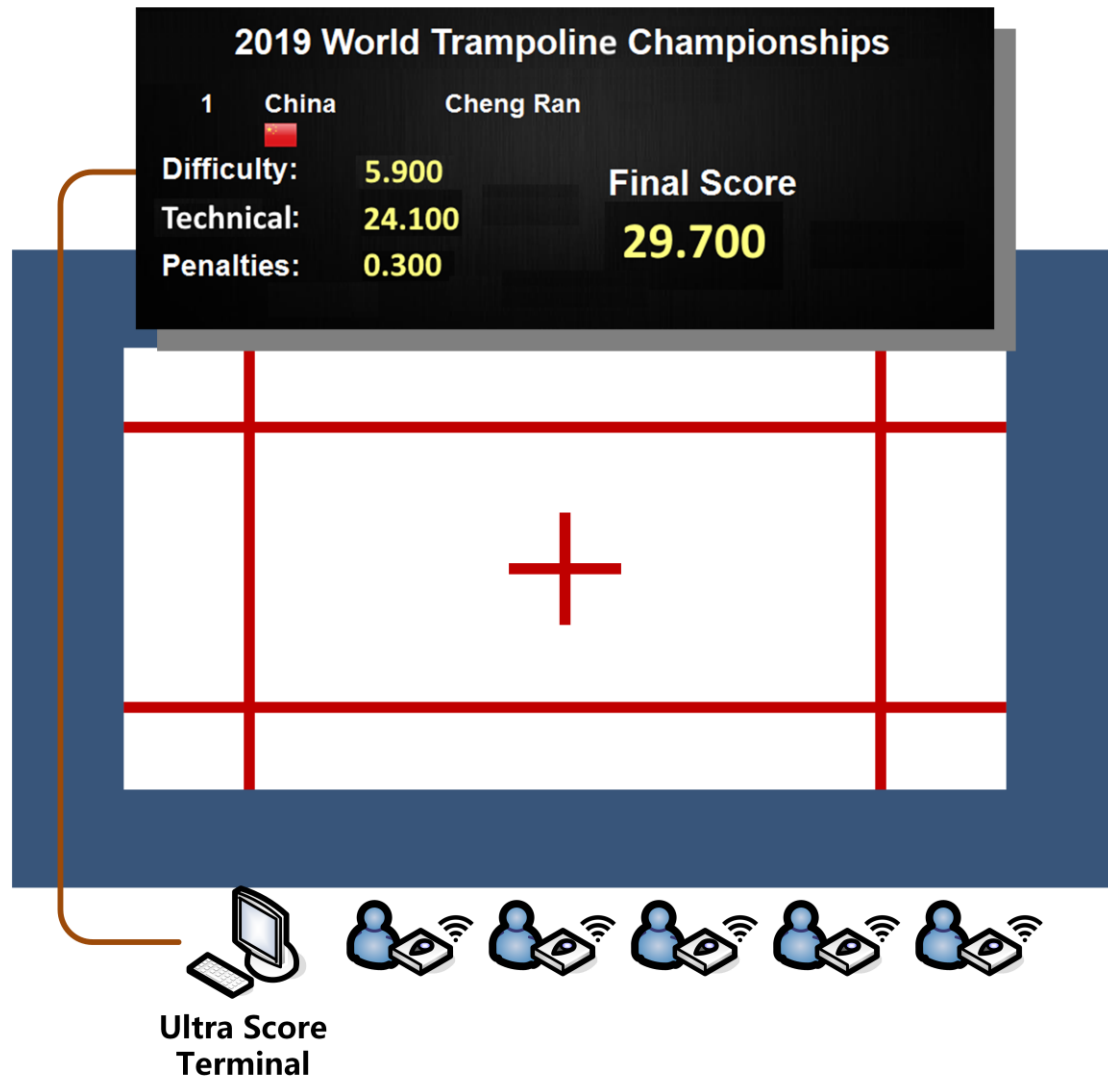


# Scoring & Timing Solution for Trampoline

This is a general solution for LED display in trampoline 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 trampoline 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.
<b>Match Scoring System</b>		
Ultra Score Software	◆ Standalone Edition ◆ Support: Trampoline	1
Wireless Host	KS-WH-G	1
Wireless Handheld	KS-GC17	9
Meet Management Server	KS-MMS-MINI	1
PC	/	2
Printer	/	1
<b>Video Arbitration System</b>		
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"><li>◆ Standalone edition</li><li>◆ Supports: Trampoline</li><li>◆ English version</li><li>◆ Including 1 dongle</li></ul>
Ultra Score	<ul style="list-style-type: none"><li>◆ Standard network edition (Terminal + 1 Display)</li><li>◆ Supports: Trampoline</li><li>◆ English version</li><li>◆ Including 1 dongle</li></ul>
Ultra Score	<ul style="list-style-type: none"><li>◆ Professional network edition (Terminal + Referee + 2 Display)</li><li>◆ Supports: Trampoline</li><li>◆ English version</li><li>◆ Including 1 dongle</li></ul>

#### 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 court side 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 court side.

##### 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 court side 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 trampoline:

2019 World Trampoline Championships			
1	China	Cheng Ran	
			
Difficulty:	5.900		Final Score
Technical:	24.100		29.700
Penalties:	0.300		

## 2.2 Wireless Host

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



### 2.3 Wireless Handheld

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



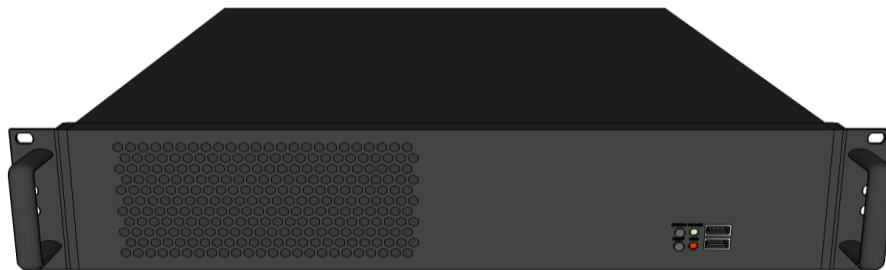
## 2.4 Meet Management Server

Products	Details
<b>Meet Management Server</b>	<p>Type: KS-MMS-MINI</p> <p>Size: 182x178x36(mm)</p> <p>Weight: 1.2 KG</p> <p>Features:</p> <ul style="list-style-type: none"><li>● Multi-court arrangement, auto generate the order form.</li><li>● Multi-project arrangement, make the schedule more smoothly.</li><li>● Monitor the status of each court in real time, including the current field, rotation and player info.</li><li>● Court adjustment, can manually modify the match court and session info.</li><li>● Summary and print integrated report.</li></ul>



## 2.5 Video Arbitration Server

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



## 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"><li>● <b>Nonstop video recording in the background:</b> 2/4/6/8 channels of HD video are recorded simultaneously in the background, nonstop for 10 hours. Video retrieval and playback is unaffected.</li><li>● <b>Synch-playback of multi-channel video:</b> Supports playback mode of single channel video in full screen and multi-angle video in 2/4/6/8 windows.</li><li>● <b>Speed change in slow motion:</b> support 50 frame/s video playback and capture motion in a grid of 0.02s.</li><li>● <b>Video event query:</b> video stream can be divided into several video events, storing in the event list, which can be renamed for retrieve easily.</li><li>● <b>Video segment marker:</b> Important or controversial moments can be marked in video stream which will be replayed quickly when clicking the marked records.</li><li>● <b>Video signal output:</b> 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.</li></ul>	

## 2.6 Control Panel

Products	Details
Control Panel	<p>Type: KS-PARROT-CP</p> <p>Function:</p> <ul style="list-style-type: none"><li>◆ Support one touch replay, deferred replay, in/out replay.</li><li>◆ Preset speed button.</li><li>◆ T-Bar for dynamic slow motion.</li><li>◆ Professional dynamic jog wheel.</li><li>◆ Key to mark the last 10s/20s of the video content.</li><li>◆ Flexible select the marked video and playback.</li></ul>



**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