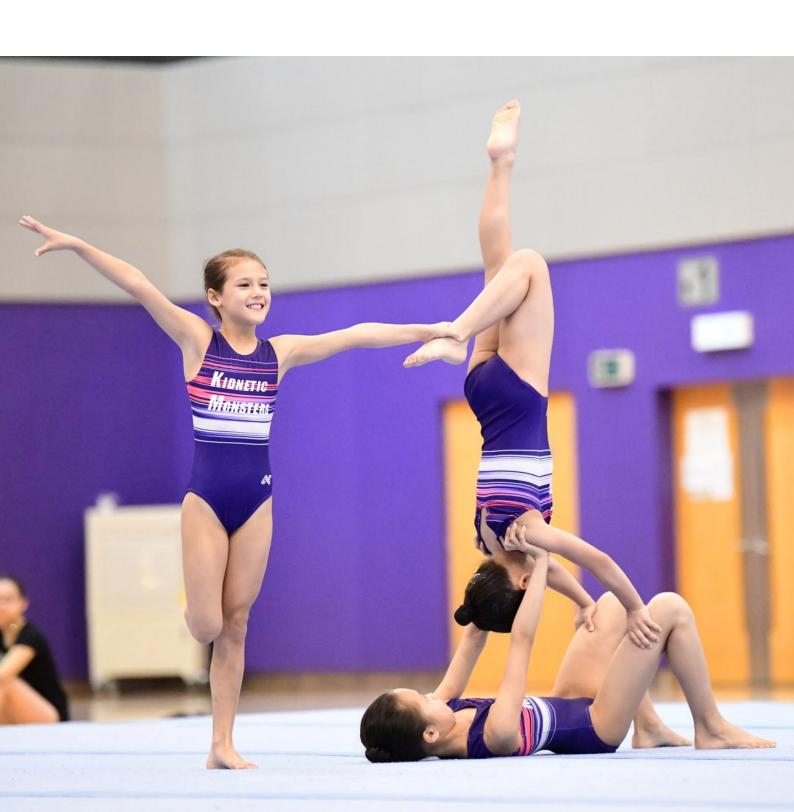


Scoring & Timing Solution for Acrobatic



1. Introduction

This is a professional solution for LED scoreboard display in Acrobatic competition.

The system functions conform to IFSA rules.

Match arrangement, real-time scoring & timing display, players' & referees' info display, rank statistics export & print, slow motion video record & playback, and advertising display can be realized through the coordination of Match Scoring System, Meet Management System, Video Arbitration System, etc.

It is an ideal choice for most of smart and professional stadiums.

1.1 System Architecture

The whole system is composed of several subsystems, including: Match Scoring System, Meet Management System and Video Arbitration System.

Each subsystem can not only work independently, but also work together to share the data.

It is flexible for customers to configure according to the actual application.

Match Scoring System

Match Scoring System named ULTRA SCORE is composed of Ultra Score Software, SCB Viewer, Wireless Score Tablet, etc.

It is mainly operated by the referees to realize the scoring and timing work and real-time scoreboard display.

Meet Management System

It is composed of Meet Management Server, On-Venue Results Workstation, Printer, etc. Linking with Online Registration System and Match Scoring System, it can realize: participants management, match schedule, result management, court arrangement, rank statistics, etc.

Video Arbitration System

Video Arbitration System named PARROT is composed of video arbitration server, control panel and cameras.

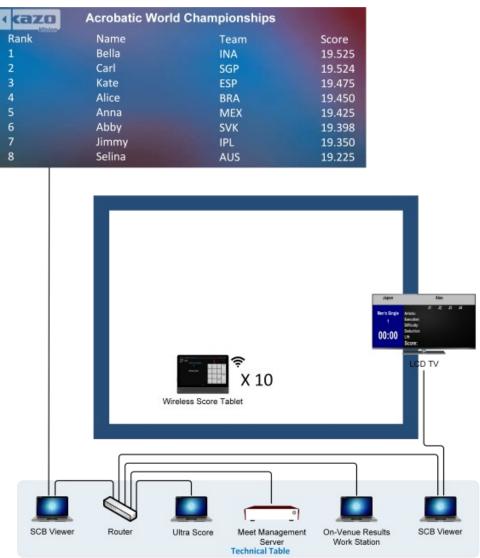
It is operated by the referees during the match. When working with Match Scoring System, referee's score operation will be marked on the frame of video automatically, whilst playback them in slow motion with changes in speed.

It can be used to provide the technical support when dispute happens during the match so as to reduce the misjudging, to ensure fairness and justice of the match.



Kazo Vision

1.2 System Chart



System Description

- 1. It supports acrobatic scoring and real-time display on the screen.
- 2. Install the Ultra Score software on the control computer.
- 3. Each court will be equipped with 10 sets of wireless score tablet to operate the player's score.
- 4. The score information will be gathered displaying on the LED screen at the same time.



1.3 Product Configuration (for one court)

Product	Туре	Qt.		
Match Scoring System	Match Scoring System			
Ultra Score Software	◆ Standalone Edition◆ Support: Acrobatic	1		
Wireless Score Tablet	KS-GC14	10		
Meet Management Server	KS-MMS-MINI	1		
PC	/	2		
Printer	/	1		
Video Arbitration System				
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	 ◆ Standalone edition ◆ Supports: Acrobatic ◆ English version ◆ Including 1 dongle
Ultra Score	 ◆ Standard network edition (Terminal + 1 Display) ◆ Supports: Acrobatic ◆ English version ◆ Including 1 dongle
Ultra Score	 Professional network edition (Terminal + Referee + 2 Display) Supports: Acrobatic 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).



Kazo Vision

Scoring interface for acrobatic:

Japan			Alex			
Men's Single 1 00:00	Artistic: Execution: Difficulty: Deduction: Lift: Score:	J1	J2	J3	J4	



2.2 Wireless Score Tablet

Products	Details
Wireless Score Tablet	Type: KS-GC14 ◆ Including one license of Lightscore software ◆ Screen: 10"inch 2560*1600IPS ◆ Ram: 3GB ◆ Storage: 32GB ◆ Battery: 9300mAh ◆ System: Android 6.0 ◆ Supports: Acrobatic ◆ Communication: WIFI ◆ Full colored touch screen



2.3 Meet Management Server

Products	Details
Meet Management Server	 Type: KS-MMS-MINI Size: 170x150x35 (mm) Weight: 1.0 KG Features: 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.
	5 January and print integrated report.



2.4 Video Arbitration Server

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



Software interface





Device Specification

Туре	KS-PARROT-2C/4C/6C/8C
Size	485x480×90(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% \sim 95%, non-condensing
Input Voltage	AC 100V~240V
Functions	

- 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
	Type: KS-PARROT-CP
	Function:
	 Support one touch replay, deferred replay, in/out replay.
Control Panel	◆ Preset speed button.
Control Panel	◆ 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

Туре	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
Video output	3G-SDI
Effective pixels	3.0 million
Max Resolution	1920*1080
Max Frame rate	60FPS
Sensor	CMOS
Focal length	4.2MM
Size	62.5*50*50MM