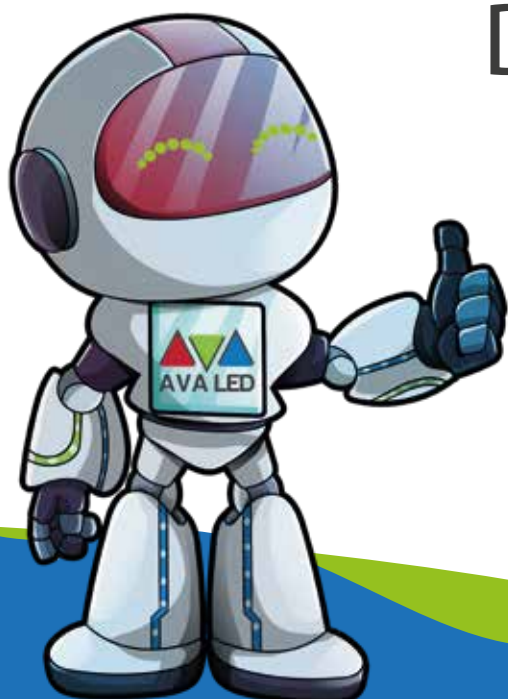
ACCESSORIES

AVA LED

TK-PRO-IP-1

P1,86

Data Sheet

INDOOR FRONT SERVICE

POSTER SERIES

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

ISO 9001:2015   C E   ISO CERTIFIED 14001:2015 COMPANY

01

FEATURES

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

FEATURES

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

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-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	<22
Material Brands	
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	Best Quality
Module - Mask Quality	Normal Mask
Picture / Video Quality	High 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	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)	800
Power Consumption (<w/sqm)	670
Average Power Consumption (<w/sqm)	201
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

QALITY IN DETAIL

CABINET SIZE

size : 640mm

size : 1.920mm

27KG.

size : 70mm

3 IN 1
129KG.

885mm

410mm

size : 2.030mm

QALITY IN DETAIL

PRODUCT PHOTO

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

FRONT SERVICES

PRODUCT PHOTO

Eternet ——————
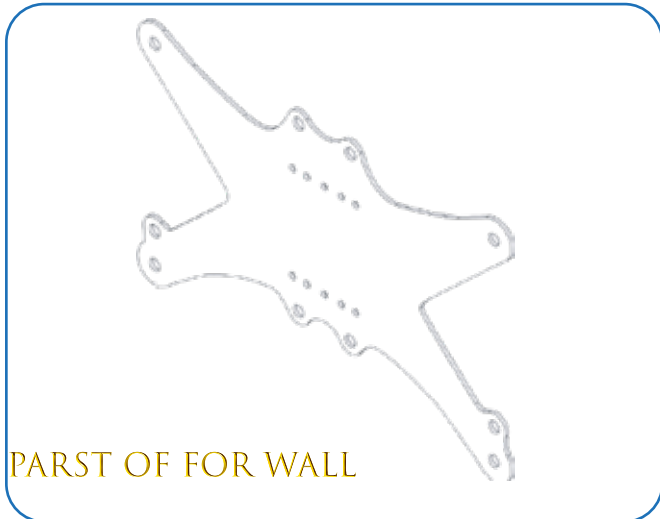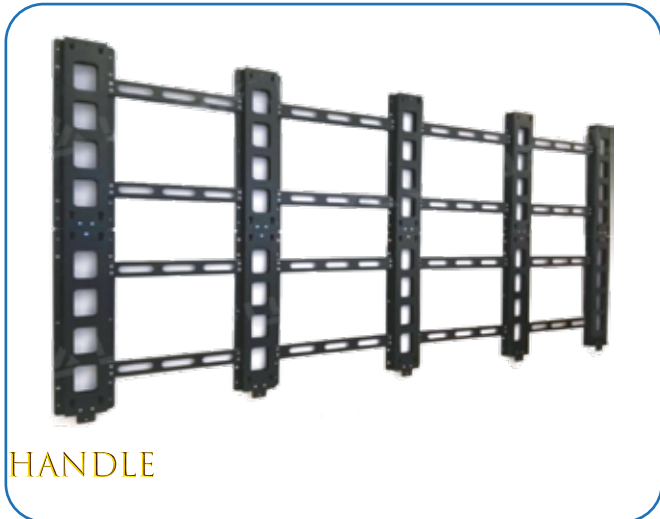
USB Disc ——————

—————— Power in

—————— HDMI in

Ultra High Definition

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

SAFETY

CASE

CONNECTION

HANDLE

PARST OF FOR WALL

BALL

HANGING

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.

INSTALLLATION

HANGING

size : 1.920mm

size : 3.840mm

VISION

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

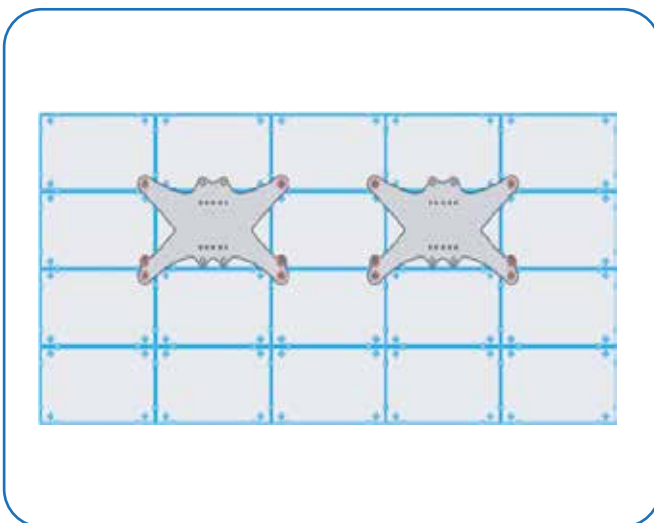Perfect Rendering Dynamic Picture   Smear Ghosting Phenomenon

18 BIT GREY SCALE
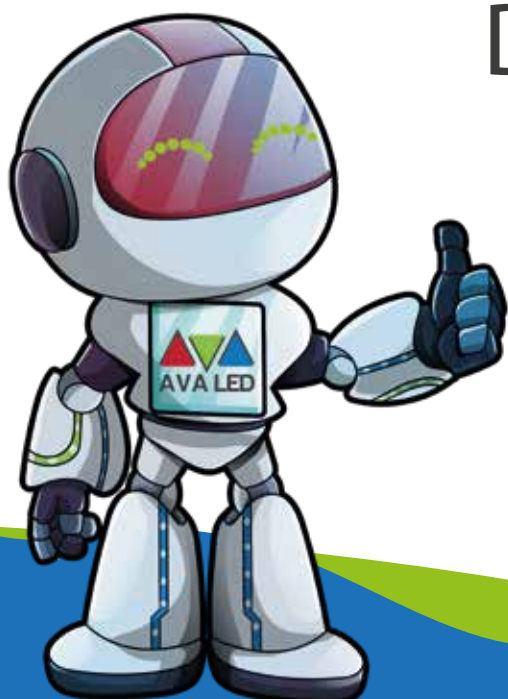

AVA LED   Others

VISION

AVA LED

TK-PRO-IP-2

P2,5

Data Sheet

INDOOR FRONT SERVICE POSTER SERIES

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

ISO 9001:2015 CE ISO 14001:2015 CERTIFIED COMPANY

01

FEATURES

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

FEATURES

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

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-2 " P2,5 "
Features	:
Series	Pro
Panel installation type	Fix Instalation
Operating Environment	Indoor
Pixel Pitch	2,5mm
Brightness	>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	:
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 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	196608
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
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)	800
Power Consumption (<w/sqm)	570
Average Power Consumption (<w/sqm)	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-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

CABINET SIZE

size : 640mm

size : 1.920mm

27KG.

size : 70mm

3 IN 1
129KG.

885mm

410mm

size : 2.030mm

QALITY IN DETAIL

PRODUCT PHOTO

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

FRONT SERVICES

PRODUCT PHOTO

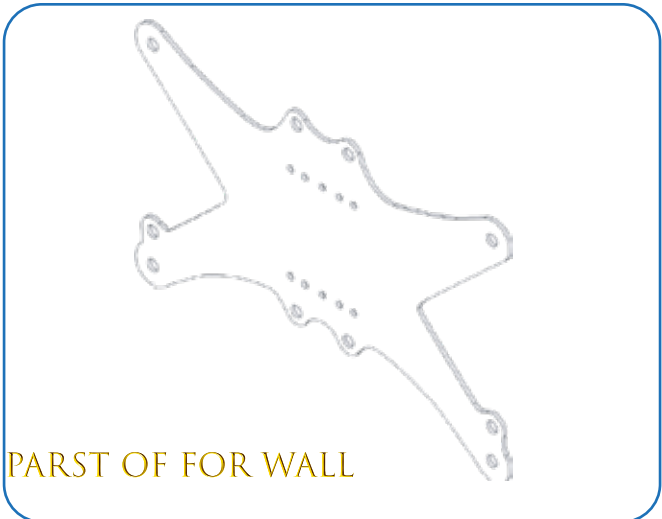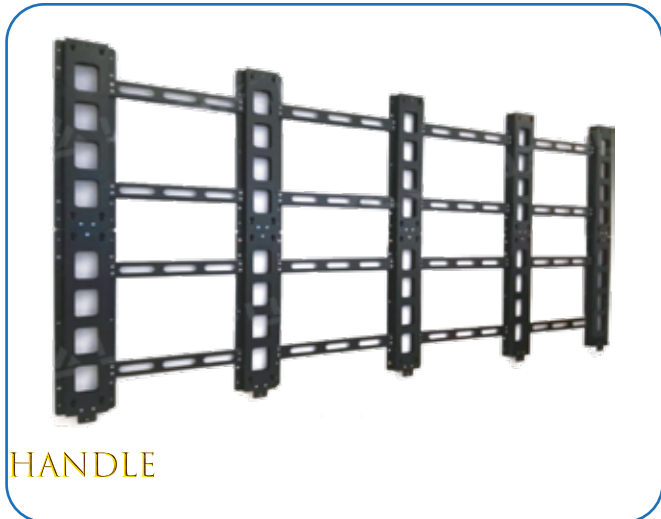Eternet —————————————————— Power in

USB Disc ————————————————— HDMI in

Ultra High Definition

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

SAFETY

CASE

CONNECTION

HANDLE

PARST OF FOR WALL

BALL

HANGING

QALITY IN DETAIL

INSTALLATION

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 : 1.920mm

size : 3.840mm

VISION

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

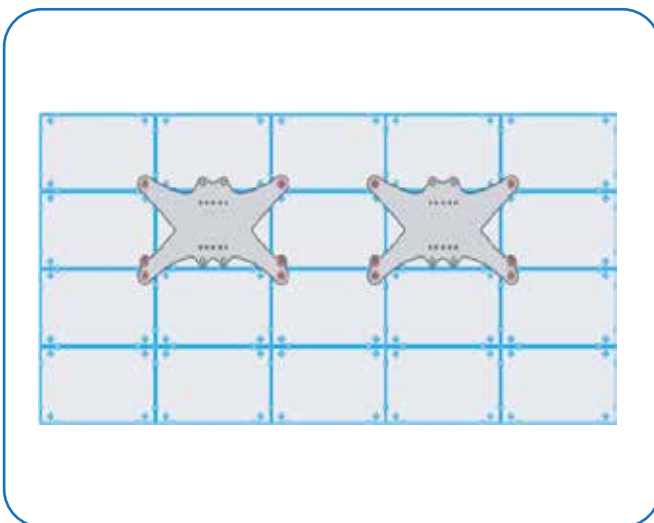Perfect Rendering Dynamic Picture   Smear Ghosting Phenomenon

18 BIT GREY SCALE

AVA LED   Others

VISION

AVA LED

www.avaledscreen.com
info@avaledscreen.com

AVA GROUP GMBH

Adress: Seelbachstraße 5, 66687 Wadern, Germany

Phone : +49 211 730 64 817

ISO 9001:2015

CE

ISO 14001:2015 CERTIFIED COMPANY

AVA LED

TK-PRO-IP-2
Data Sheet

INDOOR FRONT SERVICE
POSTER SERIES

TK-PRO-IP-2

ISO
9001:2015

CE

CERTIFIED
ISO
14001:2015
COMPANY

01

FEATURES

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

FEATURES

TK-PRO-IP 2

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

FEATURES

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-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	
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	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
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)	800
Power Consumption (<w/sqm)	550
Average Power Consumption (<w/sqm)	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

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QALITY IN DETAIL

CABINET SIZE

size : 640mm

size : 1.920mm

27KG.

size : 70mm

3 IN 1
129KG.

885mm

410mm

size : 2.030mm

QALITY IN DETAIL

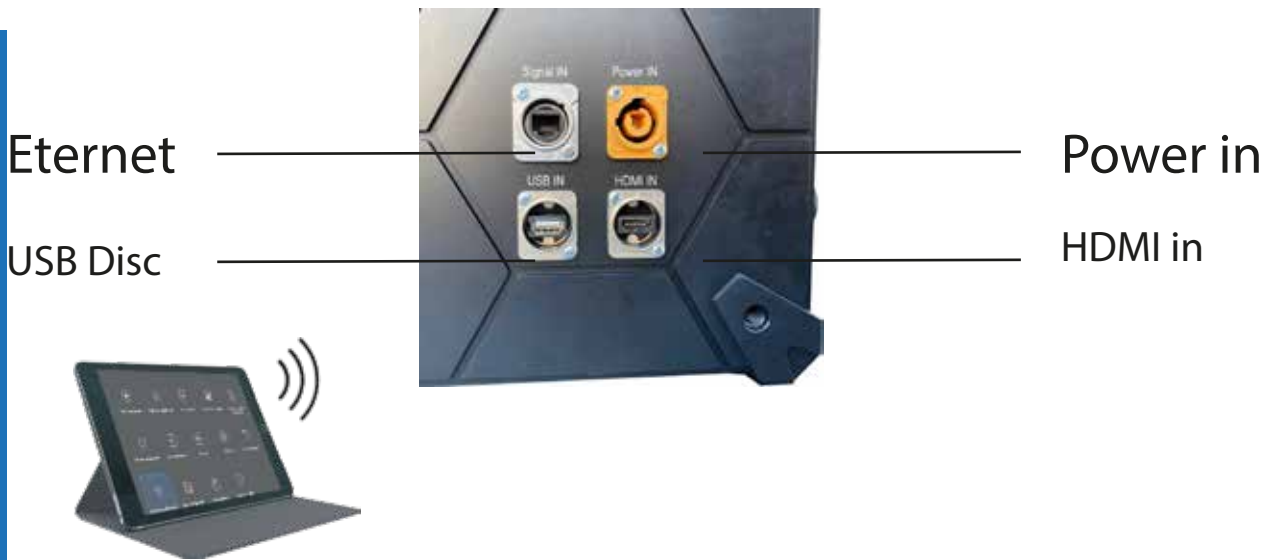PRODUCT PHOTO

FRONT SERVICES

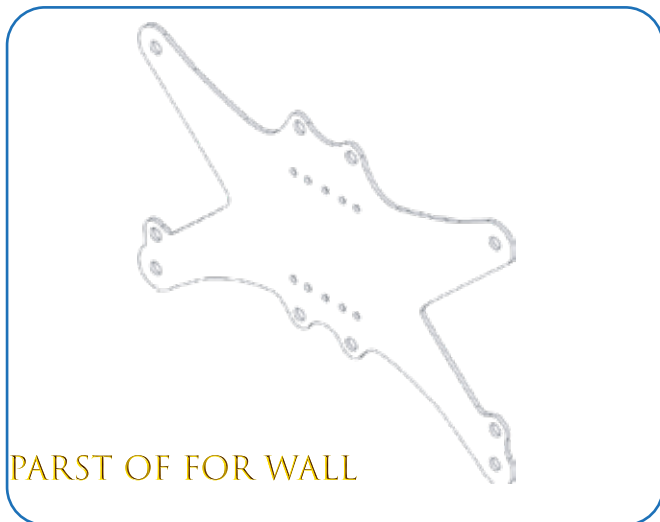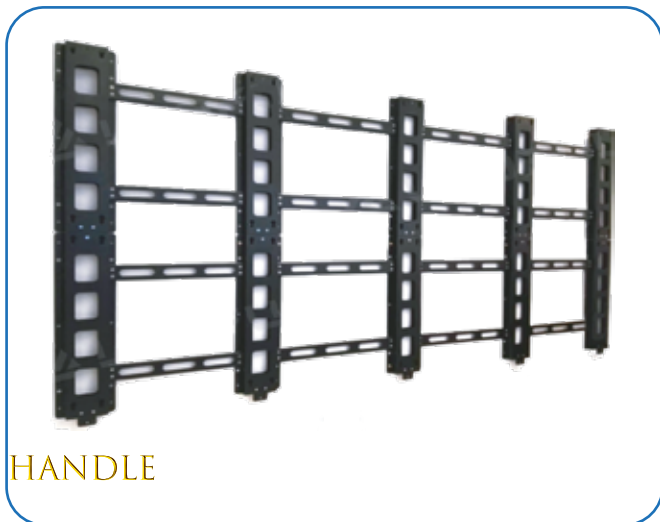
QALITY IN DETAIL

PRODUCT PHOTO

Eternet

USB Disc

Power in

HDMI in

Ultra High Definition

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

QALITY IN DETAIL

SAFETY

CASE

CONNECTION

HANDLE

PARST OF FOR WALL

BALL

HANGING

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

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

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

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

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

INSTALLATION

HANGING

size : 1.920mm

VISION

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

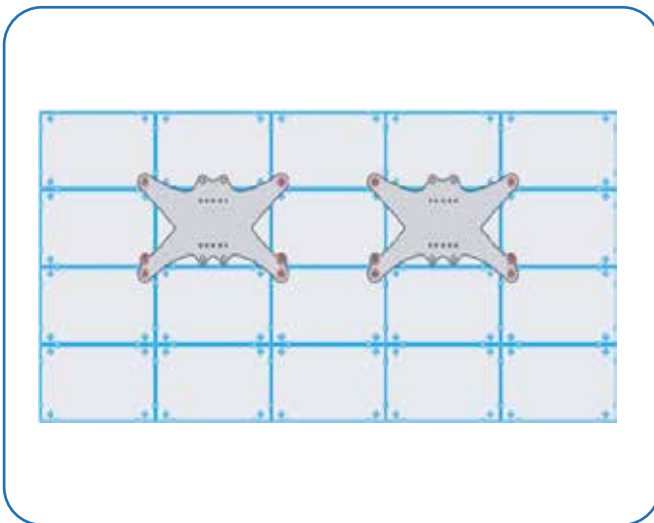Perfect Rendering Dynamic Picture   Smear Ghosting Phenomenon

18 BIT GREY SCALE

AVA LED   Others

VISION

13

AVA LED

www.avaledscreen.com
info@avaledscreen.com

AVA GROUP GMBH

Adress: Seelbachstraße 5, 66687 Wadern, Germany

Phone : +49 211 730 64 817

ISO 9001:2015

CE

CERTIFIED ISO 14001:2015 COMPANY

AVA LED

TK-PRO-IP-3
Data Sheet

INDOOR FRONT SERVICE
POSTER SERIES

TK-PRO-IP-3

01

TITLE OF CONTENTS

QALITY IN DETAIL

FEATURES

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

FEATURES

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

FEATURES

TECHNICAL SPECIFICATION

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	>3840Hz
Weight / m2	<22
Material Brands	
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	Die-Casting Magnesium
Weight Per Panel Net kg.	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)	-
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)	800
Power Consumption (<w/sqm)	560
Average Power Consumption (<w/sqm)	168
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

QALITY IN DETAIL

CABINET SIZE

size : 640mm

size : 1.920mm

27KG.

size : 70mm

885mm

410mm

size : 2.030mm

3 IN 1
129KG.

QALITY IN DETAIL

PRODUCT PHOTO

FRONT SERVICES
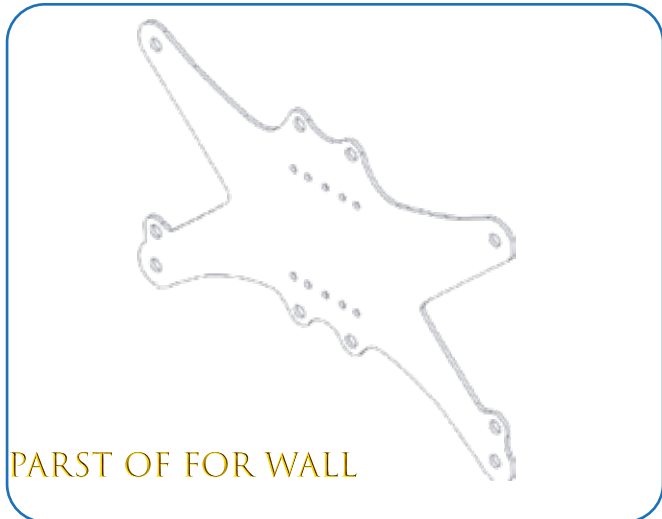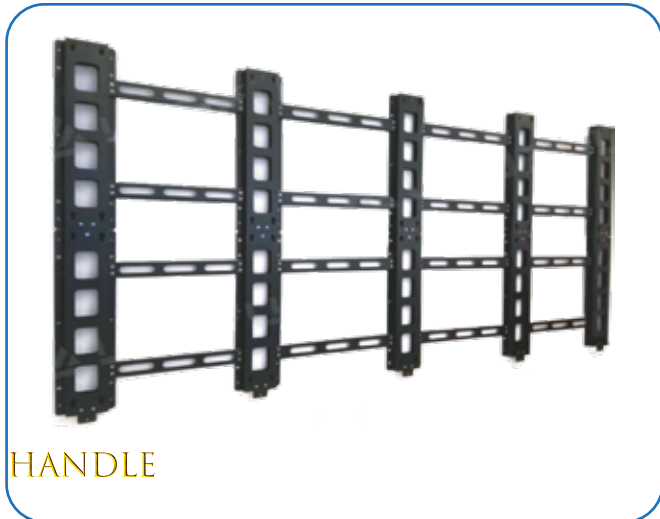
PRODUCT PHOTO

Eternet

USB Disc

Power in

HDMI in

Ultra High Definition

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

SAFETY

CASE

CONNECTION

HANDLE

PARST OF FOR WALL

BALL

HANGING

INSTALLATION

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 : 1.920mm

size : 3.840mm

VISION

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

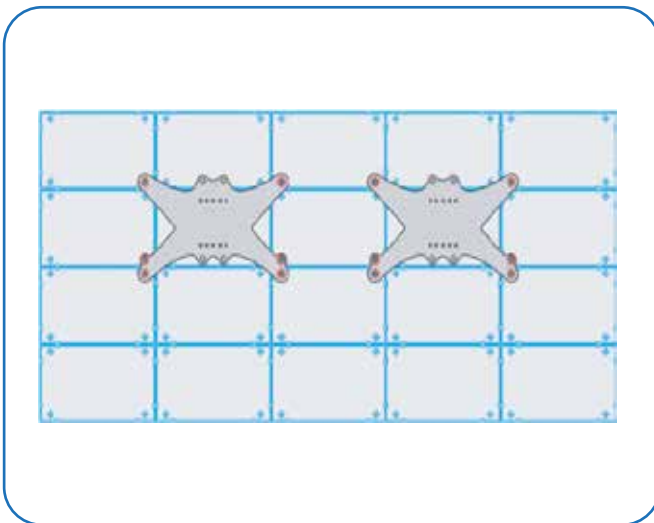Perfect Rendering Dynamic Picture

Smear Ghosting Phenomenon

18 BIT GREY SCALE

AVA LED

Others

VISION

13

AVA LED

www.avaledscreen.com
info@avaledscreen.com

AVA GROUP GMBH

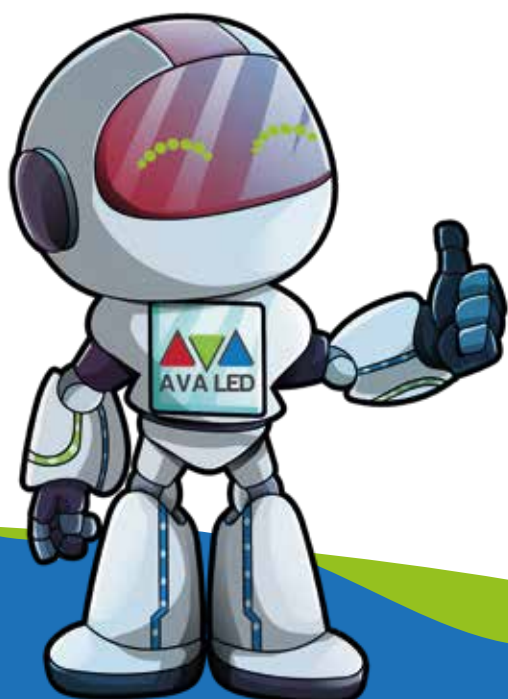Adress: Seelbachstraße 5, 66687 Wadern, Germany

Phone : +49 211 730 64 817

ISO 9001:2015

C E

CERTIFIED ISO 14001:2015 COMPANY

AVA LED

TK-PRO-IP-4
Data Sheet

INDOOR FRONT SERVICE
POSTER SERIES

TK-PRO-IP-4

ISO 9001:2015 C E ISO 14001:2015 CERTIFIED COMPANY

01

TITLE OF CONTENTS

QALITY IN DETAIL

FEATURES

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

FEATURES

TK-PRO-IP 4

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

FEATURES

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

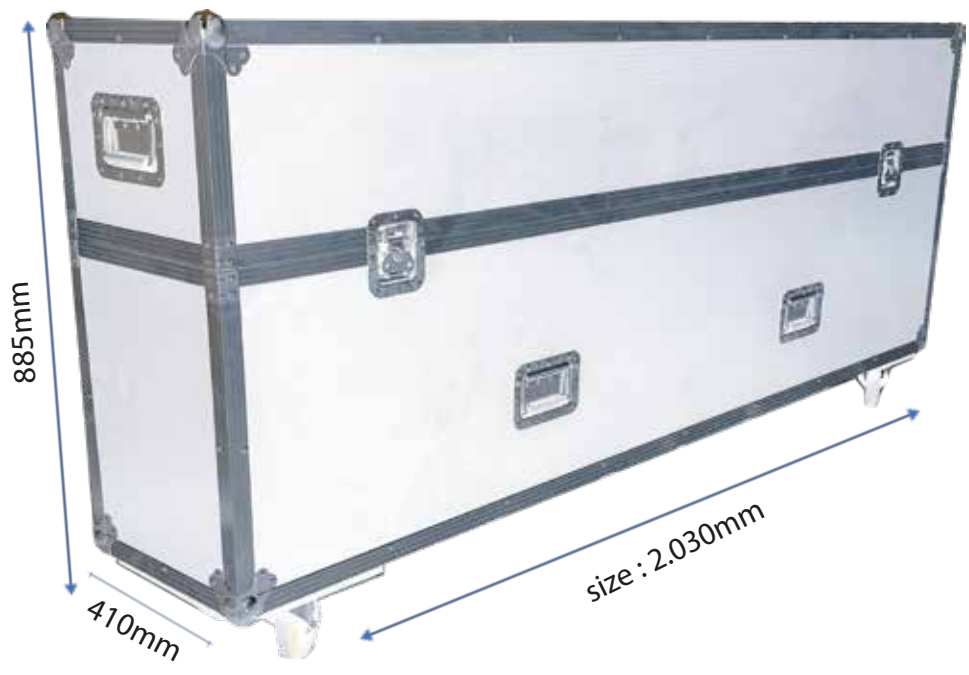| MODEL NAME	TK-PRO-IP-4
Features	:
Series	Pro
Panel installation type	Fix Instalation
Operating Environment	Indoor
Pixel Pitch	4mm
Brightness	>1000 Nits
Refresh Rate	>3840Hz
Weight / m2	<22
Material Brands	
Lamp	Class A
Entegred	Chipone or Smilar
Powersupply	Meanwell or Smilar
Controller	Novastar
Connectors : Seetronic	Seetronic
Module Specifications	:
Pixel Configuration	SMD 2020
LED Chip	Cooper
LED	Space Black
Module Size (mm)	320mm x 160mm
Module Resolution	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.	27
Cabinet Resolution	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	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)	800
Power Consumption (<w/sqm)	550
Average Power Consumption (<w/sqm)	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

QALITY IN DETAIL

CABINET SIZE

size : 640mm

size : 1.920mm

27KG.

size : 70mm

3 IN 1
129KG.

885mm

410mm

size : 2.030mm

QALITY IN DETAIL

PRODUCT PHOTO

FRONT SERVICES

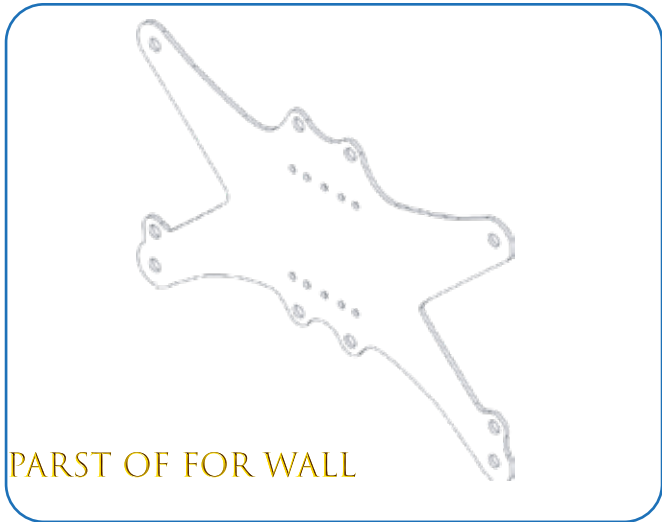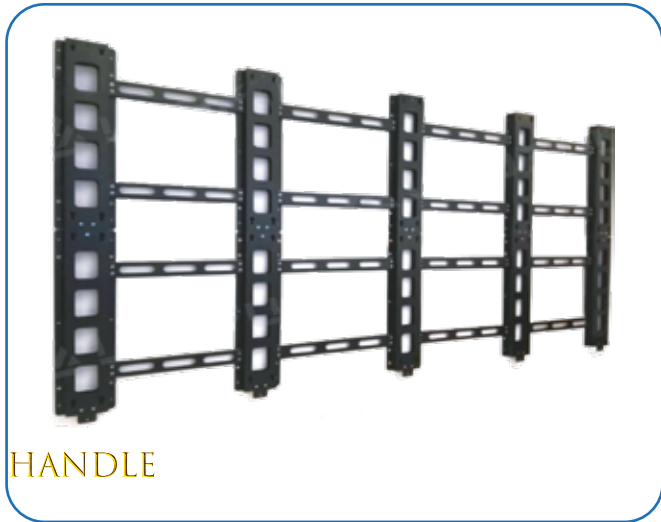**PRODUCTS PHOTO**

Eternet

USB Disc

Power in

HDMI in

Ultra High Definition

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

QALITY IN DETAIL

SAFETY

CASE

CONNECTION

HANDLE

PARST OF FOR WALL

BALL

HANGING

INSTALLLATION

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 : 1.920mm

size : 3.840mm

VISION

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

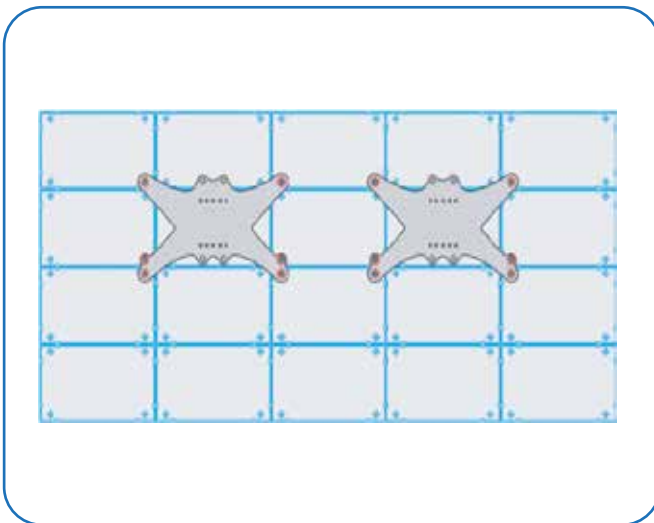Perfect Rendering Dynamic Picture   Smear Ghosting Phenomenon

18 BIT GREY SCALE

AVA LED   Others

VISION

13

AVA LED

www.avaledscreen.com
info@avaledscreen.com

AVA GROUP GMBH

Adress: Seelbachstraße 5, 66687 Wadern, Germany

Phone : +49 211 730 64 817

ISO 9001:2015

CE

CERTIFIED
ISO
14001:2015
COMPANY

AVA LED

TN-OF-4
Data Sheet

OUTDOOR SERIES

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

ISO 9001:2015

CE

ISO 14001:2015 CERTIFIED COMPANY

01

TITLE OF CONTENTS

FEATURES

○   Advanced Contrast Brightness Black technology,

○   Advanced High Refresh Rate,

○   Fast installation of panel to Light Frame,

○   Just Signal person to install/uninstall, saving labor cost

○   Die-Casting Aluminum-Magnesium frame design, fanless design.

○   No noise, lower power consumption, good heat dissipation.

FEATURES

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
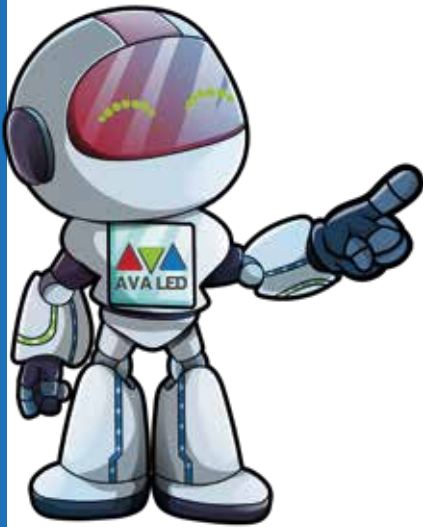
PRODUCT DETAILS

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

○ TECHNICAL SPECIFICATION

PRODUCT DETAILS

MODEL NAME	TN-OF 4	TN-OF 4 PRO
Features		
Series	Standart	Pro
Panel installation type	Fix Instalation	Fix Instalation
Operating Environment	Outdoor	Outdoor
Pixel Pitch	4mm	4mm
Brightness	>5800 Nits	>5800 Nits
Refresh Rate	>1920Hz	>3840Hz
Weight / m2	27,5	27,5
Material Brands		
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		
Driving IC Type	Ordinary	PWM
Refrate Quality 2	Standart Quality	High Refresh
No Waterless Ripple of Camera	>%50	>%75
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)	900	900
Power Consumption (<w/sqm)	780	780
Average Power Consumption (<w/sqm)	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

QALITY IN DETAIL

CABINET SIZE

size : 960mm

size : 105mm

size : 960mm

25KG.

1.030mm

700mm

4 IN 1 - 139KG.

size : 1.150mm

QALITY IN DETAIL

PRODUCT PHOTO

CABINET DETAIL

Power In/Out

Pin

Door Lock

Lock

Ball

Signal In/Out

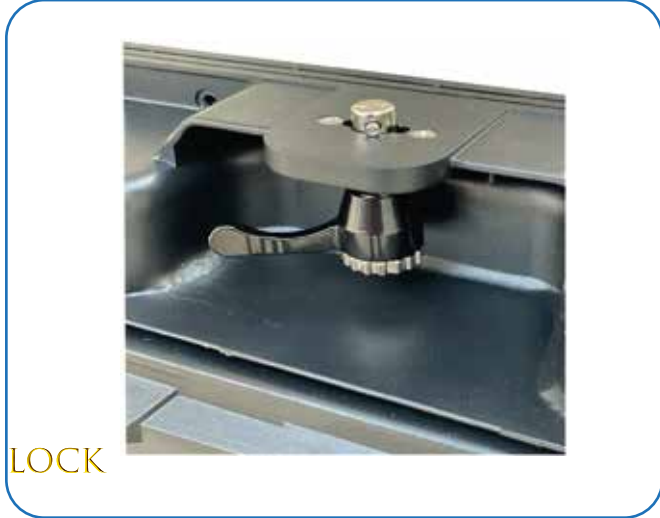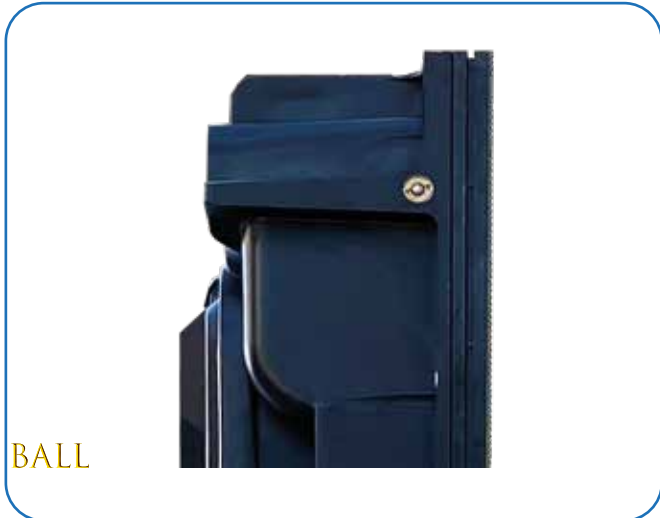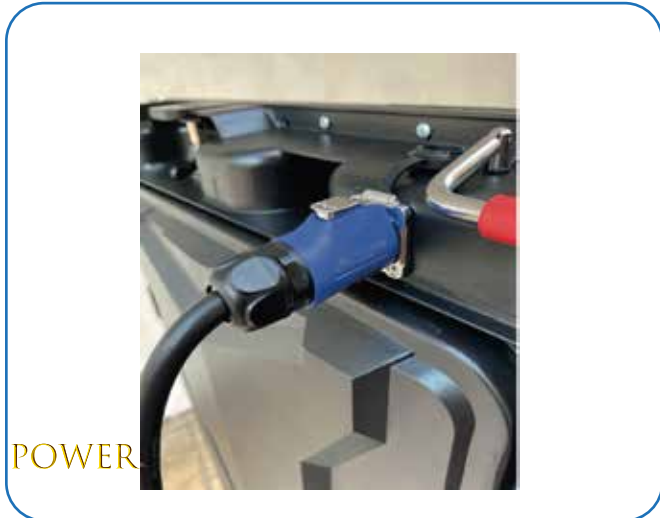size : 4.800mm

size : 2.880mm

SAFETY

CASE

HANDLE

LOCK

BALL

POWER

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

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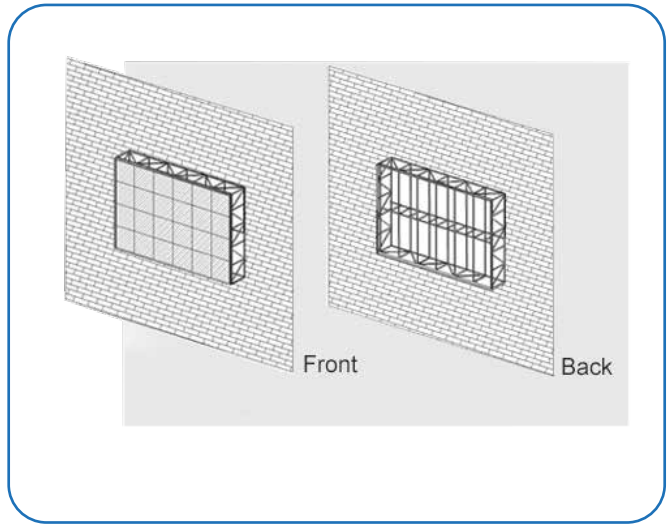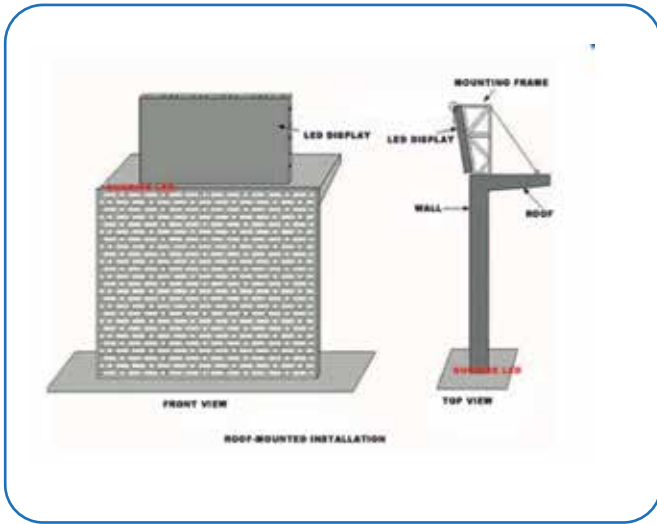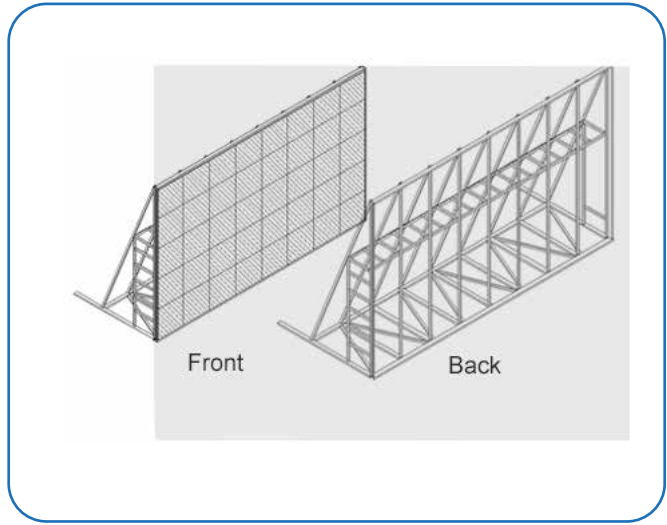
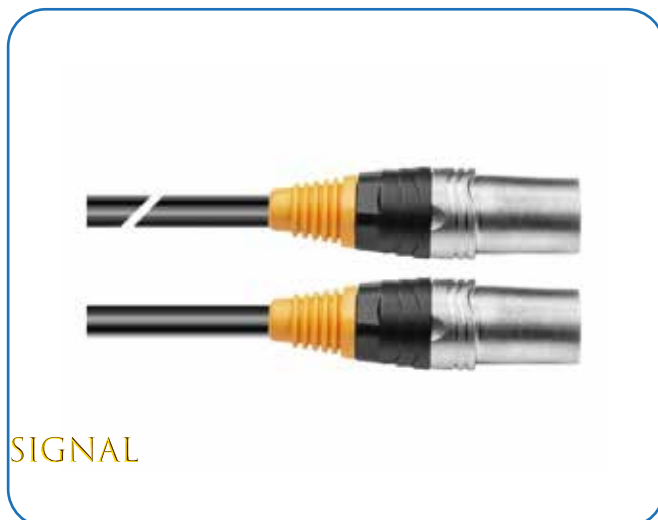Environmental conditions: Humidity, wind, temperatures, rain, snow etc.

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.

INSTALLLATION

HANGING

size : 2.880mm

size : 3.840mm

INSTALLLATION

Front   Back

Front   Back

ACCESSORIES

FLY BAR

960mm

CASE

POWER

SIGNAL

NEUTRIK

CNLINKO

SEETRONIC

END

AVA LED

www.avaledscreen.com
info@avaledscreen.com

AVA GROUP GMBH

Adress: Goethestraße 7D - 40237 Düsseldorf / Germany

Phone : +49 211 730 64 817

ISO 9001:2015

CE

CERTIFIED ISO 14001:2015 COMPANY

AVA LED

TN-OF-5
Data Sheet

TN FIX SERIES OTHER MODELS

OUTDOOR SERIES

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

ISO 9001:2015 **C E** **ISO 14001:2015 CERTIFIED COMPANY**

01

TITLE OF CONTENTS

FEATURES

- 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.

FEATURES

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

PRODUCT DETAILS

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

TECHNICAL SPECIFICATION

PRODUCT DETAILS

MODEL NAME	TN-OF 5	TN-OF 5 PRO
Features		
Series	Standart	Pro
Panel installation type	Fix Instalation	Fix Instalation
Operating Environment	Outdoor	Outdoor
Pixel Pitch	5mm	5mm
Brightness	>6000 Nits	>6300 Nits
Refresh Rate	>1920Hz	>3840Hz
Weight / m2	27,5	27,5
Material Brands		
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		
Driving IC Type	Ordinary	PWM
Refrate Quality 2	Standart Quality	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	-	"
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)	900	900
Power Consumption (<w/sqm)	750	750
Average Power Consumption (<w/sqm)	300	300
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	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-EUR1 ISO-9001:2015 ISO-14001:2015

CABINET SIZE
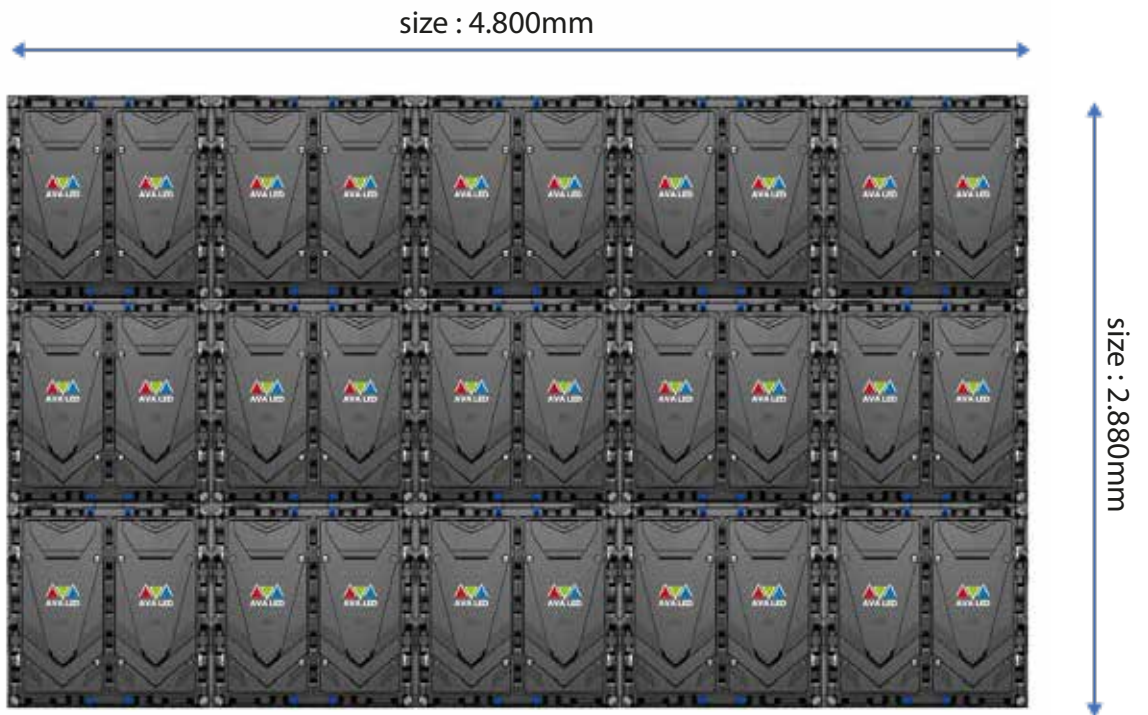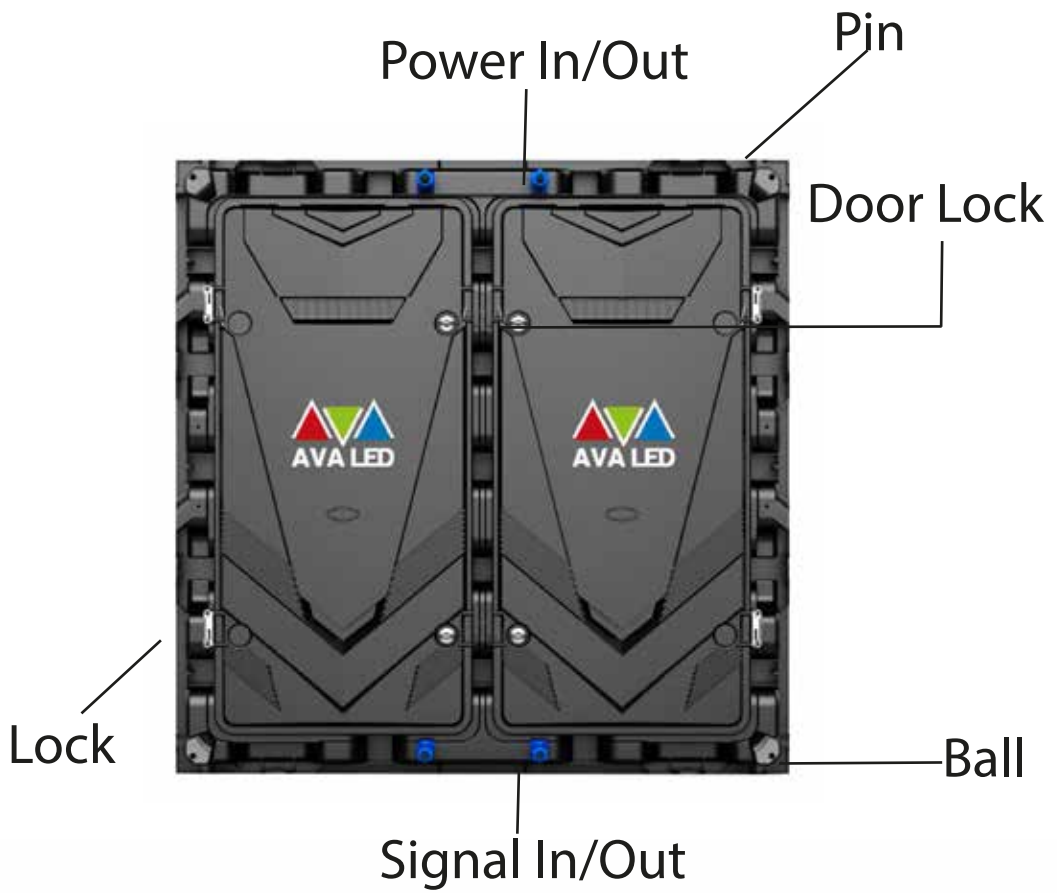
size : 960mm

size : 105mm

size : 960mm

25KG.

1.030mm

700mm

4 IN 1 - 139KG.

size : 1.150mm

QALITY IN DETAIL

PRODUCT PHOTO

CABINET DETAIL

Power In/Out

Pin

Door Lock

Lock

Ball

Signal In/Out

size : 4.800mm

size : 2.880mm

SAFETY

CASE

HANDLE

LOCK

BALL

POWER

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

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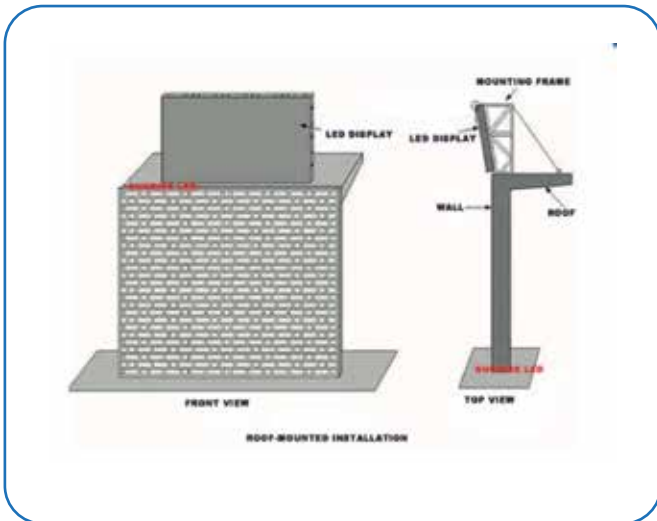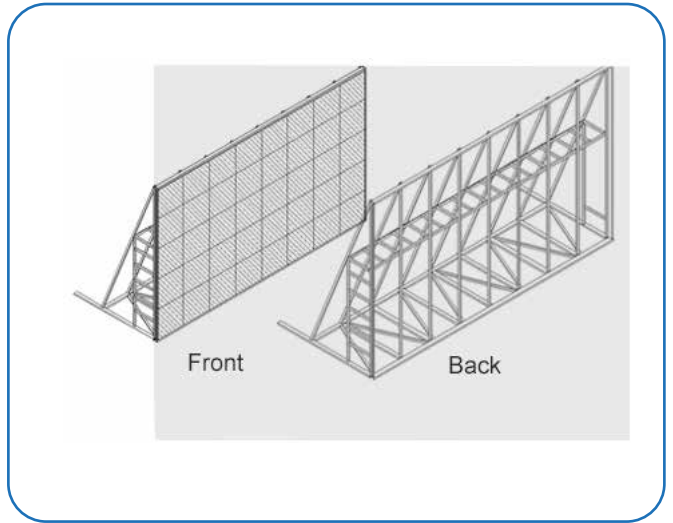
Environmental conditions: Humidity, wind, temperatures, rain, snow etc.

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.

INSTALLLATION

HANGING

size : 2.880mm

size : 3.840mm

INSTALLLATION

Front   Back

LED DISPLAY   MOUNTING FRAME

LED DISPLAY

WALL   ROOF

FRONT VIEW   TOP VIEW

ROOF-MOUNTED INSTALLATION

Front   Back

ACCESSORIES

FLY BAR

960mm

CASE

POWER

SIGNAL

NEUTRIK®

CNLINKO®

SEETRONIC

13

AVA LED

www.avaledscreen.com
info@avaledscreen.com

AVA GROUP GMBH

Adress: Seelbachstraße 5, 66687 Wadern, Germany

Phone : +49 211 730 64 817

END

ISO
9001:2015

CE

CERTIFIED
ISO
14001:2015
COMPANY

QALITY IN DETAIL

AVA LED

TN-OF-6
Data Sheet

TN FIX SERIES OTHER MODELS

OUTDOOR SERIES

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

ISO 9001:2015   C E   ISO CERTIFIED 14001:2015 COMPANY

01

FEATURES

- ○ Advanced Contrast Brightness Black technology,

- ○ Advanced High Refresh Rate,

- ○ Fast installation of panel to Light Frame,

- ○ Just Signal person to install/uninstall, saving labor cost

- ○ Die-Casting Aluminum-Magnesium frame design, fanless design.

- ○ No noise, lower power consumption, good heat dissipation.

FEATURES

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
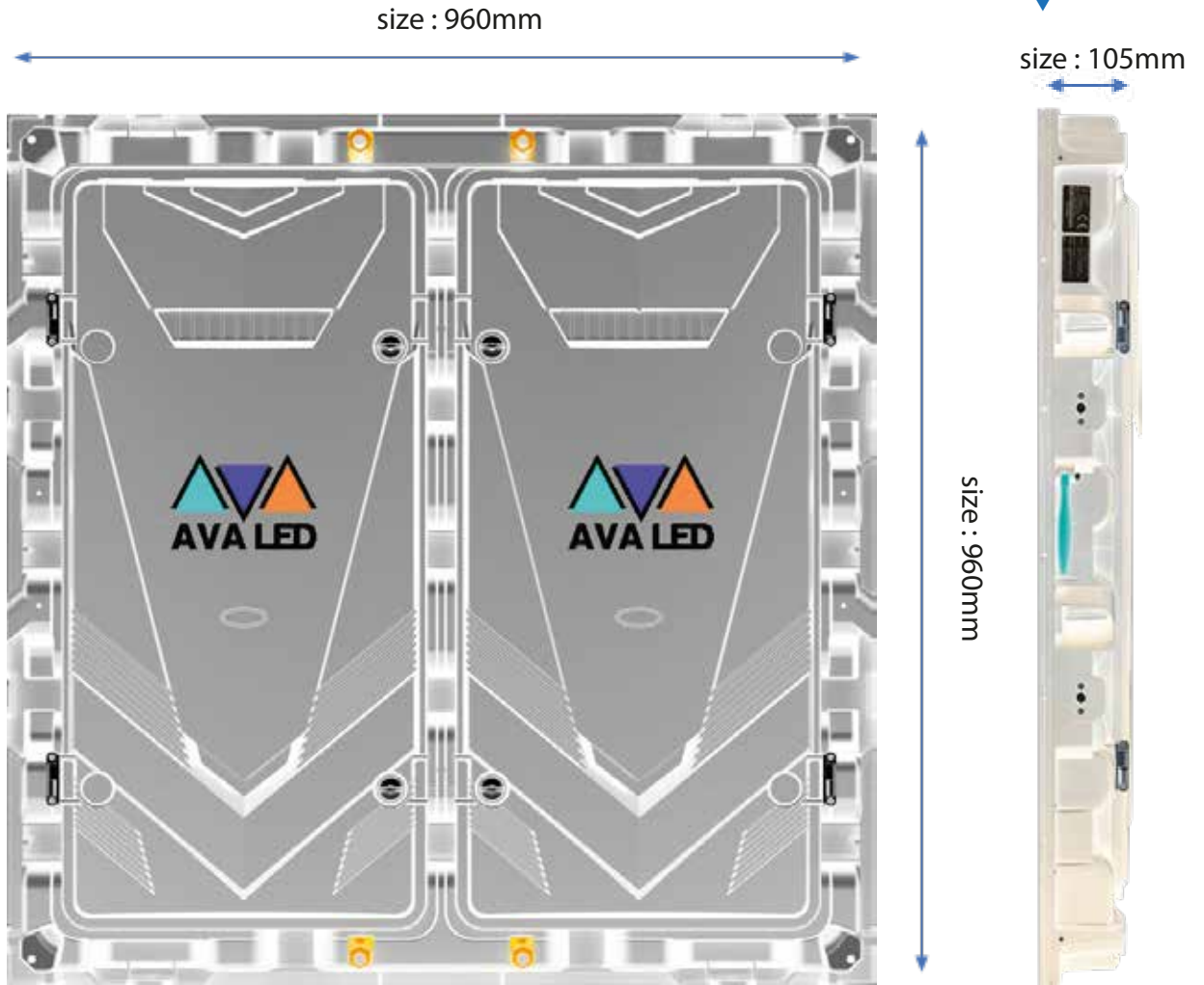- Free Rotation
- HDR
- 4K Refresh Rate

PRODUCT DETAILS

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

TECHNICAL SPECIFICATION

PRODUCT DETAILS

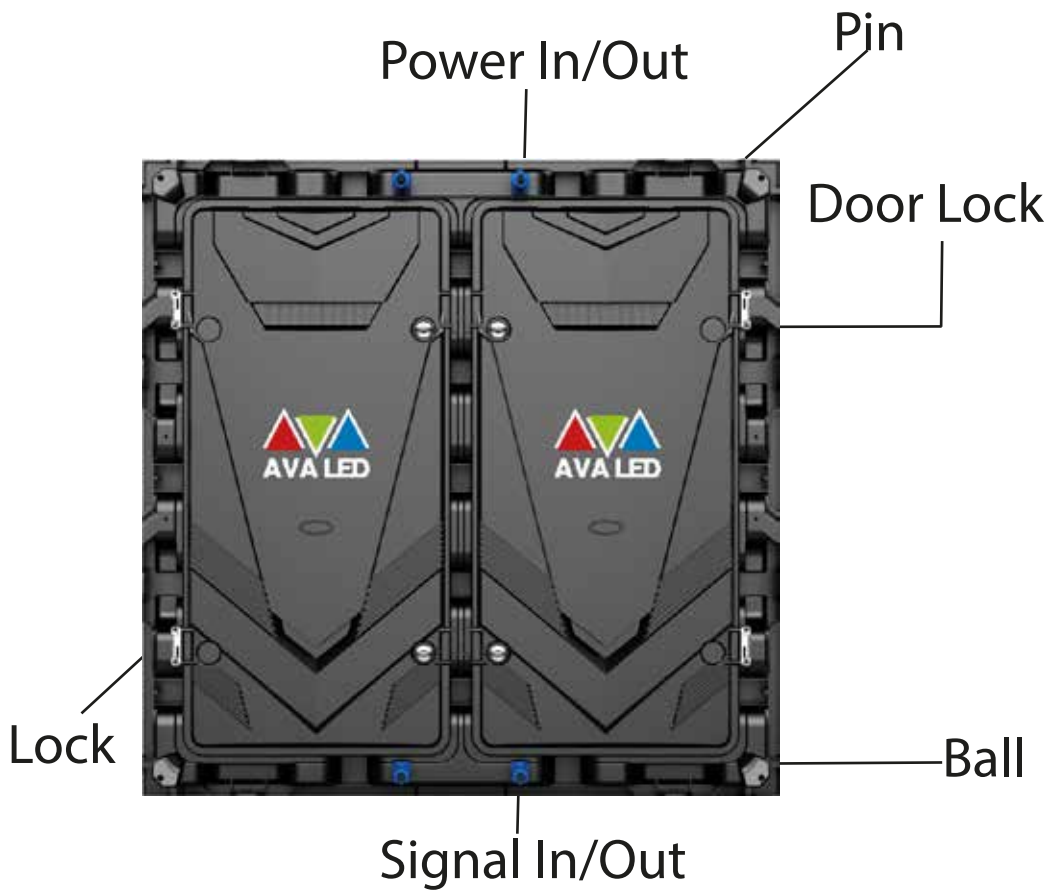| MODEL NAME Version	TN-OF 6	TN-OF 6 PRO	TN-OF 6 PLUS
Pixel Pitch	6,666mm	6,666mm	6,666mm
Pixel Configuration	SMD 2727	SMD 2727	SMD 2727
LED	Black Shell	Black Shell	Black Shell
Processing	16 Bit	16 Bit	-
Processing	-	-	18 Bit
Pixel Density / m2	22500	22500	22500
Resolution/SQM	150 x 150	150 x 150	
Cabinet Resolution 960 x 960	144 x 144	144 x 144	
Pixel Density / Cabinet	20736	20736	
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	◯	◯	✓
Free Rotation (with R5)	◯	◯	✓
Mapping	◯	◯	✓
Clear View	◯	◯	✓
Low Latency	◯	◯	✓
HDR	◯	◯	✓
Power Consumption (<w/sqm)	760	760	760
Average Power Consumption (<w/sqm)	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℃～+60℃,10%-90%RH	-40℃～+60℃,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
Certificate	CE/EMC/LVD-ATR-EUR1 ISO-9001:2015 ISO-14001:2015	CE/EMC/LVD-ATR-EUR1 ISO-9001:2015 ISO-14001:2015	CE/EMC/LVD-ATR-EUR1 ISO-9001:2015 ISO-14001:2015

CABINET SIZE

size : 960mm

size : 105mm

size : 960mm

25KG.

1.030mm

700mm

4 IN 1 - 139KG.

size : 1.150mm

QALITY IN DETAIL

PRODUCT PHOTO

CABINET DETAIL

Power In/Out

Pin

Door Lock

Lock

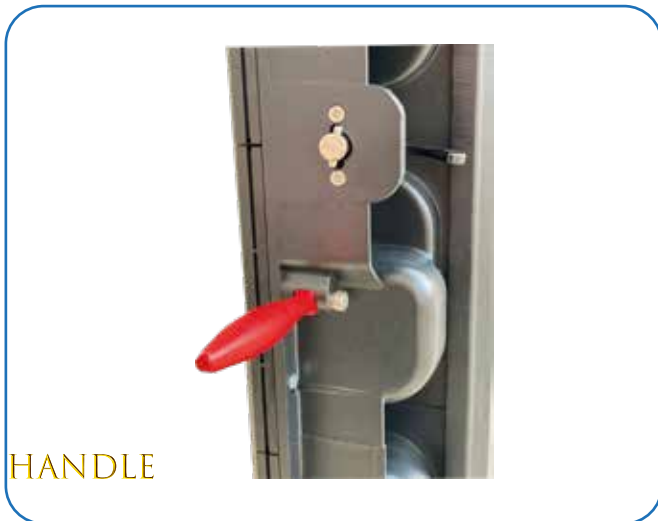Ball

Signal In/Out

size : 4.800mm
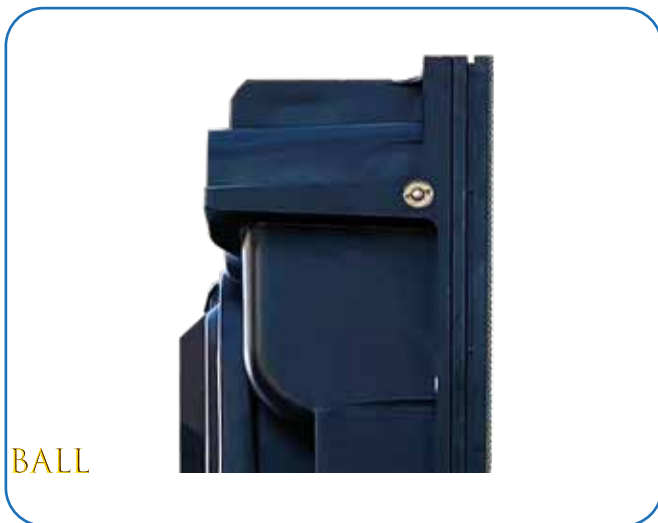
size : 2.880mm

QALITY IN DETAIL

SAFETY

CASE

HANDLE

LOCK

BALL

POWER

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

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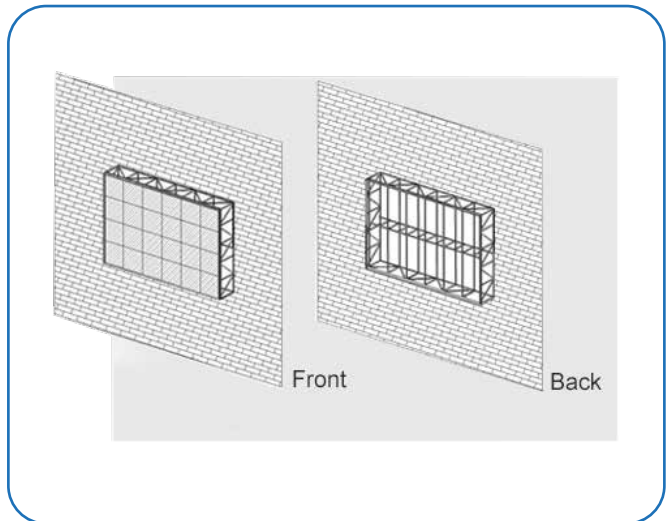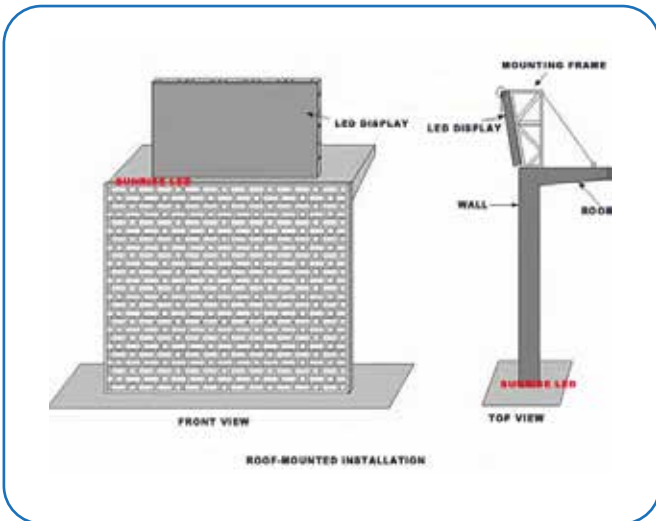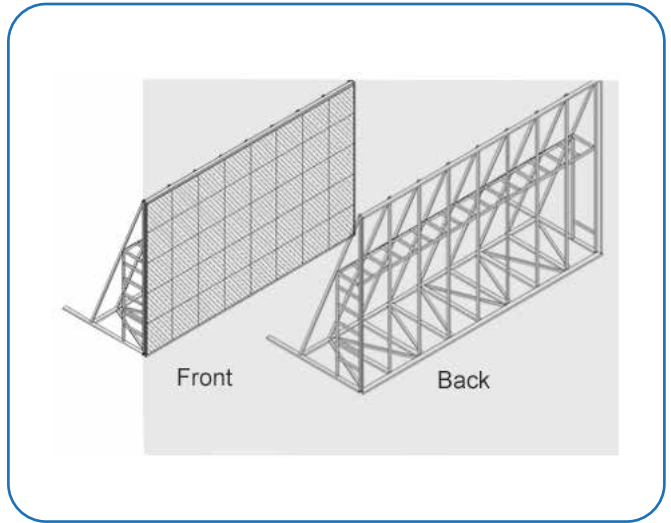
Environmental conditions: Humidity, wind, temperatures, rain, snow etc.

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.

INSTALLLATION

HANGING

size : 2.880mm

size : 3.840mm

INSTALLATION

Front   Back

MOUNTING FRAME

LED DISPLAY   LED DISPLAY

WALL

ROOR

FRONT VIEW

TOP VIEW

ROOF-MOUNTED INSTALLATION

Front   Back

ACCESSORIES

FLY BAR

CASE

POWER

SIGNAL

NEUTRIK

CNLINKO

SEETRONIC

AVA LED

www.avaledscreen.com
info@avaledscreen.com

AVA GROUP GMBH

Adress: Goethestraße 7D - 40237 Düsseldorf / Germany

Phone : +49 211 730 64 817

AVA LED

TN-OF-8
Data Sheet

TN FIX SERIES OTHER MODELS

OUTDOOR SERIES

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

01

TITLE OF CONTENTS

FEATURES

○ Advanced Contrast Brightness Black technology,

○ Advanced High Refresh Rate,

○ Fast installation of panel to Light Frame,

○ Just Signal person to install/uninstall, saving labor cost

○ Die-Casting Aluminum-Magnesium frame design, fanless design.

○ No noise, lower power consumption, good heat dissipation.

FEATURES

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

PRODUCT DETAILS

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

○   TECHNICAL SPECIFICATION

MODEL NAME	TN-OF 8	TN-OF 8 PRO
Features		
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		
Lamp	Class A	Class A
Entegred	Chipone	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	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	120 x 120	120 x 120
Pixel Density / Cabinet	14400	14400
IP Rating	Back IP54 / Front IP67	Back IP54 / Front IP67
Others Specifications		
Driving IC Type	Ordinary	-
Refrate Quality 2	Standart Quality	High Refresh
No Waterless Ripple of Camera	>%50	>%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)	900	900
Power Consumption (<w/sqm)	750	750
Average Power Consumption (<w/sqm)	300	300
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	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-EUR1 ISO-9001:2015 ISO-14001:2015

PRODUCT DETAILS

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

CABINET SIZE

size : 960mm

size : 105mm

size : 960mm

25KG.

1.030mm

700mm

4 IN 1 - 139KG.

size : 1.150mm

QALITY IN DETAIL

PRODUCT PHOTO

CABINET DETAIL

Power In/Out

Pin

Door Lock

Lock

Ball

Signal In/Out

size : 4.800mm
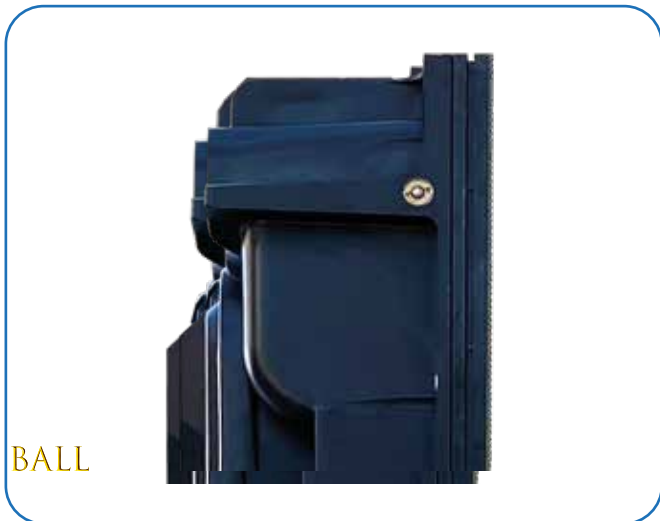
size : 2.880mm

QALITY IN DETAIL

SAFETY

CASE

HANDLE

LOCK

BALL

POWER

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

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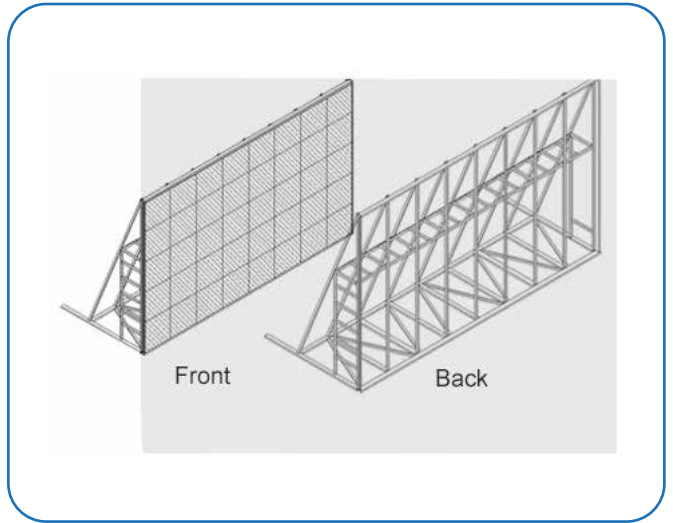
Environmental conditions: Humidity, wind, temperatures, rain, snow etc.

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.

INSTALLLATION

HANGING

size : 2.880mm

size : 3.840mm

INSTALLLATION

Front   Back

Front   Back

ACCESSORIES

FLY BAR

960mm

CASE

POWER

SIGNAL

NEUTRIK

CNLINKO

SEETRONIC

AVA LED

TN-OF-10
Data Sheet

TN FIX SERIES OTHER MODELS

OUTDOOR SERIES

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

ISO 9001:2015

C E

ISO 14001:2015 CERTIFIED COMPANY

01

TITLE OF CONTENTS

QALITY IN DETAIL

FEATURES

○ Advanced Contrast Brightness Black technology,

○ Advanced High Refresh Rate,

○ Fast installation of panel to Light Frame,

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○ Die-Casting Aluminum-Magnesium frame design, fanless design.

○ 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

PRODUCT DETAILS

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

PRODUCT DETAILS

MODEL NAME	TN-OF-10	TN-OF-10 PRO	TN-OF 10 Plus
Features			
Series	Standart	Pro	Plus
Panel installation type	Fix Instalation	Fix Instalation	Fix Instalation
Operating Environment	Outdoor	Outdoor	Outdoor
Pixel Pitch	10mm	10mm	10mm
Brightness	>6500 Nits	>7000 Nits	>7200 Nits
Refresh Rate	>1920Hz	>3840Hz	>3840Hz
Weight / m2	27,5	27,5	27,5
Material Brands			
Lamp	Class A	Class A	Class A
Entegred	Chipone	Chipone	Chipone
Powersupply	Meanwell	Meanwell	Meanwell
Controller	Novastar	Novastar	Novastar
Connectors : Seetronic	Seetronic	Seetronic	Seetronic
Module Specifications			
Pixel Configuration	SMD 3535	SMD 3535	SMD 3535
LED Chip	Cooper	Cooper	Cooper
LED	Black Shell	Black Shell	Black Shell
Module Size (mm)	320x160	320x160	320x160
Module Resolution	32 x 16	32 x 16	32 x 16
Processing	>14-16 Bit	>14-16 Bit	>16-18 Bit
PCB Quality	Best Quality	Best Quality	Best Quality
Module - Mask Quality	Best Quality	Best Quality	Best Quality
Picture / Video Quality	High Quality	High Quality	Best Quality
Grey Scale	>65536	>65536	>262144
Cabinet Specifications			
Module Per Cabinet	18 MODULE	18 MODULE	18 MODULE
Cabinet Size (mm)	960 x 960 x 105	960 x 960 x 105	960 x 960 x 105
Cabinet Material	Die-Casting Magnesium	Die-Casting Magnesium	Die-Casting Magnesium
Weight Per Panel Net kg.	25	25	25
Cabinet Resolution	96 x 96	96 x 96	96 x 96
Pixel Density / Cabinet	9216	9216	9216
IP Rating	Back IP54 / Front IP67	Back IP54 / Front IP67	Back IP54 / Front IP67
Others Specifications			
Driving IC Type	-	-	PWM
Refrate Quality 2	High Refresh	High Refresh	4K Refresh Rate
No Waterless Ripple of Camera	>%50	>%75	>%90
Driving Method " Scan "	1/2	1/2	1/2
Resolution/SQM	100 x 100	100 x 100	100 x 100
Pixel Density / m2	10000	10000	10000
White Color Calibration (Adj.)	3.500K~8.500K	3.500K~8.500K	3.500K~8.500K
Horizontal Viewing Angle	140 (±30)	140 (±30)	140 (±30)
Vertical Viewing Angle	140 (±30)	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	High Quality	High Quality	Best Quality
High Refresh (PLL inside)	-	-	!
High Refresh Power Saving	!	!	!
High Refresh Dynamic Power Saving	-	-	!
Expected LED Lifetime %50	>100,000 Hours	>100,000 Hours	>100,000 Hours
Operating Temperature Range	-15 – +45 (±10)	-15 – +45 (±10)	-15 – +45 (±10)
Operating Humidity Range	-40" # +60" ,10%-90%RH	-40" # +60" ,10%-90%RH	-40" # +60" ,10%-90%RH
Power on Time (<w/sqm)	900	900	900
Power Consumption (<w/sqm)	800	800	800
Average Power Consumption (<w/sqm)	320	320	320
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
Usage Area	Auditorium, Concert Area , Advertisement, Shopping Center, Scoreboard & Totem	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-EUR1 ISO-9001:2015 ISO-14001:2015	CE/EMC/LVD-ATR-EUR1 ISO-9001:2015 ISO-14001:2015

QALITY IN DETAIL

CABINET SIZE

size : 960mm

size : 105mm

size : 960mm

25KG.

4 IN 1 - 139KG.

1.030mm

700mm

size : 1.150mm

QALITY IN DETAIL

PRODUCT PHOTO

CABINET DETAIL

Power In/Out

Pin

Door Lock

Lock

Ball

Signal In/Out

size : 4.800mm

size : 2.880mm

SAFETY

CASE

HANDLE

LOCK

BALL

POWER

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

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

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

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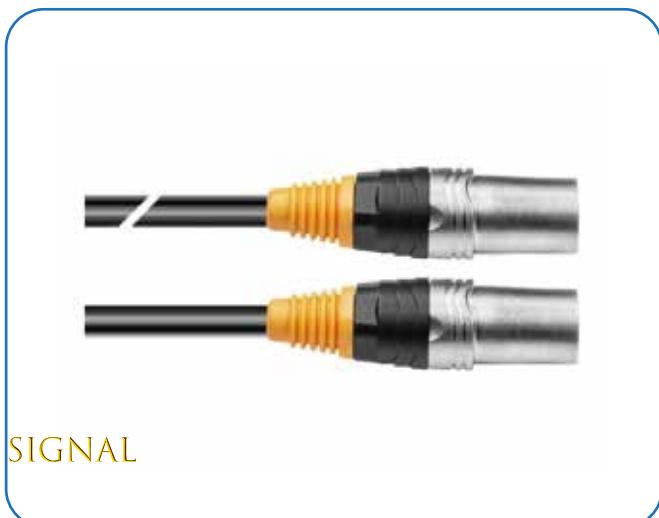
INSTALLATION

HANGING

size : 2.880mm

size : 3.840mm

INSTALLLATION

Front   Back

MOUNTING FRAME

LED DISPLAY   LED DISPLAY

WALL   ROOF

FRONT VIEW   TOP VIEW

ROOF-MOUNTED INSTALLATION

Front   Back

AVA LED

AVA LED

ACCESSORIES

FLY BAR

960mm

CASE

POWER

SIGNAL

NEUTRIK

CNLINKO

SEETRONIC

AVA LED

TN-PRO-IF-1

P1,86

Data Sheet

INDOOR FRONT SERVICE SERIES

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

ISO 9001:2015 CE ISO 14001:2015 CERTIFIED COMPANY

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FEATURES

○ Advanced Contrast Brightness Black technology,

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○ No noise, lower power consumption, good heat dissipation.

FEATURES

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

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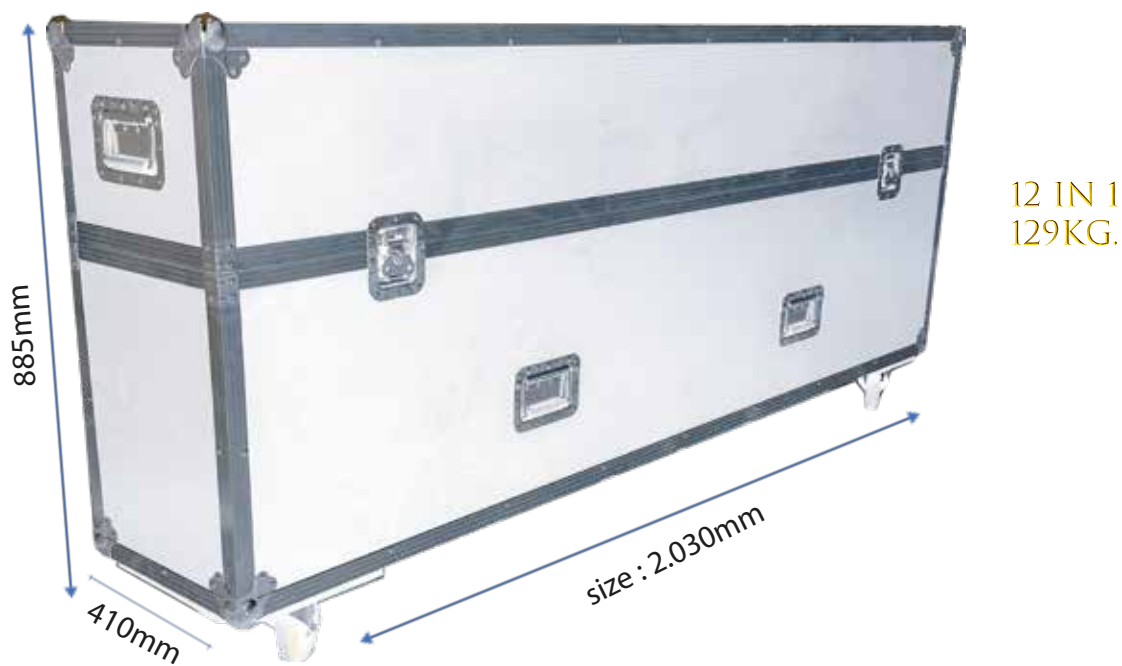- · A Class Led Chip
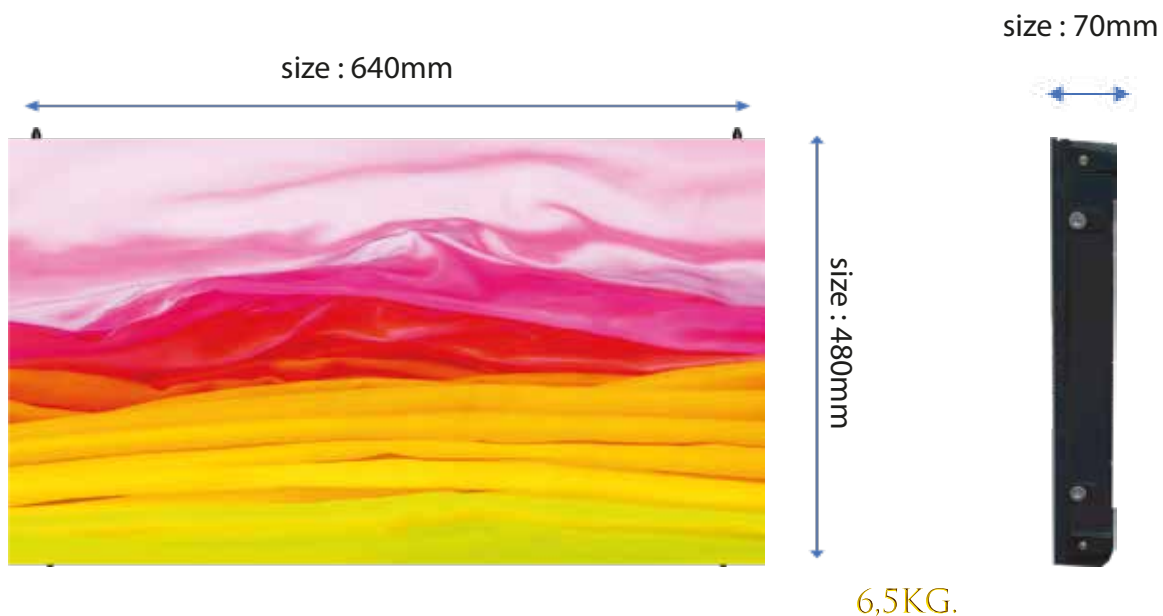- · High Quality PCB
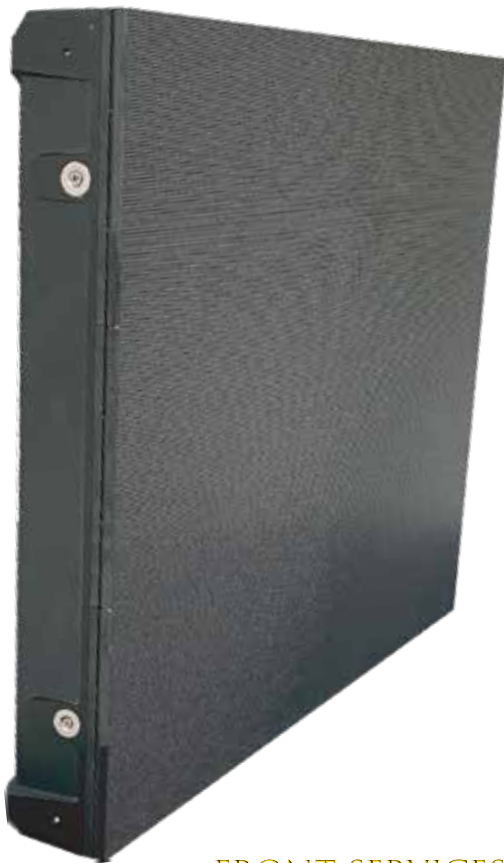- · High Quality MASK
- · Rotation 90 Degree

FEATURES

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

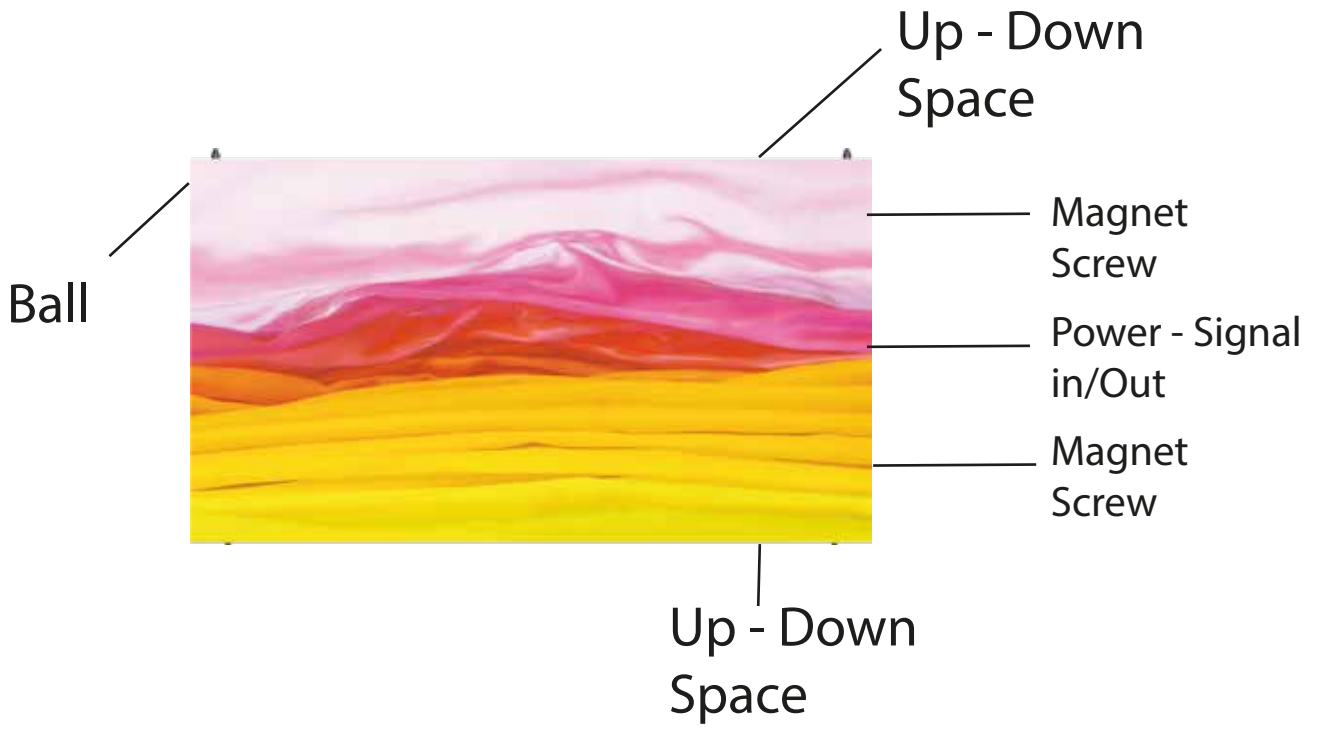| MODEL NAME	TN-PRO-IF-1 "P1,86"
Features	:
Series	Pro
Panel installation type	Fix Instalation
Operating Environment	Indoor
Pixel Pitch	1,86mm
Brightness	>800 Nits
Refresh Rate	>3840Hz
Weight / m2	<21
Material Brands	
Lamp	Class A
Entegred	Chipone
Powersupply	Meanwell
Controller	Novastar
Connectors : 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	>%75
Driving Method " Scan "	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)	600
Power Consumption (<w/sqm)	530
Average Power Consumption (<w/sqm)	159
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

QALITY IN DETAIL

CABINET SIZE

size : 640mm

size : 480mm

size : 70mm

6,5KG.

885mm

410mm

size : 2.030mm

12 IN 1
129KG.

PRODUCT PHOTO

FRONT SERVICES

QALITY IN DETAIL

PRODUCTS PHOTO

Up - Down Space

Ball

Magnet Screw

Power - Signal in/Out

Magnet Screw

Up - Down Space

Ultra High Definition

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

SAFETY

CASE

CONNECTION

HANDLE

PARST OF FOR WALL

FBALL

FLY BAR

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 : 2.880mm

size : 3.840mm

INSTALLATION

VISION

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

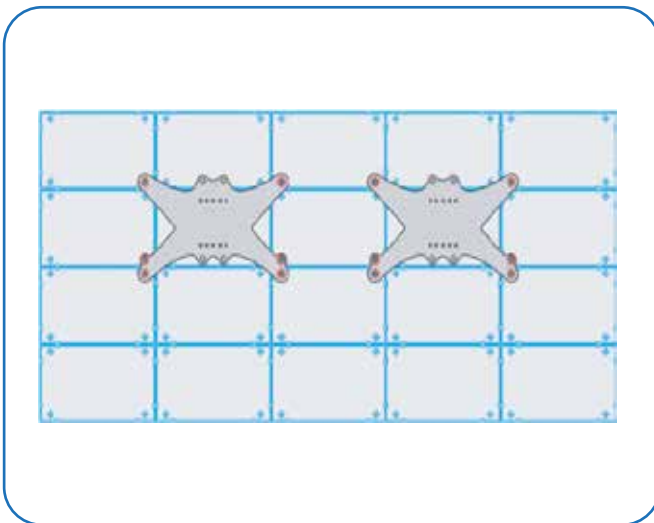Perfect Rendering Dynamic Picture   Smear Ghosting Phenomenon

18 BIT GREY SCALE

AVA LED   Others

VISION

AVA LED

TN-PRO-IF-2
Data Sheet

INDOOR FRONT SERVICE SERIES

TN-PRO-IF-2

ISO 9001:2015

CE

ISO 14001:2015 CERTIFIED COMPANY

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QALITY IN DETAIL

FEATURES

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FEATURES

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

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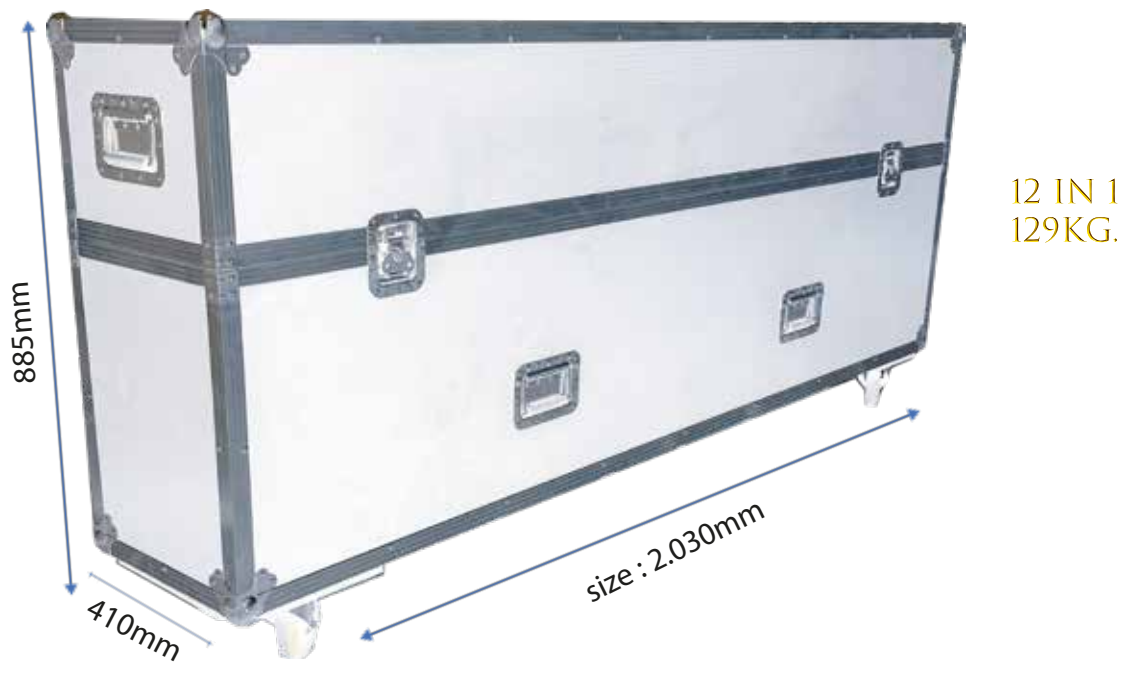- · High Quality PCB
- · High Quality MASK
- · Rotation 90 Degree
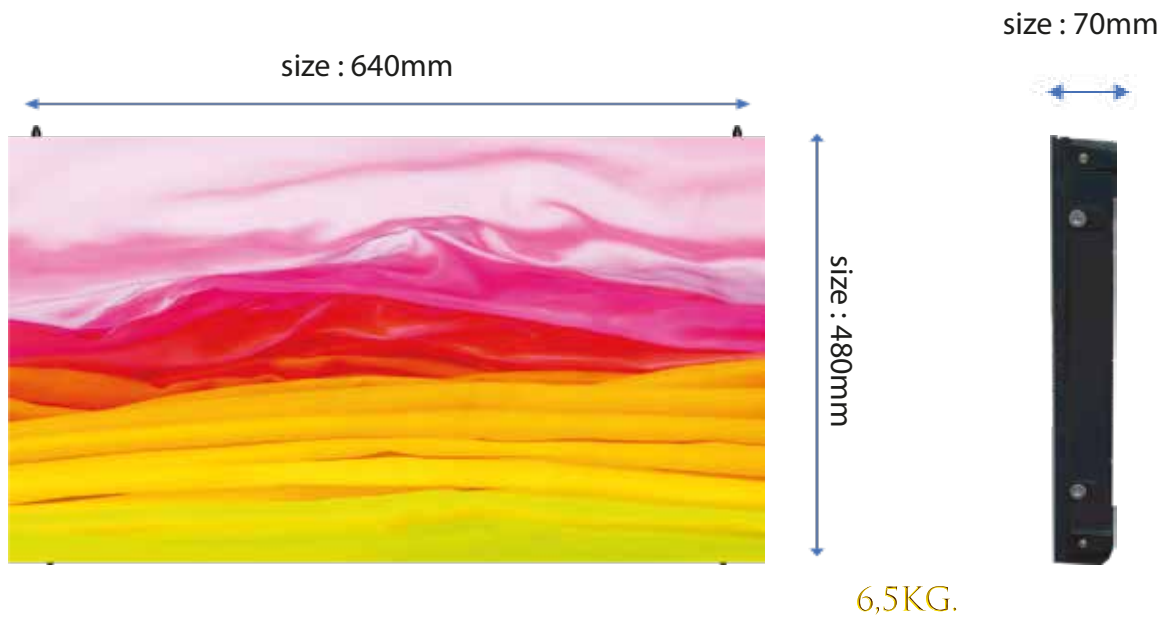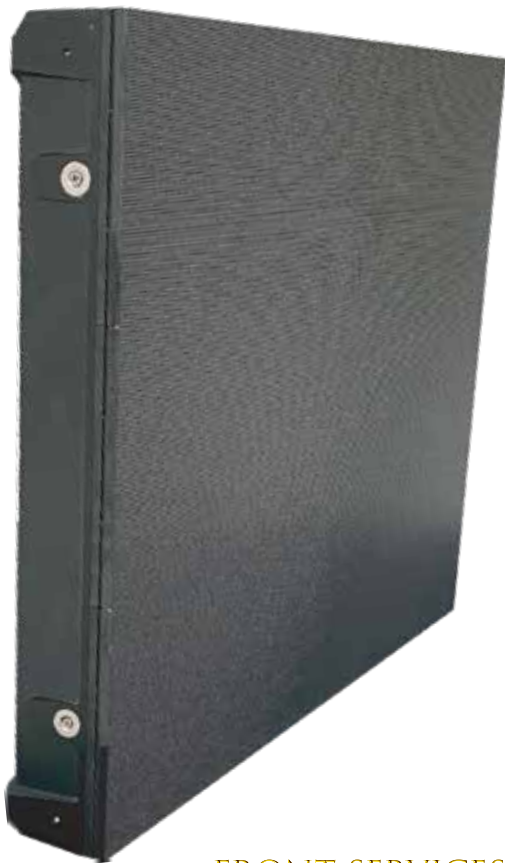
FEATURES

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

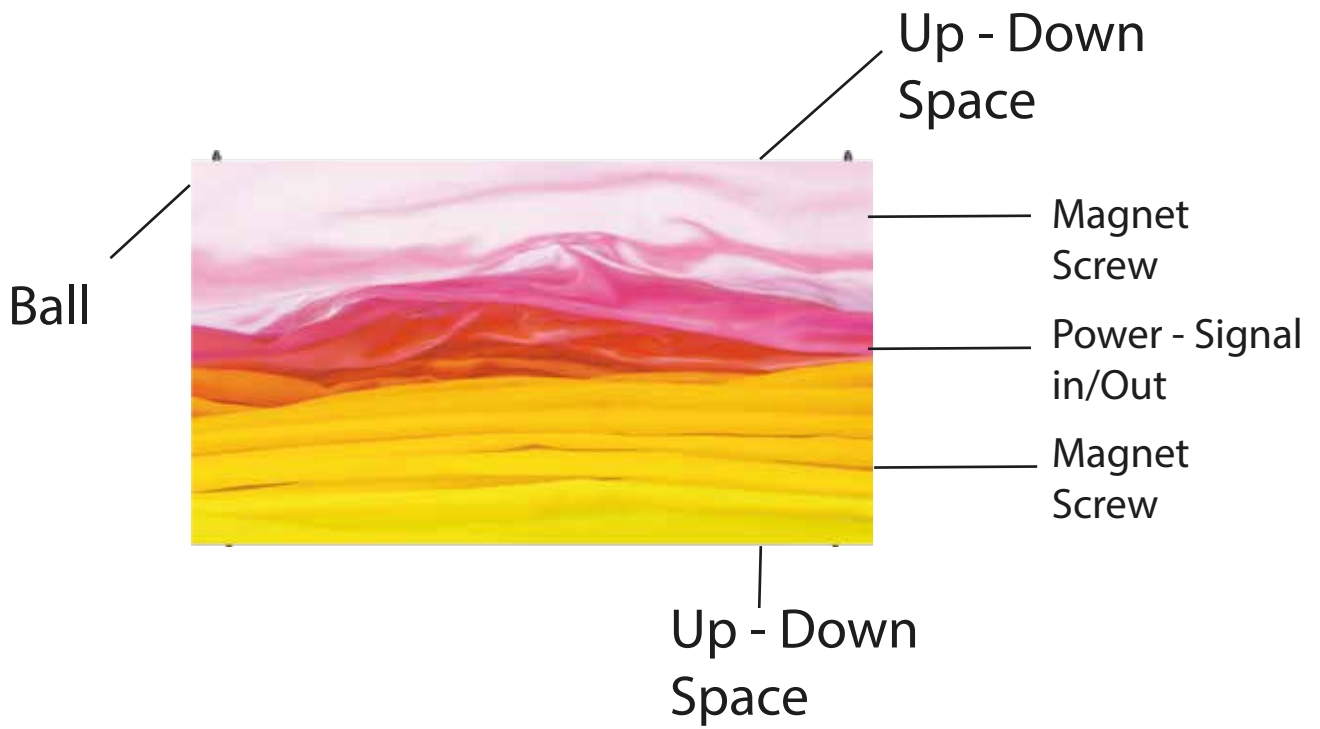| MODEL NAME	TN-PRO-IF-2
Features	:
Series	Pro
Panel installation type	Fix Instalation
Operating Environment	Indoor
Pixel Pitch	2mm
Brightness	>800 Nits
Refresh Rate	>3840Hz
Weight / m2	<21
Material Brands	
Lamp	Class A
Entegred	Chipone
Powersupply	Meanwell
Controller	Novastar
Connectors : Seetronic	Seetronic
Module Specifications	:
Pixel Configuration	SMD 1515
LED Chip	Cooper
LED	Space Black
Module Size (mm)	320mm x 160mm
Module Resolution	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.	6,5
Cabinet Resolution	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	250000
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)	600
Power Consumption (<w/sqm)	450
Average Power Consumption (<w/sqm)	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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QALITY IN DETAIL

CABINET SIZE

size : 640mm

size : 480mm

size : 70mm

6,5KG.

885mm

410mm

size : 2.030mm

12 IN 1
129KG.

PRODUCT PHOTO

FRONT SERVICES

QALITY IN DETAIL

PRODUCT PHOTO

Up - Down Space

Ball

Magnet Screw

Power - Signal in/Out

Magnet Screw

Up - Down Space

Ultra High Definition

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SAFETY

CASE

CONNECTION

HANDLE

PARST OF FOR WALL

FBALL

FLY BAR

INSTALLATION

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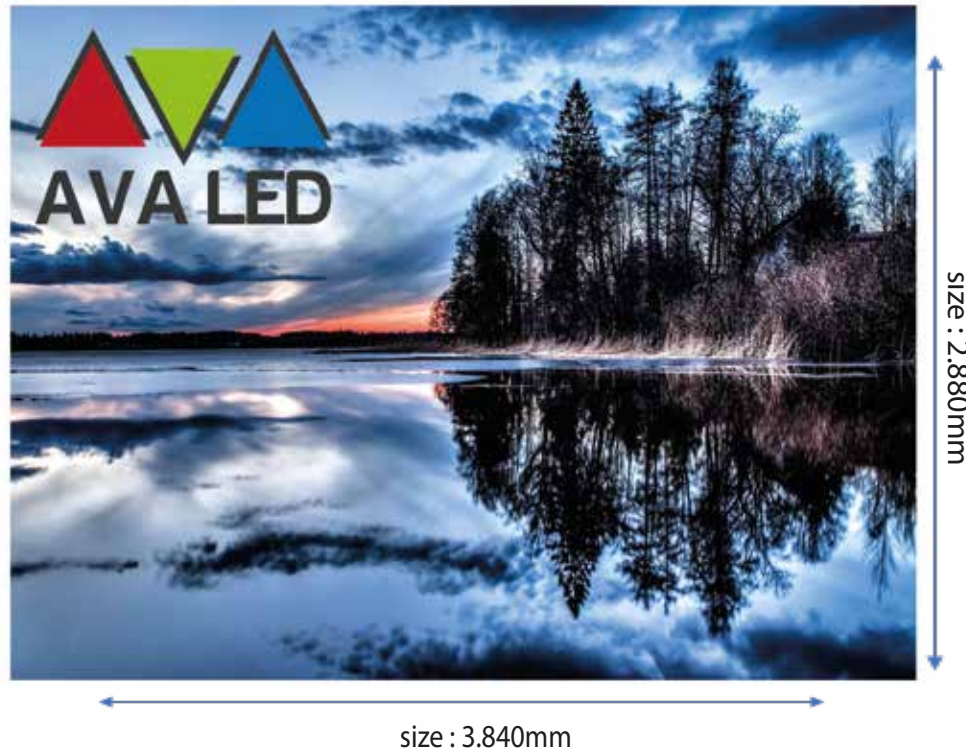
Environmental conditions: Humidity, wind, temperatures, rain, snow etc.

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.

HANGING

size : 2.880mm

size : 3.840mm

VISION

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

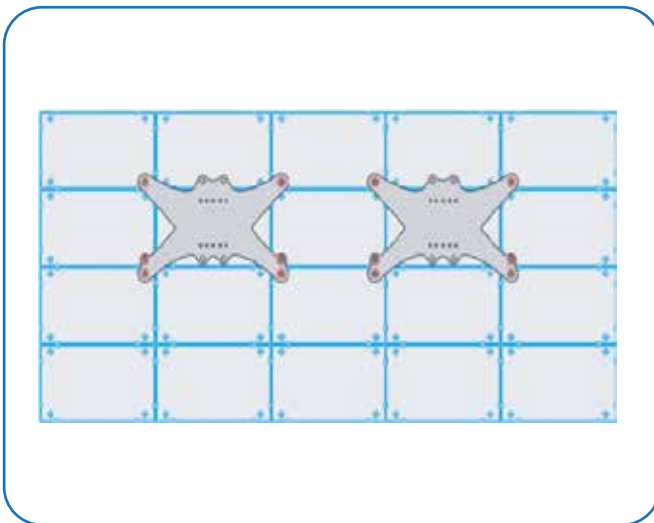Perfect Rendering Dynamic Picture   Smear Ghosting Phenomenon

18 BIT GREY SCALE

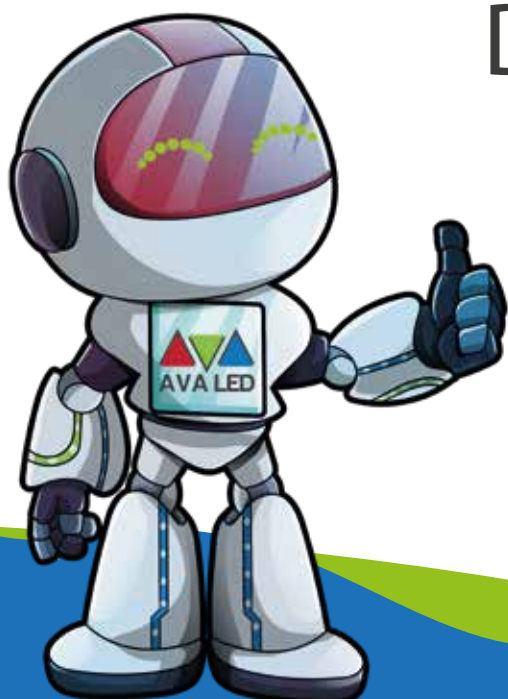AVA LED   Others

VISION

AVA LED

TN-PRO-IF-2

P2,5

Data Sheet

INDOOR FRONT SERVICE SERIES

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

ISO 9001:2015 CE ISO 14001:2015 CERTIFIED COMPANY

01

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FEATURES

- ○ Advanced Contrast Brightness Black technology,

- ○ Advanced High Refresh Rate,

- ○ Fast installation of panel to Light Frame,

- ○ Just Signal person to install/uninstall, saving labor cost

- ○ Die-Casting Aluminum-Magnesium frame design, fanless design.

- ○ No noise, lower power consumption, good heat dissipation.

FEATURES

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

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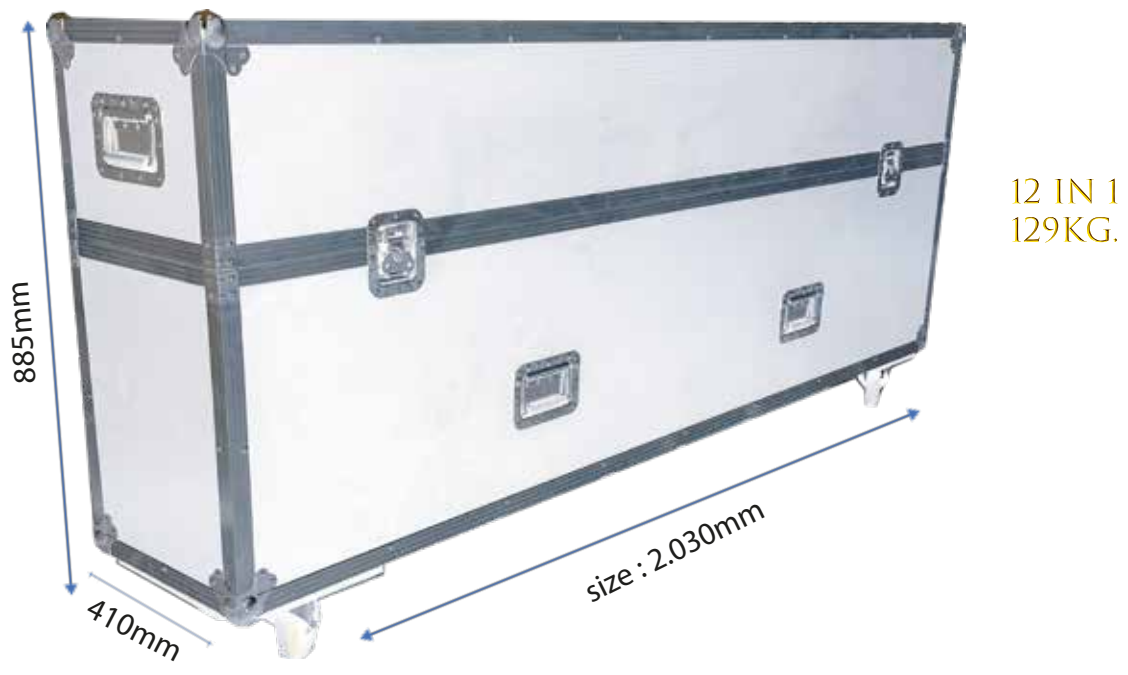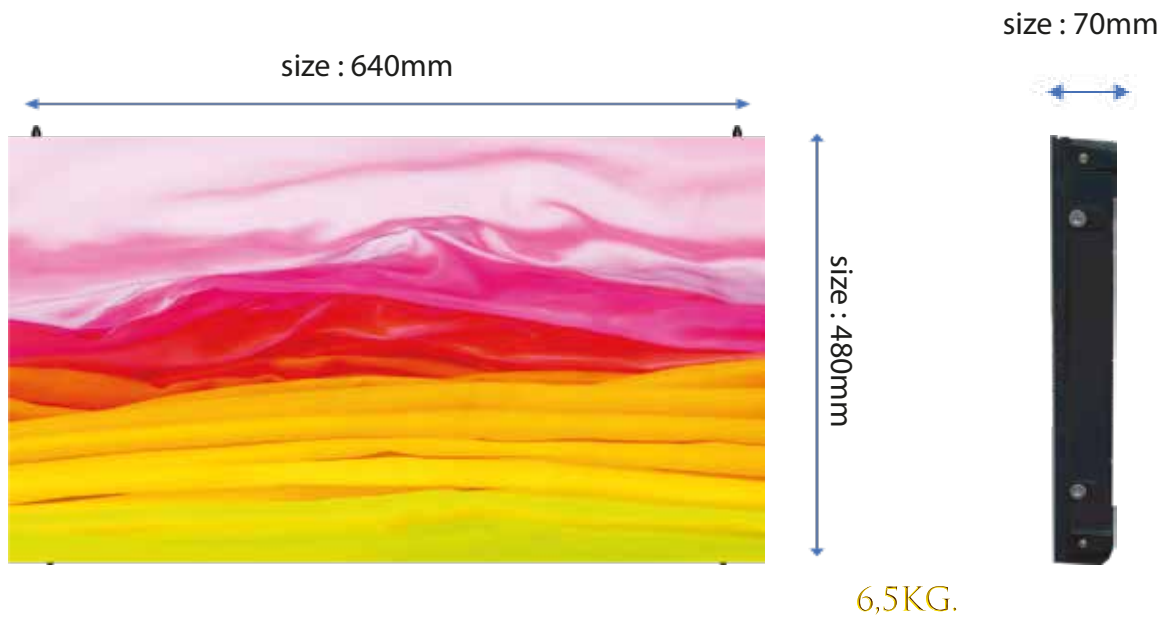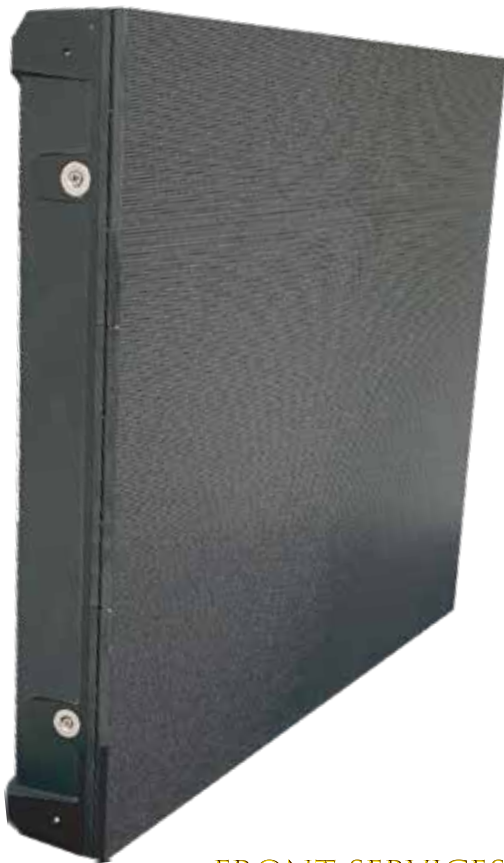· High Quality MASK
· Rotation 90 Degree

FEATURES

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

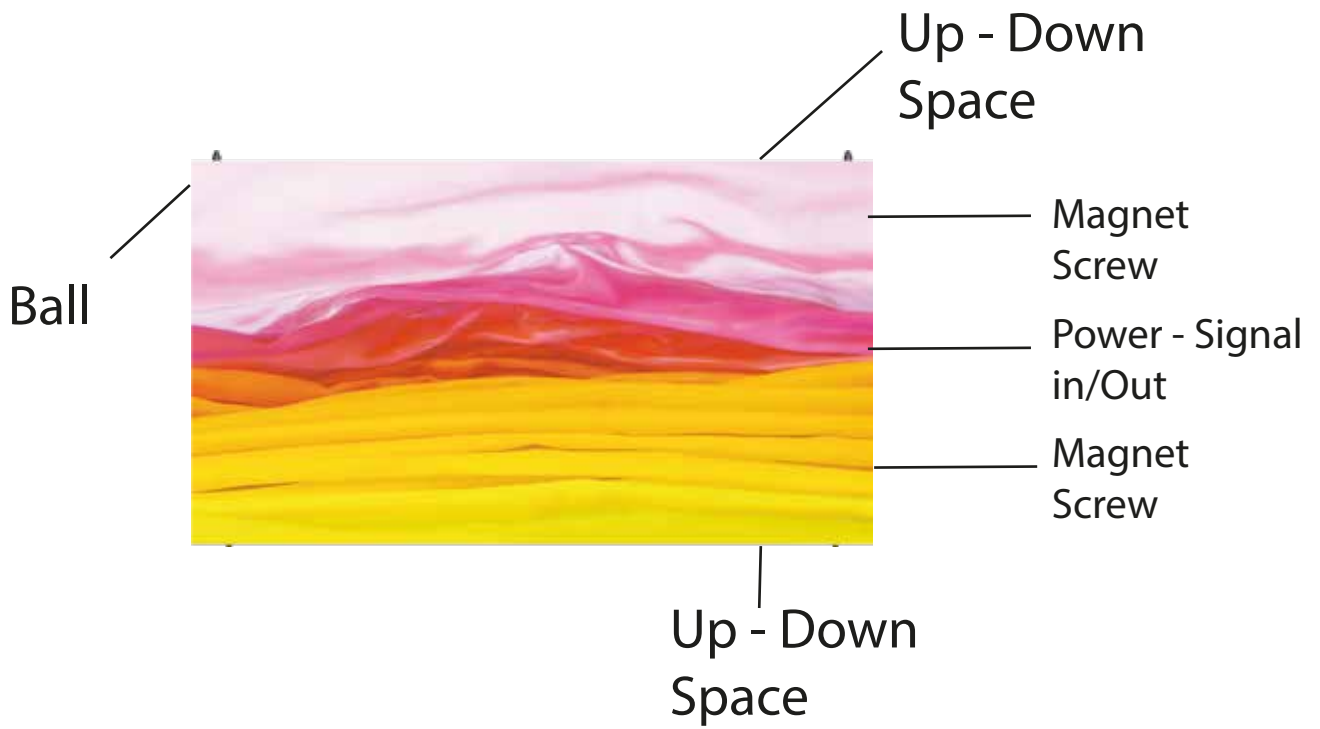| MODEL NAME	TN-PRO-IF-2 "P2,5"
Features	:
Series	Pro
Panel installation type	Fix Instalation
Operating Environment	Indoor
Pixel Pitch	2,5mm
Brightness	>1100 Nits
Refresh Rate	>3840Hz
Weight / m2	<21
Material Brands	
Lamp	Class A
Entegred	Chipone
Powersupply	Meanwell
Controller	Novastar
Connectors : 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	Die-Casting Aliminum
Weight Per Panel Net kg.	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
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)	600
Power Consumption (<w/sqm)	470
Average Power Consumption (<w/sqm)	141
Voltage Range	47 ~ 63Hz / 110 ~ 240 VAC
Version	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

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

QALITY IN DETAIL

CABINET SIZE

size : 640mm

size : 480mm

size : 70mm

6,5KG.

885mm

410mm

size : 2.030mm

12 IN 1
129KG.

QALITY IN DETAIL

PRODUCT PHOTO

FRONT SERVICES

QALITY IN DETAIL

PRODUCT PHOTO

Up - Down Space

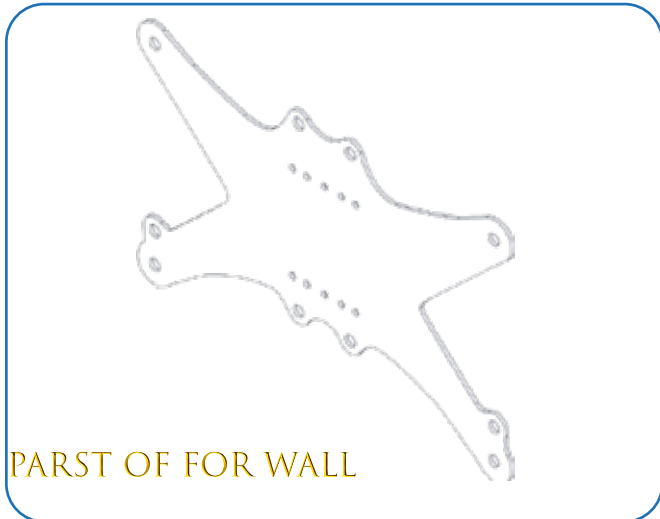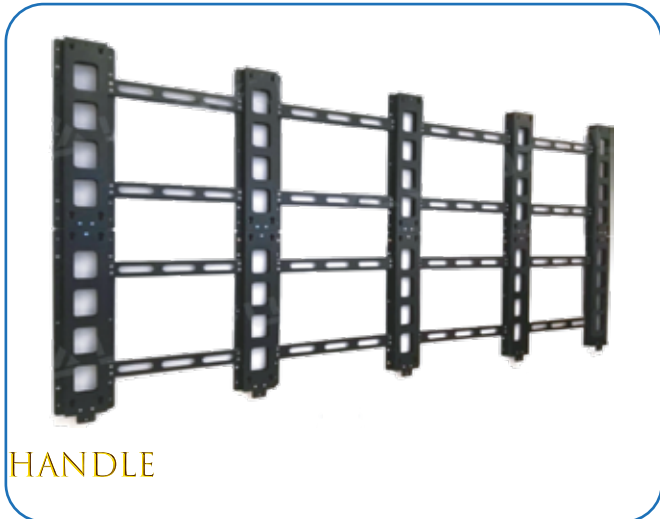Ball

Magnet Screw

Power - Signal in/Out

Magnet Screw

Up - Down Space

Ultra High Definition

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

SAFETY

CASE

CONNECTION

HANDLE

PARST OF FOR WALL

FBALL

FLY BAR

INSTALLATION

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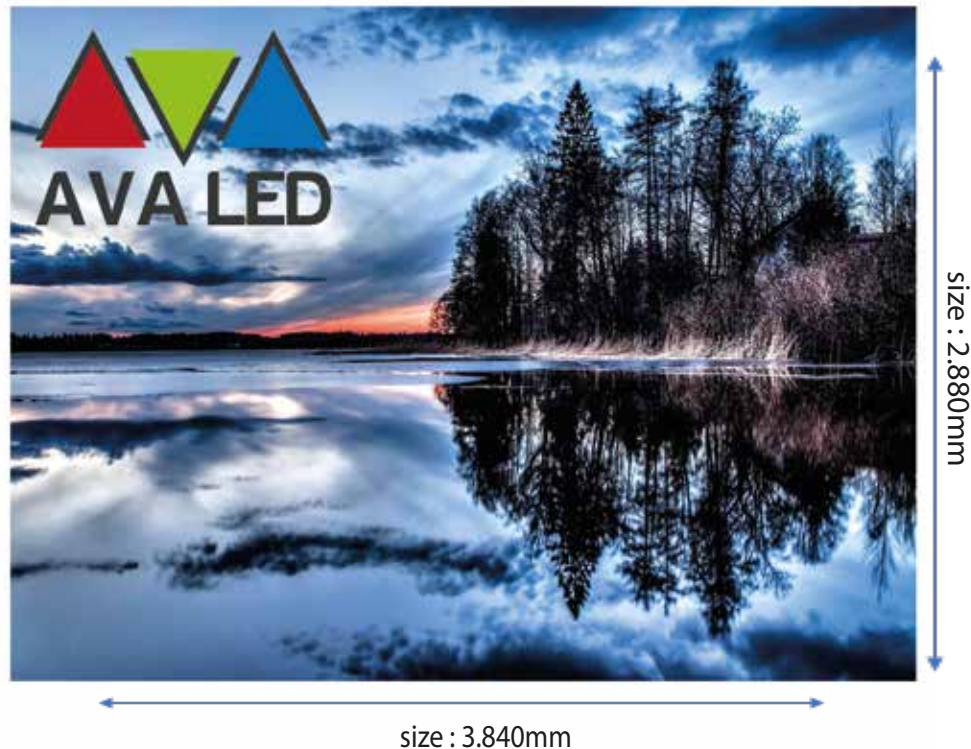
Environmental conditions: Humidity, wind, temperatures, rain, snow etc.

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 : 2.880mm

size : 3.840mm

VISION

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

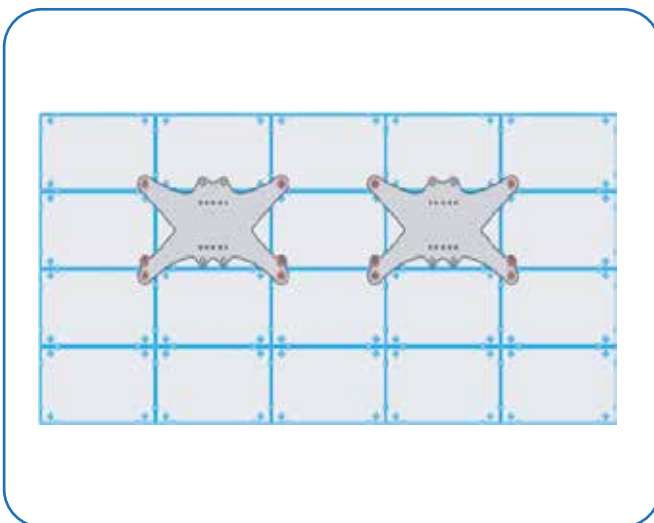Perfect Rendering Dynamic Picture

Smear Ghosting Phenomenon
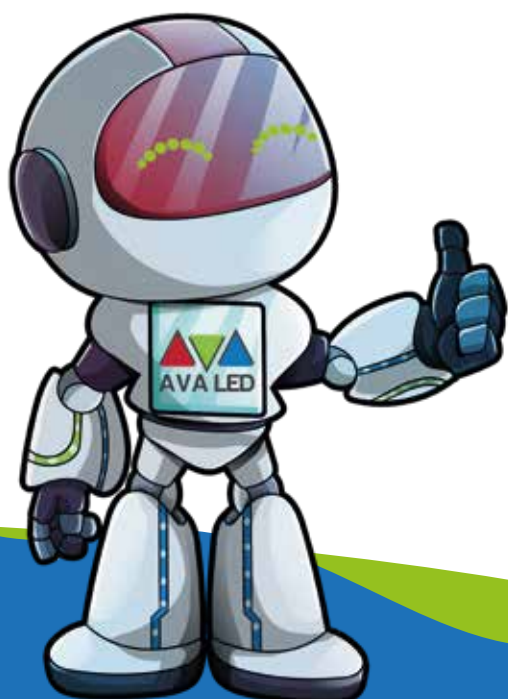
18 BIT GREY SCALE

AVA LED

Others

VISION

AVA LED

TN-PRO-IF-3
Data Sheet

TN FIX SERIES OTHER MODELS

INDOOR FRONT SERVICE SERIES

TN-PRO-IF- 3

ISO 9001:2015 CE ISO 14001:2015 CERTIFIED COMPANY

01

QALITY IN DETAIL

FEATURES

- Advanced Contrast Brightness Black technology,

- Advanced High Refresh Rate,

- Fast installation of panel to Light Frame,

- Just Signal person to install/uninstall, saving labor cost

- Die-Casting Aluminum-Magnesium frame design, fanless design.

- No noise, lower power consumption, good heat dissipation.

FEATURES

TN-PRO-IF-3

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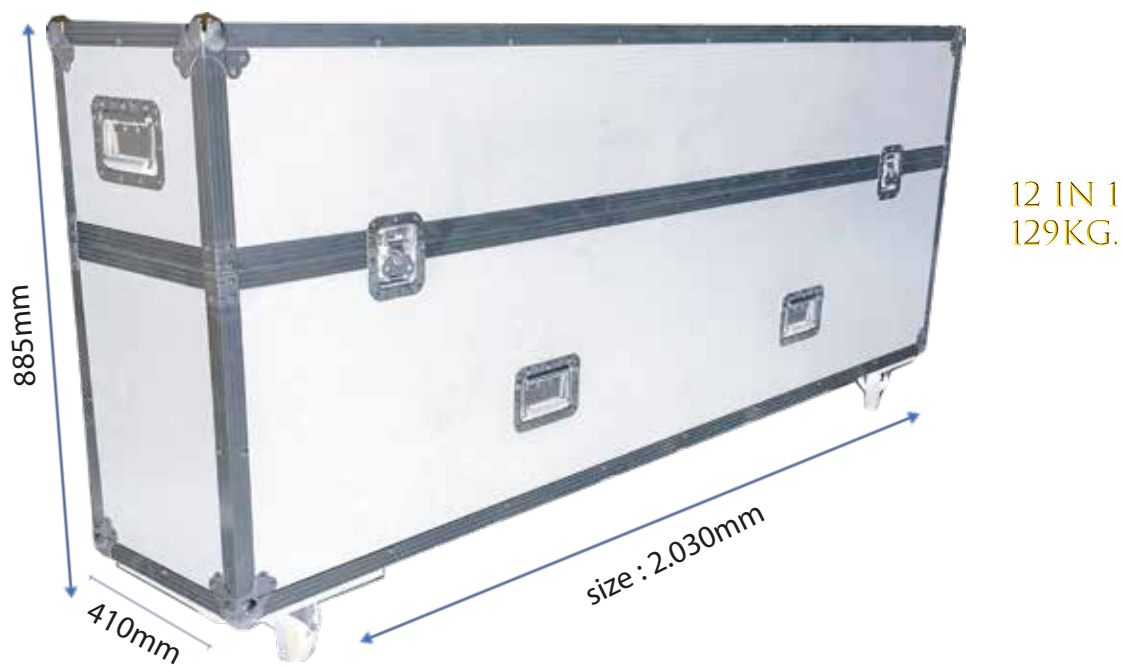- · High Quality PCB
- · High Quality MASK
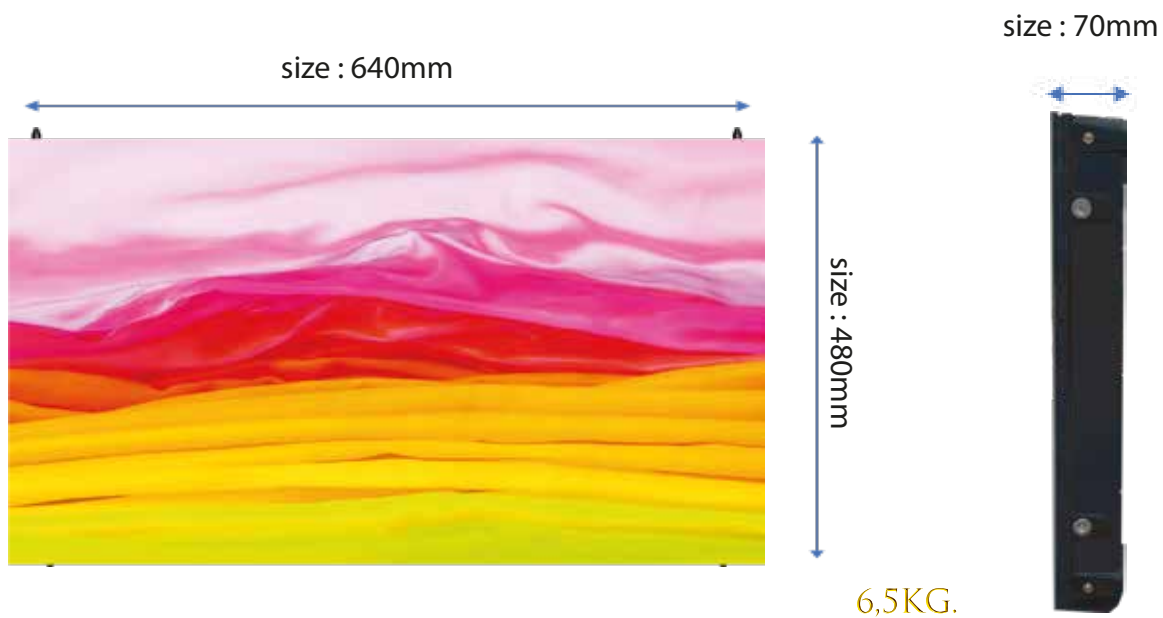- · Rotation 90 Degree

FEATURES
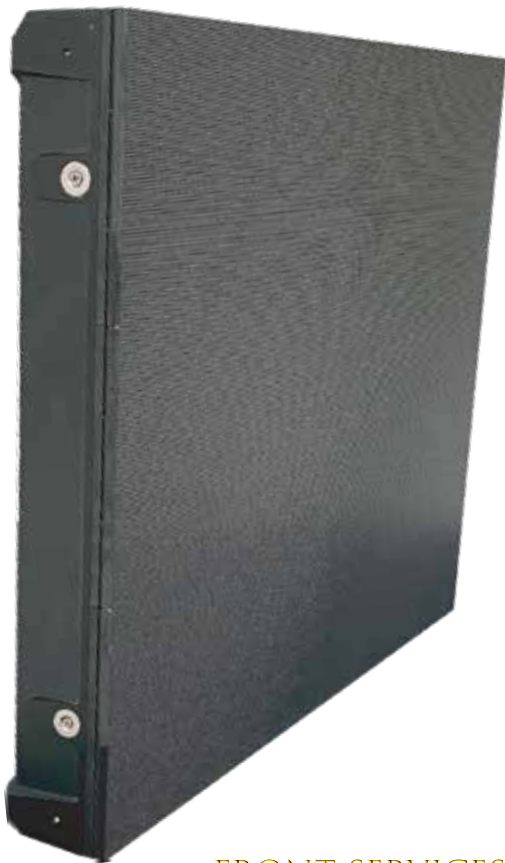

Features

***   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

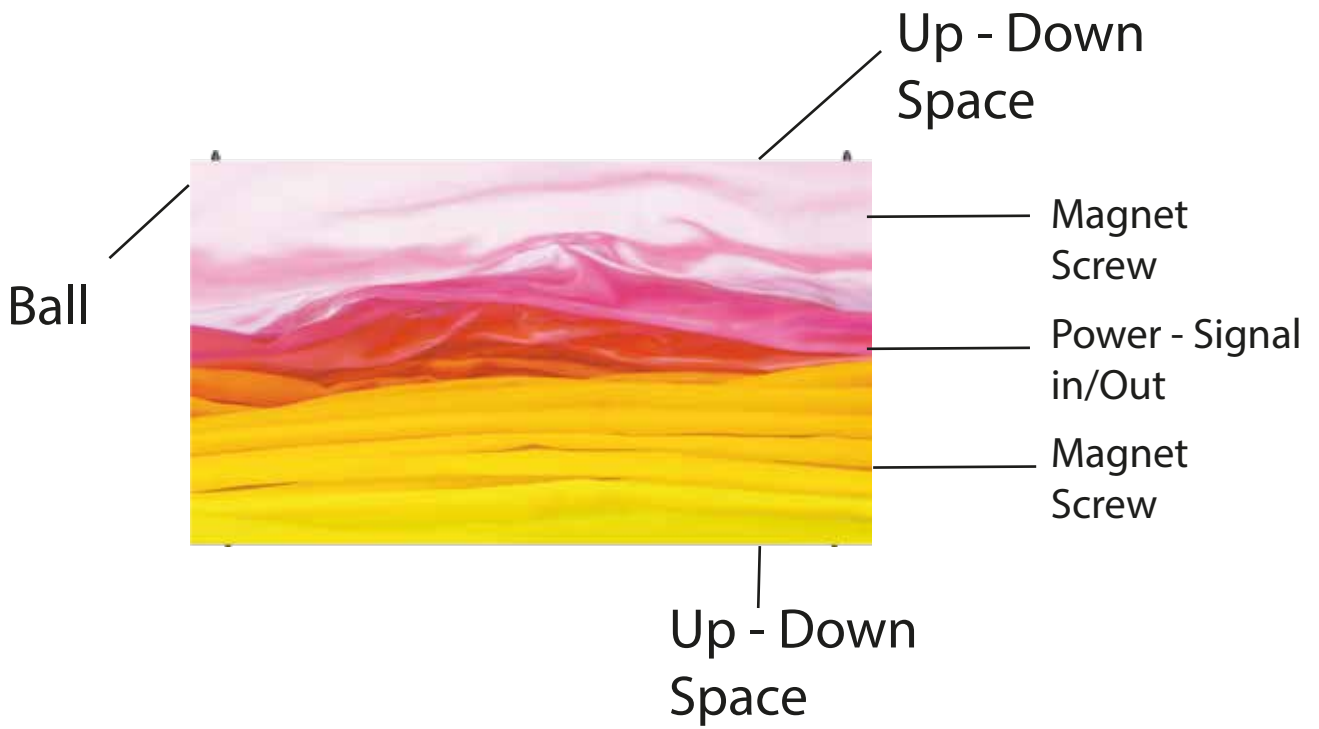| MODEL NAME	TN-PRO-IF-3
Features	:
Series	Pro
Panel installation type	Fix Instalation
Operating Environment	Indoor
Pixel Pitch	3,076mm
Brightness	>1100 Nits
Refresh Rate	>3840Hz
Weight / m2	<21
Material Brands	
Lamp	Class A
Entegred	Chipone
Powersupply	Meanwell
Controller	Novastar
Connectors : Seetronic	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	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	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)	-
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)	600
Power Consumption (<w/sqm)	460
Average Power Consumption (<w/sqm)	138
Voltage Range	47 ~ 63Hz / 110 ~ 240 VAC
Version	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

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QALITY IN DETAIL

CABINET SIZE

size : 640mm

size : 480mm

size : 70mm

6,5KG.

885mm

410mm

size : 2.030mm

12 IN 1
129KG.

PRODUCT PHOTO

FRONT SERVICES

QALITY IN DETAIL

PRODUCT PHOTO

Up - Down Space

Ball

Magnet Screw

Power - Signal in/Out

Magnet Screw

Up - Down Space

Ultra High Definition

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

SAFETY

CASE

CONNECTION

HANDLE

PARST OF FOR WALL

FBALL

FLY BAR

INSTALLATION

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 : 2.880mm

size : 3.840mm

VISION

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

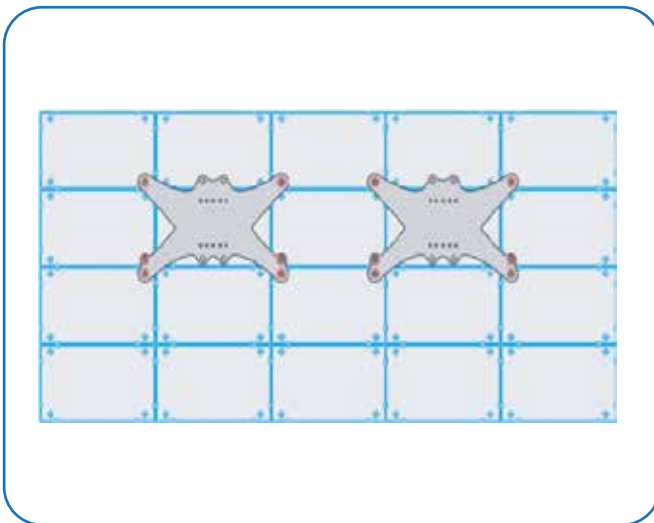Perfect Rendering Dynamic Picture

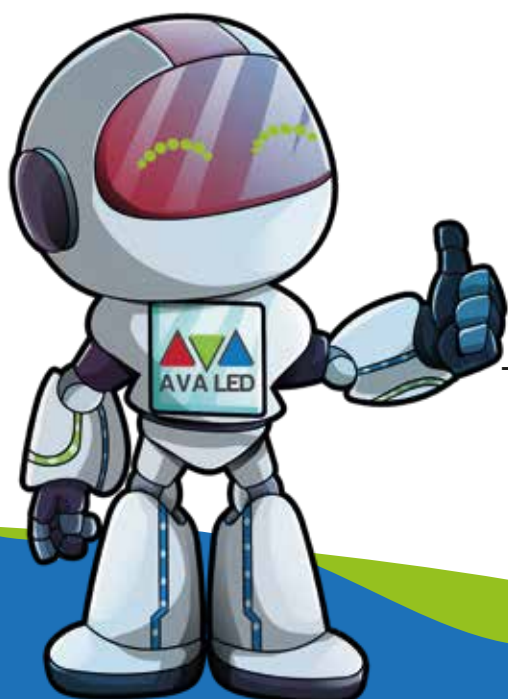Smear Ghosting Phenomenon

18 BIT GREY SCALE

AVA LED

Others

VISION

AVA LED

TN-PRO-IF-4
Data Sheet

TN FIX SERIES OTHER MODELS

INDOOR FRONT SERVICE SERIES

TN-PRO-IF- 4 I TN-PRO-IF- 4 PRO I TN-PRO-IF- 4 PLUS

ISO 9001:2015 CE ISO 14001:2015 CERTIFIED COMPANY

01

FEATURES

○ Advanced Contrast Brightness Black technology,

○ Advanced High Refresh Rate,

○ Fast installation of panel to Light Frame,

○ Just Signal person to install/uninstall, saving labor cost

○ Die-Casting Aluminum-Magnesium frame design, fanless design.

○ No noise, lower power consumption, good heat dissipation.

FEATURES

TN-PRO-IF-4

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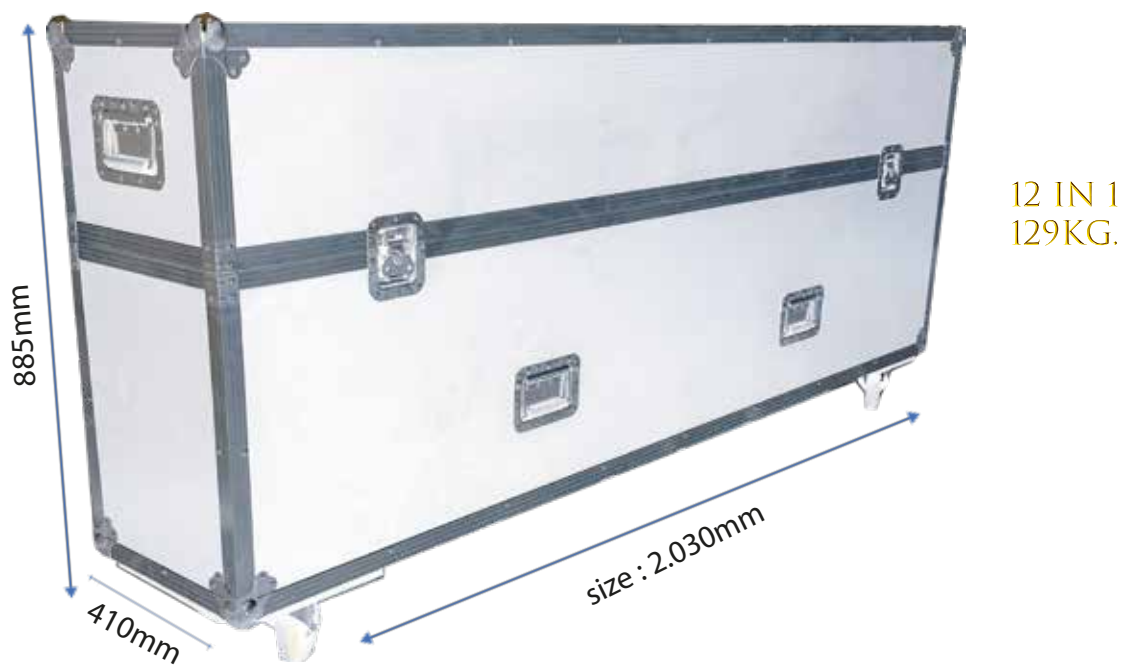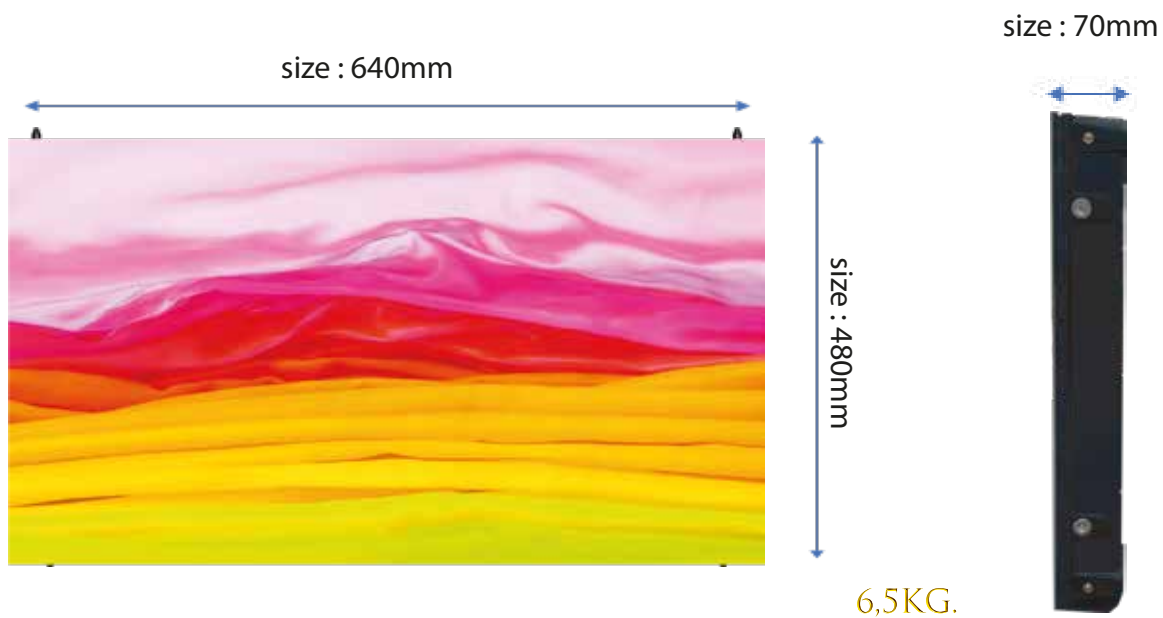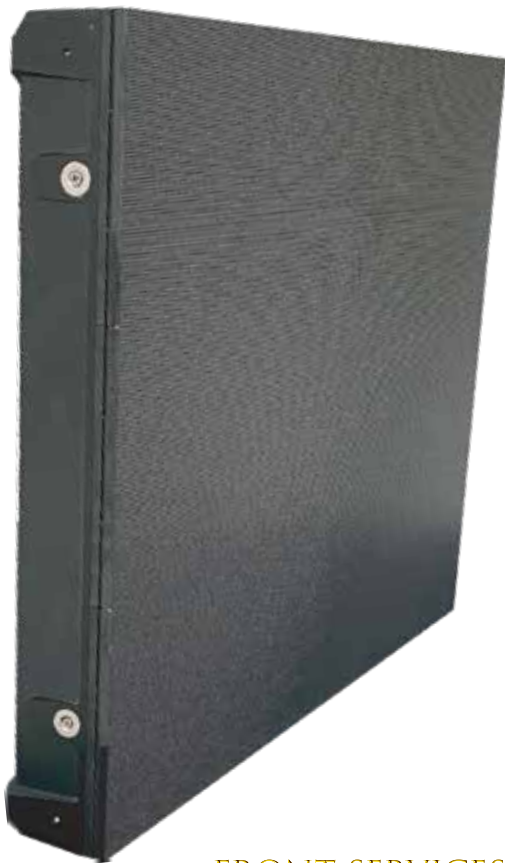
FEATURES

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

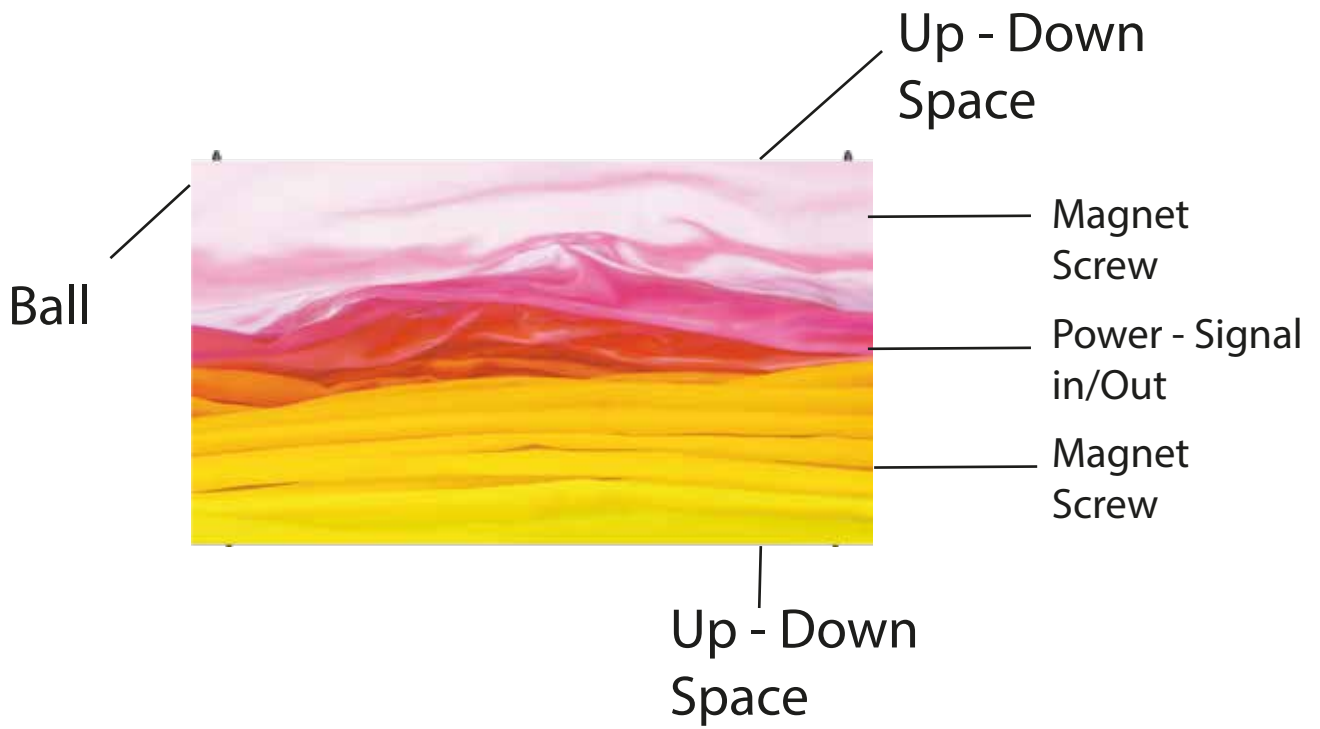| MODEL NAME	!"#$%&#'()*
Features	:
Series	Pro
Panel installation type	Fix Instalation
Operating Environment	Indoor
Pixel Pitch	4mm
Brightness	>1100 Nits
Refresh Rate	>3840Hz
Weight / m2	<21
Material Brands	
Lamp	Class A
Entegred	Chipone
Powersupply	Meanwell
Controller	Novastar
Connectors : Seetronic	Seetronic
Module Specifications	:
Pixel Configuration	SMD 2020
LED Chip	Cooper
LED	Space Black
Module Size (mm)	320mm x 160mm
Module Resolution	80 x 40
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.	6,5
Cabinet Resolution	160 x 120
Pixel Density / Cabinet	19200
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	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)	600
Power Consumption (<w/sqm)	450
Average Power Consumption (<w/sqm)	135
Voltage Range	47 ~ 63Hz / 110 ~ 240 VAC
Version	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

QALITY IN DETAIL

CABINET SIZE

size : 640mm

size : 480mm

size : 70mm

6,5KG.

885mm

410mm

size : 2.030mm

12 IN 1
129KG.

PRODUCT PHOTO

FRONT SERVICES

QALITY IN DETAIL

07

PRODUCT PHOTO

Up - Down Space

Ball

Magnet Screw

Power - Signal in/Out

Magnet Screw

Up - Down Space

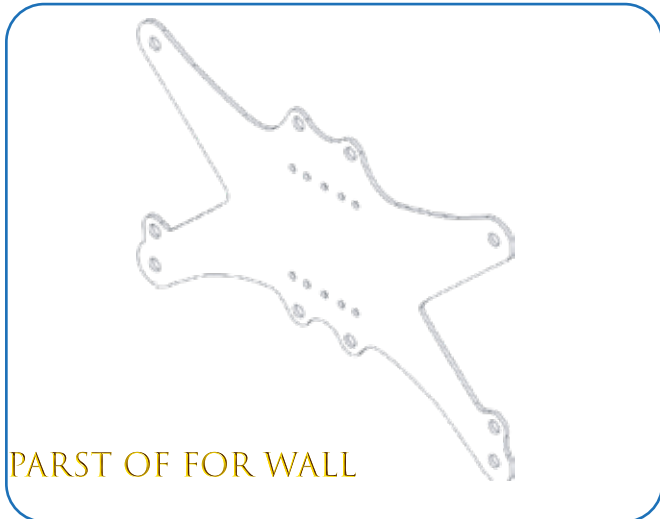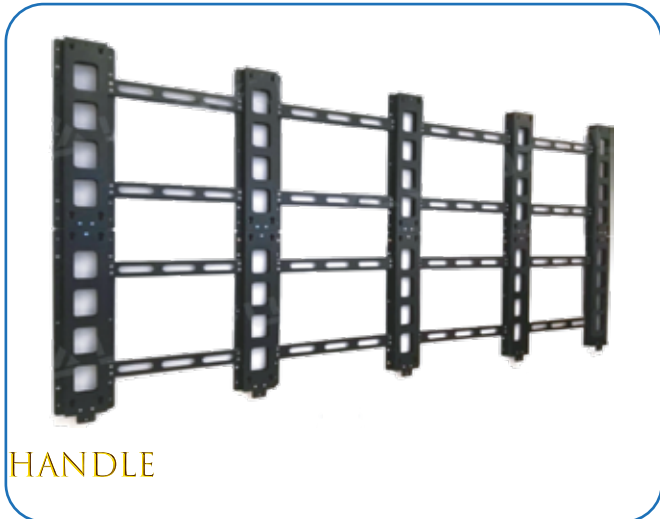## Ultra High Definition

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

SAFETY

CASE

CONNECTION

HANDLE

PARST OF FOR WALL

FBALL

FLY BAR

INSTALLATION

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 : 2.880mm

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

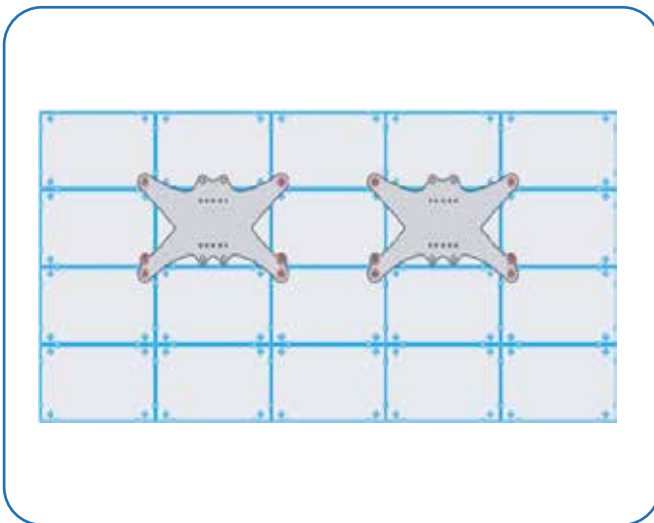Perfect Rendering Dynamic Picture   Smear Ghosting Phenomenon

18 BIT GREY SCALE

AVA LED   Others

VISION

AVA LED

TN-PRO-OF-4
Data Sheet

OUTDOOR SERIES

TN-PRO-OF 4

01

TITLE OF CONTENTS

FEATURES

○ Advanced Contrast Brightness Black technology,

○ Advanced High Refresh Rate,

○ FRONT SERVICES and Fast installation of panel to Light Frame,

○ Just Signal person to install/uninstall, saving labor cost

○ High Quality Die-Casting Aluminum-Magnesium frame design, fan design.

○ No noise, lower power consumption, good heat dissipation.

○ Easy and Fast Installation

FEATURES

TN-PRO-OF 4

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

FEATURES

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

⚪ TECHNICAL SPECIFICATION

SPECIFICATION

MODEL NAME	TN-PRO-OF-4
Features	
Series	Pro
Panel installation type	Fix Instalation
Operating Environment	Outdoor
Pixel Pitch	4mm
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	
Pixel Configuration	SMD 1921
LED Chip	Cooper
LED	Black Shell
Module Size (mm)	320mm x 320mm
Module Resolution	80 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	9 MODULE
Cabinet Size (mm)	960 x 960 x 115
Cabinet Material	Die-Casting Magnesium
Weight Per Panel Net kg.	25
Cabinet Resolution	240 x 240
Pixel Density / Cabinet	57600
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 "	1/10
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	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)	900
Power Consumption (<w/sqm)	780
Average Power Consumption (<w/sqm)	312
Voltage Range	47 ~ 63Hz / 110 ~ 240 VAC
Version	REV22
Packing include	Plate-Power-Cat5 Cable
Usage Area	Small Pixel Advertisement, Shopping Center & Totem
Certificate	CE/EMC/LVD-ATR-EUR1 ISO-9001:2015 ISO-14001:2015

QALITY IN DETAIL

CABINET DETAIL

size : 960mm

size : 115mm

size : 960mm

25KG.

1.030mm

700mm

4 IN 1 - 139KG.

size : 1.150mm

QALITY IN DETAIL

CABINET DETAIL

CABINET DETAIL

Power In/Out   Pjn

Door Lock

Front Service

Lock

Ball

size : 2.880mm

SAFETY

CASE

HANDLE

BALL

POWER

INSTALLATION

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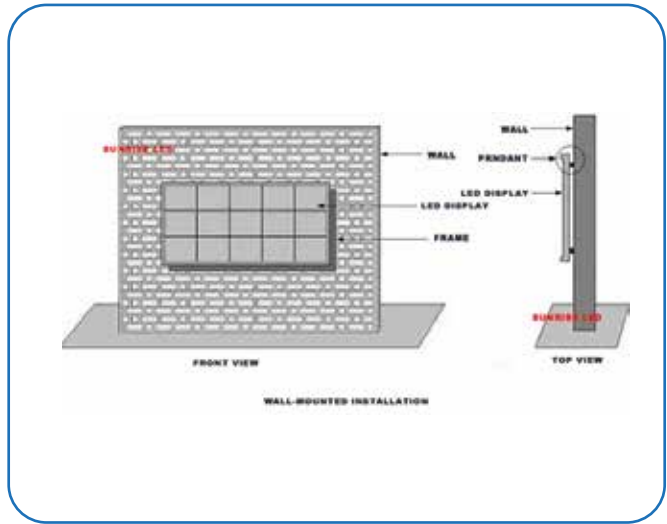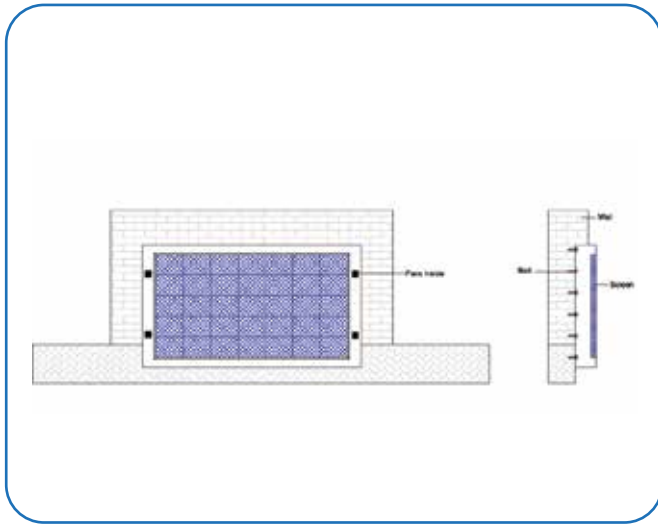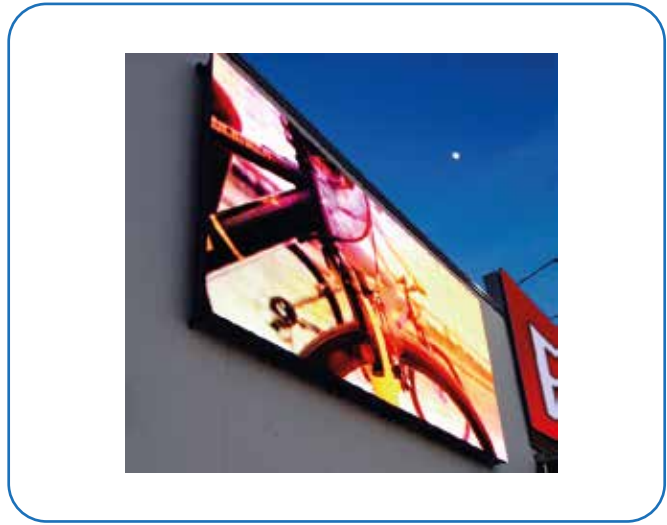
Environmental conditions: Humidity, wind, temperatures, rain, snow etc.

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.

HANGING

size : 2.880mm

size : 3.840mm

INSTALLLATION

WALL-MOUNTED INSTALLATION

ACCESSORIES

FLY BAR

960mm

CASE

POWER

SIGNAL

NEUTRIK

CNLINKO

SEETRONIC

AVA LED

TN-PRO-OF-5
Data Sheet

OUTDOOR SERIES

TN-PRO-OF 5

ISO 9001:2015   C E   CERTIFIED ISO 14001:2015 COMPANY

01

TITLE OF CONTENTS

FEATURES

○ Advanced Contrast Brightness Black technology,

○ Advanced High Refresh Rate,

○ FRONT SERVICES and Fast installation of panel to Light Frame,

○ Just Signal person to install/uninstall, saving labor cost

○ High Quality Die-Casting Aluminum-Magnesium frame design, fan design.

○ No noise, lower power consumption, good heat dissipation.

○ Easy and Fast Installation

FEATURES

TN-PRO-OF 5

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

FEATURES

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

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	
Pixel Configuration	SMD 1921
LED Chip	Cooper
LED	Black Shell
Module Size (mm)	320mm x 320mm
Module Resolution	64 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	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)	900
Power Consumption (<w/sqm)	750
Average Power Consumption (<w/sqm)	300
Voltage Range	47 ~ 63Hz / 110 ~ 240 VAC
Version	REV22
Packing include	Plate-Power-Cat5 Cable
Usage Area	Auditorium, Concert Area , Advertisement, Shopping Center, Scoreboard & Totem
Certificate	CE/EMC/LVD-ATR-EUR1 ISO-9001:2015 ISO-14001:2015

SPECIFICATION

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

QALITY IN DETAIL

CABINET DETAIL

size : 960mm

size : 115mm

size : 960mm

AVA LED

AVA LED

25KG.

1.030mm

700mm

4 IN 1 - 139KG.

size : 1.150mm

QALITY IN DETAIL

CABINET DETAIL

CABINET DETAIL

Power In/Out

Pjn

Door Lock

Front Service

Lock

Ball

size : 2.880mm

SAFETY

CASE

HANDLE

BALL

POWER

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

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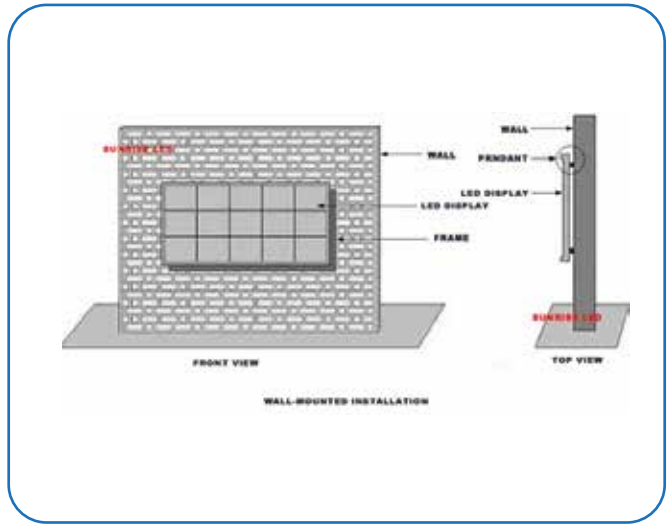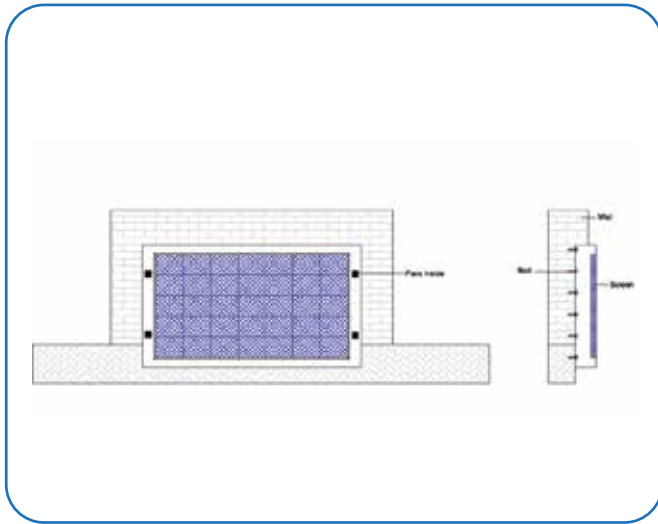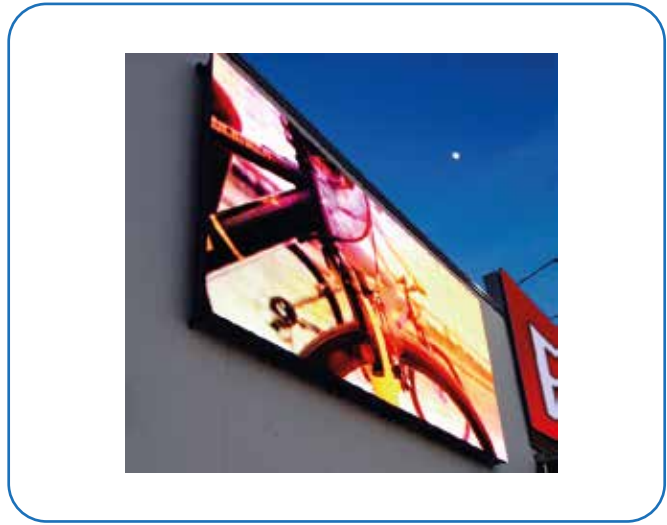
Environmental conditions: Humidity, wind, temperatures, rain, snow etc.

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

INSTALLATION

HANGING

size : 2.880mm

size : 3.840mm

INSTALLLATION

WALL-MOUNTED INSTALLATION

ACCESSORIES

960mm

FLY BAR

CASE

POWER

SIGNAL

NEUTRIK

CNLINKO

SEETRONIC

AVA LED

TN-PRO-OF-6
Data Sheet

OUTDOOR SERIES

TN-PRO-OF 6

ISO 9001:2015

C E

ISO 14001:2015 CERTIFIED COMPANY

01

TITLE OF CONTENTS

FEATURES

○ Advanced Contrast Brightness Black technology,

○ Advanced High Refresh Rate,

○ FRONT SERVICES and Fast installation of panel to Light Frame,

○ Just Signal person to install/uninstall, saving labor cost

○ High Quality Die-Casting Aluminum-Magnesium frame design, fan design.

○ No noise, lower power consumption, good heat dissipation.

○ Easy and Fast Installation

FEATURES

TN-PRO-OF 6

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

FEATURES

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

⚪ TECHNICAL SPECIFICATION

SPECIFICATION

MODEL NAME	TN-PRO-OF-6
Features	
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	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	>50.000 Hours
Operating Temperature Range	-15 – +45 (±10)
Operating Humidity Range	-40! " +60! ,10%-90%RH
Power on Time (<w/sqm)	W 900
Power Consumption (<w/sqm)	W 730
Average Power Consumption (<w/sqm)	W 292
Voltage Range	47 ~ 63Hz / 110 ~ 240 VAC
Version	REV22
Packing include	Plate-Power-Cat5 Cable
Usage Area	Auditorium, Concert Area , Advertisement, Shopping Center, Scoreboard & Totem
Certificate	CE/EMC/LVD-ATR-EUR1 ISO-9001:2015 ISO-14001:2015

QALITY IN DETAIL

CABINET DETAIL

size : 960mm

size : 115mm

size : 960mm

25KG.

AVA LED

AVA LED

1.030mm

700mm

4 IN 1 - 139KG.

size : 1.150mm

QALITY IN DETAIL

CABINET DETAIL

CABINET DETAIL

Power In/Out

Pin

ck

Lock

ll

Front Service

size : 2.880mm

SAFETY

CASE

HANDLE

BALL

POWER

QALITY IN DETAIL

INSTALLATION

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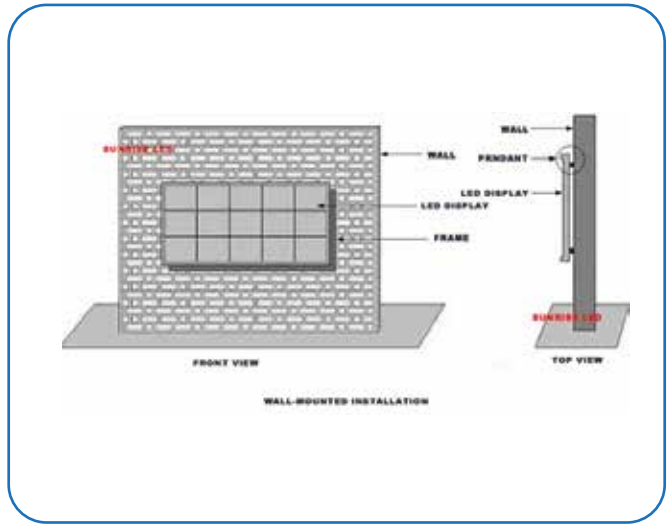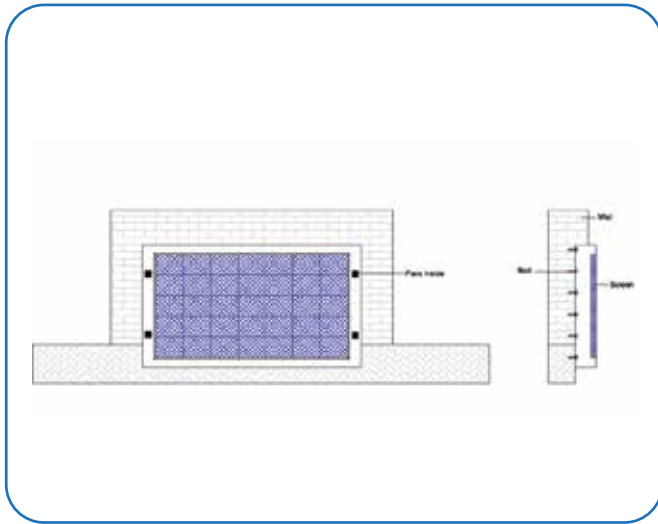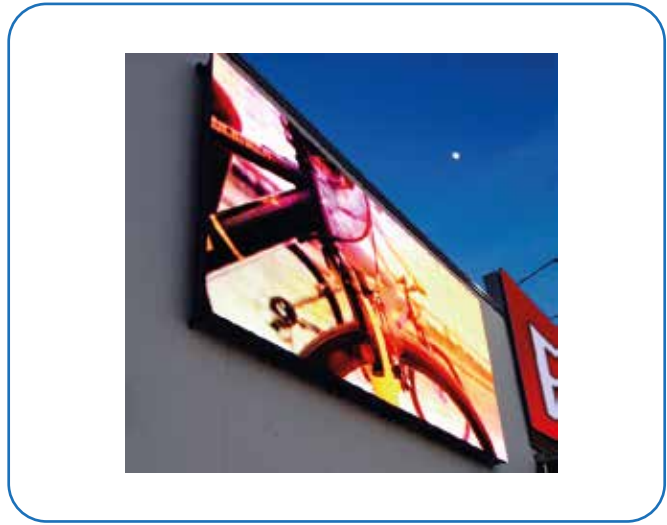
Environmental conditions: Humidity, wind, temperatures, rain, snow etc.

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.

HANGING

size : 2.880mm

size : 3.840mm

INSTALLLATION

WALL-MOUNTED INSTALLATION

ACCESSORIES

FLY BAR

960mm

CASE

POWER

SIGNAL

NEUTRIK

CNLINKO

SEETRONIC

AVA LED

TN-PRO-OF-10
Data Sheet

OUTDOOR SERIES

TN-PRO-OF-10

ISO 9001:2015 C€ ISO 14001:2015 CERTIFIED COMPANY

01

TITLE OF CONTENTS

FEATURES

○ Advanced Contrast Brightness Black technology,

○ Advanced High Refresh Rate,

○ FRONT SERVICES and Fast installation of panel to Light Frame,

○ Just Signal person to install/uninstall, saving labor cost

○ High Quality Die-Casting Aluminum-Magnesium frame design, fan design.

○ No noise, lower power consumption, good heat dissipation.

○ Easy and Fast Installation

FEATURES

TN-PRO-OF-10

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

FEATURES

P10 Outdoor Products

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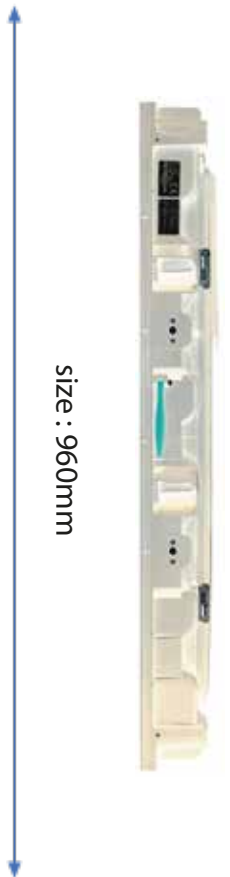*** Nova Star Controller
*** BLACK SHELL

○ 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	
Pixel Configuration	SMD 3535
LED Chip	Cooper
LED	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
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	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
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)	W 900
Power Consumption (<w/sqm)	W 800
Average Power Consumption (<w/sqm)	W 320
Voltage Range	47 ~ 63Hz / 110 ~ 240 VAC
Version	REV22
Packing include	Plate-Power-Cat5 Cable
Usage Area	Auditorium, Concert Area , Advertisement, Shopping Center, Scoreboard & Totem
Certificate	CE/EMC/LVD-ATR-EUR1 ISO-9001:2015 ISO-14001:2015

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QALITY IN DETAIL

CABINET DETAIL

size : 960mm

size : 105mm

size : 960mm

25KG.

4 IN 1 - 139KG.

1.030mm

700mm

size : 1.150mm

QALITY IN DETAIL

CABINET DETAIL

CABINET DETAIL

Power In/Out

Pin

Door Lock

Front Service

Lock

Ball

size : 2.880mm

SAFETY

CASE

HANDLE

LOCK

BALL

POWER

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

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

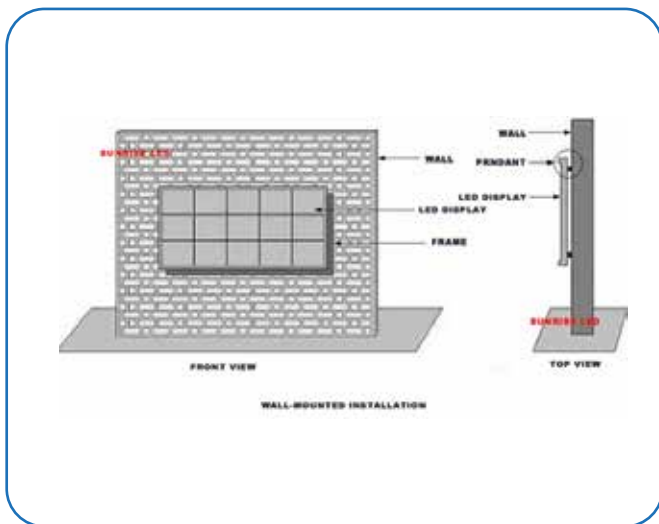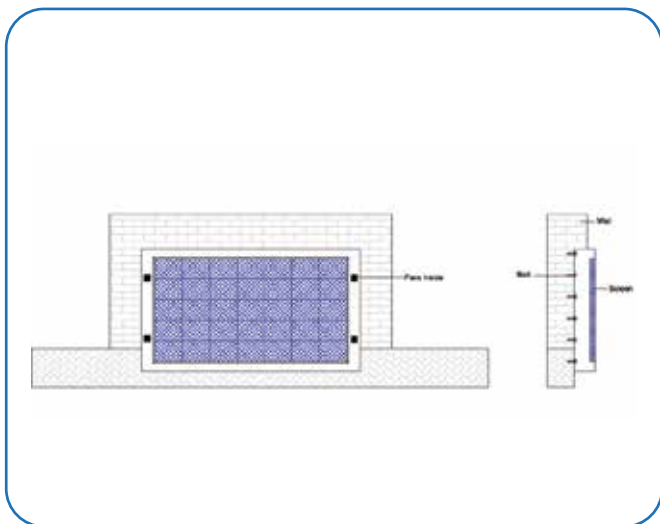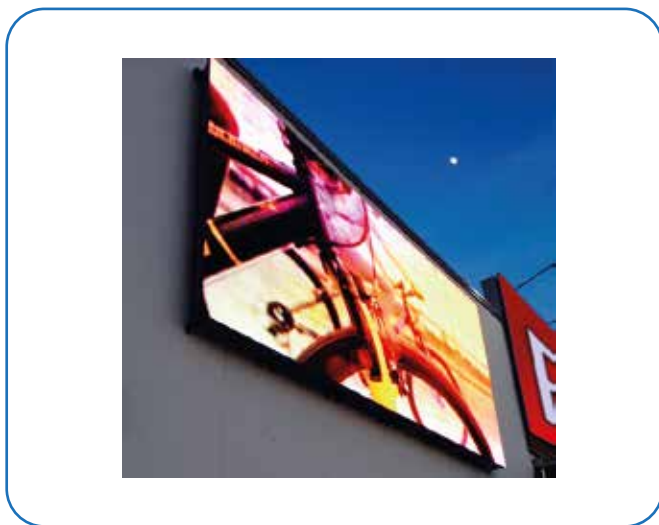Environmental conditions: Humidity, wind, temperatures, rain, snow etc.

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

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

INSTALLLATION

HANGING

size : 2.880mm

size : 3.840mm

INSTALLLATION

ACCESSORIES

FLY E....

960mm

CASE

POWER

SIGNAL

NEUTRIK

CNLINKO

SEETRONIC

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AVA LED

www.avaledscreen.com
info@avaledscreen.com

AVA GROUP GMBH

Adress: Seelbachstraße 5, 66687 Wadern, Germany

Phone : +49 211 730 64 817

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