ARES ST

青松光电
视源股份成员企业

Stadium Perimeter LED Display System Solution

QSTECH Co., LTD

QSTECH LED Products provides display service in various international sports events

AERS ST

Latest generation of stadium display product
A more specialist perimeter product

Perimeter Product Design

1. ARES ST Application Scenarios

Ares ST perimeter is mainly installed around the competition venue for advertising broadcasting, which realizes easier poster replacement than that of traditional spray painting. Its dynamic effects and simple operation settings can increase advertising revenue by getting higher exposure.

2. Display Panel Size

ARES ST(OUTDOOR)

Display Panel Size: 1600 x 955 x 120mm（W×H×D）

Display Module Size: 400×300mm（W×H）

Product Pixel Pitch: 10mm / 12.5mm

120mm

1600mm

955mm

31kg

ARES ST(INDOOR)

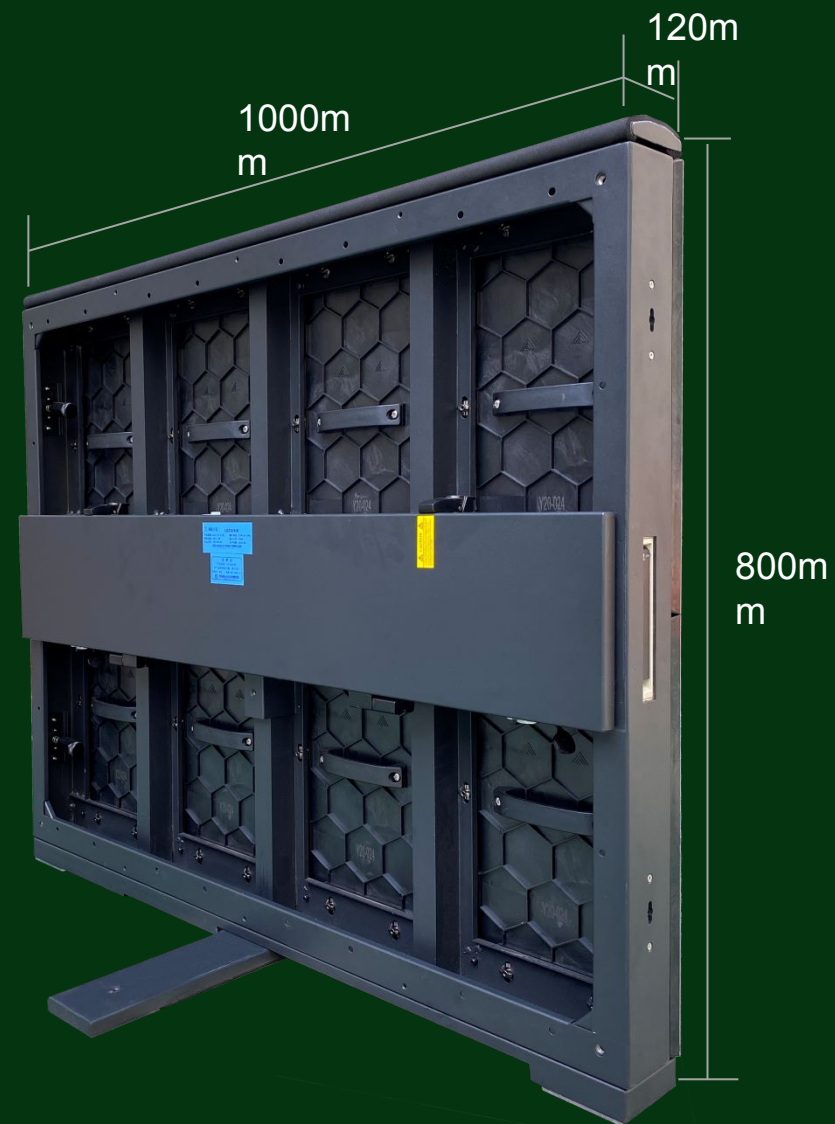Display Panel Size:

1500×800×120／1000×800×120 ㎜（W×H×D）

Display Module Size: 250×400mm（W×H）

Product Pixel Pitch: 6.25mm

120mm

1000mm

800mm

30kg

3. Display Panel Components

Sponge Pad

Power Box

Module

Wire Slot

Spring Lock

Handle

Base

Supporting Foot

ARES ST (OUTDOOR)
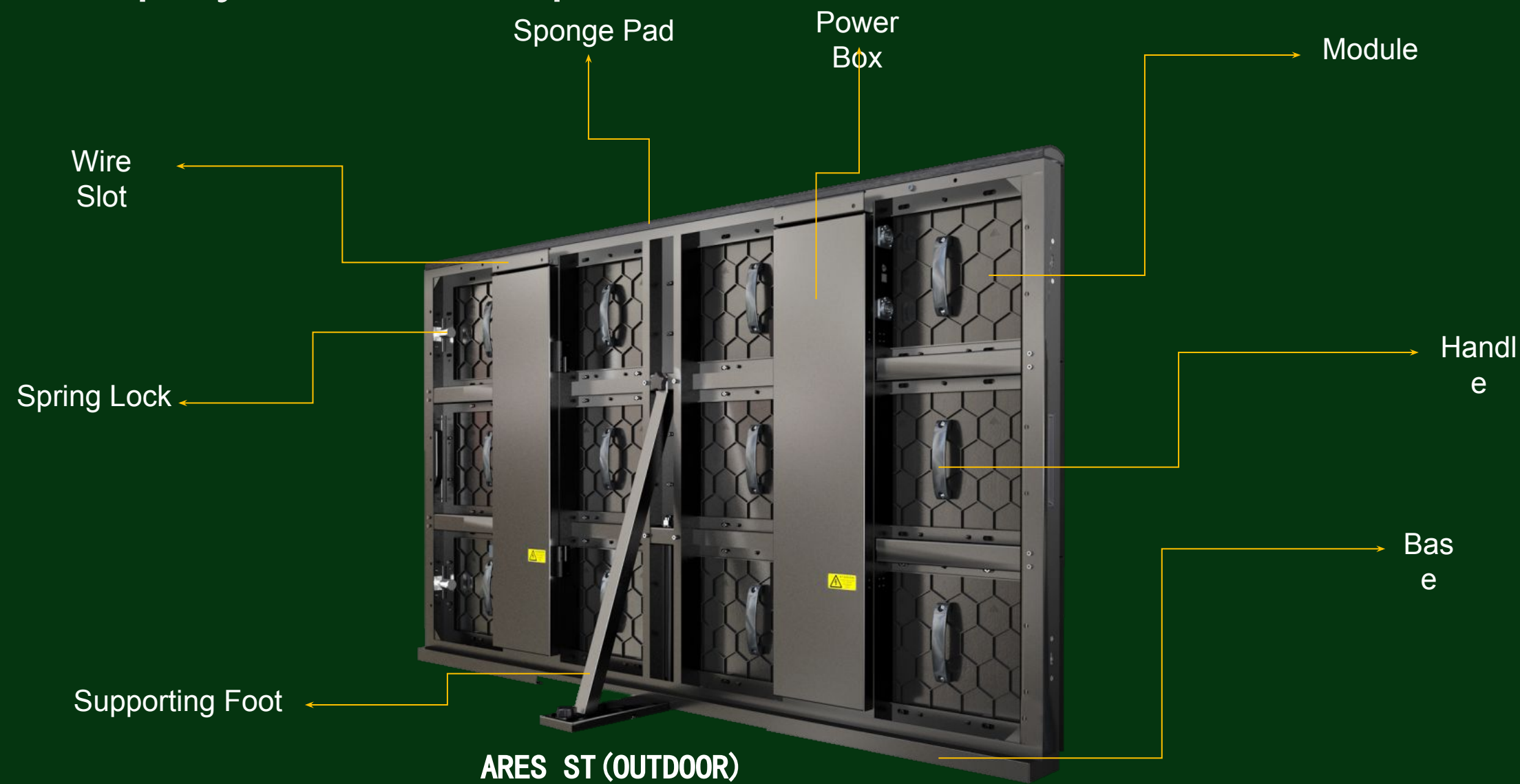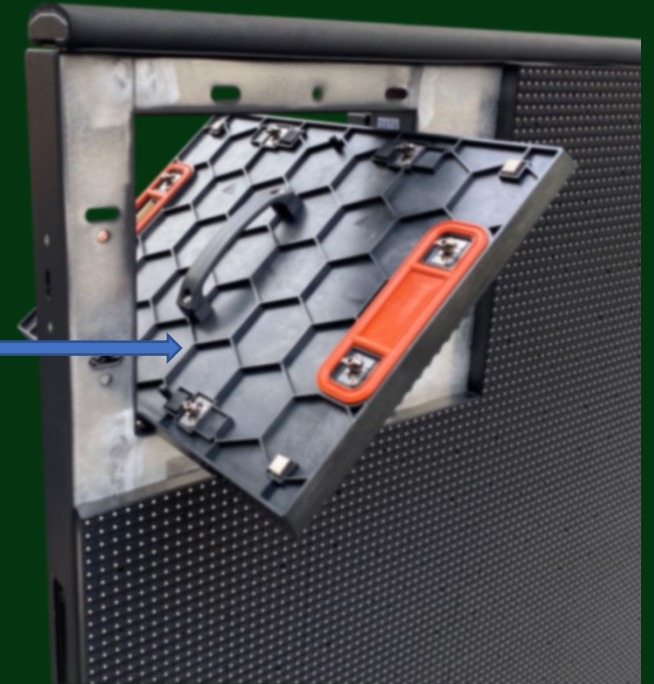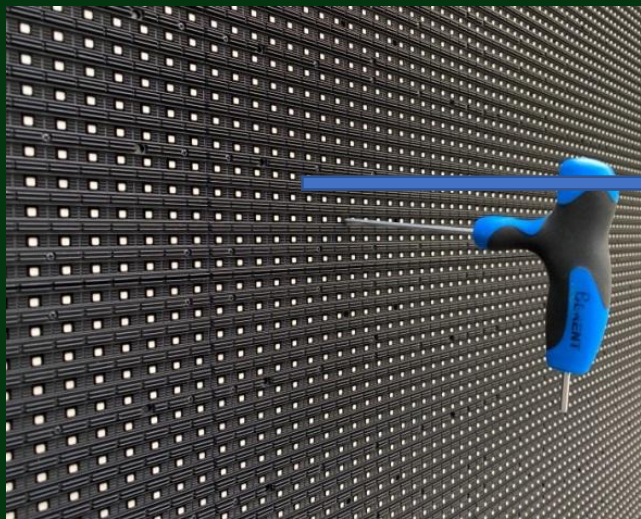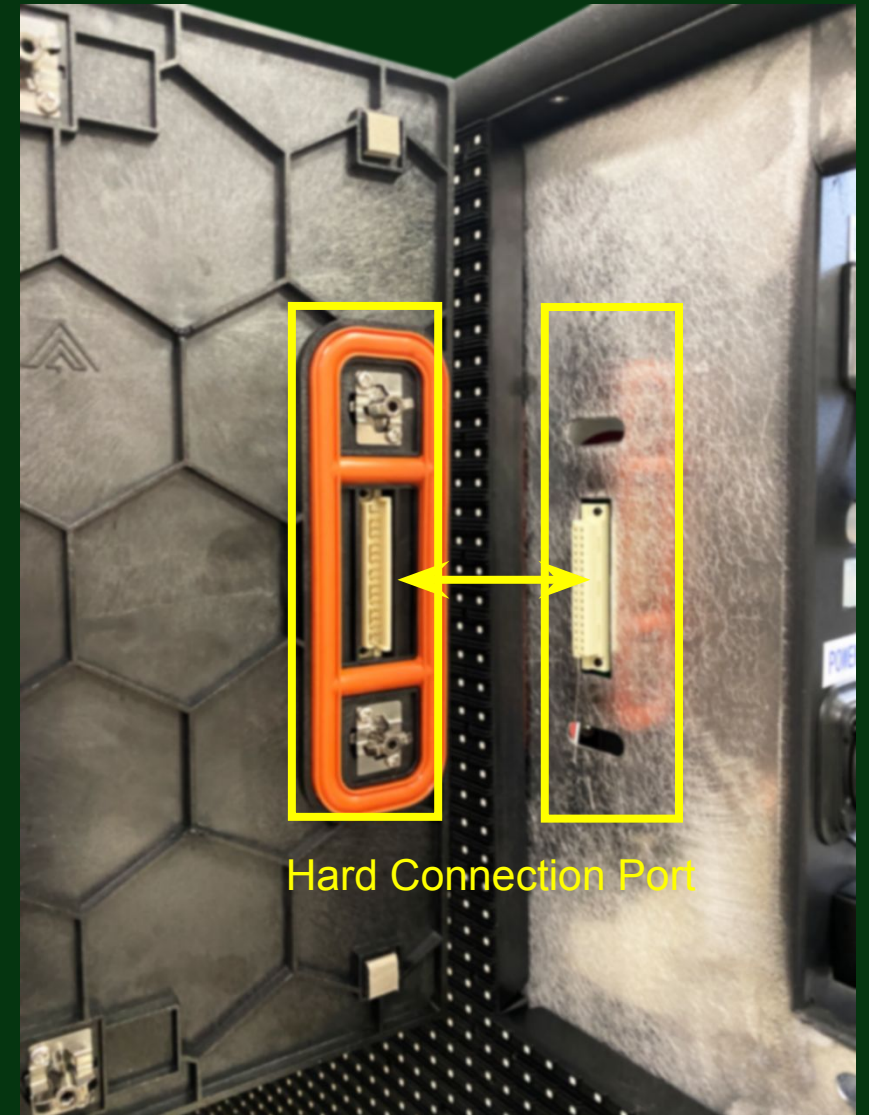
4. Convenient Maintenance

· Front and rear access available for display

module, enabling fast disassembly and installation

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5. High Stability

- Apply hard connection for modules, which can reduce failure rate and save maintenance time.
- IP65 rating and fully waterproof design, ensuring sound operation in any weather.

Hard Connection Port

6. Impact Resistance Design Provides Dual Protection Guarantee

- Each panel top is equipped with a sponge pad.

- Rubber soft mask for panel display surface can effectively alleviate the damage caused by impact.

- Dual protection not only can protect the LEDs, but also will not cause injury to athletes when panel collision happens.

7. High IP Rating Enables Safe And Stable Performance

•Fully waterproof design for outdoor display panel, IP65 rated cabinet, fanless and noise-free operation.

•Leakage protector provides more protection.

•Fan-less cabinet design enables noiseless operation thus to create better arena environment.

8. Wide Viewing Angle

- 160° viewing angle

- Enhance the shooting effect of the lateral camera.

- Promote better advertising revenue.

9. High Refresh Rate

- High refresh rate guarantees stable picture display without smear, flicker, and frame loss phenomenon, which is perfect for television broadcasting needs under the shooting of professional camera and telecamera.

- With efficient optical fiber transmission system, the product can reduce the signal delay caused by the long transmission distance in football field, and ensure the consistency of picture playing.

Low Refresh Rate

High Refresh Rate

10. Independent Support Structure

- The foot stand can be retracted to the cabinet bottom.

- With independent support structure design, the panel will not collapse even under strong external impact.

Work Mode

Transportation Mode

11. Efficient Installation

- Panels can be connected quickly from left to right without any tools.

- The slot for wiring are reserved between the panels, ensuring neat product appearance without exposed cables.

- Adjusting valve in the panel bottom can overcome the unsatisfactory splicing seam caused by uneven ground.

- Efficiently save installation time.

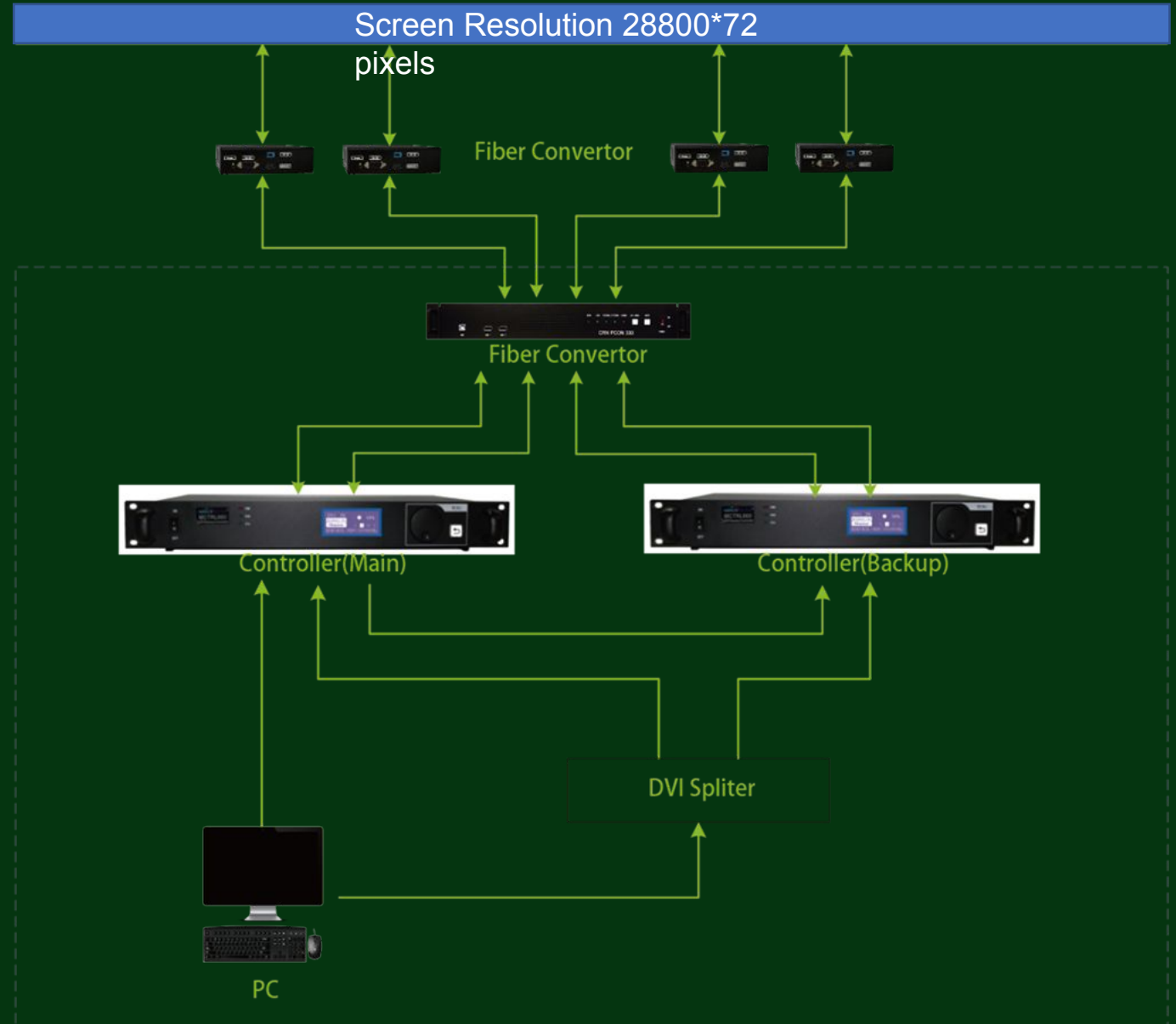Built-in Handel

Fast Connection Lock

Wire Slot

ARES ST (OUTDOOR)

12. Dual backup for signal and power supply (UEFA configuration is available)

- With dual backup function of signal and power supply, two computers can control the LED display at the same time. When one computer fails, another computer can automatically take over the control to ensure the normal operation of display screen.

13. System Diagram

Screen Resolution 28800*72 pixels

Fiber Convertor

Fiber Convertor

Controller(Main)

Controller(Backup)

DVI Spliter

PC

Product Performance Parameters

ARES ST

SPCIFICATION			
Name	ARES ST 6 (Indoor)	ARES ST 10 (Outdoor)	ARES LT 12.5 (Outdoor)
Model	SP-S 6250I	SP-S C100	SP-S C125
Pixel Pitch (mm)	6.25	10	12.5
LED Type	SMD	SMD	SMD
Brightness (cd / ㎡)	≥1000	≥6000	≥6000
Refresh Rate (Hz)	3840	≥10000	≥10000
Power Consumption (Max / Ave) (W/m2)	570 / 228	700 / 280	700 / 280
Module Resolution (px)	40×64	40×30	32×24
Module Size (mm)	250×400	400×300	400×300
Panel Resolution (px)	240×128 / 160×128	160×90	128×70
Panel Display Size (mm)	1500×800 / 1000×800	1600×900	1600×900
Panel Size (mm)	1500×800×120 / 1000×800×120	1600×955×120	1600×955×120
Weight (kg / ㎡)	30	31	31
IP Rating (Front/Rear)	IP40 / IP40	IP65 / IP65	IP65 / IP65
Gray Scale (Bit)	16	16	16
Maintenance	Front / Rear	Front / Rear	Front / Rear
Operating Temperature / Humidity (℃ / RH)	-20~40 / 10~90%	-20~50 / 10~90%	-20~50 / 10~90%

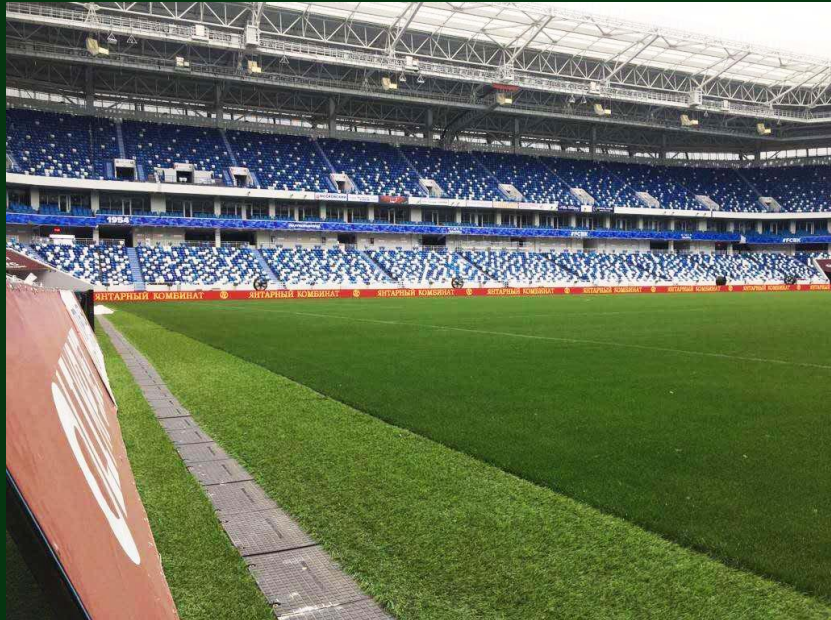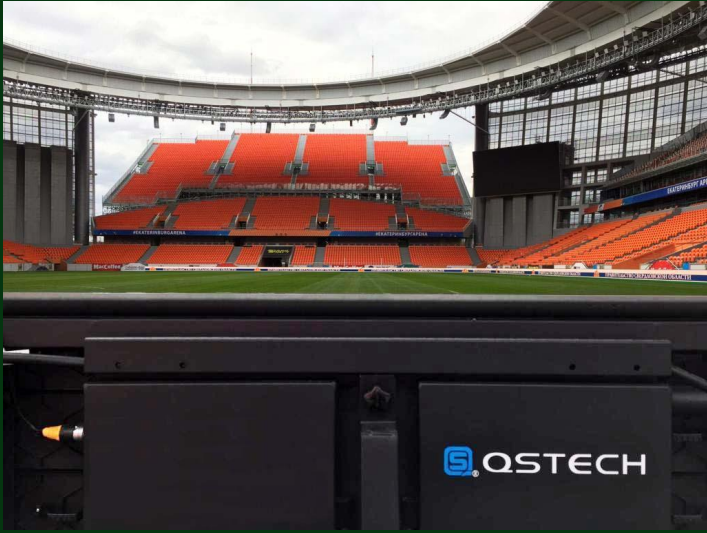· The above parameters are for reference only, and the configuration shall vary according to different projects.

Classic Cases

QSTECH stadium LED display solution made debut in **7 football stadiums** of 2018 FIFA World Cup Russia.

Kaliningrad Arena

Nizhny Novgorod Arena

Mordovia Arena

Samara Arena

Rostov Arena

Volgograd Arena

Yekaterinburg Arena

RUSSIA

Russia

Russia

Israel
Football Filed
AERS UEFA 10
226 sqm

Israel

San Juan, Puerto Rico
Central American and Caribbean Games
Ares 25
23 sqm

Puerto Rico

Italy
Football Field
Ares 16
13760×56 Pixels×4pcs

Italy

Cape Town, South Africa
Football Field
Ares 14.4
7200×60 Pixels
90 sqm

South Africa

Company Profile

QSTECH

LED Technology, Solutions & Services

ABOUT QSTECH

Established in July 1992, QSTECH Co., Ltd. was the first LED manufacturing enterprise in China, and gradually grew into a national high-tech enterprise specializing in LED application product R&D, production, sales and after-sales service.

So far, system integrators and end customers coming from more than 140 countries and regions have enjoyed competitive products and superior service of QSTECH.

Not only has QSTECH held cutting-edge and comprehensive product certifications and more than 70 independent R&D patents and software copyrights, but it has passed ISO9001, ISO14001, OHSAS18001, CE, CCC, RoHs, ETL, FCC, TUV, UL, EMC and other domestic and abroad recognized certifications.

QSTECH has always contributed itself in offering high-quality, reliable and cost-effective products.

QSTECH

A CVTE COMPANY

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