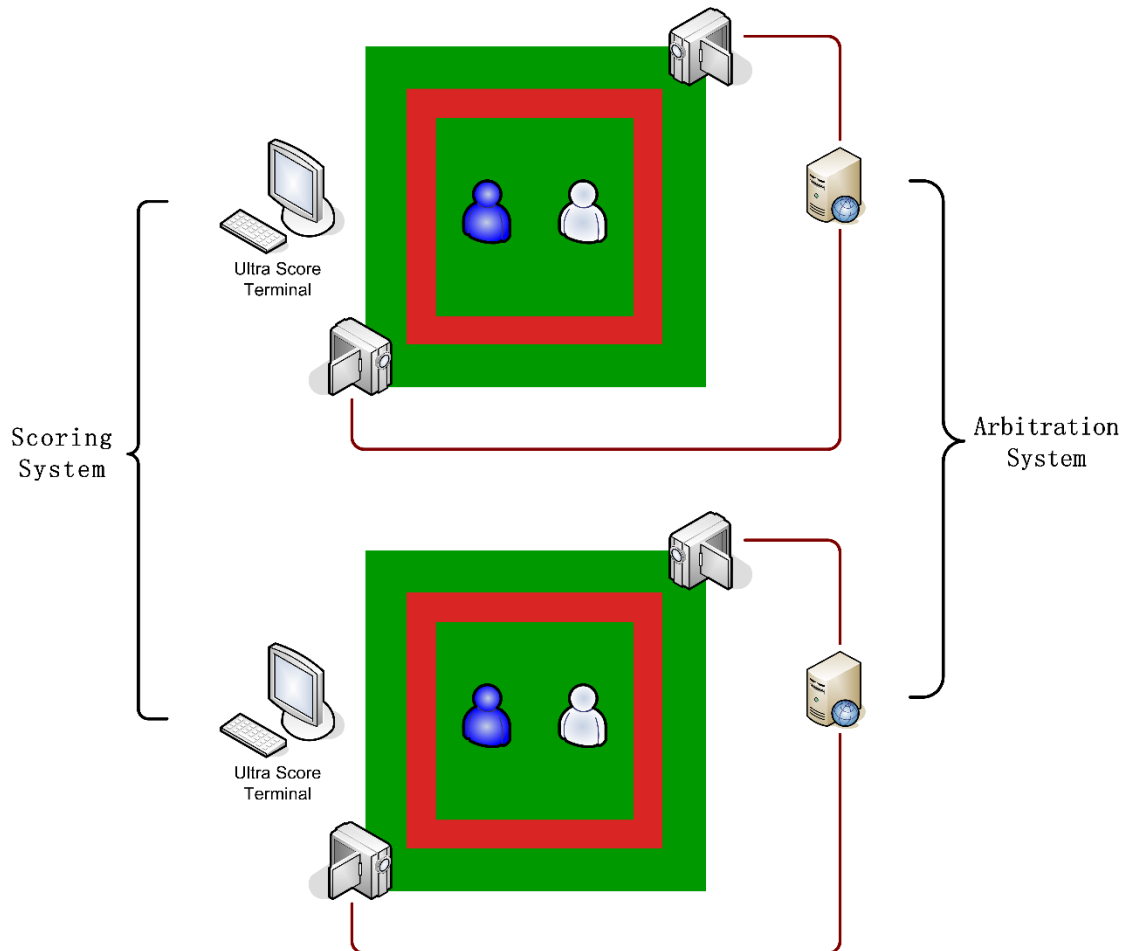


Scoring & Timing Solution For Judo

1. System chart



1.1 Profile

Timing and scoring system for judo includes match scoring system, video arbitration system and queue number display system.

Match scoring system: Support for Judo referee 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.

Queue number display system: It supports competition schedule, showing the information of the athletes who will attend current and next competition on the screen.

1.2 Product Configuration (for one court)

Product	Type	Number
Match Scoring System		
Ultra Score Software	Standalone Edition	1
Score Display Controller	KS-DPC-G	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
Queue Number Display system		
Queue Number Display Software	Standard Edition	1
PC	/	1
LCD Display	/	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: Judo◆ English version◆ Including 1 dongle
Standard network edition	<ul style="list-style-type: none">◆ Terminal + 1 Display◆ Supports: Judo◆ English version◆ Including 1 dongle
Professional network edition	<ul style="list-style-type: none">◆ Terminal + Referee + 2 Display◆ Supports: Judo◆ 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.

Standard Network 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.

Professional Network 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 Judo:

60
#1

Rishod Sobirov

UZB

Shido

I
0

W
0

04:00

Arsen Galstyan

RUS

Shido

W
0

I
0

Osaekomi

◀
▶

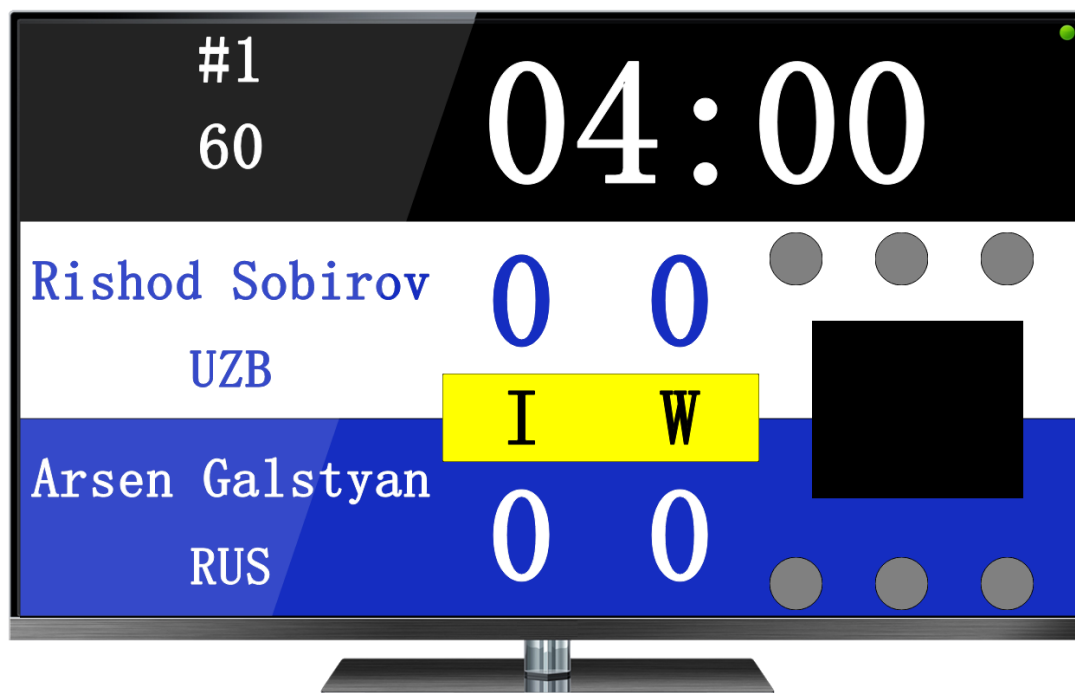
60						
#	Group	Level	WHITE	BLUE	Score	
#1	60	Semi-Fin	Rishod Sobirov UZB	Arsen Galstyan RUS		
#2	60	Semi-Fin	Hiroaki Hiraoka JPN	Elio Verde ITA		
#3	66	Semi-Fin	Sugoi Uriarte	Miklós Ungvári		
#4	66	Semi-Fin	Masashi Ebinuma	Lasha Shavduts		
#5	73	Semi-Fin	Wang Ki-Chul	Mansur Isaev		
#6	73	Semi-Fin	Dex Elmont	Riki Nakaya		
#7	60	Final	#1 Winner	#2 Winner		
#8	66	Final	#3 Winner	#4 Winner		
#9	73	Final	#5 Winner	#6 Winner		

2.2 Score Display Controller

Products	Details
Score Display Controller	<p>Type: KS-DPC-G 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

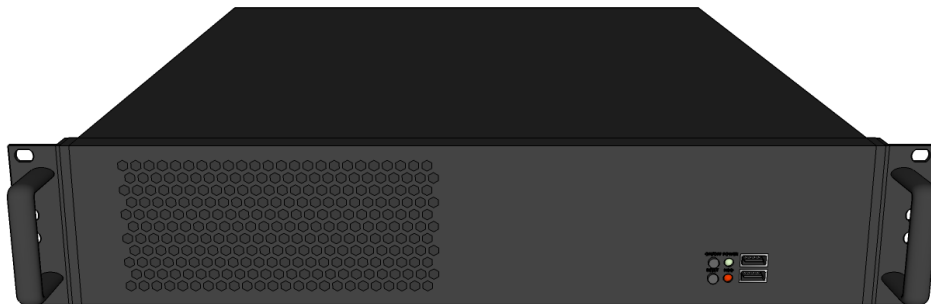
2.3 Court Management Server

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.



2.4 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.	

2.5 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

2.6 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

2.7 Queue number display software

Queue number display system for judo supports competition schedule, showing the information of the athletes who will attend current and next competition on the screen.

Software interface

	Number	Group	Level	Blue	Red	Score
1	#1	45	1.04	雷 山*	长宁	孙士强*
2	#2	45	1.04	林世江*	杨清	李新明
3	#3	45	1.04	冯 伟*	杨清	范一强*
4	#4	45	1.04	周 飞*	潘佐	廖理均*
5	#5	45	1.04	李国强	潘佐	李国强
6	#6	45	1.04	廖明祥	红口	陈国雄*
7	#7	45	1.04	李泽强*	潘佐	徐永辉
8	#8	45	1.04	黄 强	潘佐	王新强*
9	#9	45	1.04	徐国雄*	潘佐	周世强
10	#10	45	1.04	周国雄	长宁	张元强*
11	#11	45	1.04	周国雄	红口	徐一凡*
12	#12	45	1.04	王世强*	潘佐	廖明祥
13	#13	45	1.04	冯国雄*	潘佐	李 强
14	#14	45	1.04	王子强	潘佐	孙国雄*
15	#15	45	1.04	周国雄*	周行	沈国雄
16	#16	45	1.04	周国雄	第一、二站预赛2.28 (黄道)	王新强
17	#17	45	1.04	周国雄	潘佐	李 强
18	#18	45	1.04	冯 伟	潘佐	廖明祥*
19	#19	45	1.04	冯国雄*	潘佐	李国强
20	#20	45	1.04	林世江	长宁	李 强
21	#21	45	1.04	冯国雄	红口	周国雄*
22	#22	45	1.04	王子强*	潘佐	冯国雄*
23	#23	45	1.04	周国雄*	潘佐	李国强
24	#24	45	1.04	王 强	潘佐	李国强
25	#25	45	1.04	王世强*	周行	李 强
26	#26	45	1.04	周国雄	第一、二站预赛2.28 (黄道)	李 强
27	#27	45	1.04	徐国雄*	潘佐	王新强*
28	#28	45	1.04	周国雄	潘佐	罗国雄*
29	#29	45	1.04	周国雄	潘佐	王新强
30	#30	45	1.04	孙国雄*	长宁	冯国雄*
31	#31	45	1.04	王世强*	红口	周国雄
32	#32	45	1.04	李国雄	潘佐	李国雄
33	#33	45	1.04	李国雄*	潘佐	李国雄
34	#34	45	1.04	徐国雄	潘佐	王新强
35	#35	45	1.04	周子强*	长宁	李国雄

Shown on the screen.

