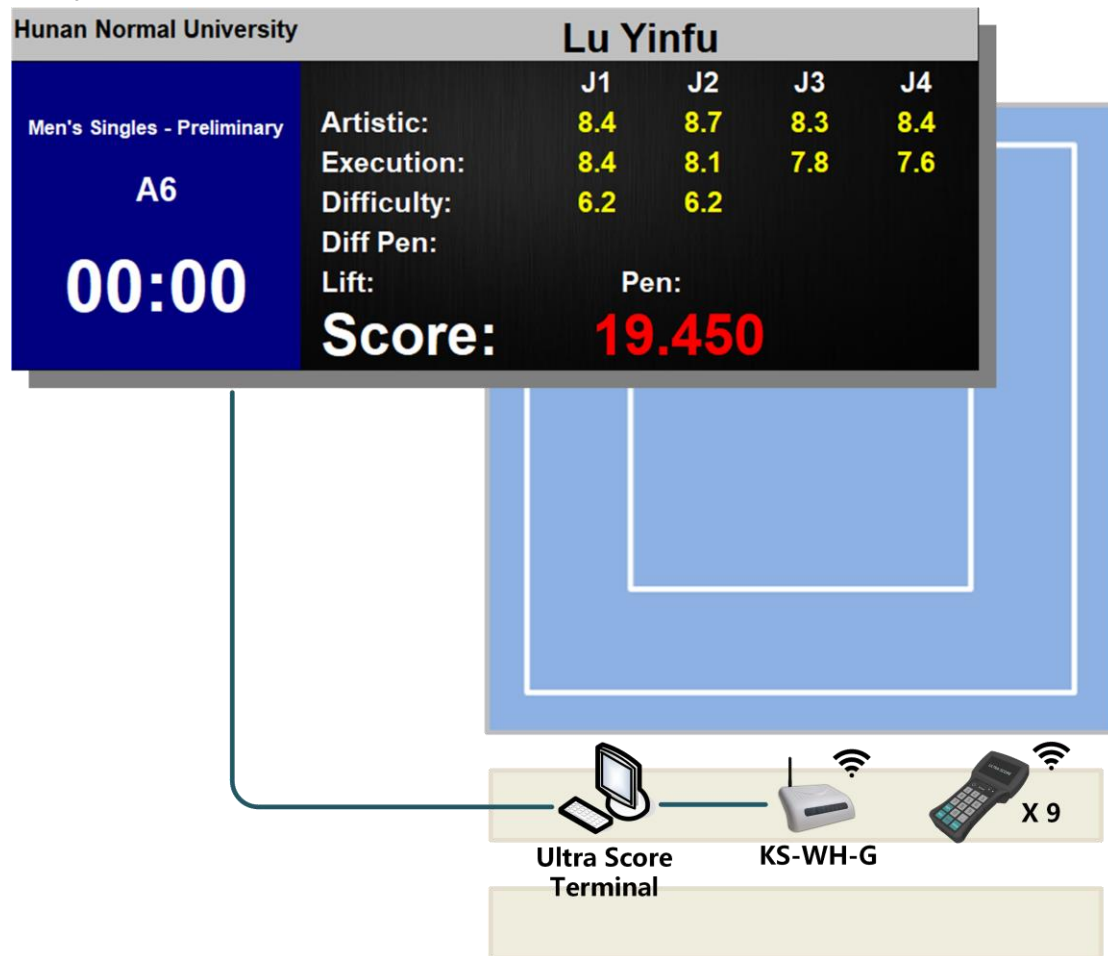


Scoring & Timing Solution for Aerobics

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

1. System Structure



1.1 Profile:

1. It supports aerobics scoring and real-time display on the screen.
2. Install the Ultra Score software on the control computer.
3. Connect the wireless host (KS-WH-G) with the control computer via a USB cable.
4. Each court will be equipped with 9 sets of wireless handheld to operate the player's score.
5. The score information will be gathered displaying on the LED screen at the same time.

1.2 Product Configuration (for one court)

| Product | Type | Qt. |
|---------------------------------|---------------------------------------------|-----|
| Match Scoring System | | |
| Ultra Score Software | ◆ Standalone Edition ◆ Support: Aerobics | 1 |
| Wireless Host | KS-WH-G | 1 |
| Wireless Handheld | KS-GC17 | 9 |
| Court Management Server | KS-CMS-G | 1 |
| PC | / | 2 |
| Printer | / | 1 |
| Video Arbitration System | | |
| Video Arbitration Server | KS-PARROT-2C | 1 |
| Control Panel | KS-PARROT-CP | 1 |
| HD Camera | KS-PARROT-CAMERA | 2 |
| Tripod for HD Camera | TRIPOD STANDARD | 2 |
| SDI Cable | CABLE-SDI-15 | 2 |
| LCD Monitor | 21.5 inch | 1 |

2. Specification for products

2.1 Ultra Score Software

| Products | Details |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ultra Score | <ul style="list-style-type: none">◆ Standalone edition◆ Supports: Aerobics◆ English version◆ Including 1 dongle |
| Ultra Score | <ul style="list-style-type: none">◆ Standard network edition (Terminal + 1 Display)◆ Supports: Aerobics◆ English version◆ Including 1 dongle |
| Ultra Score | <ul style="list-style-type: none">◆ Professional network edition (Terminal + Referee + 2 Display)◆ Supports: Aerobics◆ English version◆ 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 aerobics:

Welcome

Men's Singles - Preliminary

A6

Hunan Normal University

Lu Yinfu

Score

| Hunan Normal University | | Lu Yinfu | | | |
|--------------------------------------------|-------------|-------------|-----|-----|-----|
| Men's Singles - Preliminary A6 00:00 | Artistic: | J1 | J2 | J3 | J4 |
| | | 8.4 | 8.7 | 8.3 | 8.4 |
| | Execution: | 8.4 | 8.1 | 7.8 | 7.6 |
| | Difficulty: | 6.2 | 6.2 | | |
| | Diff Pen: | | | | |
| | Lift: | | | | |
| Score: | | Pen: 19.450 | | | |

Rank

| Men's Singles - Preliminary | | | |
|-----------------------------|------|--------|-------|
| Rank | Name | Region | Score |
| | | | |

2.2 Wireless Host

| Products | Detail |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Wireless Host | Type: KS-WH-G Size: 140x120x30 (mm) Communication: 433MHz Functions: <ul style="list-style-type: none">◆ Must be used together with Ultra score software.◆ Support: Aerobics◆ 9 sets of wireless handheld can be activated simultaneously.◆ Communication distance: 20m |



2.3 Wireless Handheld

| Item | Details |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Wireless handheld | Type: KS-GC17 Size: 120x220x70(mm) Functions: <ul style="list-style-type: none">◆ Must be used with the Ultra score software.◆ Communication: 433MHz◆ Modify the score of the player.◆ Support: Aerobics◆ Communication distance: 20m.◆ Standby time: 8 hours. |



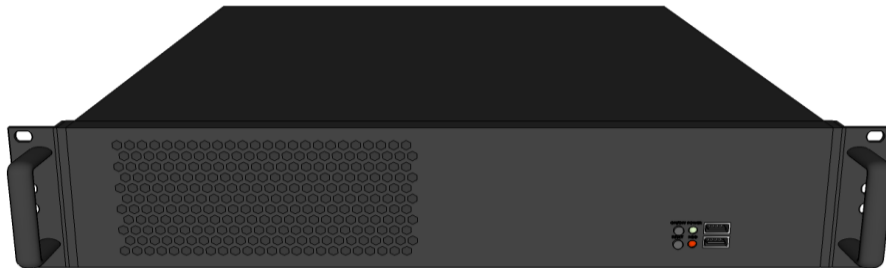
2.4 Court Management Server

| Item | Details |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Court Management Server | <p>Type: KS-CMS-G Size: 130x90x45 (mm)</p> <ul style="list-style-type: none">◆ Multi-court arrangement, auto generate the order form.◆ Multi-project arrangement, make the schedule more smoothly.◆ Monitor the status of each court in real time, including the current field, rotation and player info.◆ Court adjustment, can manually modify the match court and session info.◆ Summary and print integrated report. |



2.5 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 | 485x480x90(mm) |
| Net Weight | 8 KG |
| Color | Black |
| Cabinet | Iron |
| Interface | |
| Input | SDI*2/4/6/8 |
| Output | DP*2 |
| Environmental | |
| Operating Temp | -5°C~45°C |
| Storage Temp | -40°C~80°C |
| Relative Humidity | 5%~95%, non-condensing |
| Input Voltage | AC 100V~240V |
| Functions | |
| <ul style="list-style-type: none">● 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. | |

2.6 Control Panel

| Products | Details |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Control Panel | <p>Type: KS-PARROT-CP</p> <p>Function:</p> <ul style="list-style-type: none"> ◆ 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°C |
| Relative Humidity | 5~95 %, non-condensing |
| Storage Temp | -40~80°C |
| Input Voltage | AC 100V-240V |
| Total Power | 15W |

2.7 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°C~40°C |
| Storage temp | -20°C~60°C |
| Size | 164x148x173mm |
| Power consumption | 12W (DC 12V) |
| Weight | 1050g |
| Color | Silver |

3. Success Stories

2018 September, Aerobics Competition of the 11th University Sports Games of Hunan

