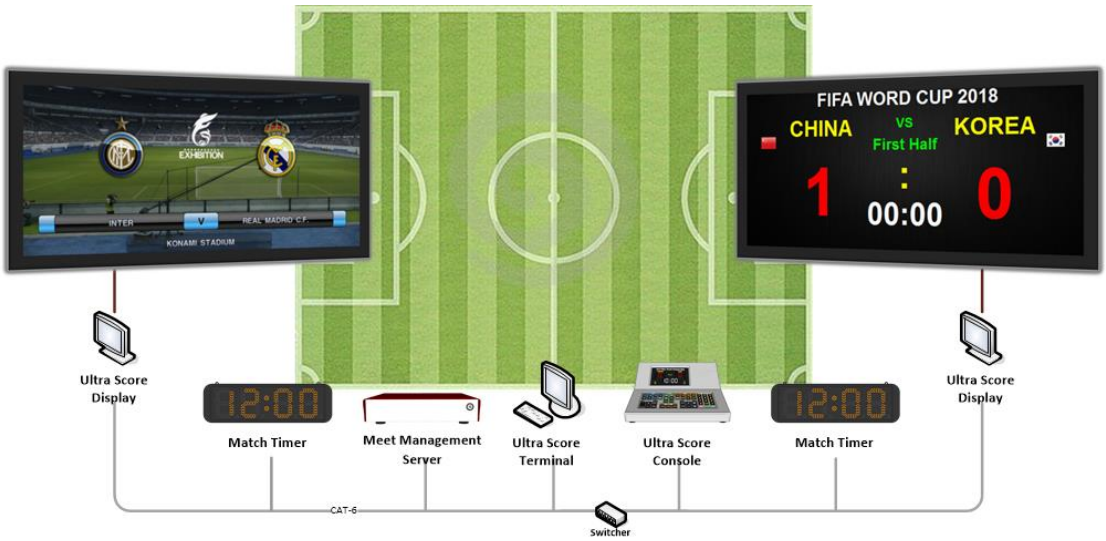
Scoring & Timing Solution

for Soccer

This is a general solution for LED display in soccer stadium which has the functions of scoring, timing and advertising notification, the information of referees and teams. It is an ideal choice for most of stadiums.

1. System Chart



1.1 System description

1) One or two LED screens are equipped for one court, controlled by two computers to display scoreboard, live video and advertisement.

2) Ultra score software is installed on the computer to accomplish the functions of event arrangement, scoring and timing, players and referees' information and advertisement.

3) The score console is equipped for one court, connected to PC running Ultra score software by wire or via WIFI, working as scoring and timing terminal special for referees' operation.

4) Match timer: Hanged on the court, display the match time synchronous with scoring system.

2. Specification for products

2.1 Ultra Score Software

Products	Details
Ultra Score	◆ Standalone edition ◆ Supports: Soccer ◆ Including 1 dongle
Ultra Score	◆ Standard network edition (Terminal + 1 Display) ◆ Supports: Soccer ◆ Including 1 dongle
Ultra Score	◆ Professional network edition (Terminal + Referee + 2 Display) ◆ Supports: Soccer ◆ Including 1 dongle

Difference:

Standalone Edition:

Match management, Scoring, and Media display functions, all in one installed on a PC. Referee must do operation on the PC for display directly.

It is suitable for the stadium where has just one screen, which doesn't have strict needs of the scoring and timing accuracy.

Network Standard Edition:

Score terminal and media player functions can be installed on 2 PCs respectively. So that one independent PC can be setup on the courtside special for referee's operation, the other PC running as media player to manage the LED display.

It is suitable for the stadium where has one screen, needs to do the scoring and timing on the courtside.

Network Professional Edition:

Except the function of score terminal, 1-3 media players can be equipped on PCs separately, in order to display different contents on several LED screens.

It is suitable for the stadium where has more than 2 screens where referee need to do scoring on the courtside and LED screens need to display different contents separately. (For example, one LED screen is for scoreboard and another is for advertising or player info).

Scoring interface for soccer

Score:

Player:

Referee:

FIFA WORD CUP 2018
Name
Region

Features

(1) Professional scoreboard display: Scoring and timing operation, layout of scoreboard can meet international game rules.

(2) Match management: Information of match, team, team members and referees can be saved in advance. And referee's scoring operation during the match can be recorded and output.

(3) Scoring functions: Modify the score of the team and player, operate player yellow/red card, player substitution, match timer control.

(4) Timing functions: Include operation and display of game time, pause, break time and system time.

(5) Convenient operation feeling: Referees can do operation on a special score console as well as by using shortcuts on the keyboard.

(6) Powerful media player: Kinds of media formats are supported. It is easy to switch between the scoreboard and video.

(7) Notification: Rolling to display short notice on the screen which allows to set the speed, colors, fonts freely.

(8) Customization: All contents on the scoreboard including fonts, color and layout can be modified to meet clients' needs.

(9) Self-adaptation: With easy configuration，score information can be displayed on kinds of LED and LCD screen by using this system which can adjust the layout to meet any sizes of screen.

(10) Security: Auto backup function will help you recover the match immediately from the computer fault.

2.2 Wire / Wireless Score Console

Item	Details
Score Console	Type: KS-GC16 Size: 330x290x140(mm) Shell: Plastic Display: Full color LCD (7 Inch) Communication: 1*Ethernet, 1*WIFI Functions: ◆ Used with the Ultra score software ◆ Support: basketball, volleyball, soccer, handball ◆ Working in the LAN or WLAN environment. ◆ Modify the score of the team and player. ◆ Player Yellow / Red card. ◆ Player substitution. ◆ Match timer control. Adjust the match timer.

2.3 Lite Console

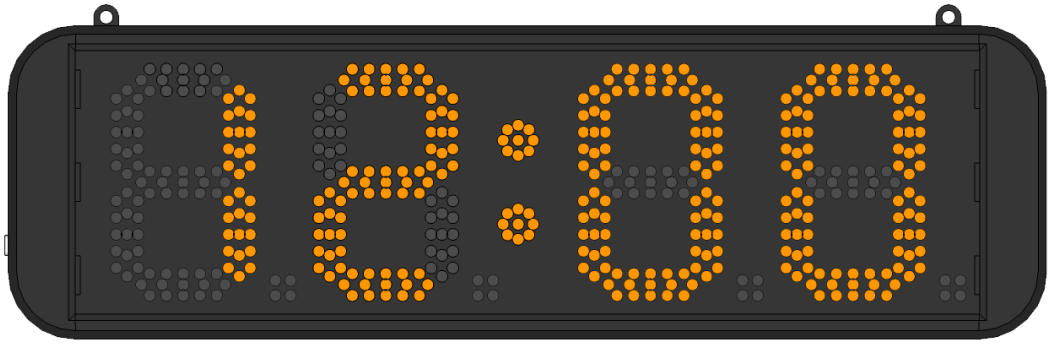
Item	Details
Lite Console	Type: KS-GC15 Size: 265x220x100(mm) Shell: Iron + Plastic Display: Color LCD (4.3 Inch) Communication: USB, RS485 Functions ◆ Used with the Ultra score software ◆ Support: basketball, volleyball, soccer ◆ Modify team score. ◆ Match timer control. Adjust the match timer.

2.4 Soccer Substitution Panel

Item	Details
Soccer Substitution Panel	Type：KS-SC20 Size：600x300x30(mm) Functions: ◆ Double sided board. ◆ Display the player number for substitution. ◆ Display the extra time.

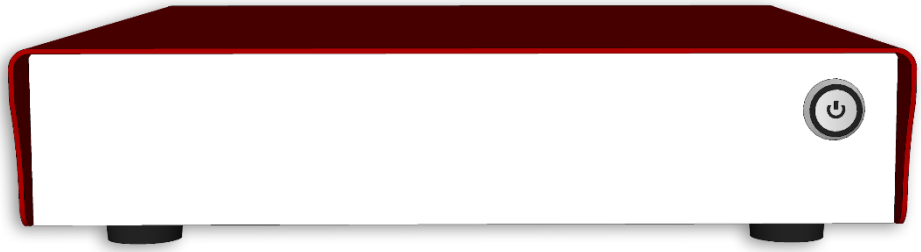
2.5 Match Timing Display

Item	Details
Match Timing Display	Type： KS-SCRN-7SEGMENT Size： 620x190x45(mm) Weight: 0.6 KG Color： Yellow Communication: RJ45 network cable Functions: Synchronously display the match time.



2.6 Meet Management Server

Products	Details
Meet Management Server	Type：KS-MMS-MINI Size: 170x150x35 (mm) Weight: 1.0 KG Features: ● Easy to create a match, and import the match entry information. ● Arrangement the match with variants of game systems. Including elimination, round-robin, etc. ● Provide the match information to the scoring software on each venue/court. ● Gather the real time score and statistics information from the scoring software. Monitor the progress of the match. ● Generate standard reports for the match, including start-list, results, combined results, ranking, etc. ● Print certifications with adjustable print templates. ● Print the team score report. ● Open interface with ODF compatible data feed.

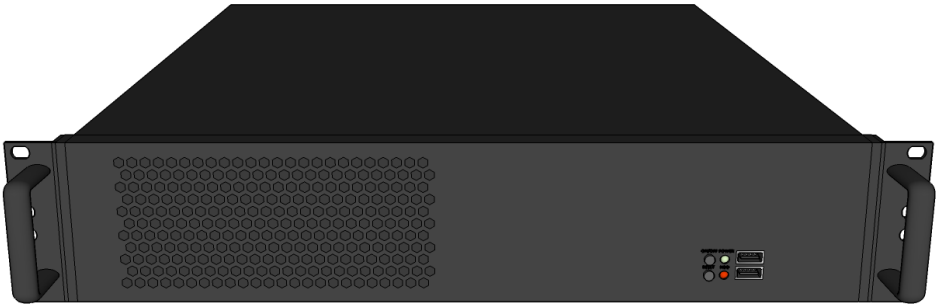


Item	Details	Item	Details
Products	Meet Management Server	Type	KS-MMS-2U
Input Voltage	AC 100~240V	Power	35W
Size	483x430x90mm（2U）	CPU	Intel I5
RAM	8GB	Hard disk	120GB
Resolution	1920×1080	Network port	LAN×2
Video output port	HDMI×1， DP×1	USB port	USB×4
Product Configuration	Host * 1 power cable * 1 user manual * 1		
Features			

1. Support match: Basketball, Soccer, Volleyball, Badminton, Table Tennis, Tennis, Handball, Futsal, etc.
2. Both import and input the players' information are available.
3. Auto draw the players' lots.
4. Auto generate, export and print the bracket.
5. Auto generate, export and print the order form.
6. Quickly export the result form (PDF & Excel).
7. Rank statistics quickly export and print.
8. Quickly export and print the event form of referee operation.
9. Multi-court arrangement, auto generate the order form.
10. Multi-project arrangement, make the schedule more smoothly.
11. Monitor the status of each court in real time, including the current field, rotation and player info.
12. Court adjustment, can manually modify the match court and session info.
13. Summary and print integrated report.

2.7 Video Arbitration Server

Products	Details
Video Arbitration Server	Type: KS-PARROT-2C/4C/6C/8C Video Input: 2/4/6/8 channels input synchronously; Input port: SDI; Output port: DP*2; Video Format: 1080P; Recording capacity: ≥ 10 hours; Multi-screen monitoring: supported; Weight: 8kg.



Software interface

Device Specification

Type	**KS-PARROT-2C/4C/6C/8C**
Size	485x480×90(mm)
Net Weight	8 KG
Color	Black
Cabinet	Iron
Interface	
Input	SDI*2/4/6/8
Output	DP*2
Environmental	
Operating Temp	-5℃～45℃
Storage Temp	-40℃～80℃
Relative Humidity	5%～95%, non-condensing
Input Voltage	AC 100V~240V
Functions	

- **Nonstop video recording in the background:** 2/4/6/8 channels of HD video are recorded simultaneously in the background, nonstop for 10 hours. Video retrieval and playback is unaffected.
- **Synch-playback of multi-channel video:** Supports playback mode of single channel video in full screen and multi-angle video in 2/4/6/8 windows.
- **Speed change in slow motion:** support 50 frame/s video playback and capture motion in a grid of 0.02s.
- **Video event query:** video stream can be divided into several video events, storing in the event list, which can be renamed for retrieve easily.
- **Video segment marker:** Important or controversial moments can be marked in video stream which will be replayed quickly when clicking the marked records.
- **Video signal output:** provides 2 video output signals, one of which is for preview, the other of which can be connected to LED/LCD display for live slow motion replay.

2.8 Control Panel

Products	Details
Control Panel	Type: KS-PARROT-CP Function: ◆ Support one touch replay, deferred replay, in/out replay. ◆ Preset speed button. ◆ T-Bar for dynamic slow motion. ◆ Professional dynamic jog wheel. ◆ Key to mark the last 10s/20s of the video content. ◆ Flexible select the marked video and playback.

Device Specification

Type	**KS-PARROT-CP**
Size	365 x 200 x 98 (mm)
Net Weight	1 KG
Cabinet	Iron
Display	Color LCD(4.3Inch)
Sound	None
Communication	
USB	≤5m
RS232	≤10m
Environmental	
Operating Temp	-5~45℃
Relative Humidity	5~95 %, non-condensing
Storage Temp	-40~80°C
Input Voltage	AC 100V-240V
Total Power	15W

2.9 HD Camera

Products	Details
HD Camera	Type: KS-PARROT-CAMERA

Device Specification

Product Type	KS-PARROT-CAMERA
Image sensor	SONY 1/2.8 inch Progressive CMOS
Effective pixels	3.1 million pixels
Signal System HD	1080p60/50，1080p30/25，1080i60/50，720p60/50
Signal system	PAL/NTSC
Lens	12x optical zoom，f=3.9mm（wide angle）~46.8mm（distal）
Horizontal view angle	72.5°（wide angle）~7.4°（distal）
Aggregation mode	Auto / Manual
Minimum illumination	0.1Lux

Shutter speed	1/1~1/10000S
Gain	Auto / Manual
White balance	Auto / Manual / Indoor / Outdoor
Image effect	Color / Black & White / Electron flip
S/N ratio	≥50dB
Horizontal shaking	355°（Maximum velocity 80°/s）
Pitching shaking	-30°~30°（Maximum velocity 60°/s）
Presetting bit	9 remote control and keyboard can set up to 200
Video output HD	HDMI、3G-SDI、USB2.0、USB3.0、RJ-45
Audio input	3.5mm LINE-IN
Power	12V DC（10.8~13.0V DC）
Operating temp	0℃~40℃
Storage temp	-20℃~60℃
Size	164x148x173mm
Power consumption	12W（DC 12V）
Weight	1050g
Color	Silver