



Scoring & Timing Solution for Breaking



1. Introduction

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

The system functions conform to international competition rules.

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

Applicable rules of the system:

- 《2021-2024 AER World Cup Rules》

2021 Hunan Youth Breaking Championship



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, Referee Scoring Software, SCB Viewer, Wireless Score Tablet, etc.

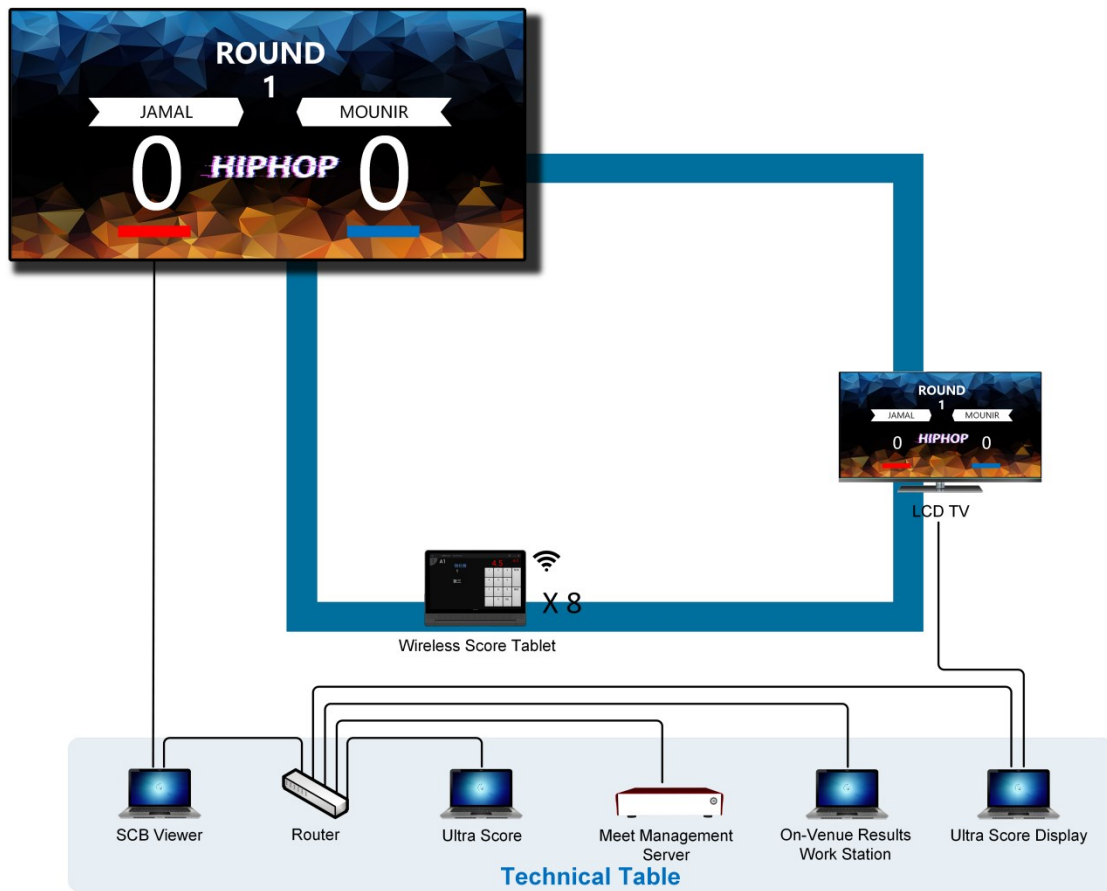
It is mainly operated by the referees to realize the scoring and timing work and real-time scoreboard display.

- **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.

1.2 System Wiring Diagram



System Description

- 1) **LAN:** A LAN/WLAN is set up in the stadium. Connect the LED control PC, Ultra Score Terminal PC, Referee Terminal, Wireless Host, Match Timer, 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) **LCD TV:** 1-2 LCD TVs sets in each court are connected to the referee's computer in each court through video cable for real-time display of single-court scoreboard.
- 4) **Referee's Computer:** A referee's computer installed with Ultra Score software is placed at the referee's table in each court for the timing and scoring of single-court match.
- 5) **Wireless Score Table:** Connect to the LAN via WiFi for match scoring.
- 6) **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.

1.3 Product Configuration (for one court)

Product	Model	Qt.
Match Scoring System		
Ultra Score Software	◆ Standalone Edition ◆ Support: Breaking	1
Score Display Software	SCB VIEWER	1
Wireless Score Tablet	KS-GC14-I11	8
Meet Management Server	KS-MMS-MINI	1
PC	/	2
Printer	/	1

2. Specification for products

2.1 Ultra Score Software

Products	Details
Ultra Score	<ul style="list-style-type: none">◆ Standalone edition◆ Supports: Breaking◆ English version◆ Including 1 dongle
Ultra Score	<ul style="list-style-type: none">◆ Standard network edition (Terminal + 1 Display)◆ Supports: Breaking◆ English version◆ Including 1 dongle
Ultra Score	<ul style="list-style-type: none">◆ Professional network edition (Terminal + Referee + 2 Display)◆ Supports: Breaking◆ 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.

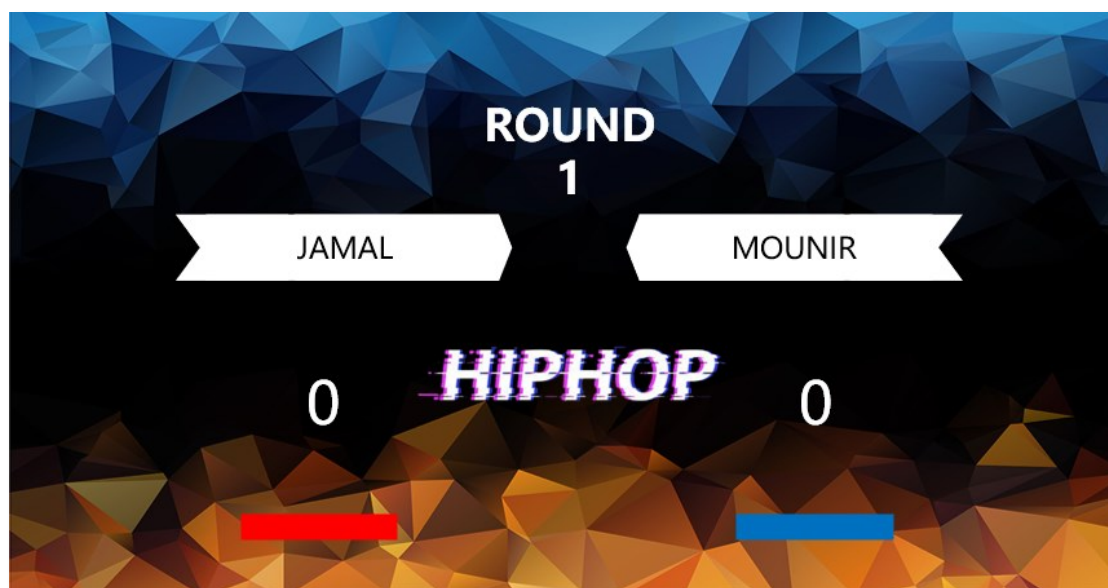
It is suitable for the stadium where has more than 2 screens where referee need to do scoring on the court side and LED screens need to display different contents separately. (For example, one LED screen is for scoreboard and another is for advertising or player info).

Scoring interface for Breaking:

Men's Solo Term Competition			
Rank	Name	Team	Score
	Yu Hanchao	Yueyang	
	Wu Xi	Chenzhou	
	Wen Jiabao	Changsha	
	Zao Yunding	Yueyang	
	Zhu Chengjie	Changsha	
	Zhang Lu	Chenzhou	
	Ma Zhen	Changsha	
	Moreno	Yueyang	
	Jin Yangyang	Changsha	
	Ai Di	Yueyang	
	Yang Xu	Chenzhou	

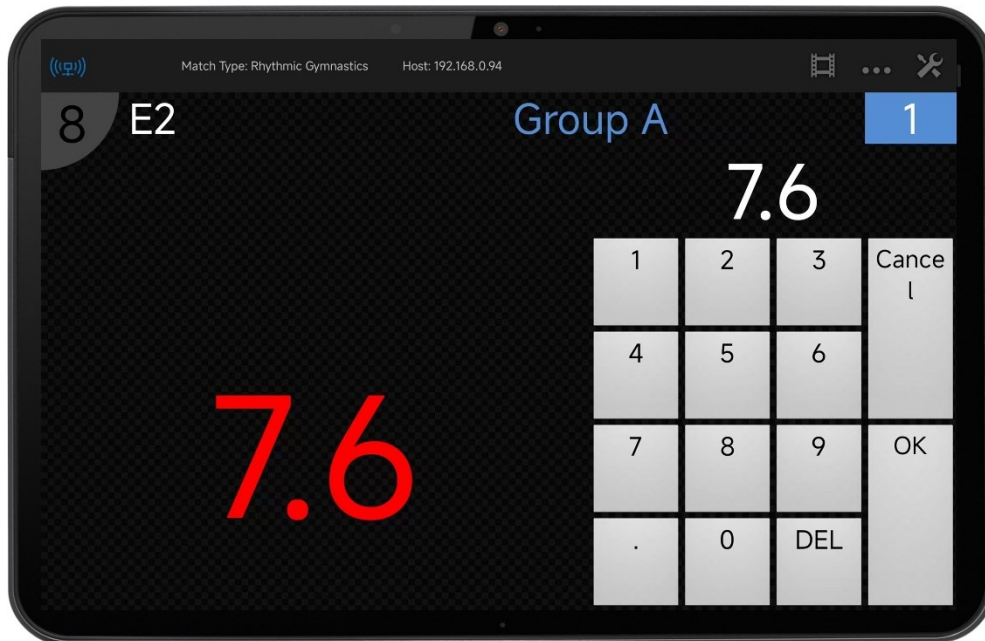
2.2 Score Display Software

Products	Details
Score Display Software	<p>Model: SCB VIEWER Support: Breaking</p> <ul style="list-style-type: none">◆ Layout of scoreboard can meet international game rules.◆ All contents on the scoreboard including fonts, color and layout can be modified to meet clients' needs.◆ Used for displaying player information, score and bureau score of a single court.◆ Used for displaying player information, score and bureau score of multiple sites.◆ The summary display screen can automatically adjust the display layout according to the competition process.◆ The picture is updated in real time according to the referee's operation.◆ Automatic data backup. In case of computer failure or power failure, the previous screen will be restored after restart.



2.3 Wireless Score Tablet

Products	Details
Wireless Score Tablet	<p>Model: KS-GC14-I11</p> <ul style="list-style-type: none"> ◆ Including one license of Lightscore software ◆ Screen: 11"inch ◆ Pixel: 1920*1200IPS ◆ Ram: 6GB ◆ Storage: 128GB ◆ Battery: 8000mAh ◆ System: Android ◆ Supports: Breaking ◆ Communication: WIFI ◆ Full colored touch screen

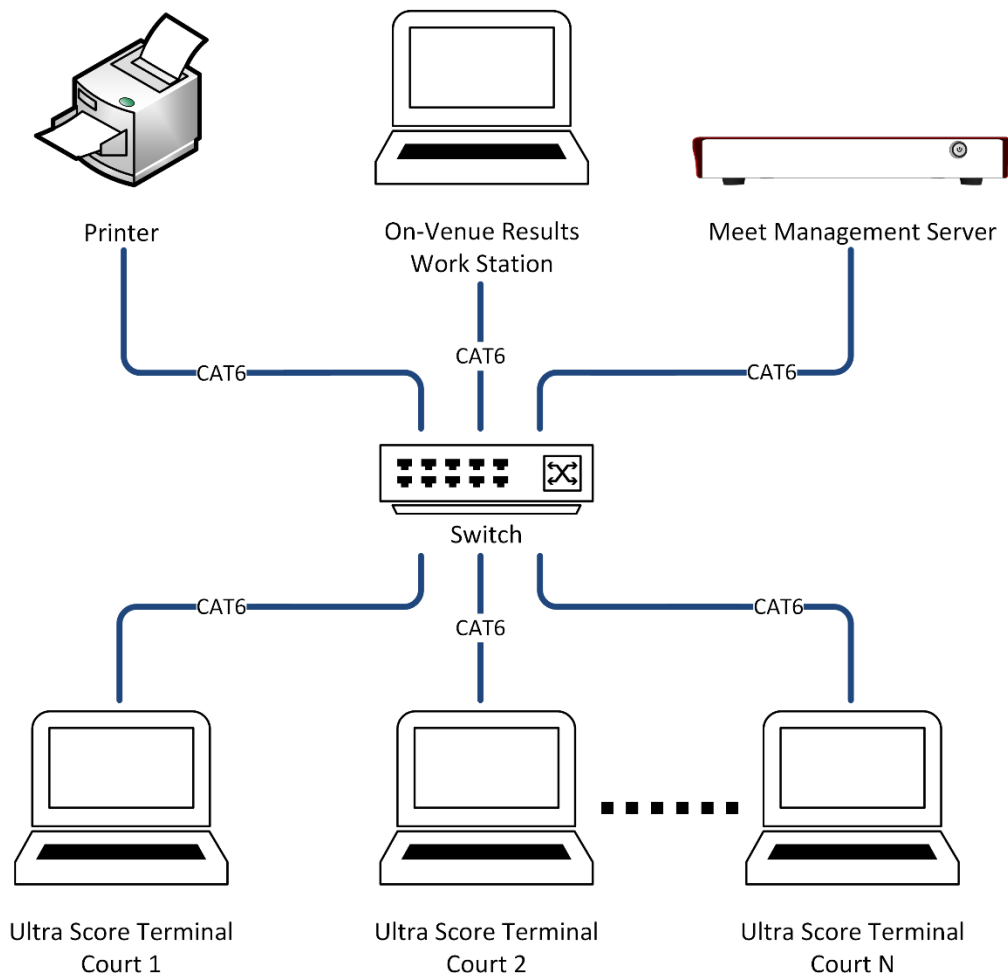


3. Meet Management System

It is composed of Meet Management Server, On-Venue Results Workstation, Printer, etc. Linking with Online Registration System, Match Scoring System and Basketball Stats System, it can realize:

- 1) **Participants Management:** Information management of players, teams and referees. Both import and input registration form are available. And auto generate the order form.
- 2) **Match Schedule:** Auto draw the players' lots. Multi-project arrangement make the schedule more smoothly. Auto generate the bracket, order form and round form.
- 3) **Result Management:** Receive or record the results. Determine the players' rank, admission or elimination at each stage. Print the results announcement and send to the LED display system, TV broadcasting system and comprehensive meet manage system.
- 4) **Technical Statistics Arrangement:** Combine with the basketball stats software, it can summarize the info of teams' score, teams' timeout, teams' foul, players' substitution, players' foul, players' comprehensive results, and generate the integrated report.

3.1 System Diagram



3.2 Meet Management Server

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

