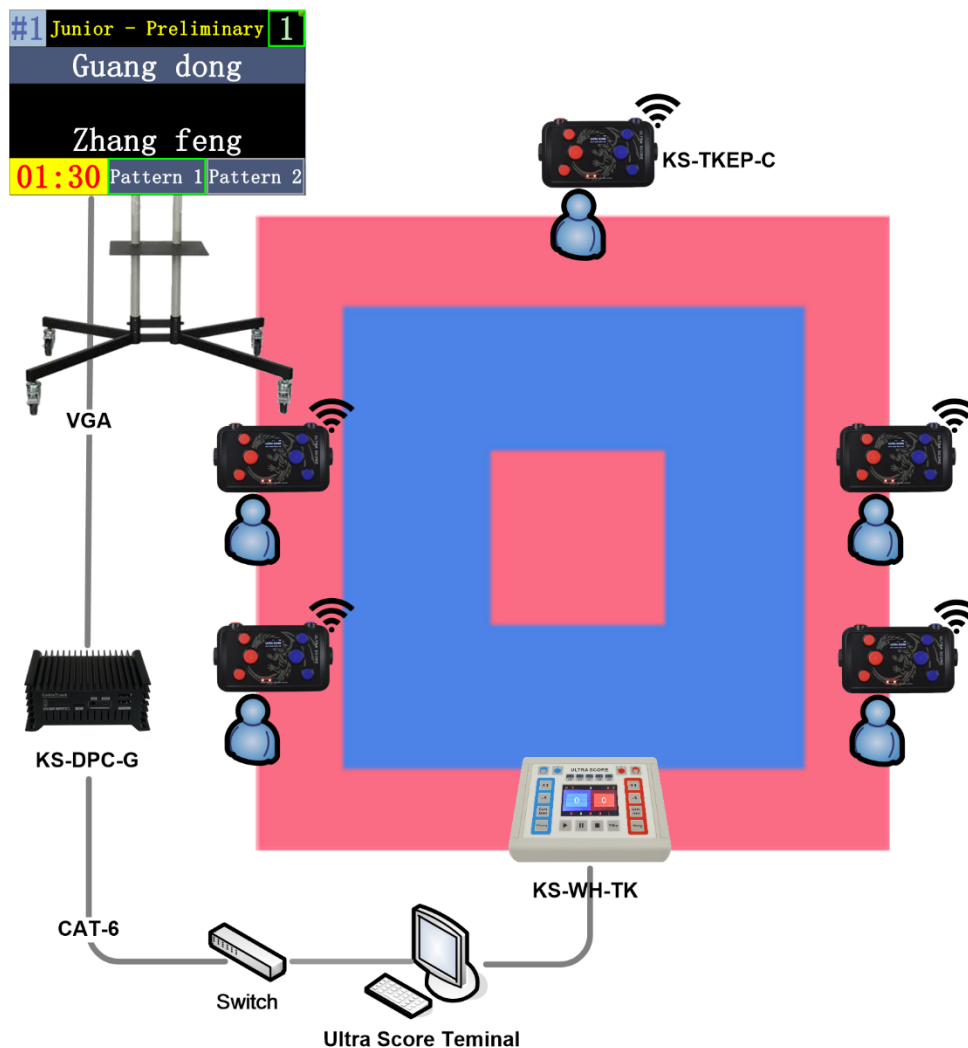


Timing and Scoring system for Taekwondo Poomsae

1. System Chart



- 1) The system is special for Poomsae which has the functions of scoring, timing and displaying on the mode of one court and multi courts.
- 2) It supports tournament schedule and result exporting.
- 3) It also has lots of multi-media functions which can switch between scores and advertisements display.
- 4) In every court, five sets of wireless scoring controllers, one set of PC and LED monitor shall be equipped to manage and display the information of the score, time and players.
- 5) The score information of every court will be gathered to display on the LED screen at the same time.

2. Products list for one court

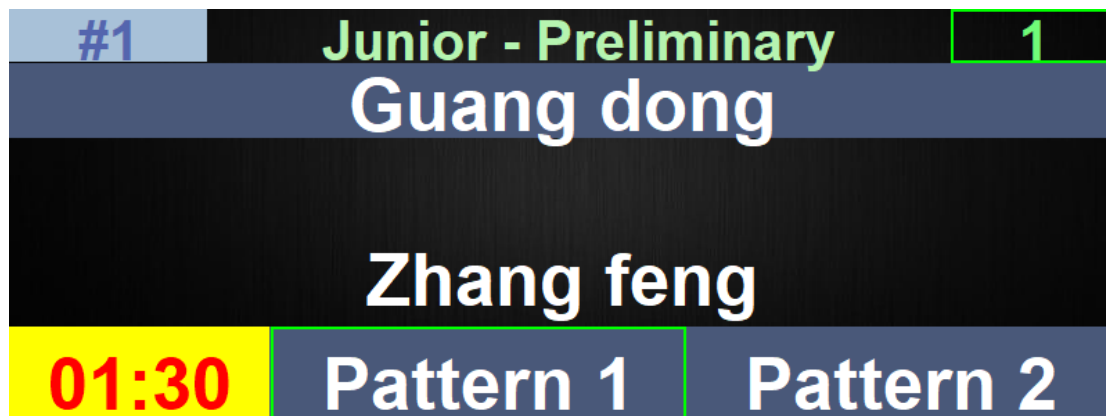
Products	Type	Number
Match Scoring System		
Ultra Score Software	Standalone edition	1
Wireless Host	KS-WH-TK	1
Wireless Scoring Controller	KS-TKEP-C	5
Court Management Server	KS-CMS-G	1
Score Display Controller	KS-DPC-G	1
LCD TV	55 inch LCD	1
Computer	Dell	2
Printer	HP	1
Video Arbitration System		
Video 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 Display	/	1

3. Specification for products

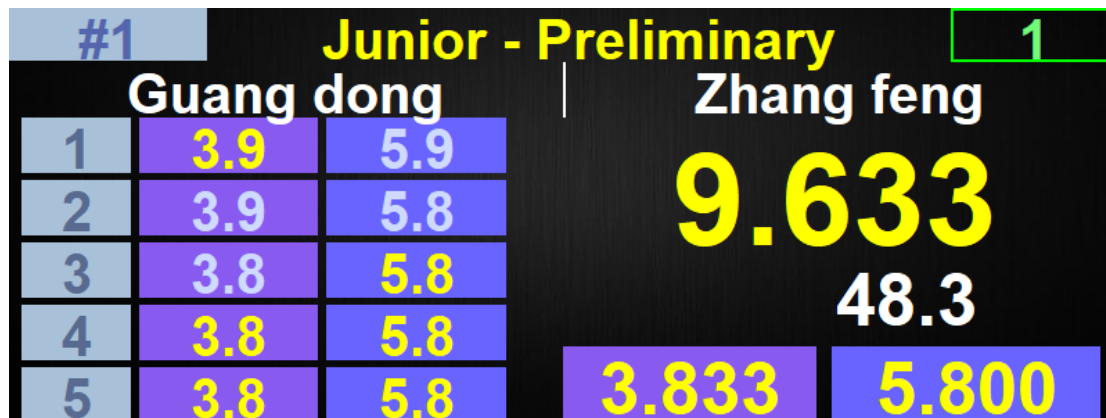
3.1 Ultra Score Software

Products	Details
Ultra Score	<ul style="list-style-type: none">◆ Standalone edition◆ Supports: Taekwondo Kyorugi, Poomsae◆ Including 1 dongle

Welcome display



Score Display



Result Display

#1

Junior - Preliminary

Guang dong

Zhang feng

9.633

3.833

5.800

48.3

9.633

Rank Display

Rank	Name	Region	Round		
			Accuracy	Presentation	Score
	Zhang feng	Guang dong			
	Li yu	Guang dong			
	Xu jin	Guang dong			
	Lin chao	Guang dong			
	Zhao kaijun	Guang dong			
	Ma xiaozan	Guang dong			
	Xia yuan	Guang dong			
	Sun yilei	Guang dong			

3.2 Wireless Host

Products	Detail
Wireless Host	<p>Type: KS-WH-TK Size: 200x145x60 (mm) Communication: 433MHz Wireless Function:</p> <ul style="list-style-type: none">◆ Must be used together with Taekwondo Scoring Software.◆ Wireless communication distance up to 20m.◆ Support 5 wireless scoring controllers.● Customize the communication band.◆ Support multi-site match simultaneously.



3.3 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: Poomsae.◆ Scoring: can make score for Poomsae.◆ With vibration alerts while scoring.◆ Wireless communication distance up to 20m.◆ With long standby function.



3.4 Court Management Server

Products	Details
Court Management Server	<p>Type: KS-CMS-G</p> <p>Size: 130x90x45(mm)</p> <p>Weight: 0.5KG</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.



3.5 Score Display Controller

Products	Details
Score Display Controller	<p>Type: KS-DPC-G</p> <p>Size: 142*87*62(mm)</p> <ul style="list-style-type: none">◆ In multi-court mode, used to display the information of the score, players and set for each court.◆ Output: 1024×768◆ Output score display to one LCD monitor.◆ Screen will be updated in real time based on the referee's operation.



Display Interface



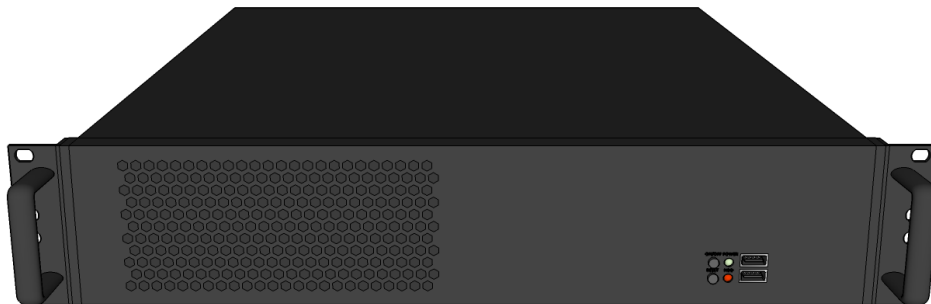
Device parameters

Model	KS-DPC-G
Platform	Freescale
Chassis	
Color	Black
Dimension	142mm × 87mm × 62mm (W×D×H)
Material	Aluminium alloy
CPU	Freescale Cortex™-A9 i.MX 6 series (Single-core/dual-core/ Quad Core CPUs)
Memory	Onboard 1GB/2GB DDR3 800MHz RAM
Storage	
Flash	Onboard 4GB/8GB iNAND flash
TF/HDD	1x SATA2,1x Micro SD(determined by the CPU model, optional)
System	
LAN	10/100/1000Mbps ,1x LAN,1x USB-WIFI, 3G (optional)
USB2.0	2x USB2.0 on front panel ,1x USB OTG
Serial Port	5X 4 -wire serial port, COM2: RS422/485
Display	1x HDMI, 1x VGA
Audio	1x Mic, 1x Headphone
Power	
Power Supply	DC +12V Power Adapter
Reliability	

Installation	Desktop Installation or Wall mount
Operating Temperature	-20°C~60°C
Storage Temperature	-40°C~80°C
Relative Humidity	5%~95%, relative humidity, non-condensing
Vibration Test	0.5grms/5~500Hz/random operating
EMC	CE/FCC Class B

3.6 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.	

3.7 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

3.8 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

4. Scene photos

