



#### **IMPORTANT: READ BEFORE INSTALLATION**

## Warning: Electrostatic Discharge (ESD) and Electrical Devices



What is ESD? ESD, or Electrostatic Discharge, occurs when objects of different materials rub against each other, creating invisible to high sparks. Every Object, every human charges itself up simply when moving. All the time, several 1.000 Volts. When two objects/humans gets in contact their different charging levels want to balance and discharge from the higher voltage to the lower. This spark happens in a 1/1000 of a blink of an eye and depending on the voltage difference, the surface conditions and the electrical material resistivity it is invisible, visible, hear able or it even hurts.

Imagine it like when you walk on a carpet and then touch a doorknob – that little shock is ESD. Touching an electric cow pasture fence simulates a high artificial ESD (15.000V)

**Why is ESD Important?** ESD is invisible and can do harm to electronic devices, causing strange behavior or even destroy it. Our modern electric devices are surrounded by ESD and get shocked all the time we are using it. Therefore quality devices, so the WeissBrand Scoring System, is widely protected against damage from ESD. That means that the devices will survive many heavy shocks but do not prevent from the discharges itself.

**How to Prevent ESD:** Preventing electrostatic from developing in the first place is the best course of action.

- 1. Choose Safe Surfaces: Make sure your Tatami mats have a good connection to the ground. Tatami mats themselves, 3cm thick and mostly made out of extruded Polyehtylen plastic (XPE), are as unfavorable as possible for protection against electrostatic charging (20.000Volts), but avoiding additional carpets and plastic sheets underneath is an important step to lowers the electric resistance which dissipate electrostatics and prevents from high charging level of the people on it. Of course, you also have to pay attention to the specific resistance of the tatami mats itself. Aging could cause deterioration
- 2. **Control Humidity**: Dry, air-conditioned spaces can increase ESD risk. Maintain proper humidity levels > 30%REL to reduce the chance of ESD. That is the minimum value for human well-being anyway.
- Use the Right Cleaners: Only use recommended cleaning products for Tatami mats.
   Some chemicals can seal or damage the surface of the mats and reduce coductivity which cause higher ESD events.
- 4. **Discharge**: Before touching electronic devices, touch something else, preferably metal, like a chair or table leg. This releases static electricity from your body, protecting the electronics.

By following these steps, you can help keep your electronics working well and avoid ESD issues.

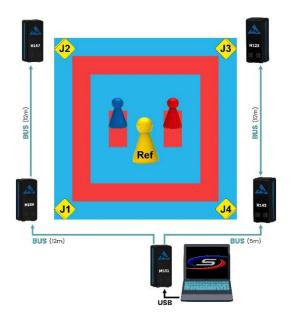


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# How to build up the Kumite Score Clicker

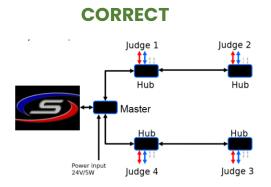


IMPORTANT: FIRST plug in master per USB to laptop THEN connect the blue cables to the master. Never let a blue cable plugged into the master when there is nothing connected. It could seriously damage the master when the unplugged cable lies on the tatami (ESD damage).

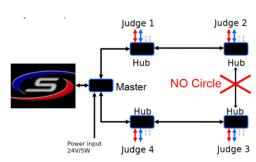
- 1. Connect one blue and one red Clicker to the Hub
- Put the long turquoise cables under the Tatami between J1-J2 and J3-J4
   (Use the Tatami cable protection)
- Put one short and one long turquoise cable from the main table to
- 4. Connect the Hubs

J1 and J4

- 5. Place the Master on the Main table and connect the USB cable with laptop
- 6. Connect the power supply to the Master
- 7. Connect the turquoise cables to the Master



### **NOT CORRECT**



Version: 8 (30.05.2025)

Kumite Score Clicker

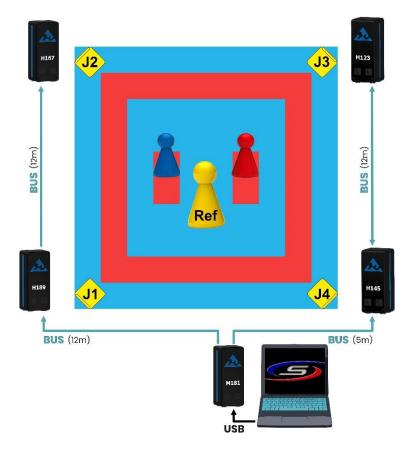
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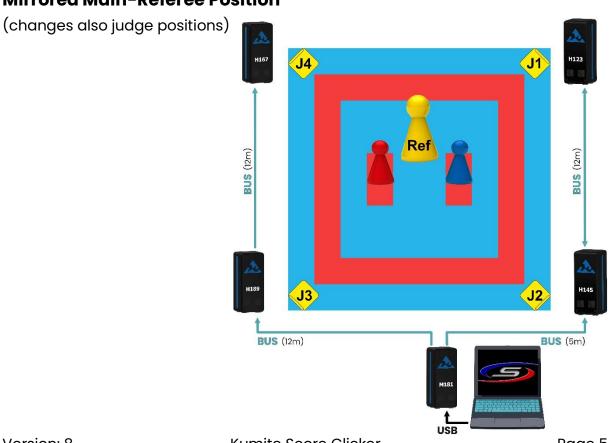


# **Possible Tatami Layouts**

# **Standard Setup**



# **Mirrored Main-Referee Position**

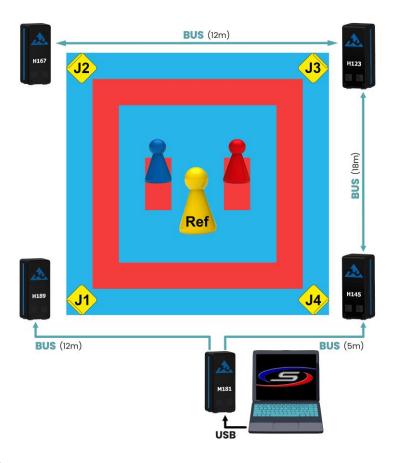


Version: 8 (30.05.2025) Kumite Score Clicker

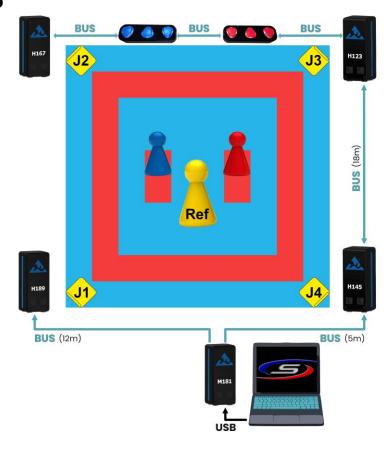
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# **Premier League Setup**

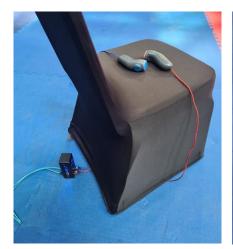


# **Premier League VR Setup**





# Pictures of possible assembly





Additional Info: recommended during KATA leave all devices connected (if it is the same day)

by WKF approved

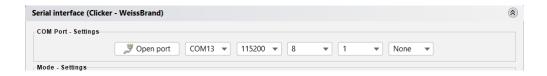




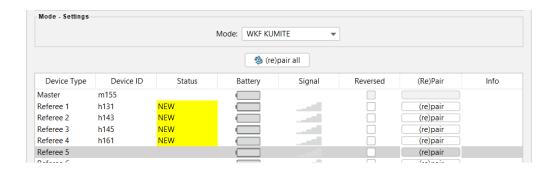


# **How to connect the Kumite Score Clicker to SET**

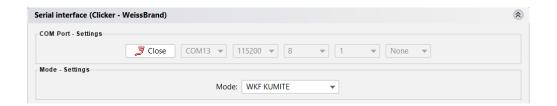
 Open SET – Panels – Data Services – expand Serial interface (Clicker – WB) and select the correct COM port with 115200 Baud rate. 8 data bits, 1 stop bit and None. Choose Mode WKF Kumite



- 2. Fill in the **Device-ID** of the master and use Enter or Tab.
- 3. Fill in the Clicker-IDs for Referee 1 to 4



4. Click Open Port.



5. If all is set up correctly, the status turns to Active, Battery and Signal Symbols.



**6.** Click on **(re)pair all** (if not all devices are connected)



# **How to set up Pointpanel**

Open Pointpanel and Menu Other Settings and control:

- √ Stop clock
- ✓ Count Highest
- ✓ Show Score Clicker Test on RESET ALL



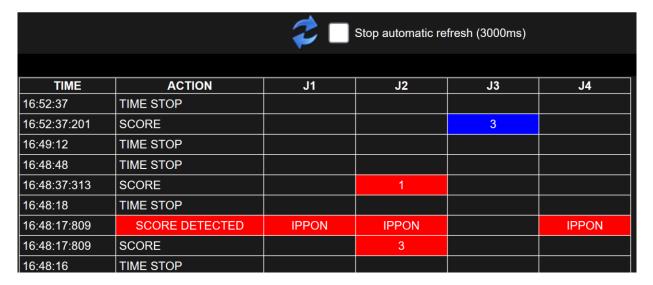
# **Helping Tools and Logs:**

#### Logs at Pointpanel



# **Tatami Manager View:**

Score Observer Service (can be open on a tablet )





# Open a browser and type in the address

http://IP-ADDRESS-TATAMI:8080/ppwkf/kumitescoreobserver

Change IP-ADDRESS-TATAMI to real IP of Tatami

## Example tablet for tatami manager

(Recommended is to use Kata Referee 1 tablet with Chrome):

#### Normal Point:

TIME	ACTION	J1	J2	J3	J4
16:48:18	TIME STOP				
16:48:17:809	SCORE DETECTED	IPPON	IPPON		IPPON
16:48:17:809	SCORE		3		
16:48:16	TIME STOP				
16:48:16:709	SCORE DETECTED	IPPON			IPPON
16:48:16:701	SCORE				3
16:48:16:510	SCORE	3			

No score - more than 2 seconds between

16:58:00:214	SCORE	1		
16:57:57:247	SCORE		1	

# Monitoring Page (Central table): COM Port of the Tatami

To control if COM Port is open

**URL:** http://IP-ADDRESS-TATAMI:8080/set/wbclicker

Change IP-ADDRESS-TATAMI to real IP of Tatami



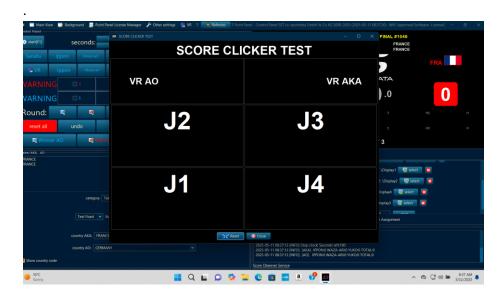
# **Score Clicker Test ON RESET ALL**

If the checkbox "Show Score Clicker Test on RESET ALL" is enabled, the Clicker Test screen will appear before every match.

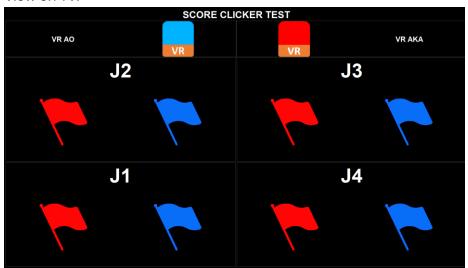
NOTE: This has two key benefits:

- It allows a technical check of all connected clickers.
- It ensures that each referee performs at least one click, helping especially new referees understand how a valid click feels.

After all flags have been displayed, the operator can close the test window and proceed with the match.



#### View on TV:





# **Error and Color Codes**

## **Error Codes**

Port is closed or blocked	Connection lost to SET (USB Power saving mode active or USB was unplugged -> reopen the port)
111 General Error	Any error with connection
112 CLICKER lost connection to HUB	Red OR blue clicker lost connection
113 Lost Connection to SET	Connection lost to SET
114 HUB lost Connection to MASTER	Hub and Master cannot communicate.
114 (show by all )	Power supply isn't connected or too weak
115 Clicker RED lost connection to HUB	Red clicker lost connection to its HUB
116 Clicker BLUE lost connection to HUB	Blue clicker lost connection to its HUB
117 CLICKER RED and BLUE lost connection to HUB	Both clickers are not connected

# **Troubleshooting Guide**



**Clicker Error: Port closed or blocked** 

This error occurs when the USB cable has been unplugged (even if it was quickly replugged) or when Windows Power Saving has turned off the USB port. See "Turn off USB Suspend Options" chapter for resolution.

- 1. Check USB Cable: if unplugged, plug it in.
- 2. **Re-open the Port:** Maybe you will see an open port on the button, but then you need to close and open the port again.

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3. If you see, none of the signal status after reconnect

Unplug and re-plug the USB cable. After reconnecting the USB cable, try reopening the port.

If the device functions properly after this step, it indicates that Windows Power Saving settings may be affecting the USB connection. Please refer to the "Turn off USB Suspend Options" chapter.



**Code 114 HUB lost Connection to MASTER** 

- 4. **Initial Troubleshooting:** If this error occurs sporadically, it is likely a minor communication glitch. Simply perform a "repair all" operation to resolve the issue.
- 5. **Check the Cable Connection:** If the error persists or occurs repeatedly, it could indicate a faulty connection on either end of the cable.
  - a. First, ensure that the connector is securely inserted into its port.
  - b. Inspect the visible part of the cable for any visible damage. If any damage is found, consider replacing the cable.
- 6. **Hub/Master Port Inspection:** If the issue persists after checking the cable and connector, the Hub/Master port might be damaged.
  - a. Replace the malfunctioning Hub if necessary.
  - b. If the problem reoccurs, consider replacing the Hub or Master device on the other end of the connection.
- 7. **Cable Replacement:** If none of the above steps resolve the issue, it's possible that the cable itself is the problem.





Code 114 shown by all

This error is displayed when there is a power supply issue. This can occur if the power source is disconnected, providing insufficient power, or if the power plug itself is faulty.



Code 115 - 116 - 117 Clicker lost connection

- 1. **Initial Troubleshooting:** If this error occurs sporadically. Simply perform a "repair all" operation to resolve the issue.
- 2. **Check Clicker Connection:** Ensure that the blue/red clicker is plugged into the Hub.
  - a. If the clicker is not connected, insert it into the appropriate USB Port on the Hub.
  - b. Click "Repair all" to re-connect
- 3. Repeated Errors: If the error code continues to appear repeatedly for the same color clicker, consider switching to a different clicker of the same color. If the issue persists even after changing the clicker, it may indicate a potential defect with the HUB port. In this case, change to another USB Port or change the HUB.



# **Color Codes**

## Master:

All lights red	Not paired with SET
All lights blue	Correct paired with SET
Top lights yellow	Power supply isn't connected or too weak
Yellow lights flashing	Connection lost to SET (USB Power saving mode active or USB was unplugged -> reopen the port)
Top lights yellow and turquoise	Update Mode

## Hub:

All lights red	Not paired with Master
All lights blue	Correct paired with Master
Top lights yellow	Power supply isn't connected or too weak
Top lights yellow and turquoise	Update Mode
Bottom lights yellow/green	Status of USB Port if there is a connected device or not



# FAQ:

#### What to do when all devices do nothing after opening port?

- 1. Check the fields next to COM 115200 selected?
- 2. Correct COM selected?
- 3. Correct Master number?

# What to do when a single HUB does not connect after opening port?

- 1. Press (re)pair all
- 2. Blue and red Clicker are connected?
- 3. Hub connected
- 4. Correct Hub number?

# What to do if Master is always again yellow blinking or Port closed Error always again happening?

Master is yellow blinking because connection to SET is lost. This can cause of unplugging the USB cable after opening the COM port in SET or Windows turns off the USB plug.

#### **Cable Disconnect**

- 1. Connect the cable
- 2. Close the COM Port and reopen.

Do you see the signal and battery status filled = everything is correct Are all of them empty: reconnect the USB cable again and do the following steps:

#### **Windows USB COM Port**

- 1. USB Management Settings of Windows:
  - See below: Turn off USB Suspend Options
- 2. If you have the same issue again, it can help to change the USB Port (or to a USB HUB, there is no energy turn off)

#### What to do if no points are counted in Pointpanel?

- 1. Correct Mode selected (WKF Kumite)
- 2. Port is open and all Clickers are active?

#### What to do when a single Hub or Clicker lost connection?

- 1. (re)pair the clicker or (re)pair all
- 2. Check Hub and Clicker:
  - a. Turquoise cable connected?



- b. Blue and red Clicker connected?
- 3. Master power supply connected?
- Still issues? Hub/Master may be defect.
   Replace Hub/Master and write new ID into settings

# What to do when Master flashing yellow and no valid license is shown?

1. Update SET to newest version:

# What to do when everything looks connected but nothing is working?

(a correct connection is only established when battery and signal status is shown)

- 1. Check the fields next to COM 115200 selected?
- 2. Correct COM selected?
- 3. Correct Master number?
- 4.



# **Turn off USB Suspend Options**

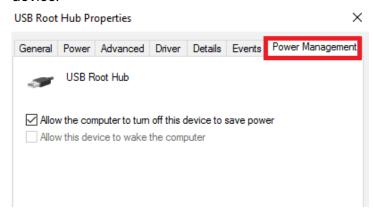
# **Verify Power Management Options**

Many times, there are power management settings on Windows 10/11 that disconnect the idle USB ports from the computer to save power. This can solve this issue.

- 1. Open device manager
- 2. Now, you find a dedicated category for USB ports called "Universal Serial Bus Controllers". Tap the arrow on its left



- 3. Now, find USB option. Open the properties tab by right-clicking on it.
- 4. In the properties window, head over to power management option for the USB device.





5. In this window, simply uncheck the box that allows the computer to disable the USB ports.

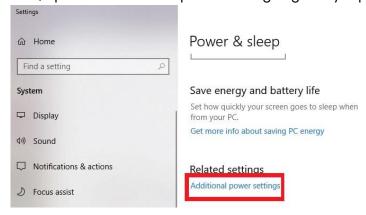


- 6. Repeat the process for **ALL** other USB devices options if available.
- 7. Restart the computer.
- 8. Now, your USB should be functional at all times.

# **USB Selective Suspend Options**

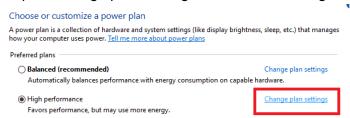
The USB Selective Suspend is yet another feature on Windows 10 that disables a particular USB port on the motherboard to save power without affecting other USB ports. You can turn OFF this feature to see whether it is causing problems with your USB port or not.

- 1. Head over to the power option.
- 2. Now, open the additional power settings again by tapping the link.

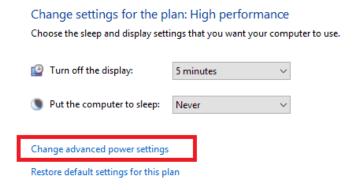




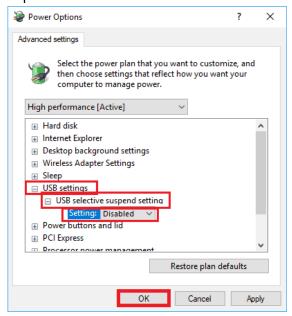
3. Tap on change plan settings to make the changes.



4. Now, tap the link that will redirect you to the advanced power settings.



- 5. In the advanced settings window, expand the USB settings. Here, you can change the state of the USB selective suspend feature.
- 6. Open the drop-down menu and disable the feature for both battery and pluggedin power modes.



7. Now, your USB port should be active.



# **Stand-alone Pointpanel**

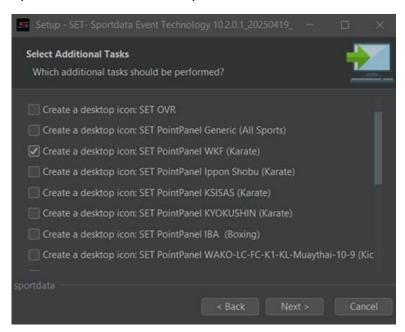
**IMPORTANT:** The free license does not include the right to use it in games.

#### Installation

Download the latest versions of SET-OVR and Pointpanel WKF from: <a href="https://set.sportdata.org">https://set.sportdata.org</a>

Run the installer (check SET-OVR if you want to install the full version.)

By default, the horizontal layout will be installed.



If you prefer the WKF vertical layout, navigate to the installation folder of SET-OVR and replace the file SETPointPanel.jar with the downloaded Pointpanel WKF file.



Vertikal Layout

Horizontal Layout



# Using the Pointpanel and Connecting the Clickers

To launch the pointpanel, click on:



**NOTE:** If SET-OVR is already installed on your system and you want to run the WKF Pointpanel afterwards, simply navigate to the SET-OVR installation directory and double-click on "Start-SETPP-WKF.exe" to launch it.

To connect the clickers: Open the extended menu by clicking on:



Then switch to the WB Clicker tab. There you will find the connection settings as explained in:

#### ▶ How to connect the Kumite Score Clicker to SET



#### **Updates & Future Changes**

If there are any changes to rules or the panel design in the future, you can always download the latest version from:

https://set.sportdata.org