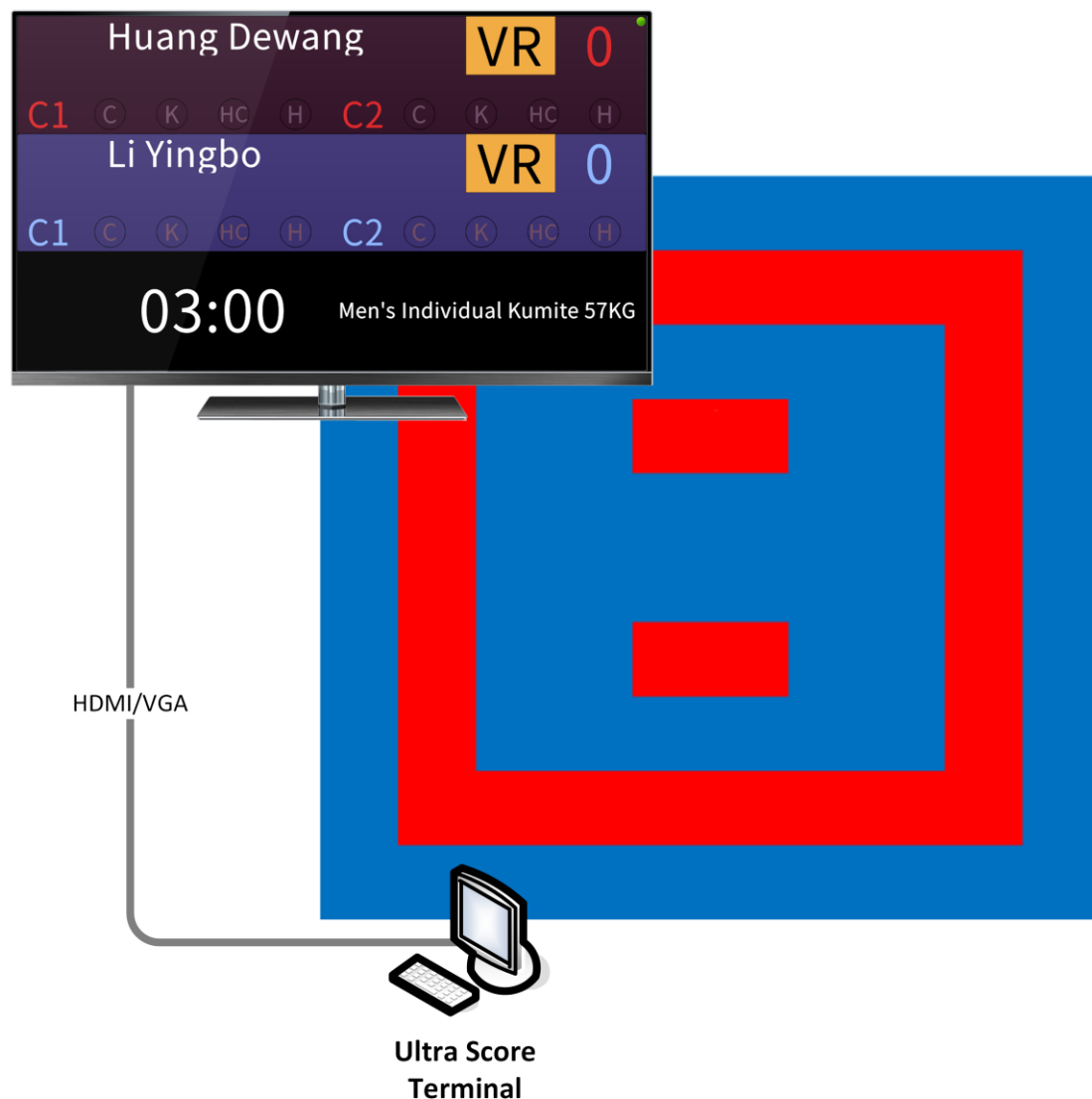


Scoring & Timing Solution For Karate

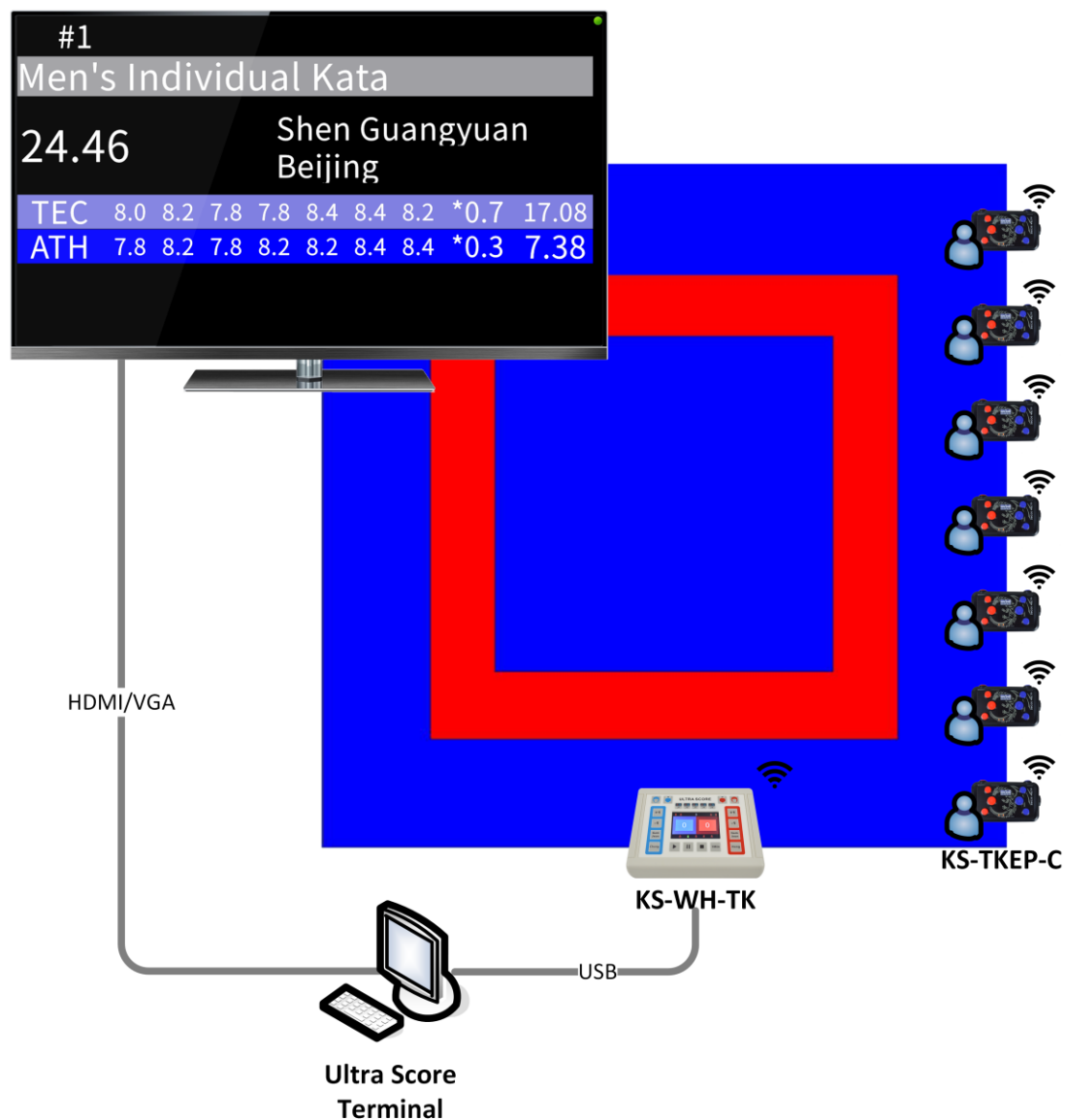
This is a general solution for LED display in karate stadium. It has the functions of timing, scoring, arranging the match, displaying advertisement, notification, the information of players and teams. It is an ideal choice for most of stadiums.

1. System Chart

Karate Kumite System Chart



Karate Kata System Chart



1.1 Connection description

- 1) Install the Karate Timing and Scoring software on the control computer.
- 2) Connect the Wireless Host (KS-WH-TK) with the control computer via a USB cable.
- 3) Connect the LCD display with the control computer via video cable.

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 controller supports making 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 Support: Karate Kumite, Karate Kata	1
Wireless Host	KS-WH-TK	1
Wireless Referee Controller	KS-TKEP-C	1
Meet Management Server	KS-MMS-MINI	1
PC	/	2
LCD Display	/	1
Printer	/	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
Standalone edition	<ul style="list-style-type: none">◆ Installed on one PC.◆ Supports: Karate Kumite, Karate Kata◆ English version◆ Including 1 dongle
Standard network edition	<ul style="list-style-type: none">◆ Terminal + 1 Display◆ Supports: Karate Kumite, Karate Kata◆ English version◆ Including 1 dongle
Professional network edition	<ul style="list-style-type: none">◆ Terminal + Referee + 2 Display◆ Supports: Karate Kumite, Karate Kata◆ 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 court side special for referee's operation, the other PC running as media player to manage the LED display.

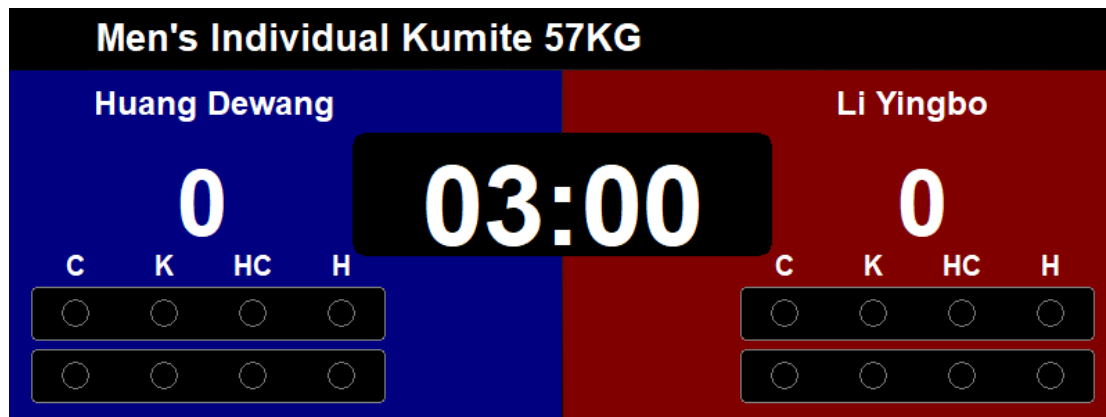
It is suitable for the stadium where has one screen, needs to do the scoring and timing on the court side.

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 karate kumite:



Men's Individual Kumite 57KG				
#	Category Level	BLUE	RED	Result
	Men's Int 1/4	Huang Dewan	Li Yingbo	
	Men's Int 1/4	Tian Jun	Zhao Zirun	
	Men's Int Semi-Fin	Xian Tianqi	Li Mofei	
	Men's Int Semi-Fin	Winner	Winner	
	Men's Int Final	Winner	Winner	

LCD display for karate kumite:



Scoring interface for karate kata:



Men's Individual Kata					
Rank	Name	Team	Technical	Athletic	Score
1	Tian Jun	Shanxi	18.10	7.32	25.42
2	Huang Dewan	Shanghai	18.11	7.12	25.23
3	Shen Guangyi	Beijing	17.08	7.38	24.46
4	Shen Guangyi	Guangzhou	17.22	7.22	24.44
5	Li Yingbo	Shandong	17.00	7.41	24.41

LCD display for karate kata:

#1

Men's Individual Kata

24.46

Shen Guangyuan
Beijing

TEC	8.0	8.2	7.8	7.8	8.4	8.4	8.2	*0.7	17.08
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ATH	7.8	8.2	7.8	8.2	8.2	8.4	8.4	*0.3	7.38
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2.2 Wireless Host

Products	Detail
Wireless Host	<p>Type: KS-WH-TK</p> <p>Size: 200x145x60 (mm)</p> <p>Communication: 433MHz Wireless</p> <p>Function:</p> <ul style="list-style-type: none"> ◆ Must be used together with Taekwondo Scoring Software. ◆ Support: Karate Kata. ◆ Wireless communication distance up to 20m. ◆ Support 7 wireless scoring controllers. ● Customize the communication band. ◆ Support multi-site match simultaneously.



2.3 Wireless Scoring Controller

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



2.4 Wireless Score Tablet

Item	Details
Wireless Score Tablet	<p>Type: KS-GC14</p> <ul style="list-style-type: none"> ◆ Including one license of Lightscore software ◆ Screen: 10"inch 2560*1600IPS ◆ Ram: 3GB ◆ Storage: 32GB ◆ Battery: 9300mAh ◆ System: Android 6.0 ◆ Supports: Karate Kata ◆ Communication: WIFI ◆ Full colored touch screen



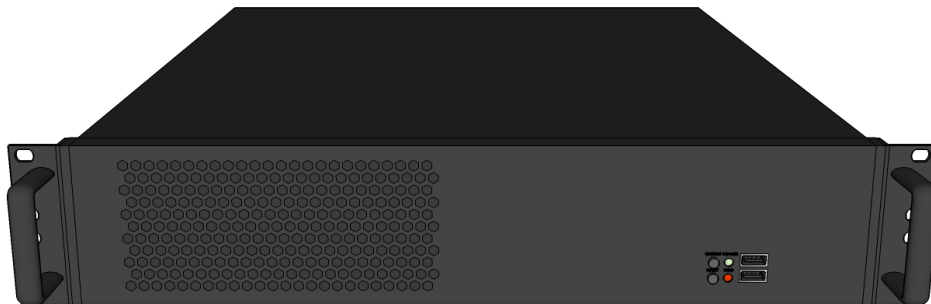
2.5 Meet Management Server

Products	Details
Meet Management Server	<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">● 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.



2.6 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.	

2.7 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

2.8 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