



Scoring & Timing Solution for Weightlifting



1. Introduction

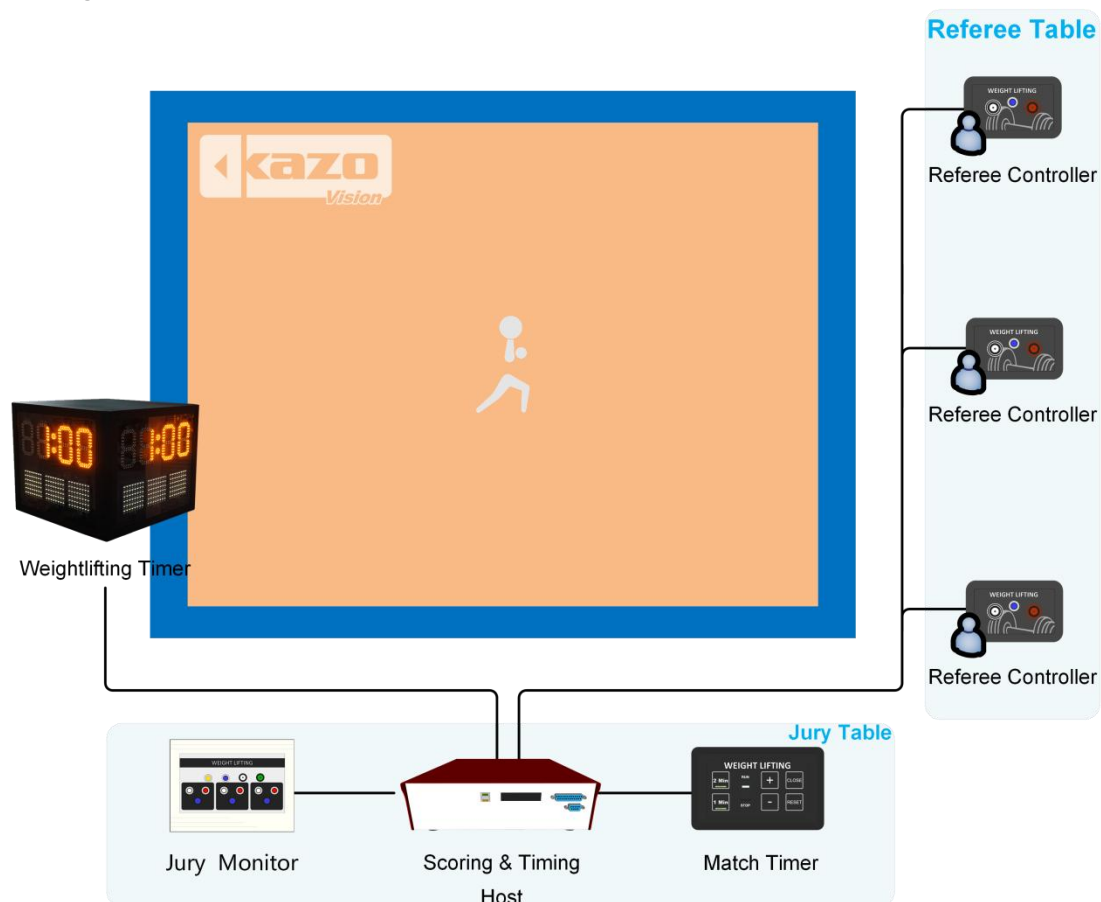
This is a professional solution for LED scoreboard display in weightlifting competition.

The system functions conform to IWF 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.



Training:



System Description

- 1) One or two LED displays are installed on both sides of the gymnasium to display the score, team and player information.
- 2) Ultra score Software of weightlifting is installed on the control computer.
- 3) The Scoring & Timing Host (KS-MONSTER) is connected to PC running Ultra score software by network cable.
- 4) The Referee Controller (KS-WL-RC10) and the Jury Controller (KS-WL-RC10) are connected to the Scoring & Timing Host (KS-MONSTER) through a special cable.
- 5) The Weightlifting Timer (KS-WL-CD10) is connected to the Scoring & Timing Host (KS-MONSTER) through four core cable.

1.2 Product Configuration (for one court)

| Product | Type | Number |
|---------------------------------|--------------------|--------|
| Match Scoring System | | |
| Ultra Score Software | Standalone Edition | 1 |
| Scoring & Timing Host | KS-MONSTER | 1 |
| Referee Controller | KS-WL-RC10 | 3 |
| Jury Controller | KS-WL-RC10 | 5 |
| Jury Monitor | KS-WL-MC10 | 1 |
| Weightlifting Timer | KS-WL-CD10 | 1 |
| Meet Management Server | KS-MMS-MINI | 1 |
| Score Display Software | ULTRASCORE VIEWER | 1 |
| PC | / | 2 |
| LCD Display | / | 1 |
| 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 | 15m | 2 |
| LCD Monitor | 21.5 inch | 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: Weightlifting◆ English version◆ Including 1 dongle |
| Network standard edition | <ul style="list-style-type: none">◆ Terminal + 1 Display◆ Supports: Weightlifting◆ English version◆ Including 1 dongle |
| Network professional edition | <ul style="list-style-type: none">◆ Terminal + Referee + 2 Display◆ Supports: Weightlifting◆ 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 interface for weightlifting:

Men 61KG **01:00**

MAS **1** **1st ATT**

MUHAMAD Aznil Bn Bidin **SNATCH**

120 **KG**

Next:

2.2 Score Display Software

| Products | Details |
|------------------------|--|
| Score Display Software | <p>Type: ULTRASCORE VIEWER</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: Adjustable ◆ Output score display to one LCD monitor. ◆ Screen will be updated in real time based on the referee's operation. |

Weightlifting Championships

40KG

01:00

CHN

1 Liu Zhen

Weight:

SNATCH Attempt: 3

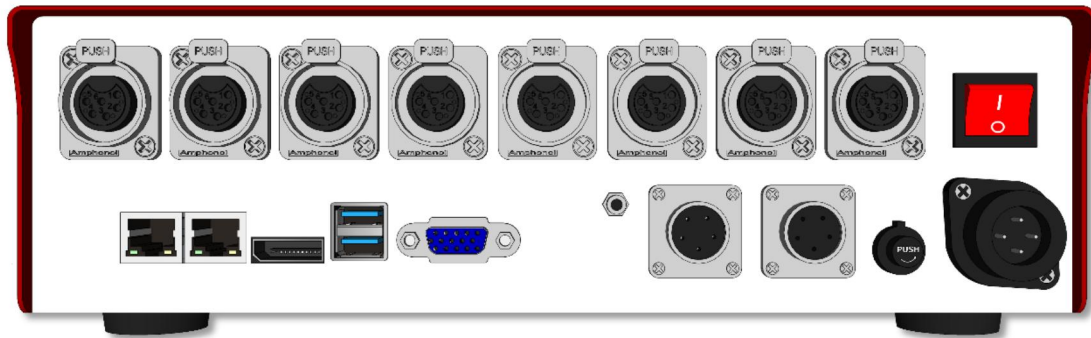
84KG

| No. | Athlete | Team | DOB | 男子85KG | | | | Snatch | | | | Cleanjerk | | | |
|-----|---------|------|------------|--------|-----|-----|-------|--------|-----|-----|-----|-----------|------|-------|------|
| | | | | 1 | 2 | 3 | Score | Rank | 1 | 2 | 3 | Score | Rank | Total | Rank |
| 7 | 焦婧婧 | 长沙 | 2000.06.06 | 136 | 137 | 140 | 140 | 5 | 206 | 208 | 210 | 210 | 5 | 350 | 1 |
| 16 | 卢为 | 北京 | 2000.03.04 | 136 | 138 | 141 | 141 | 1 | 202 | 204 | 206 | 206 | 1 | 347 | 3 |
| 9 | 王伟莹 | 长沙 | 1999.07.18 | 134 | 136 | 140 | 140 | 6 | 202 | 206 | 208 | 208 | 6 | 348 | 4 |
| 15 | 刘星雨 | 北京 | 2000.02.02 | 138 | 139 | 139 | 139 | 7 | 206 | 206 | 208 | 208 | 7 | 347 | 4 |
| 11 | 张家齐 | 海南 | 2000.04.12 | 138 | 138 | 140 | 140 | 2 | 204 | 206 | 208 | 206 | 2 | 346 | 5 |
| 5 | 丁蕊 | 上海 | 1999.12.31 | 134 | 136 | 138 | 138 | 10 | 202 | 204 | 208 | 208 | 10 | 346 | 6 |
| 10 | 杨璐瑶 | 长沙 | 1999.12.12 | 136 | 138 | 138 | 138 | 9 | 204 | 206 | 208 | 208 | 9 | 346 | 7 |
| 13 | 任晶晶 | 海南 | 2000.03.15 | 138 | 138 | 140 | 140 | 4 | 202 | 204 | 204 | 204 | 4 | 344 | 8 |
| 8 | 张语庭 | 长沙 | 2000.04.15 | 136 | 136 | 138 | 138 | 8 | 204 | 204 | 206 | 206 | 8 | 344 | 9 |
| 4 | 周嘉祺 | 上海 | 1999.12.01 | 132 | 134 | 136 | 136 | 14 | 204 | 206 | 208 | 208 | 14 | 344 | 10 |
| 12 | 丁雅莹 | 海南 | 2000.02.20 | 138 | 138 | 140 | 140 | 3 | 202 | 202 | 204 | 202 | 3 | 342 | 11 |
| 2 | 许一瑾 | 南京 | 1999.11.12 | 130 | 132 | 136 | 136 | 13 | 204 | 204 | 206 | 206 | 13 | 342 | 12 |
| 6 | 黄亚宣 | 上海 | 1999.11.12 | 134 | 134 | 136 | 136 | 12 | 202 | 204 | 206 | 206 | 12 | 342 | 13 |
| 14 | 任茜 | 海南 | 2000.04.30 | 136 | 136 | 136 | 136 | 11 | 202 | 204 | 204 | 204 | 11 | 340 | 14 |
| 1 | 吴椒 | 南京 | 1999.10.10 | 130 | 134 | 134 | 134 | 15 | 200 | 204 | 206 | 206 | 15 | 340 | 15 |

| | 世界成年记录 | | | 全国成年记录 | | | 全国青年记录 | | |
|-----|--------|-----|-----|--------|-----|-----|--------|--|--|
| 抓举 | 石智勇 | 169 | 石智勇 | 170 | 张荣粤 | 156 | | | |
| 挺举 | 石智勇 | 198 | 石智勇 | 199 | 韦胤廷 | 186 | | | |
| 总成绩 | 石智勇 | 367 | 石智勇 | 389 | 韦胤廷 | 342 | | | |

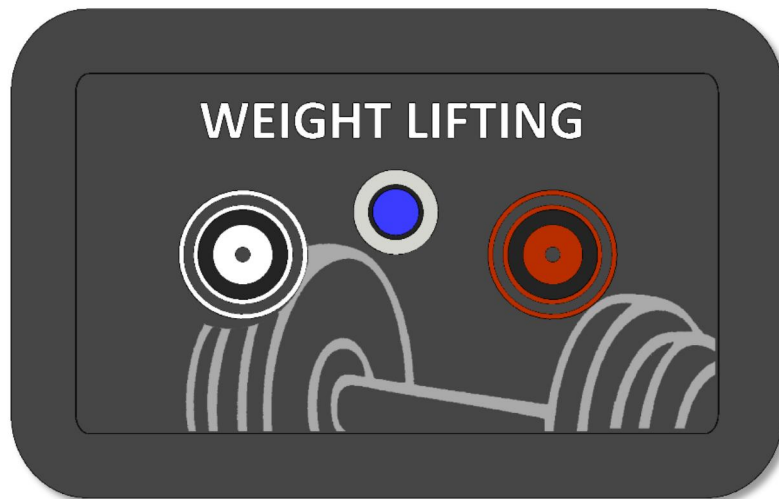
2.3 Scoring & Timing Host

| Product | Detail |
|-----------------------|---|
| Scoring & Timing Host | <p>Type: KS-MONSTER</p> <p>Size: 260x280x80(mm)</p> <ul style="list-style-type: none"> ◆ Support: Weightlifting ◆ Support connecting with Weightlifting equipment. ◆ The handle can adjust the time. |



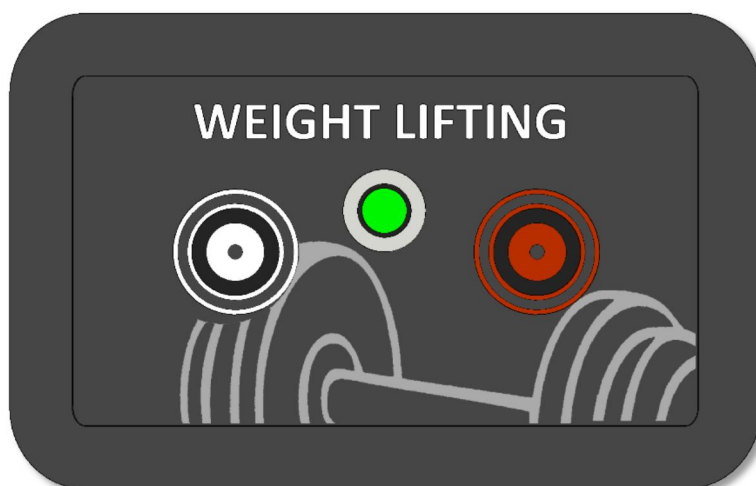
2.4 Referee Controller

| Product | Detail |
|--------------------|---|
| Referee Controller | <p>Type: KS-WL-RC10</p> <p>Size: 140x120x30(mm)</p> <ul style="list-style-type: none">◆ Support: Weightlifting◆ Cabinet: Plastic.◆ Should be used with Scoring & Timing Host.◆ The referee ruled.◆ The judgment can be changed within 2 seconds after the judgment. |



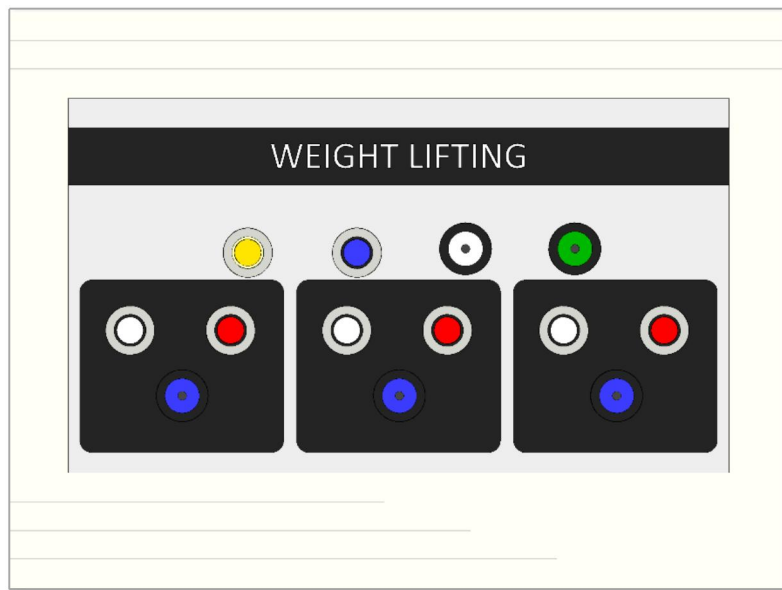
2.5 Jury Controller

| Product | Detail |
|-----------------|---|
| Jury Controller | <p>Type: KS-WL-RC10</p> <p>Size: 140x120x30(mm)</p> <ul style="list-style-type: none">◆ Support: Weightlifting◆ Cabinet: Plastic.◆ Should be used with Scoring & Timing Host.◆ The referee ruled.◆ The judgment can be changed within 2 seconds after the judgment. |



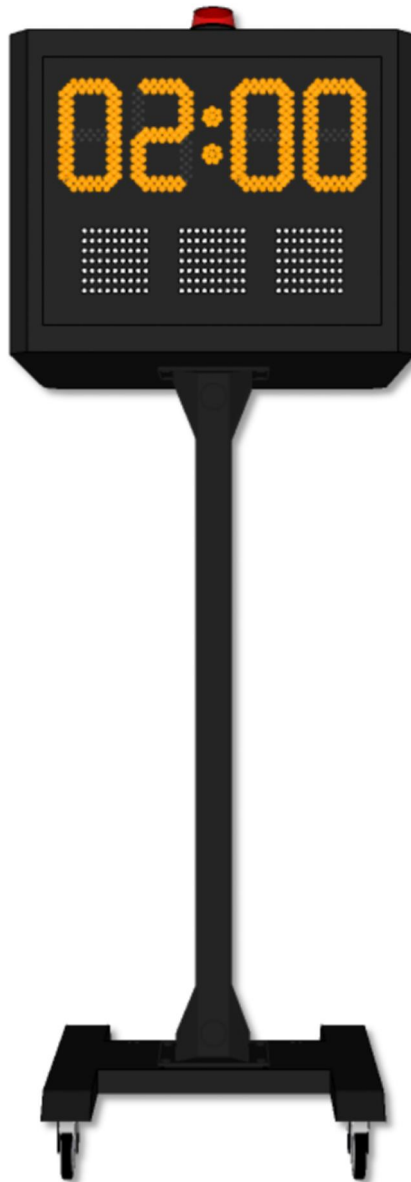
2.6 Jury Monitor

| Product | Detail |
|--------------|--|
| Jury Monitor | <p>Type: KS-WL-MC10 Size: 275x210x65(mm)</p> <ul style="list-style-type: none">◆ Support: Weightlifting◆ Support 3 referee controllers.◆ Support connecting with Timing & Scoring Host.◆ To remind the referee of scoring errors. |



2.7 Weightlifting Timer

| Product | Detail |
|---------------------|---|
| Weightlifting Timer | <p>Type: KS-WL-CD10</p> <p>Size: 650x650x510(mm)</p> <ul style="list-style-type: none">◆ Support: Weightlifting◆ Cabinet: Iron◆ Display the match timer.◆ Display white or red light according to the operation of judges.◆ The lamp is magnetically attached to the top of the timer. It rings once every minute and 30 seconds, once at 30 seconds, and once when the time returns to zero. |



2.8 Meet Management Server

| Products | Details |
|------------------------|--|
| Meet Management Server | <p>Type: KS-MMS-MINI</p> <p>Size: 260x135x35 (mm)</p> <p>Weight: 1.0 KG</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. |



2.9 Video Arbitration Server

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



Software interface



Device Specification



Kazo Vision

WEB: <http://www.kazovision.com> MAIL: sales@kazovision.com

| | |
|--|------------------------------|
| 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. | |

2.6 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 |

2.7 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 |