

A dynamic photograph of two Taekwondo athletes in a sparring match. The athlete on the left is wearing a blue protective helmet and a blue chest protector with 'adidas' and 'KP&P' logos. The athlete on the right is wearing a red protective helmet and a red chest protector. Both are wearing white Taekwondo uniforms (dobok) and black belts. The background is a light blue and white gradient.

**adidas** **KP&P**

# 11th World Junior Taekwondo Championships

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SEP, 2016

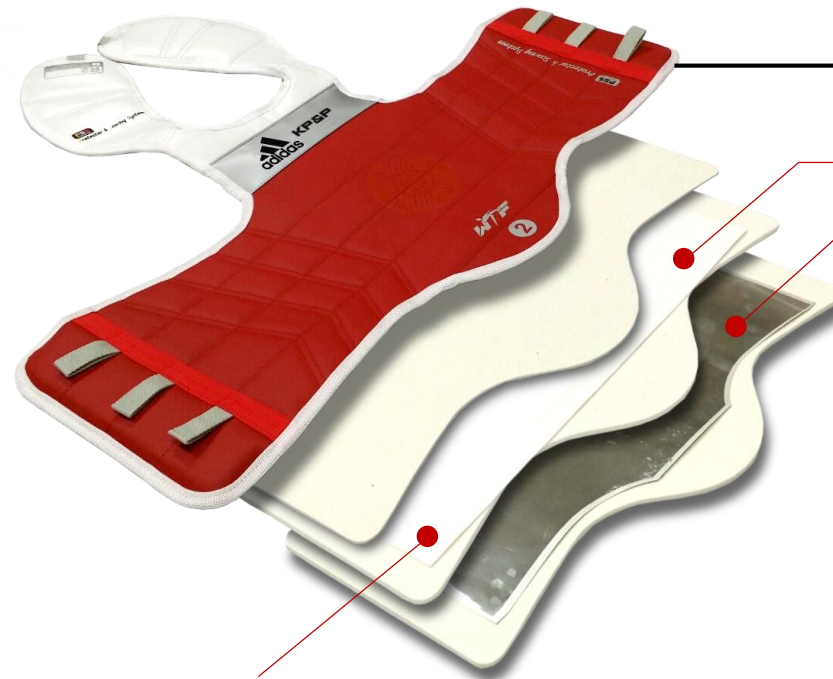
Adidas x KP&P

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# Product Structure

## Specification

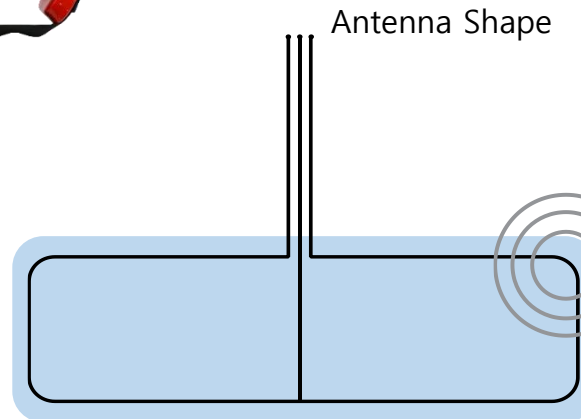
- Thickness: 20mm
- Proximity Sensor
- Film Impact Sensor



Proximity Antenna & Film Impact Sensor

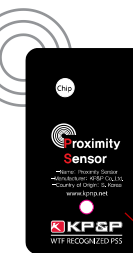
Proximity Antenna  
Film Impact Sensor

Antenna Shape

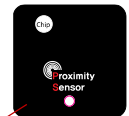


Close Reaction

E-Head Protector & Tag Location



Top side



Heel



Inside



Sole



Proximity antenna detects foot protector tag when it approach and reaction time is 0.1 sec  
Proximity antenna reads from several centimeters distances.

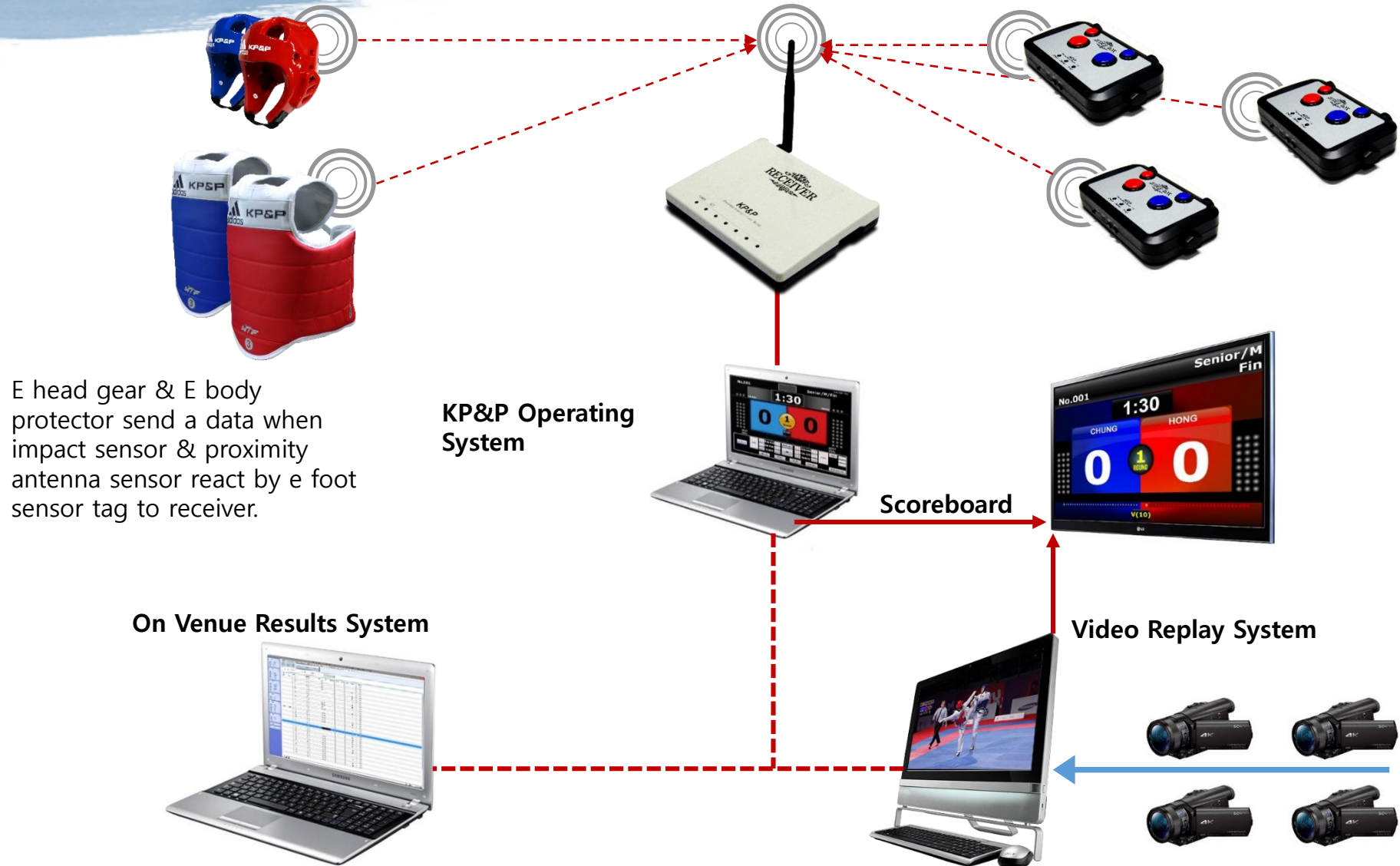
# Sock – RFID Tag Location



RFID TAG Location

Same Design, Same Function

# Operating System



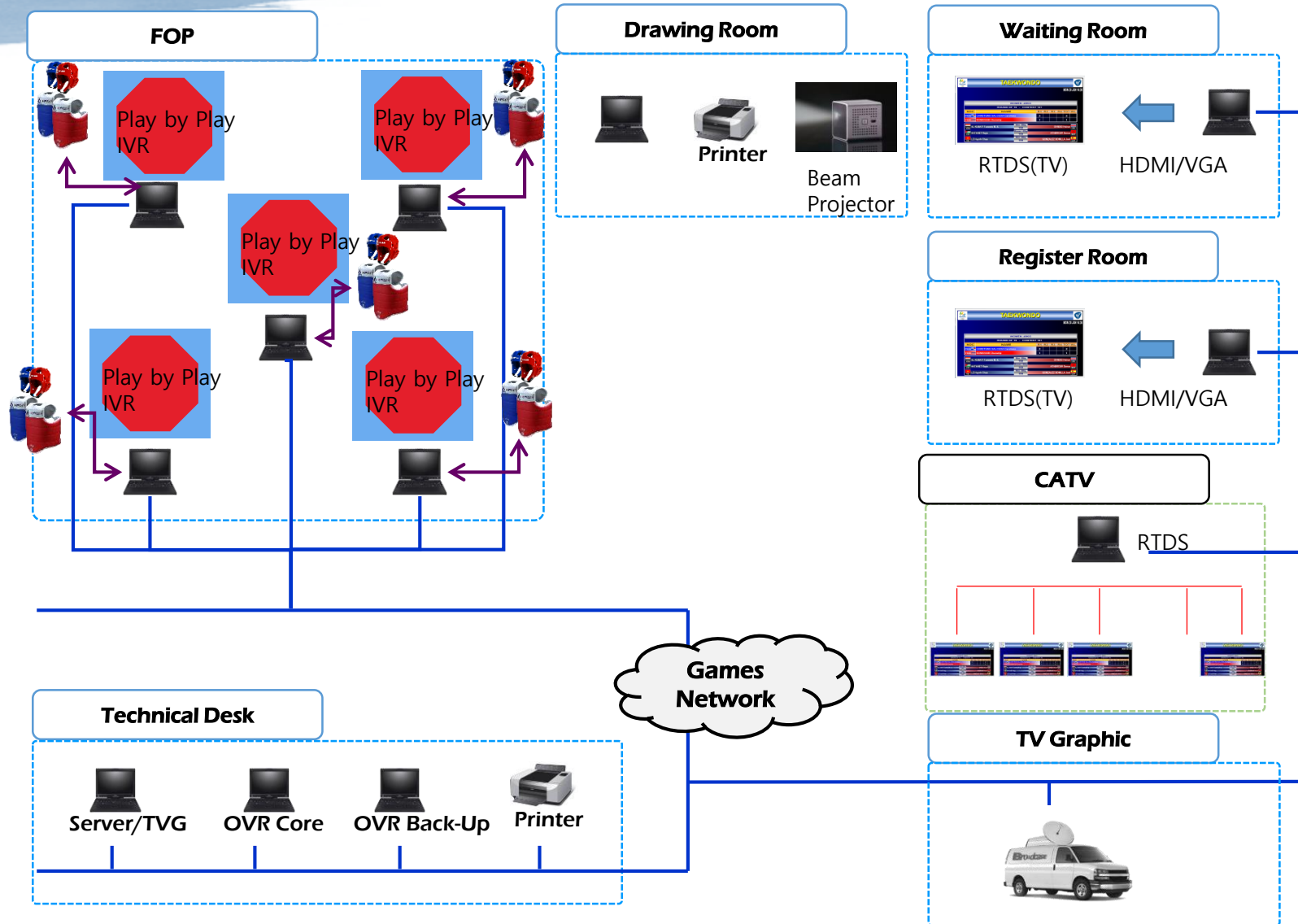
E head gear & E body protector send a data when impact sensor & proximity antenna sensor react by e foot sensor tag to receiver.

**KP&P Operating System**

**On Venue Results System**

**Video Replay System**

# OVR Diagram



# OVR Task Range

- Drawing System(Drawing of Lots)
- Result and Data Handling
  - PSS Interfacing
  - IVR Management
  - Reports Generation and Print Out
- Real Time Display System(RTDS)
- Generates TVG Files

Location		Lab Top	TV	Beam Projector	Remark
Technical Desk	OVR Core	2			Event Management
	Server, TVG	1			Database, Generates TVG Files automatically and manually
	Print	1			Print
Mat(5)	Play by Play	5			Processes the result Data(IVR, Statistics) Captures real time result data from PSS
RTDS	Waiting Room Call Room	2	2		The quantity can be changed by system architecture <ul style="list-style-type: none"> <li>- Display to from 1 laptop to several CATV ( 1:n system)</li> <li>- Display to from 1 laptop to 1 CATV</li> <li>- It need to 1 CATV per 1 laptop ( 1:1 system )</li> </ul>
Technical Meeting Room	Drawing			1	Drawing of Lots
TOTAL		11	2	1	



# PSS Power Level

WTF World Junior Taekwondo Championships							
Men's division		Power Level	Hogu Size	Women's division		Power Level	Hogu Size
Under 45kg	Not exceeding 45kg	14	2	Under 42kg	Not exceeding 42 kg	13	2
Under 48kg	Over 45 kg & Not exceeding 48 kg	15	2	Under 44kg	Over 42 kg & Not exceeding 44 kg	13	2
Under 51kg	Over 48 kg & Not exceeding 51 kg	16	3	Under 46kg	Over 44 kg & Not exceeding 46 kg	14	2
Under 55kg	Over 51 kg & Not exceeding 55 kg	17	3	Under 49kg	Over 46 kg & Not exceeding 49 kg	15	2
Under 59kg	Over 55 kg & Not exceeding 59 kg	18	3	Under 52kg	Over 49 kg & Not exceeding 52 kg	16	3
Under 63kg	Over 59 kg & Not exceeding 63 kg	19	3	Under 55kg	Over 52 kg & Not exceeding 55 kg	16	3
Under 68kg	Over 63 kg & Not exceeding 68 kg	20	4	Under 59kg	Over 55 kg & Not exceeding 59 kg	17	3
Under 73kg	Over 68 kg & Not exceeding 73 kg	21	4	Under 63kg	Over 59 kg & Not exceeding 63 kg	18	3
Under 78kg	Over 73 kg & Not exceeding 78 kg	22	4	Under 68kg	Over 63 kg & Not exceeding 68 kg	19	3
Over 78kg	Over 78 kg	23	4	Over 68kg	Over 68 kg	20	4