

WFS X2 Foot switch

The X2 devices

The WFS X2 foot switch can only be used together with InkMachines power supply devices. The new X2 devices are capable of unit to unit communication which means that you can pair one or several powerpacks directly to a foot switch and/or the smartphone app that will act as a main unit. The system can then be expanded with the TPS-500 X2 main unit and future devices for additional functionality. The TPS-500 X2 main unit is required for full functionality to run machines with cable and to enable the use of the Neorail as well as the use of a charger bay.

Charging

The WFS X2 footswitch can be charged with a USB-C cable from various sources. The TPS-500 X2 with charger bay is recommended as it will provide 2 USB-C ports for charging of the foot switch. If the charger bay is not available you can use our travel charger or a regular computer with a USB-C cable to charge. The USB-C port on the TPS-500 X2 can also be used if the Neorail is not attached.

Pairing

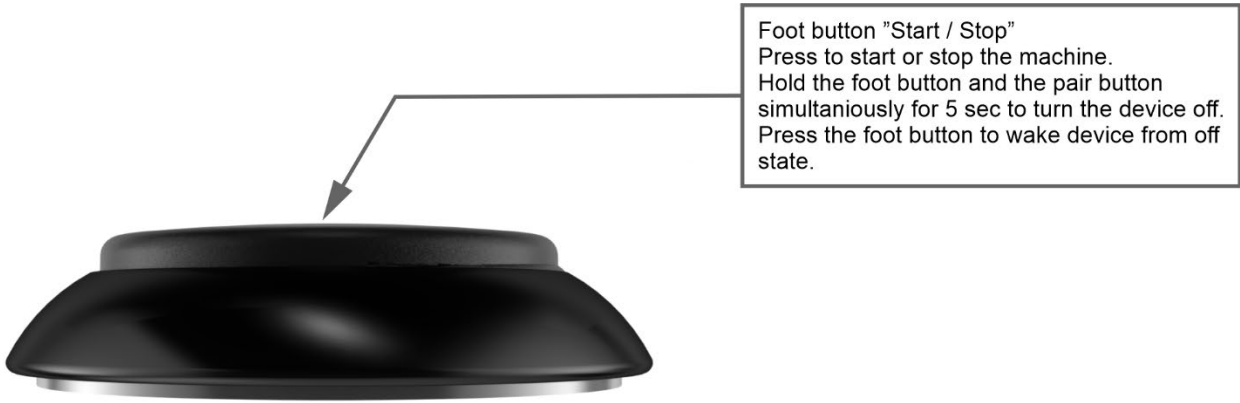
Holding the pair button on the corresponding devices for example a powerpack and a footswitch for 5 sec until the lights start pulsing. They will then pair within a few seconds. Repeat the process if you have more powerpacks to form a system with one foot switch and several powerpacks. On the TPS-500 X2 unit the OK button is used as pair button. To unpair / reset a device and making it independent again, hold the pair button for about 12 sec until the lights flash rapidly a few times. The mentioned features can also be performed with the smartphone app. It is possible to have several separate systems in the same studio or room without interference.

Backward compatibility

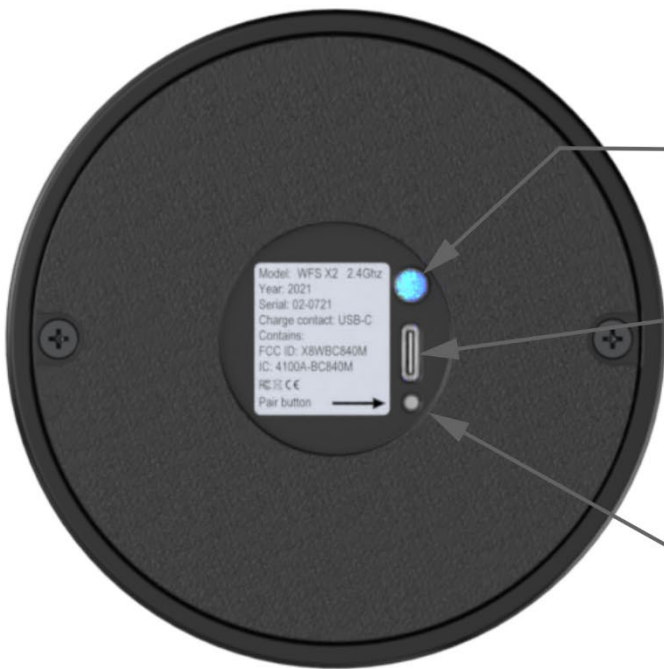
The X2 Footswitch is backward compatible with the old TPS-500 system but the smartphone app can't be used in this case. Pairing to the old TPS-500 can only be done through the settings menu of the old TPS-500 and the foot switch needs to be reset before the pairing. We recommend that you update the old TPS-500 here <https://trinity.xnk.nu/inkmachines/>. The update can be done with a PC and the original USB cable that came with the TPS-500.

If you no longer want to have the WFS X2 foot switch paired to the old TPS-500 and want to use it directly to a X2 powerpack or the app you first need to unpair / reset the foot switch by holding the pair button for 12 sec until the led on the device flash and beeps.

WFS X2 foot switch overview



Foot button "Start / Stop"
Press to start or stop the machine.
Hold the foot button and the pair button simultaneously for 5 sec to turn the device off.
Press the foot button to wake device from off state.



Battery indication
Blue blinking = ok, idle
Red blinking = less than 20%

USB-C port
For charging and software updates when the app is not used.

Pair button
Hold for 5 sec to enter pair mode, the led will start pulsing. Release the pair button and hold the pair button on the powerpack for 5 sec. The units will pair. Repeat if you have more devices. On the TPS-500 X2 the OK button is used as the pair button. To unpair and reset the foot switch, hold the pair button for 12 sec, the led will flash and it will beep to confirm reset.

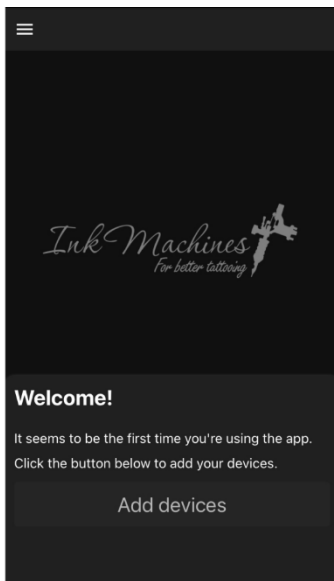
InkMachines App

Get the app:

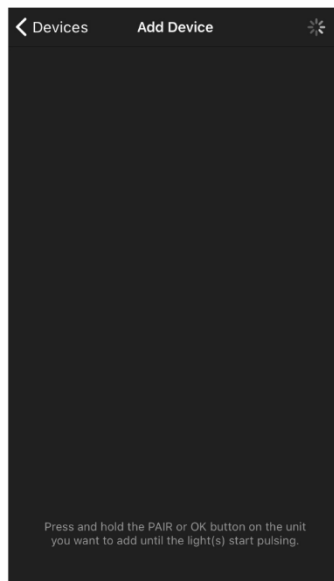


If you have an Apple iPhone 6 or later or an iPad from 2012 or later: Go to Apple App Store, search for InkMachines and install the app. For smartphones with Android 8 or later: Go to Google Play, search for InkMachines and install the app.

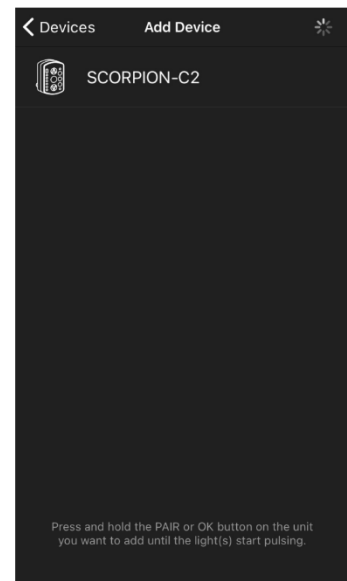
Pairing X2 devices with the app



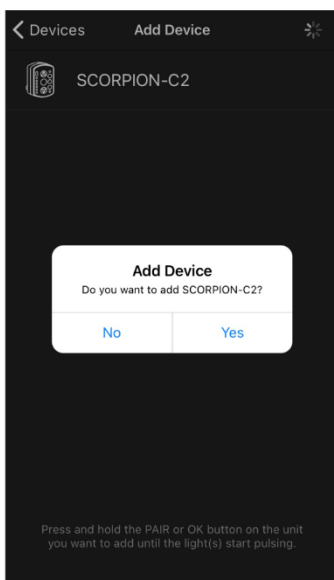
1. First time you use the app you will be asked to add devices. Make sure the device you wish to pair is on and press "Add devices"



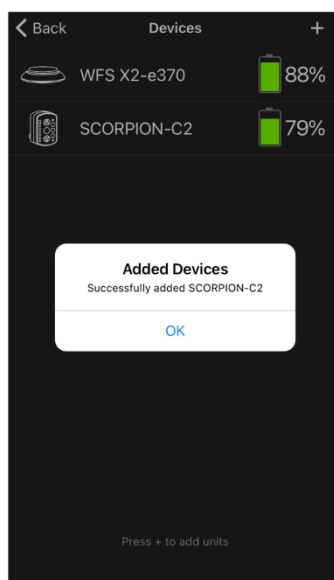
2. The app will go in to pair mode and start to search for other devices that in pair mode. Press and hold the physical pair button on the device you wish to add.



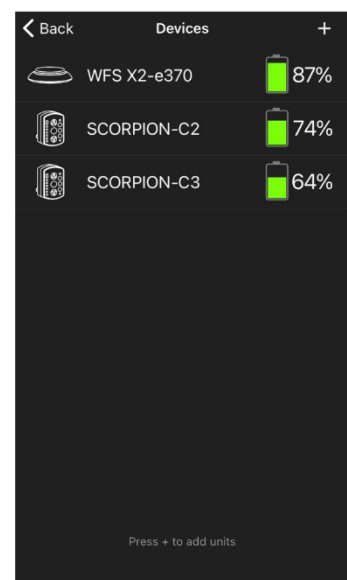
3. The device will appear in the app. Press the device to add.



4. Confirm by pressing Yes.



5. The device will now appear in the app under Devices.

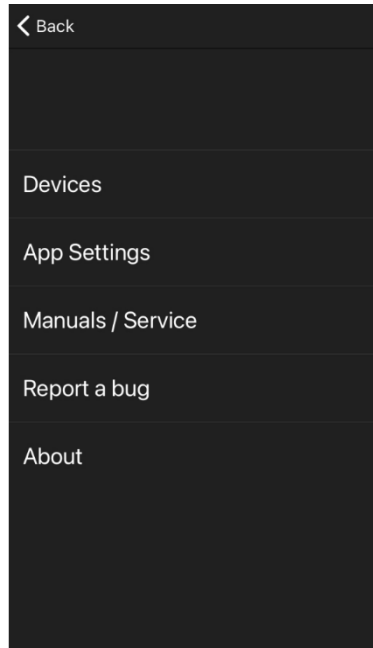


6. Repeat the process if you wish to add more devices by pressing the + at the top right.

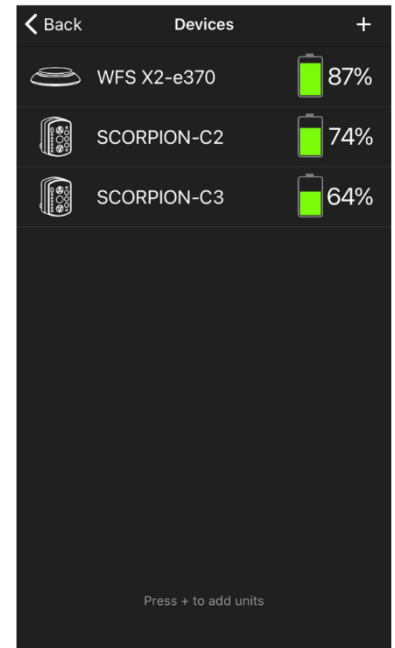
Settings & basic navigation



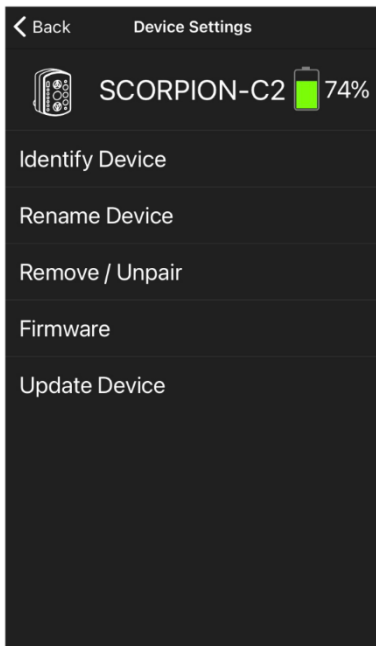
7. When a powerpack is added you can Press "Back" to access to the run page(s). To select the powerpack you want to control (when two or more powerpacks are paired) you can tilt the powerpack (recommended) and the run page will automatically change. You can also manually swipe pages to select device. To access the settings page press the 3 lines in the upper left corner.



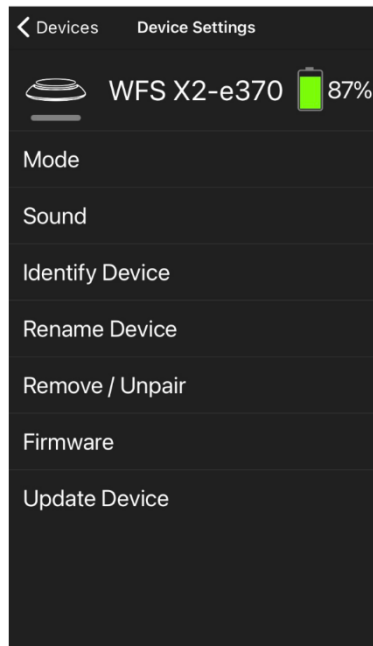
8. To make changes to any device press "Devices".



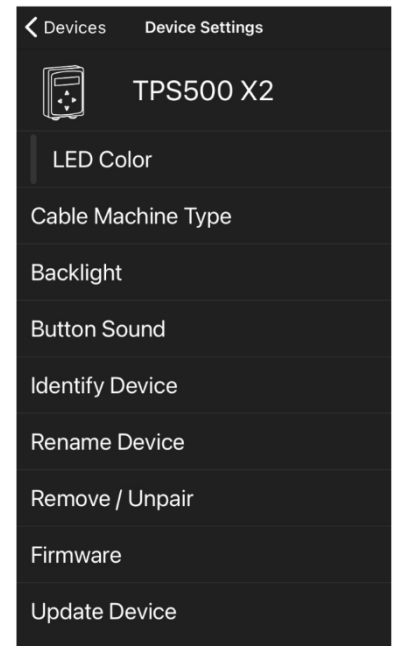
9. Press the device you want to make change to to access the settings of each device.



10. The following settings are available on the powerpack settings page.

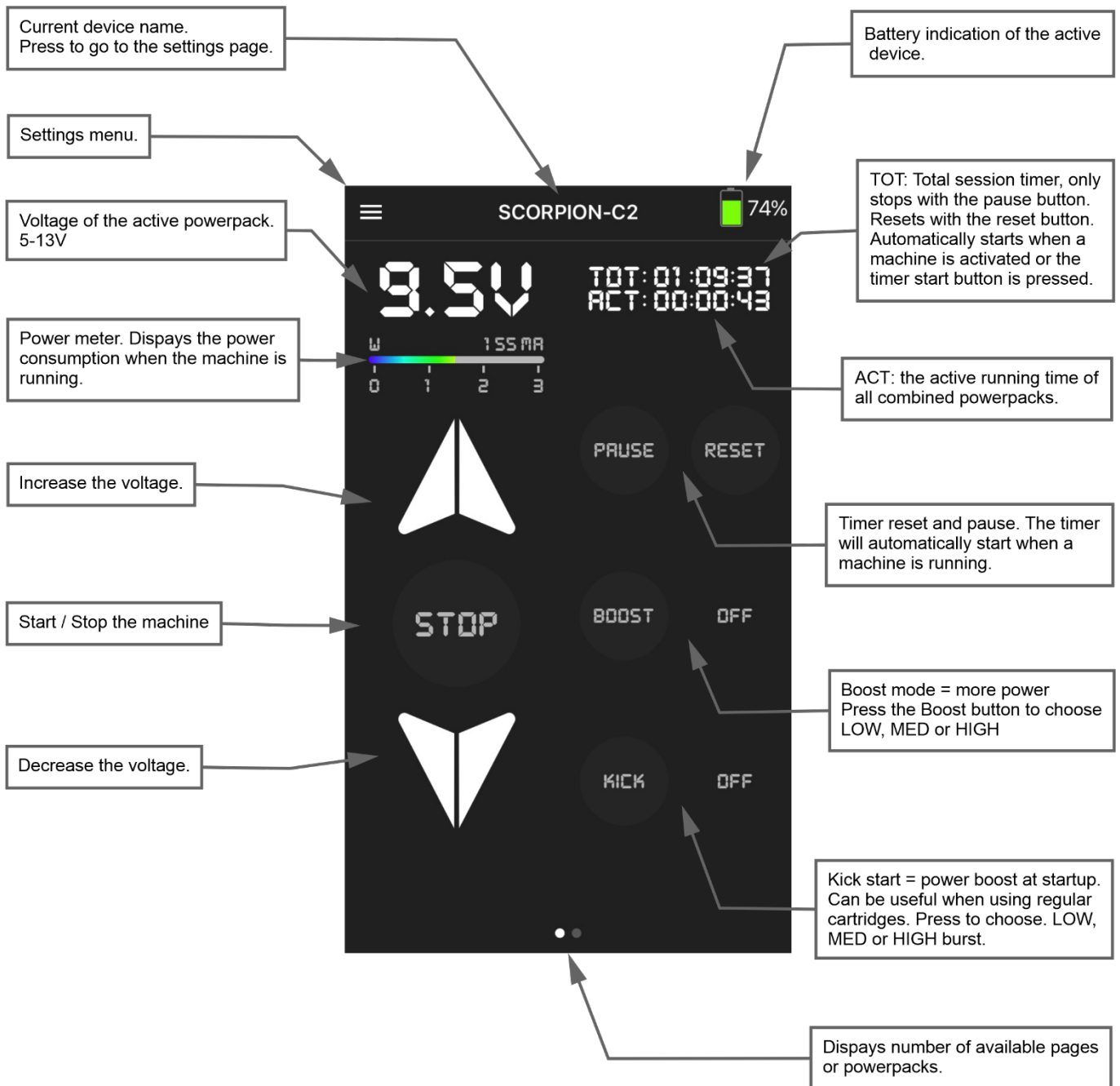


11. The following settings are available on the foot switch settings page.



12. The following settings are available on the TPS-500 X2 settings page.

Overview of the work page



Changing or replacing a smartphone or ipad.

The system only allows one smartphone to be paired at the time. If you have the X2 foot switch paired to one or more powerpacks plus smartphone and you want to replace the current smartphone to use for example an ipad the pairing structure can be maintained.

1. Close the app (double click and swipe it up on an iphone) on the smartphone before you start the app on the new smartphone or ipad.
2. Only pair the foot switch to the new smartphone. The powerpacks that is paired to the footswitch will now be imported to the new smartphone or ipad and no additional pairing is required.

Safety and hygiene

Responsibility

It is the operations responsibility to follow regulations and to provide a safe environment for their customers. Always follow local regulations concerning the tattoo operation.

The manufacturer does not have responsibility for any kind of material or personal damage or infection caused by the operation. Negligence or misuse of the machine or the components attached to the machine is the operations responsibility.

The manufacturer does not have responsibility for any contamination or infection.

Fluids

The product should not come in direct contact with fluids. If fluids will get in contact with the electronic it can damage the product and the warranty will be void.

Only for professional use

InkMachines only provide products for professional tattoo artists and the product may only be used by professionals with knowledge about contamination and how to maintain a clean working environment with sterile equipment.

For each client and session always use:

- sterile grips
- new sterile needles
- new rubber gloves
- new plastic barriers for tattoo equipment; around the machine and the Powerpack.

Cleaning



It's important for the tattoo operation to keep a clean and hygienic environment to avoid contamination and infection.

Do NOT use alkaline or acid cleaning agents with strong bases (high or low pH). Only use pH neutral cleaning agents and 70% alcohol disinfectants on the units. Use a dampened piece of paper or to wipe off surfaces of the units before and after use.

Preparation



Always clean the foot switch between sessions. It is recommended that the whole foot switch is put inside a plastic bag.

Trouble shooting

Foot switch

Instruction	If the Footswitch still not functioning
1. Make sure that the footswitch is charged and the light is active.	Charge with USB-C. The light on the back should indicate that the footswitch is charging with steady red or blue light.
2. Make sure that the footswitch is paired to at least one device.	Go to 3.
3. Pair the footswitch to the app and go to the footswitch device settings. The green light in the app should indicate when the footswitch is pressed.	Go to 4.
4. Check that the Foot switch foot button is moving freely so the switch can be triggered.	Go to 5.
5. Remove the two screws on the back and clean the inside from any dirt and check that the magnet is present in the top of the inside the footswitch button.	Contact InkMachines for further instructions, see www.inkmachines.com

Technical specification

Foot switch WFS ©

Battery	LiPo 550mAh
Radio	2.4 GHz BLE
HMI	Status led, Sound, Button
Charging	USB-C
Modes	Hold or Toggle
Switch type	Magnetic
Operating temperature	10 – 35 °C Indoor use only.
Weight	160 grams
Dimensions L x W x H	∅98x25mm

Operating Requirements and Conditions:

This **equipment** complies with U.S. Federal Communications Commission (FCC) guidelines respecting safety levels of radio frequency (RF) exposure for *Portable* devices.

Contains FCCID: X8WBC840M

RF Exposure - This device has been tested for compliance with FCC RF exposure limits in a portable configuration. This device must not be used with any other antenna or transmitter that has not been approved to operate in conjunction with this device.

This equipment has very low levels of RF energy that is deemed to comply without testing of specific absorption rate (SAR).

CAUTION: Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Industry Canada license exempt RSS standard

This device complies with Industry Canada licence exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Declaration of Conformity (DoC)

We;

Name	InkMachines Sweden AB
Address	Grusåsvägen 8 352 45 VÄXJÖ, Sweden

declare under our sole responsibility that the product;

Product name /model:	TPS-500 X2 incl. WFS X2 and Powerpack X2
Type:	Wireless power supply devices for Tattoo Machines

to which this declaration relates is in conformity with the essential requirements and other relevant requirements with the relevant EU legislation.

Directives

- Radio Equipment Directive (RED): 2014/53/EU
- Restriction of the use of certain Hazardous Substances (RoHS): 2011/65/EU

References to the relevant harmonized standards used:

- RED, article 3.2 (Radio spectrum) EN 300 328 V2.2.2
- RED, article 3.1b (EMC) ETSI EN 301 489-17 V3.2.4
- RED, article 3.1a (Safety) EN 62368-1:2014+AC:2015 EN 62479:2010
- RoHS EN IEC 63000:2018

Place and date of issue (of this DoC): 2021-08-20

Signed by:



Name:

Title of Authority: CEO

Warranty

This product includes a 12 months warranty from the date of purchase. The warranty applies to factory faults and not to wear of any components caused by normal or abnormal use.

If this product becomes defective during the Warranty period, InkMachines shall have the option, in its sole discretion, to either repair the product or replace the product. Shipping costs to the repair destination is not covered.

The warranty is void if:

1. The TPS-500 X2 user interface, main unit or Powepacks has been opened.
2. The TPS-500 X2 or any of its units or components have been autoclaved or cleaned in an ultrasonic cleaner.
3. Powerpacks have been used on any other machine brand than InkMachines.
4. Components have been damaged by misuse or carelessness.
5. Components have been manipulated.
6. Alkaline or acid cleaning agents with strong bases (high or low pH) have been used on the products.
7. If fluids have been dripped or sprayed on the units.

InkMachines entire aggregate liability for losses and damages for any cause related to or arising out of the purchase and/or use of the product will in no event exceed the purchase price paid for the product. In no event will InkMachines be liable: (a) any indirect, special, incidental, consequential or punitive loss or damage, or other economic loss of any kind, in any case, even if advised of, or if InkMachines could reasonably foresee, the possibility thereof. The limitations, exclusions and disclaimers in this agreement shall apply irrespective of the nature of the cause of action, demand, or proceeding including but not limited to, breach of contract, negligence, tort, strict liability or any legal or equitable theory