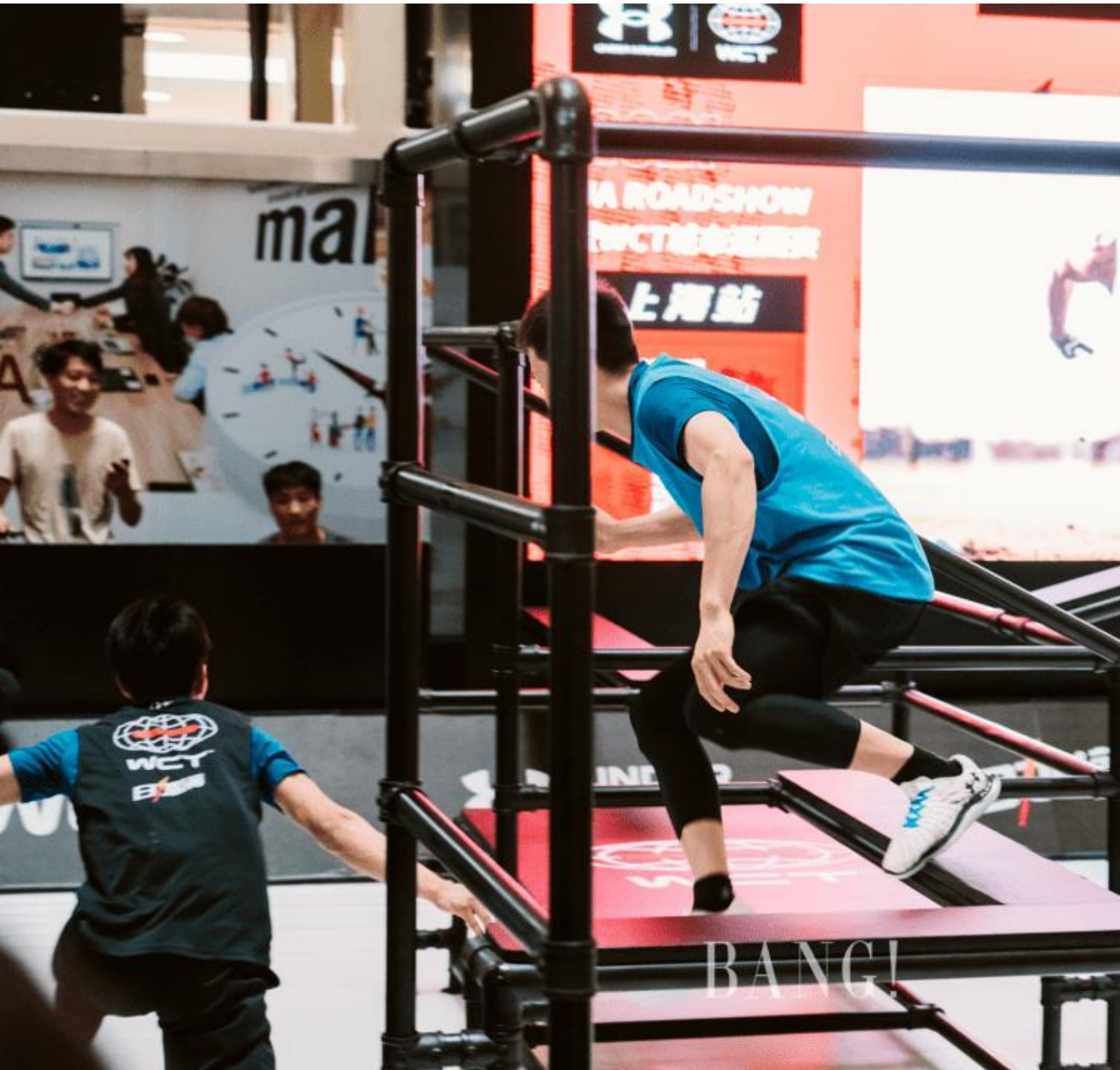
Scoring & Timing Solution for Chase



1. Introduction

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

1.1 System Architecture

The whole system is composed of several subsystems, including: Match Scoring System and Meet Management 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, Ultra Score Console, etc.

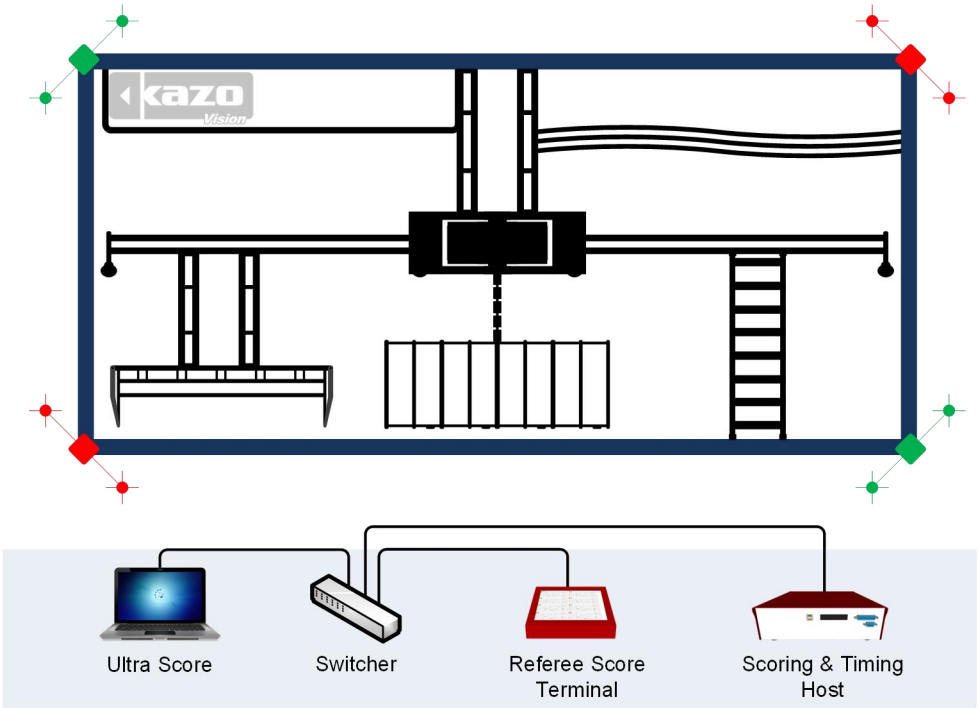
It is mainly operated by the referees to realize the scoring and timing work and real-time scoreboard display.

- **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, technical statistics, court arrangement, rank statistics, etc.

1.2 System Chart



System Structure Description

1) **LAN:** A LAN is set up in the stadium. Connect the LED control PC, Ultra Score Terminal PC,

Scoring & Timing Host, Referee Score Terminal, Meet Management Server, On-Venue Results Workstation and Printer to the LAN.

2) **LED Screen:** One or two LED screens are controlled by separate computers which connect with LED sending cards. Both of the LED screens can show the same contents or different contents as required.
3) **Match Scoring & Timing Host:** It is the core scoring & timing equipment which is installed in the Officials Table and has the function of hot backup.
4) **Referee Scoring & Timing Terminal:** Installed in the Officials Table for referee's operation of score. It can be connected to the LAN through network cable or WIFI.
5) **Meet Management Server:** It is the core data processing equipment which is installed in the Technical Table and connected to the LAN by network cable.
6) **Archery Timing Screen:** Connected with Match Scoring & Timing Host to display match timing and information of players and teams.
7) **Archery Mini Timing Screen:** Connected with archery timing screen to display match status and timing.

1.3 Functions

Event arrangement

- One key to import and to input the players' information are both available.
- To draw lots.
- To generate, export and print the bracket.
- To generate, export and print the order form.

Scoring & timing operation

- Supported match rules includes: Team knockout.
- To display countdown in a real time.
- To manage the match states.
- To manage the match round.
- To make a point.

Results treatment

- Quick printing and exporting the result form.
- Quick printing and exporting player rankings list.
- Quick printing and exporting the form of referee operations.

System advantages

- Information will be saved automatically in case of power out and other emergency situations.
- Providing free software upgrading service in lifetime.

2. Match Scoring System

2.1 Ultra Score Software

Products	Details
Standalone edition	◆ Installed on one PC. ◆ Supports: Chase ◆ English version ◆ Including 1 dongle
Standard network edition	◆ Referee terminal + 1 Display ◆ Supports: Chase ◆ English version ◆ Including 1 dongle
Professional network edition	◆ Referee terminal + 2 Display ◆ Supports: Chase ◆ 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 courtside 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 courtside.

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.

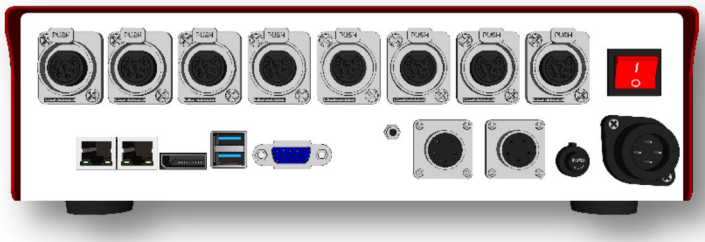
It is suitable for the stadium where has more than 2 screens where referee need to do scoring on the courtside and LED screens need to display different contents separately. (For example, one LED screen is for scoreboard and another is for advertising or player info).

Scoring and timing display for chase:



2.2 Match Scoring & Timing Host



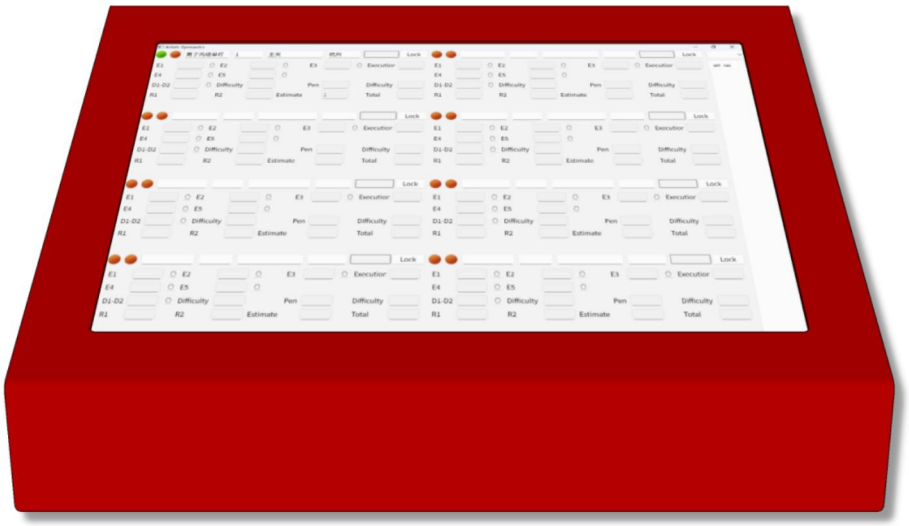


Match Scoring & Timing Host	
Type	KS-MONSTER
Size	260 x 280 x 80 (mm)
Support	Chase
Other	Supports hot switching of the main and backup servers.

Item	Details	Item	Details
Product	Match Scoring & Timing Host	Type	KS-MONSTER
Size	260 x 280 x 80 (mm)	Net weight	3 KG
Material	Iron	Power	100W
CPU	Intel J3160	RAM	8GB
Communication	RJ45×2	Hard disk	64GB
Video output	VGA×1, DP×1	Input voltage	AC 100~240V
Working Temp	0-60℃	Relative humidity	5%-95%, non-condensing
Language	Chinese, English	Timing accuracy	<=10ms
Port	G-Port×8, 24S port×2, Audio×1， USB port×2， Serial port×1		
Supporting games	Archery		
Functions			

1. Timer functions: Match timer control.
2. Scoring functions: Modify the score of the team and player.
3. Supports match rule setup.
4. Synchronous control of archery timing screen and archery mini timing screen.
5. Provides buzzer sound output, which can be connected to the venue's public address system or speakers.
6. Supports hot switching of the main and backup servers. In case of the main server fails, just manually switch to the backup server to ensure the data intact. And in case of power failure, the previous screen will be restored after restarting.
7. Supports the post-match celebration mode.
8. Supports real-time data output, which can be used for live broadcast.
9. Montioring the status of scoring devices, providing convenient fault diagnosis (with a separate monitor).
10. Anti-loose port ensure the safety of match data.

2.3 Referee Timing & Scoring Terminal



Item	Details	Item	Details
Product	Referee Timing & Scoring Terminal	Type	KS-GC18
Dimension	306x 228x 75 (mm)	Material	Metal
Touch LCD	11.6 inch	Resolution	1920*1080
OS	WIN 10	Battery	No Built-in Battery
Communication	LAN	Hard Disk	SSD 32GB
Video Output	HDMI*1	RAM	2GB
Functions			

1. Timing function: Match timer control.
2. Scoring function: Modify the score of the team and player.

2.4 Meet Management Server

Products	Details
Meet Management Server	Type： KS-MMS-MINI Size: 260x135x35 (mm) Weight: 1.0 KG Input Voltage: 12V DC RAM: 4GB CPU: Intel J3160 Hard Disk: 64G Communication: LAN*1 Port: VGA*1, DP*1， USB*2 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.

