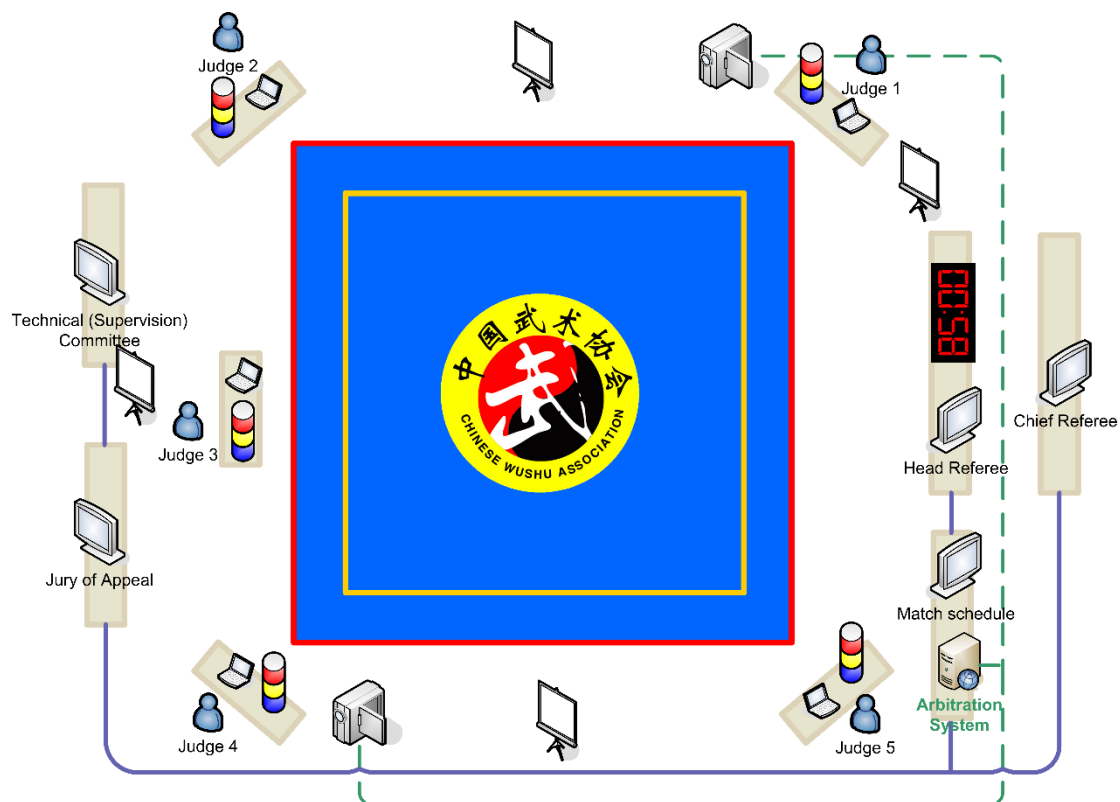


Scoring & Timing Solution for Wushu Sanda

1. System Chart



1.1 Profile

Timing and scoring system for Wushu Sanda includes match scoring system and video arbitration system.

Match scoring system: Support for referees' scoring; Display various scoring information; Record results and generate reports.

Video arbitration system: Record high definition videos during the match, and playback them in slow motion. It can be used to arbitrate the dispute during the match.

1.2 Functions

Event arrangement

- Both import and input the players' information are available.
- Auto draw the players' lots.
- Auto generate, export and print the bracket.
- Auto generate, export and print the order form.

Scoring operation

- Professional wireless scoring handheld supports adding points for the player.
- Display real-time score and device connection state.
- Modify the match time according to match category.
- Support extending multi-displays to show the match.

Results treatment

- Quickly print and export the result form.
- Rank statistics, quickly export and print.
- Quickly export and print the event form of referee operation.

System advantages

- With rich experience of tournament and stable system.
- Wireless scoring devices are easy to use without wiring.
- The information will auto save in case of power out and other emergency situations.
- We provide free upgrade service of software.

1.3 Product Configuration (for one court)

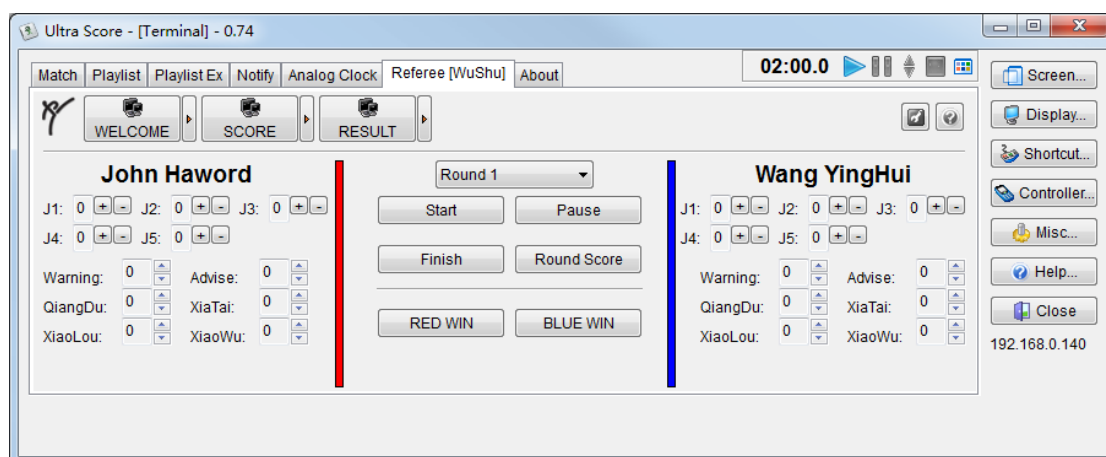
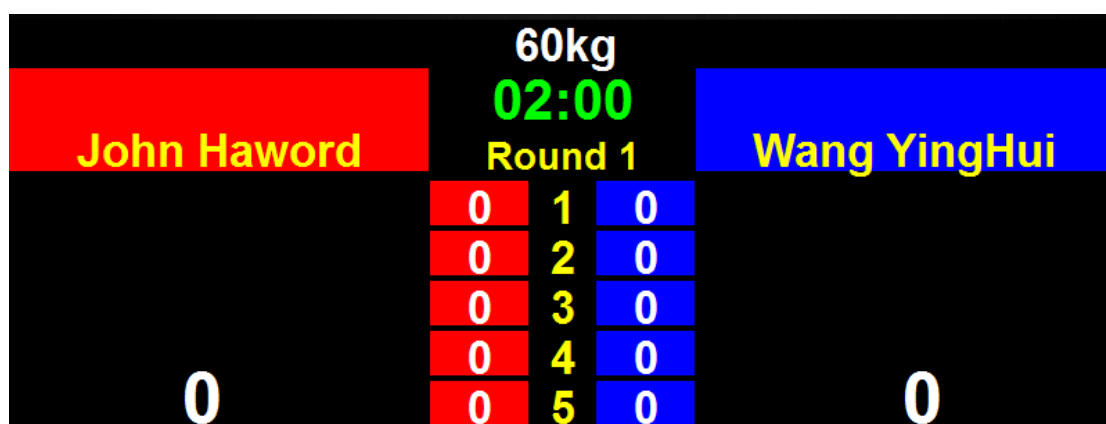
Product	Type	Number
Match Scoring System		
Ultra Score Software	Standalone Edition	1
Wireless Host	KS-WH-G	1
Wireless Handheld	KS-GC17	5
Winne Indicator	KS-WULT	1
Court Management Server	KS-CMS-G	1
PC	/	2
LCD Display	/	1
Video Arbitration System		
Video Arbitration Server	KS-PARROT-2C	1
Control Panel	KS-PARROT-CP	1
HD Camera	/	2
Tripod for HD Camera	/	2
SDI Cable	15m	2
LCD Monitor	21.5 inch	1

2. Specification for products

2.1 Ultra Score Software

Products	Details
Ultra Score Software	<ul style="list-style-type: none"> ◆ Standalone edition ◆ Supports: Wushu Sanda ◆ The referee operates the match on the PC for display directly. ◆ Display various scoring information. ◆ Record results and generate reports. ◆ English version ◆ Including 1 dongle

Display interface of Wushu Sanda:



2.2 Wireless Host

Products	Detail
Wireless Host	<p>Type: KS-WH-G Size: 140x120x30 (mm) Communication: 433MHz Function:</p> <ul style="list-style-type: none">◆ System: Must be used together with Ultra score software.◆ Support: Wushu Sanda◆ 5 sets of wireless handhelds can be activated simultaneously for one court.◆ Communication Setting: allow to customize the communication frequency band.◆ Communication distance: 20m



2.3 Wireless Handheld

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



2.4 Wireless Scoring Controller

Products	Details
Wireless Scoring Controller	<p>Type: KS-TKEP-C</p> <p>Size: 160*95*30mm</p> <p>Communication: 433MHz</p> <p>Function:</p> <ul style="list-style-type: none">◆ Support: Wushu Sanda.◆ Scoring: can add points for the player.◆ With vibration alerts while scoring.◆ Wireless communication distance up to 20m.◆ With long standby function.



2.5 Winne Indicator

Products	Details
Winner Indicator	Type: KS-WULT Size: 155*90*405mm Material: Plastic Power: 12V DC Function: <ul style="list-style-type: none">◆ Must be used together with Wushu Referee Terminal.◆ Show the color for winner in the Wushu Sanda match.



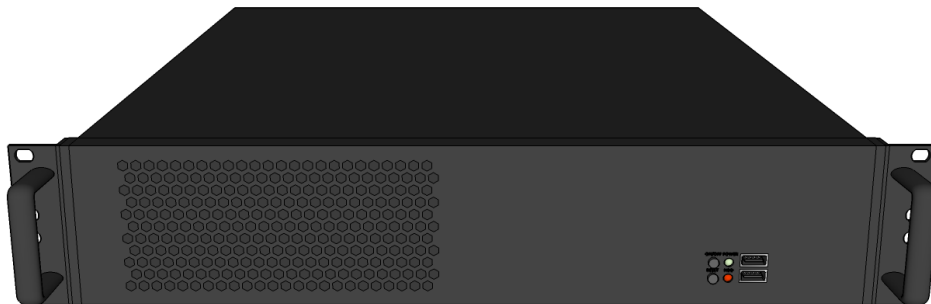
2.6 Court Management Server

Item	Details
Court Management Server	Type: KS-CMS-G Size: 130x90x45 (mm) <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.



2.7 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	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.	

2.8 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

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