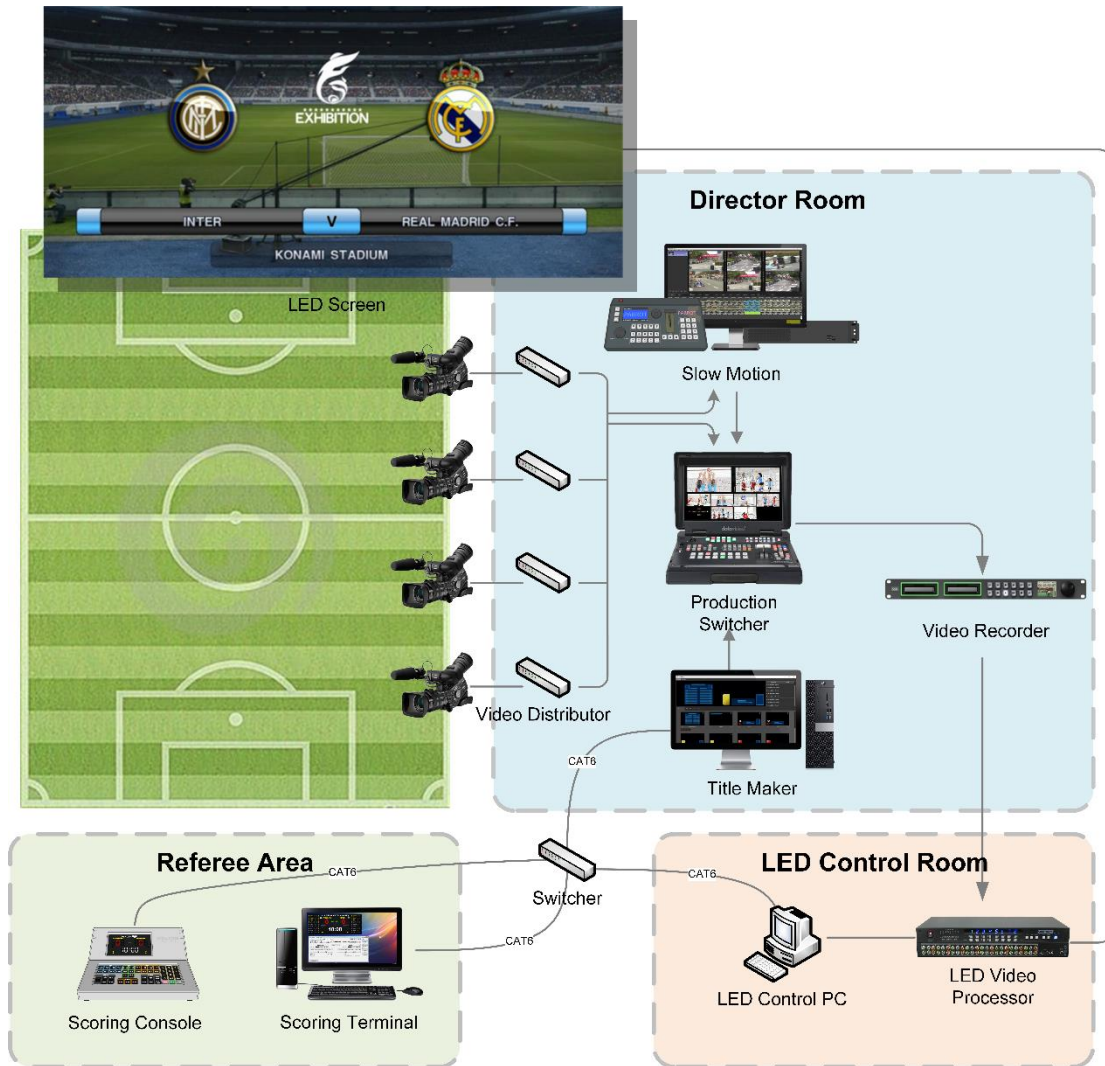


# Live Video System

## 1. System Chart



## System Description

1. This system is composed of four parts which is Match Scoring System, Live Score System, Slow Motion Replaying System and Title Maker System.
2. Match scoring system: Ultra score software will be installed in a separate PC which is responsible for outputting the data of match include score, time, team info, match info and displaying the score on the screen.
3. Slow motion replaying system: This system supports simultaneous recording, display and instant replay of multiple audio and video sources. It can output independent video streams to Production Switcher.
4. Live score system: In this case, there are four cameras providing live video signal. Both of them connect to the Production switcher with SDI port directly.
5. Title Maker System: Working with match scoring system can overlay game data on live video automatically.

## 2. Specification for products

Item	Type	Qt.
<b>Match Scoring System</b>		
Ultra score software	Standard Network Edition	1
Score console	KS-GC16	1
PC	/	1
<b>Slow Motion Replaying System</b>		
Slow motion replaying server	KV-SLOMO/4	1
Control Panel	KV-SLOMO-CP	1
LCD monitor	/	1
<b>Live Video System</b>		
Production switcher	KV-PS2850/8	1
Video recorder	KV-RECD100	1
SSD	480G	2
Video Distributor	1 to 2	4
Integrated Cable	NW1108 50M	4
Cord Reel	NW460S	4
<b>Title maker System</b>		
Title maker server	CICADA Server	1
PC	/	1
<b>Other Devices</b>		
Video Processor	/	1
Camera	/	4
LED Display	/	1

## 2.1 Match Scoring System

### 2.1.1 Ultra Score Software

Item	Details
Ultra Score Software	<ul style="list-style-type: none"> <li>◆ Standard Network Edition</li> <li>◆ Terminal + 1 Display</li> <li>◆ Supports: Basketball, Soccer, Volleyball, Tennis, Table tennis, Badminton</li> <li>◆ English version</li> <li>◆ Including 1 dongle</li> </ul>

#### Scoring interface for soccer

Score:



Player:

FIFA WORD CUP 2018				FIFA WORD CUP 2018			
CHINA				KOREA			
Manager:				Manager:			
Coach:				Coach:			
Players:	No	Name	Pos	Players:	No	Name	Pos
	2	JIANG ZHIPEN			3	LEE YONG	
	6	HAO JUNMIN			5	KOH MYONGJ	
	8	WANG YONGP			8	JI DONG WON	
	10	ZHANG XIZHE			9	JANG HYUNSC	
	16	ZHENG ZHI			10	KOO JA CHEO	
	20	YU DABAO			16	KI SUNG YIEN	

### 2.1.2 Score Console

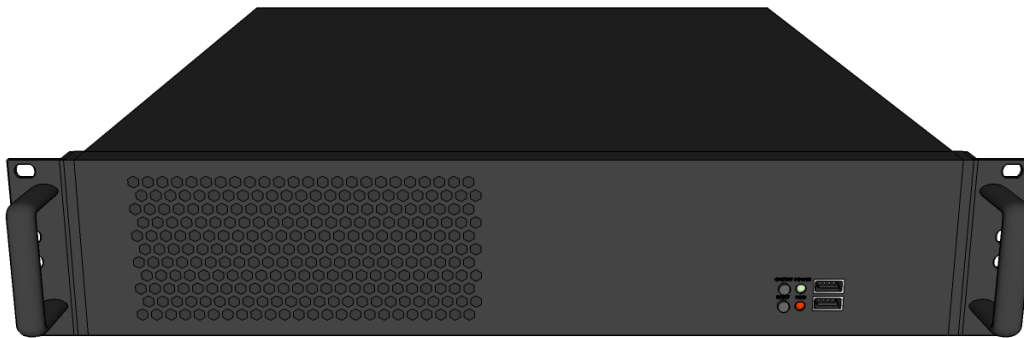
Item	Details
Score Console	<p>Type: KS-GC16            Size: 330x290x140(mm)            Shell: Plastic            Display: Full color LCD (7 Inch)            Communication: 1*Ethernet, 1*WIFI</p> <p>Functions:</p> <ul style="list-style-type: none"> <li>◆ Used with the Ultra score software</li> <li>◆ Support: basketball, volleyball, soccer, handball</li> <li>◆ Working in the LAN or WLAN environment.</li> <li>◆ Modify the score of the team and player.</li> <li>◆ Player Yellow / Red card.</li> <li>◆ Player substitution.</li> <li>◆ Match timer control. Adjust the match timer.</li> </ul>



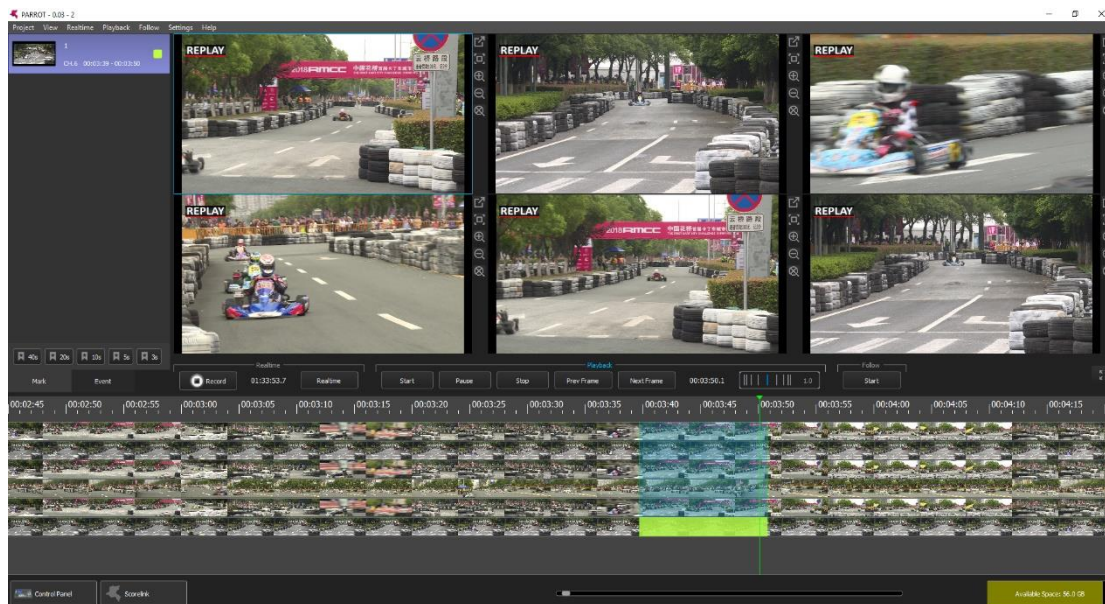
## 2.2 Slow Motion Replaying System

### 2.2.1 Slow Motion Replaying Server

Products	Details
Slow Motion Replaying Server	Type: KS-SLOMO/4 Video Input: 4 channels input synchronously; Input port: SDI; Video Output: 2 channels simultaneous playback; Video Format: 1080P; Recording capacity: ≥ 10 hours; Multi-screen monitoring: supported; Weight: 8kg.



Software interface:



## Device Specification

<b>Type</b>	<b>KS-SLOMO/4</b>
Size	483x430x90(mm)
Net Weight	8 KG
Color	Black
Cabinet	Iron
<b>Interface</b>	
Input	SDI*4
Output	HMDI*1, DVI*1
<b>Environmental</b>	
Operating Temp	-5°C~45°C
Storage Temp	-40°C~80°C
Relative Humidity	5%~95%, non-condensing
Input Voltage	AC 100V~240V
<b>Features</b>	
<ul style="list-style-type: none"><li>● 4 channels video recording and instant replaying simultaneously.</li><li>● 2 channels independent output.</li><li>● SDI Input in 1080P mode.</li><li>● Slow playback the great shots in different speed, in multi-angle with broadcast quality video signal.</li><li>● Live slow-motion video can be used for network broadcast, LED display and local preview.</li><li>● Integrated with Title maker system, to show the live-score on the slow-motion video synchronously.</li></ul>	

## 2.2.2 Control Panel

Products	Details
Control Panel	<p>Type: KS-SLOMO-CP</p> <p>Function:</p> <ul style="list-style-type: none"><li>◆ Support one touch replay, deferred replay, in/out replay.</li><li>◆ Simultaneous control 4 channels of video decks or HD cameras.</li><li>◆ Preset speed button.</li><li>◆ T-Bar for dynamic slow motion.</li><li>◆ Simply step forward or backward the video by the optical jog.</li><li>◆ Durable metal construction design.</li></ul>



## Device Specification

<b>Type</b>	<b>KS-SLOMO-CP</b>
Size	365 x 200 x 98 (mm)
Net Weight	1 KG
Cabinet	Iron
Display	Color LCD(4.3Inch)
Sound	None
<b>Communication</b>	
USB	≤5m
RS232	≤10m
<b>Environmental</b>	
Operating Temp	-5~45°C
Relative Humidity	5~95 %, non-condensing
Storage Temp	-40~80°C
Input Voltage	DC 12V
Total Power	15W



## 2.3 Live Video System

### 2.3.1 Production Switcher

Item	Details
<b>Production Switcher</b>	<p>Type: KV-PS2850/8</p> <p><b>Features</b></p> <ul style="list-style-type: none"><li>◆ 8 input HD broadcast quality Mobile Switcher</li><li>◆ Ideal for live production venues, religious worship, meetings or conference purposes</li><li>◆ Inputs: 8x SDI, 2x HDMI, 4x CV</li><li>◆ Built in 8 Channel Intercom/Talkback system (4 x belt packs supplied)</li><li>◆ 17.3" HD LCD monitor</li><li>◆ Program and Preview on a multi-view screen</li></ul>



## Parameters

<b>Type</b>	<b>KV-PS2850/8</b>
Video system	HD
Video format	1080i 50/59.94/60Hz 576i 50Hz, 480i 59.94Hz
Video format setting	Fixed
Video input	8x SDI, 2x HDMI, 4x CV
PC input	Up to 3 HDMI
Down conversion converter	2x SDI
Video out	2x SDI (PGM, PVW, AUX, PGM Clean) 1x HDMI (PGM, Multi-view)
<b>Audio system</b>	
Audio input	4 x Balanced XLR
Audio output	2 x Balanced XLR
Audio embedding	16-channel input, 4-channel output
Audio delay	Up to 8 frames
Audio-video synchronization switch	Yes
HDMI audio input and output	Not support
<b>Basic parameters</b>	
DSK	Two DSK, supports Key and Fill
Picture in picture	2
LOGO	2(or 1logo + 1clock)
Mixing console	None
Screen	17.3 inch HD TFT LED backlight, 1600x900 pix
Intercom system	8-channel (4 Pack)
Size	455x355x134 mm
Weight	9kg

### 2.3.2 Video Recorder

Item	Details
Video Recorder	<p><b>Features</b></p> <ul style="list-style-type: none"><li>◆ Records SD/HD 10-bit 4:2:2 uncompressed video for perfect broadcast quality</li><li>◆ Depending on your format and frame rate, you can choose to record uncompressed QuickTime, ProRes or DNxHD files.</li><li>◆ 12 buttons and jog wheel for local control. RJ45 Ethernet or USB2.0 high speed interface</li><li>◆ Front panel configurable or USB 2.0 high speed interface</li><li>◆ SSD interface: 2 x 2.5" SATA 6Gb/s</li><li>◆ Computer interface: 1 x type B USB 2.0 port for initial setup, software updates and HyperDeck Utility software control</li><li>◆ Display: Built-in LCD for video, audio and timecode monitoring and menu settings</li></ul>



### 2.3.3 SSD

Item	Details
SSD	Storage: 480G Interface type: SATA Size: 2.5inch Reliability: MTBF:1,500,000h



### 2.3.4 Video Distributor

Item	Details
Video Distributor	Support resolution: 1080P Support SDI rates: 143-2970MB/S SDI Format: SD-SDI、HD-SDI、 3G-SDI



### 2.3.5 Integrated Cable & Cord Reel

Item	Details
Integrated Cable & Cord Reel	Integrated Cable Type: NW1108 50M Cord Reel Type: NW460S



## 2.4 Title Maker System

Item	Details
Title Maker Server (Monitor not included)	Type: CICADA_Server Operating Systems: Windows 10 Output: SDI*3 Resolution: 1920×1080p/60Hz



### Device Specification

Type	CICADA_Server
Processor	Intel core i7
Ram	4GB
Operating System	Windows 10
Output	SDI*3
Size	9.26x29×29.2(mm)
Net Weight	5.5 KG
Color	Black
<b>Environmental</b>	
Operating Temp	-5°C~45°C
Storage Temp	-40°C~80°C
Relative Humidity	5%~95%, non-condensing
Input Voltage	AC 100V~240V

Display effects.

The image shows a graphic for a LaLiga match between FC Barcelona and Real Madrid. The graphic is overlaid on a background of a soccer stadium. At the top, the text 'LaLiga' is centered. Below it, the FC Barcelona logo is on the left and the Real Madrid logo is on the right. The player lineups are presented in two columns, one for each team, with player names and their jersey numbers. The background shows a soccer field with players and a crowd in the stands.

LaLiga			
FC B		REAL MADRID	
10	MESSI	CARYAJAL	15
12	BRAYO	BALE	11
11	NEYMAR JR.	CASEHIRO	14
18	JORDIALBA	BENZEMA	9
3	PIOUE	KROOS	8
8	INIESTA(C)	MARCELD	12
4	I.RAKITIC	C.RONALDO	7
9	SUAREZ	PEPE	3
14	MASCHERANO	NAVAS	1
5	SEROIO	S.RAMOS	4
6	DANI ALYES	MODRIC	19