



Scoring & Timing Solution for Rink Hockey



1. Introduction

This is a professional solution for LED scoreboard display in Rink Hockey stadiums.

Mainly for large-scale Rink Hockey matches which held in professional sports venues.

The system functions conform to FIH 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.

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 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.

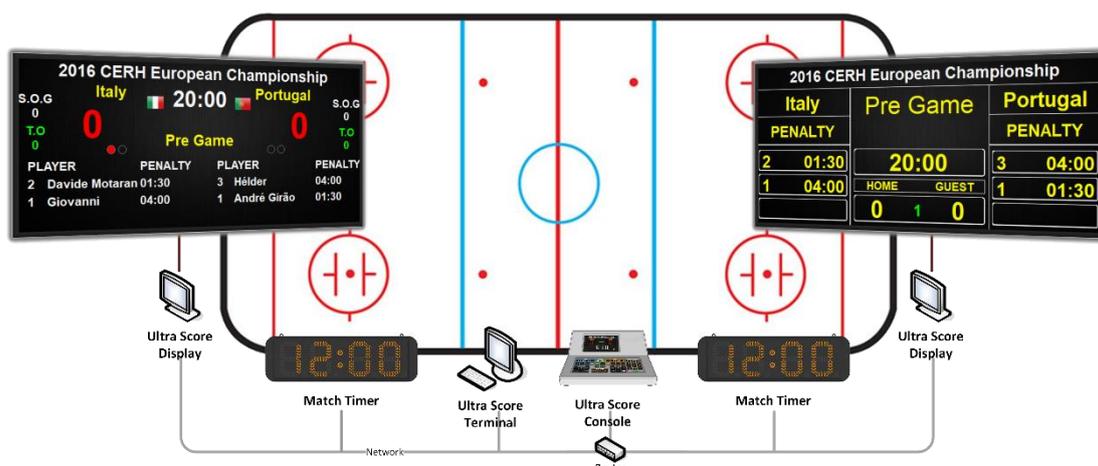
The system functions conform to FIH rules.

- **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 Structure



Description:

- 1) Full-color LED screen: One or two LED screens are equipped for one court, controlled by one computer to display scoreboard, live video and advertisement.
- 2) Ultra Score Software: Installed on the computer for LED control to accomplish the functions of event arrangement, scoring and timing, players and referees' information, and advertisement.
- 3) Score console: One score console is equipped for one court, connected to PC running Ultra score software by wire or via WIFI, working as scoring and timing terminal special for referees' operation.
- 4) Match timer: Hanged on the court, display the match time synchronous with scoring system.

2. Specification for products

2.1 Ultra Score Software

Products	Details
Standalone edition	<ul style="list-style-type: none">◆ Installed on one PC.◆ Supports: Rink Hockey◆ English version◆ Including 1 dongle
Standard network edition	<ul style="list-style-type: none">◆ Referee terminal + 1 Display◆ Supports: Rink Hockey◆ English version◆ Including 1 dongle
Professional network edition	<ul style="list-style-type: none">◆ Referee terminal + 2 Display◆ Supports: Rink Hockey◆ 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 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.

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 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 interface for rink hockey

2016 CERH European Championship

Italy  **20:00**  **Portugal**

0 **0** **Pre Game** **0**

S.O.G 0 T.O 0 S.O.G 0 T.O 0

PLAYER		PENALTY	PLAYER		PENALTY
2	Davide Motaran	01:30	3	Hélder	04:00
1	Giovanni	04:00	1	André Girão	01:30

2016 CERH European Championship

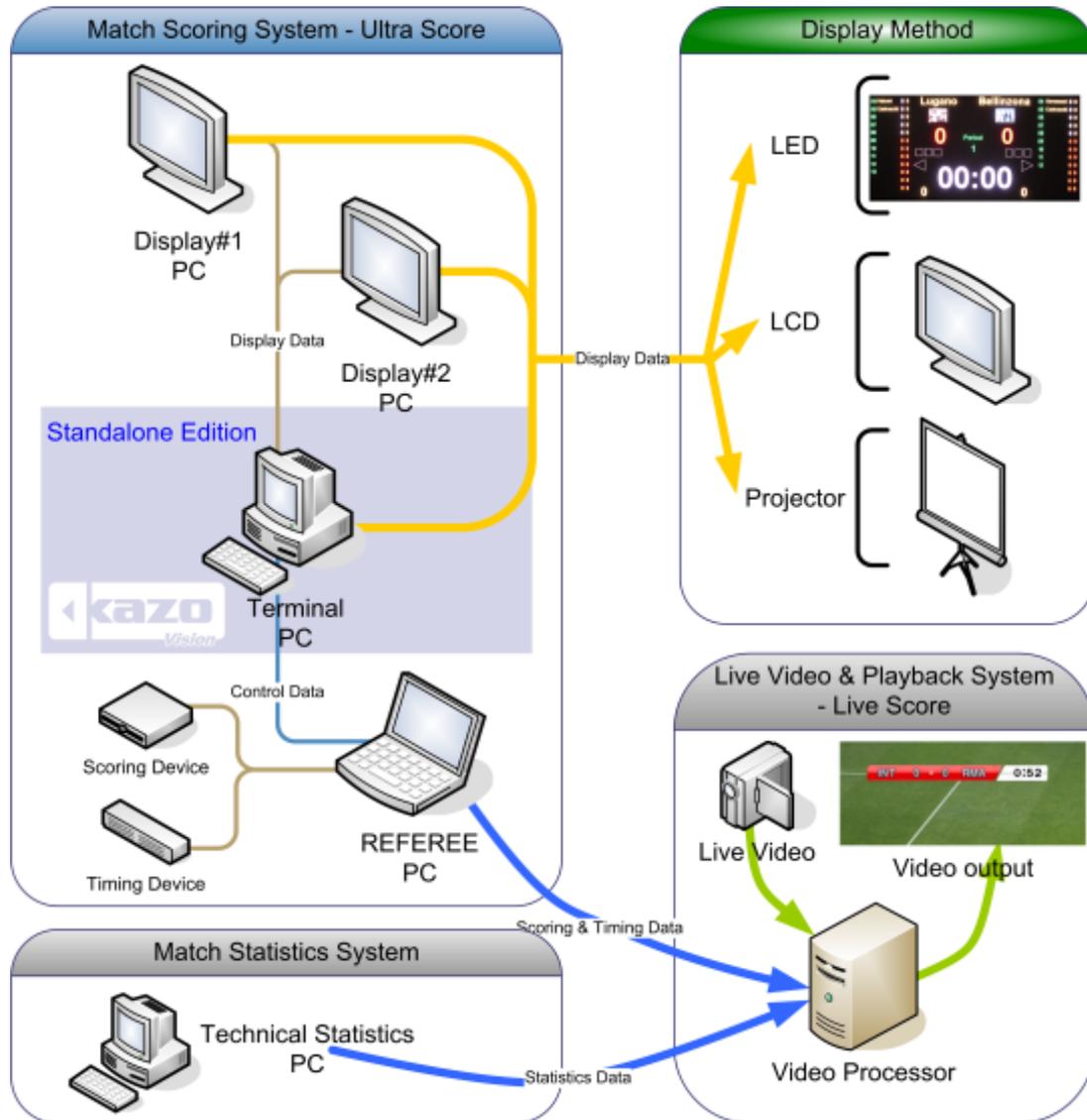
Italy 	Pre Game	 Portugal
PENALTY		PENALTY
2 01:30	20:00	3 04:00
1 04:00	HOME GUEST	1 01:30
	0 1 0	

Player interface for rink hockey

2016 CERH European Championship

Italy				Portugal			
Manager:				Manager:			
Coach:				Coach:			
Players:	No	Name	Pos	Players:	No	Name	Pos
	1	Giovanni			1	André Girão	
	2	Davide Motara			2	Pedro	
	3	Domenico			3	Hélder	
	4	Juan Luis			4	Henrique	
	5	Davide			5	Daniel	
	6	Luca			6	Telmo Pinto	

System Diagram



Features

- (1) Professional scoreboard display: Scoring and timing operation, layout of scoreboard can meet international game rules.
- (2) Match management: Information of match, team, team members and coaches can be saved in advance. And referee's scoring operation during the match can be recorded and output.
- (3) Scoring functions: Include operation and display of teams and players' point, foul and substitutions.
- (4) Timing functions: Include operation and display of game time, pause, break time, count down time and system time.
- (5) Convenient operation feeling: Referees can do operation on a special score console as well as by using shortcuts on the keyboard.
- (6) Powerful media player: Kinds of media formats are supported. It is easy to switch between the scoreboard and video.
- (7) Notification: Rolling to display short notice on the screen which allows to set the speed, colors, fonts freely.
- (8) Customization: All contents on the scoreboard including fonts, color and layout can be modified to meet clients' needs.
- (9) Self-adaptation: With easy configuration, score information can be displayed on kinds of LED and LCD screen by using this system which can adjust the layout to meet any sizes of screen.
- (10) Security: Auto backup function will help you recover the match immediately from the computer fault.

2.2 Score Console

Products	Details
Score console	<p>Type: KS-GC16</p> <ul style="list-style-type: none"> ◆ Size: 330x290x140(mm) Net weight: 3kg ◆ Used with the Ultra score software ◆ Communication: 1*Ethernet, 1*WIFI ◆ With 7" full color LCD screen ◆ Supports: Rink hockey ◆ Functions: Scoring, timing, 2/5/10 mins penalty, S.O.G, Time out, etc.



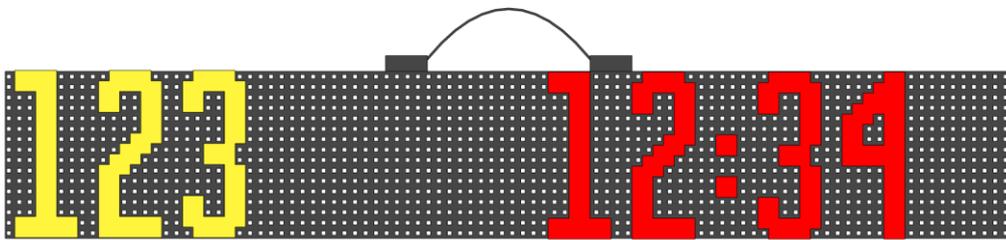
2.3 Match Timing Display

Products	Details
Match Timing Display	Type: KS-SCRN-7SEGMENT ◆ Size: 620x190x45 mm ◆ Weight: 0.6kg ◆ Display Color: Yellow ◆ Communication: RJ45 network cable ◆ Functions: Synchronously display the match time.



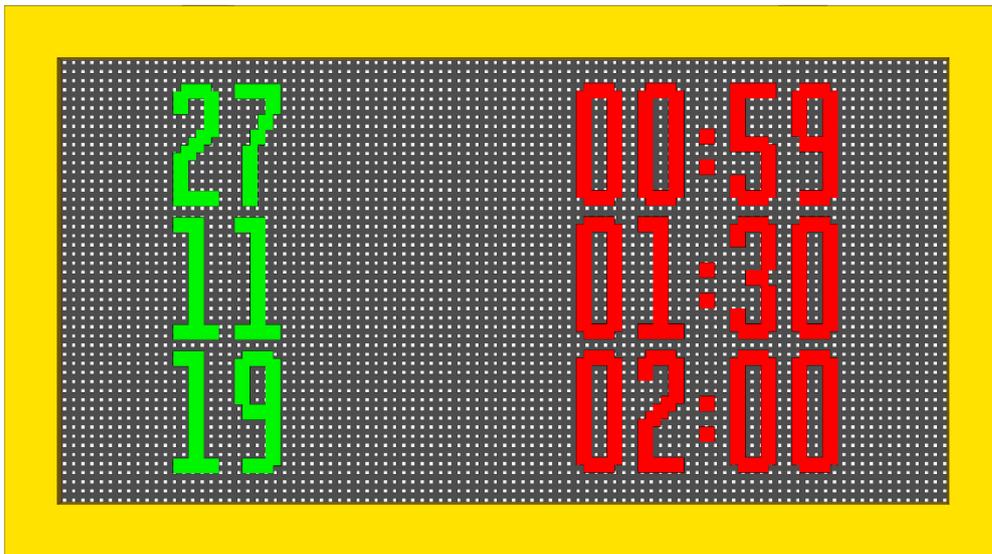
2.4 Rink-hockey Penalty Screen (Single Line)

Item	Details
Rink-hockey Penalty Screen (Single Line)	Type: KS-SCRN-LED960160 Size: 960*160*100(mm) Material: Aluminum Input: 48V DC Function: <ul style="list-style-type: none">◆ Must be used together with Rink-hockey Scoring Software.◆ Display athlete's number and penalty time.



2.5 Rink-hockey Penalty Screen (Triple Line)

Item	Details
Rink-hockey Penalty Screen (Triple Line)	Type: KS-SCRN-LED960480 Size: 1080*600*145(mm) Material: Aluminum Function: <ul style="list-style-type: none">◆ Must be used together with Rink hockey Scoring Software.◆ Display athlete's number and penalty time.



2.6 Meet Management Server

Products	Details
Meet Management Server	<p>Type: KS-MMS-MINI Size: 170x150x35 (mm) Weight: 1.0 KG 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.

