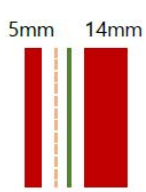
# KPNP PRODUCT INFORMATION & CHARACTERISTICS

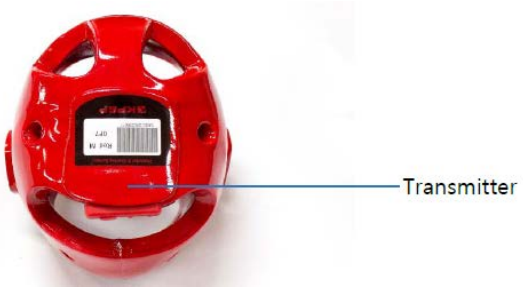
## TAEKWONDO PROTECTOR & SCORING SYSTEM (PSS)

# E-Body Protector

- Built-in Transmitter
  - Built-in Transmitter allows more stable operation in Competition Environment
  - Since there's no need to assemble-disassemble transmitter every time, you can expect more durability.
- Protector in assembly
  - If there's any malfunction, you can change the problematic part only. You don't have to change the whole protector for any single malfunction.
  - Even in assembly structure, the overall fitness and durability of the Body Protector is strong.
- Support TEST MODE
  - KPNP Protectors has its own Test Mode. Without connecting it to any other device (computer), you can test and check if the Protector works fine.

# E-Head Protector



- Built-in Transmitter
  - Built-in Transmitter allows more stable operation in Competition Environment
  - Since there's no need to assemble-disassemble transmitter every time, you can expect more durability.
- Light, Strong and Sensitive
  - With built-in Impact Sensor, KPNP Head Protectors detects very light touch of impact.
  - Numerous competition proved the stability and reliability of Impact Detection with accuracy of KPNP Head Protectors
- Support TEST MODE
  - KPNP Head Protector also support Test Mode. Without connecting it to any other device (computer), you can test and check if the Protector works fine.

# Receiver and Judge's Box

## Wireless Network – Stable Communication between devices

- KPNP Receiver works in 2.4GHz wireless network. It enables fast data transfer, and convenient connection between devices. Registration of the devices are easy and secure.
- 1 Receiver can connect up to 30 devices. KPNP PSS is specialized in Taekwondo Team Championships which requires 23 devices to be connected to 1 Receiver at the same time.

## Judge's Box – Cable Version

- KPNP Judge's Scoring Box is now available in 'Wired' version.
- It works both Wired or Wirelessly according to the competition environment.
- In both ways, KPNP Judge's Box ensures stable operation of the Taekwondo Championships

# KPNP E-Socks

- **RFID Powered Sensing Socks**
  - KPNP uses RFID technology to detect Valid Kick on Electronic Protectors.
  - RFID sensor on the E-Socks reacts to the RFID Antenna on the Electronic Protectors in milli-seconds. Since it works as a Proximity Sensing method, it allows athletes to score points without worrying about the position, covering or dirt on the surface of the E-Socks.
  - KPNP RFID Sensors in the E-Socks are durable for many uses.

# Other Products

## KPNP Keypad

- Connected to the Laptop, with shortcut keys frequently used during the competition, it helps Operators to manage the competition with ease.

## Barcode Reader

- Help registering Protectors to the Operation Software.

## E-Socks Tester

- Used to test E-Sensing Socks for functionality. Used with dedicated Test Software.

## Recharger

- Help registering Protectors to the Operation Software.

## Proximity Sensor Tester

- Used to test Protectors for Proximity Sensor Test. All KPNP Protectors has its own Test Mode.

# KPNP PSS Basic Setup - 1

## For Training

**Mat**

| Item | Equipment | Quantity |
|---|---|---|
| Operator | Laptop | 1 |
| | KPNP Receiver | 1 |
| | LCD/LED Monitor | 1 or 2 (RGB or HDMI switch needed for 2 or more monitors) |
| | Monitor Cables | 1 or 2 (RGB or HDMI Cable) |
| | Keypad | 1 |
| | KPNP PSS Software | Installed on the Laptop - 1 Copy |
| Mat | E-Body Protector | 2 (1 Blue, 1 Red) |
| | E-Head Gear | 2 (1 Blue, 1 Red) |

**Operator's Desk**

# KPNP PSS Basic Setup - 2

## For Competition – 1 Court

**Mat**

| Item | Equipment | Quantity |
|---|---|---|
| Operator | Laptop | 1 |
| | KP&P Receiver | 1 |
| | LCD/LED Monitor | 1 or 2 (RGB or HDMI switch needed for 2 or more monitors) |
| | Monitor Cables | 1 or 2 (RGB or HDMI Cable) |
| | Keypad | 1 |
| Mat | E-Body Protector | 2 (1 Blue, 1 Red) |
| | E-Head Gear | 2 (1 Blue, 1 Red) |
| | Judge's Scoring Box | 3 (Current WTF Regulation) |

**Operator's Desk**

# KPNP PSS Size Chart

## Senior Division – World Taekwondo

| MEN's Division | | Head Threshold | Body Threshold | Hogu Size | WOMEN's Division | | Head Threshold | Body Threshold | Hogu Size |
|---|---|---|---|---|---|---|---|---|---|
| -54kg | Not exceeding 54kg | 1 | 18 | **3** | -46kg | Not exceeding 46 kg | 1 | 15 | **2** |
| -58kg | Over 54 kg & Not exceeding 58 kg | 1 | 19 | **3** | -49kg | Over 46 kg & Not exceeding 49 kg | 1 | 16 | **2** |
| -63kg | Over 58 kg & Not exceeding 63 kg | 1 | 20 | **3** | -53kg | Over 49 kg & Not exceeding 53 kg | 1 | 17 | **3** |
| -68kg | Over 63 kg & Not exceeding 68 kg | 1 | 21 | **4** | -57kg | Over 53 kg & Not exceeding 57 kg | 1 | 18 | **3** |
| -74kg | Over 68 kg & Not exceeding 74 kg | 1 | 22 | **4** | -62kg | Over 57 kg & Not exceeding 62 kg | 1 | 19 | **3** |
| -80kg | Over 74 kg & Not exceeding 80 kg | 1 | 23 | **4** | -67kg | Over 62 kg & Not exceeding 67 kg | 1 | 20 | **3** |
| -87kg | Over 80 kg & Not exceeding 87 kg | 1 | 25 | **5** | -73kg | Over 67 kg & Not exceeding 73 kg | 1 | 21 | **4** |
| +87kg | Over 87 kg | 1 | 27 | **5** | +73kg | Over 73 kg | 1 | 22 | **4** |

## Senior Division – Olympics

| MEN's Division | | Head Threshold | Body Threshold | Hogu Size | WOMEN's Division | | Head Threshold | Body Threshold | Hogu Size |
|---|---|---|---|---|---|---|---|---|---|
| -58kg | Not exceeding 58kg | 1 | 19 | **3** | -49kg | Not exceeding 49kg | 1 | 16 | **2** |
| -68kg | Over 58kg & not exceeding 68kg | 1 | 21 | **3** | -57kg | Over 49kg & not exceeding 57kg | 1 | 18 | **3** |
| -80kg | Over 68kg & not exceeding 80kg | 1 | 23 | **4** | -67kg | Over 57kg & not exceeding 67kg | 1 | 20 | **3** |
| +80kg | Over 80kg | 1 | 25 | **5** | +67kg | Over 67kg | 1 | 22 | **4** |

# KPNP PSS Size Chart

## Junior Division – World Taekwondo

| MEN's Division | | Head Threshold | Body Threshold | Hogu Size | WOMEN's Division | | Head Threshold | Body Threshold | Hogu Size |
|---|---|---|---|---|---|---|---|---|---|
| -45kg | Not exceeding 45kg | 1 | 14 | **2** | -42kg | Not exceeding 42 kg | 1 | 13 | **2** |
| -48kg | Over 45 kg & Not exceeding 48 kg | 1 | 15 | **2** | -44kg | Over 42 kg & Not exceeding 44 kg | 1 | 13 | **2** |
| -51kg | Over 48 kg & Not exceeding 51 kg | 1 | 16 | **3** | -46kg | Over 44 kg & Not exceeding 46 kg | 1 | 14 | **2** |
| -55kg | Over 51 kg & Not exceeding 55 kg | 1 | 17 | **3** | -49kg | Over 46 kg & Not exceeding 49 kg | 1 | 15 | **2** |
| -59kg | Over 55 kg & Not exceeding 59 kg | 1 | 18 | **3** | -52kg | Over 49 kg & Not exceeding 52 kg | 1 | 16 | **3** |
| -63kg | Over 59 kg & Not exceeding 63 kg | 1 | 19 | **3** | -55kg | Over 52 kg & Not exceeding 55 kg | 1 | 16 | **3** |
| -68kg | Over 63 kg & Not exceeding 68 kg | 1 | 20 | **4** | -59kg | Over 55 kg & Not exceeding 59 kg | 1 | 17 | **3** |
| -73kg | Over 68 kg & Not exceeding 73 kg | 1 | 21 | **4** | -63kg | Over 59 kg & Not exceeding 63 kg | 1 | 18 | **3** |
| -78kg | Over 73 kg & Not exceeding 78 kg | 1 | 22 | **4** | -68kg | Over 63 kg & Not exceeding 68 kg | 1 | 19 | **3** |
| +78kg | Over 78 kg | 1 | 23 | **4** | +68kg | Over 68 kg | 1 | 20 | **4** |

## Junior Division – Youth Olympics

| MEN's Division | | Head Threshold | Body Threshold | Hogu Size | WOMEN's Division | | Head Threshold | Body Threshold | Hogu Size |
|---|---|---|---|---|---|---|---|---|---|
| -48kg | Not exceeding 48kg | 1 | 15 | 2 | -44kg | Not exceeding 44kg | 1 | 13 | 2 |
| -55kg | Over 48kg & not exceeding 55kg | 1 | 17 | 3 | -49kg | Over 44kg & not exceeding 49kg | 1 | 15 | 2 |
| -63kg | Over 55kg & not exceeding 63kg | 1 | 19 | 3 | -55kg | Over 49kg & not exceeding 55kg | 1 | 16 | 3 |
| -73kg | Over 63kg & not exceeding 73kg | 1 | 21 | 4 | -63kg | Over 55kg & not exceeding 63kg | 1 | 18 | 3 |
| +73kg | Over 73kg | 1 | 23 | 4 | +63kg | Over 63kg | 1 | 20 | 3 |

# KPNP PSS Size Chart

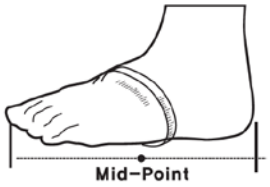
## Cadet Division – World Taekwondo

| MEN's Division | | Head Threshold | Body Threshold | Hogu Size | WOMEN's Division | | Head Threshold | Body Threshold | Hogu Size |
|---|---|---|---|---|---|---|---|---|---|
| -33kg | Not exceeding 33 kg | 1 | 11 | **1** | -29kg | Not exceeding 29 kg | 1 | 10 | **1** |
| -37kg | Over 33 kg & Not exceeding 37 kg | 1 | 12 | **1** | -33kg | Over 29 kg & Not exceeding 33 kg | 1 | 11 | **1** |
| -41kg | Over 37 kg & Not exceeding 41 kg | 1 | 13 | **2** | -37kg | Over 33 kg & Not exceeding 37 kg | 1 | 12 | **1** |
| -45kg | Over 41 kg & Not exceeding 45 kg | 1 | 13 | **2** | -41kg | Over 37 kg & Not exceeding 41 kg | 1 | 13 | **2** |
| -49kg | Over 45 kg & Not exceeding 49 kg | 1 | 14 | **2** | -44kg | Over 41 kg & Not exceeding 44 kg | 1 | 13 | **2** |
| -53kg | Over 49 kg & Not exceeding 53 kg | 1 | 15 | **3** | -47kg | Over 44 kg & Not exceeding 47 kg | 1 | 14 | **2** |
| -57kg | Over 53 kg & Not exceeding 57 kg | 1 | 16 | **3** | -51kg | Over 47 kg & Not exceeding 51 kg | 1 | 15 | **2** |
| -61kg | Over 57 kg & Not exceeding 61 kg | 1 | 17 | **3** | -55kg | Over 51 kg & Not exceeding 55 kg | 1 | 16 | **3** |
| -65kg | Over 61 kg & Not exceeding 65 kg | 1 | 18 | **3** | -59kg | Over 55 kg & Not exceeding 59 kg | 1 | 17 | **3** |
| +65kg | Over 65 kg | 1 | 19 | **4** | +59kg | Over 59 kg | 1 | 18 | **3** |

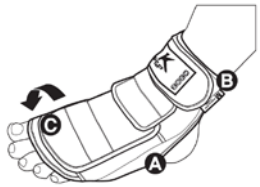
# KPNP Foot Protector Size Chart

## KPNP Foot Protector Size & Instruction

Measure the middle circumference of your foot.
Select the matching E-Foot protector from the size table.
Choose 1 smaller size if you want tighter fit.




When you wear it, pull A, not B.
If you pull B, the protector can be damaged.




| KPNP | Size in cm | Size in Inch | EU Size | Recommended Foot Circumference (cm) | (inch) |
|---|---|---|---|---|---|
| **1** | 210 | 8.3 | 36 | 205~215 | 8.1~8.5 |
| **2** | 220 | 8.7 | 37 | 215~225 | 8.5~8.9 |
| **3** | 230 | 9.1 | 38 | 225~235 | 8.9~9.3 |
| **4** | 240 | 9.4 | 39 | 235~245 | 9.3~9.6 |
| **5** | 250 | 9.8 | 40 | 245~255 | 9.6~10.0 |
| **6** | 260 | 10.2 | 41 | 255~265 | 10.0~10.4 |
| **7** | 270 | 10.6 | 42 | 265~275 | 10.4~10.8 |
| **8** | 280 | 11.0 | 43 | 275~285 | 10.8~11.2 |
| **9** | 290 | 11.4 | 44 | 285~295 | 11.2~11.6 |
| **10** | 300 | 11.8 | 45 | 295~ | 11.6~ |

# KPNP Warranty Policy

| ITEM | Remarks |
|---|---|
| Impact Sensor | 5,000 Total Valid Kicks |
| Proximity Sensor | 5,000 Total Valid Kicks |
| Transmitter | 2 years |
| Receiver | 2 years |
| Referee Scoring Box | 2 years |
| Genuine E-Foot Protector Scanner | 2 years |
| E Body Protector (outsole) | If it is unused it can be refunded or exchanged within 15 days of purchase |
| E-Foot Protector | If it is unused it can be refunded or exchanged within 15 days of purchase |
| E-Head Protector | If it is unused it can be refunded or exchanged within 15 days of purchase |