

Instruction Manual

SKYRC Tire Warmer neo

SK-600157
V.18

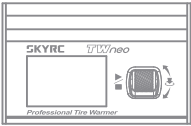
Welcome

Thank you for purchasing SKYRC Tire Warmer neo!
Designed for RC enthusiasts, the TWneo ensures your tires perform at their best before every race.
With Bluetooth connectivity, users can control the warmer not only through the device itself but also conveniently via a smartphone app — enabling wireless setup and operation.
The TWneo supports both PD (Power Delivery) and DC input power sources:

- **PD Input:** 20V, 100W Max
- **DC Input:** 6V–20V

When using DC input, make sure to set a Cut-Off Voltage to protect your power source (such as LiPo batteries).

WHAT'S INSIDE



Tire Warmer neo*1

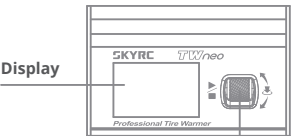


Warmer Cups*2

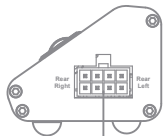


Manual*1

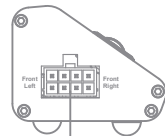
PRODUCT OVERVIEW



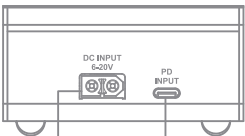
Display



Rear Tire Warmer Connector



Front Tire Warmer Connector



DC Input

PD Input

SPECIFICATIONS

Item	Option	Description
Input Voltage	DC input	6V-20V
	PD input	20V (Max 100W)
Heating Range	Celsius	20°C–80°C (step 0.1°C), Default: 20°C
	Fahrenheit	68°F–176°F (step 0.1°F), Default: 68°F
Operating Modes	Quick Warm	Quickly heats to target temperature, then maintains until user confirms.
	2-Stage Warm	Heats in two stages. After step one finishes, step two starts. After completion, device maintains temperature until confirmed by user.

SPECIFICATIONS

Item	Option	Description
Operating Modes	3-Stage Warm	Heats in three stages sequentially. After completion, device maintains temperature until confirmed by user.
APP	iOS/Android	RC GEARS
Language		English/French/Spanish/Deutsch/简体中文/Japanese (Default: English)
Operating Environment	Temperature	0°C–40°C
	Humidity	10%–90% RH, non-condensing
Storage Environment	Temperature	-10°C–50°C
	Humidity	20%–65% RH, non-condensing
Dimensions	L×W×H	83 × 53.2 × 39.8 mm
Weight	Net weight	Approx. 116 g

MAIN MENU OVERVIEW

- Quick Warm
- 2-Stage Warm
- 3-Stage Warm
- Discharge
- Settings

Each function is described in detail below.

QUICK WARM

This mode allows for fast and simple operation.

	Select Quick Warm
	Set your desired Front and Rear tire temperatures. Rotate the knob to set the Front temperature; the Rear will auto-sync (e.g., Front 41°C - Rear 41°C). You can set the Rear tire to a different temperature if desired.
	After temperature setup, select Start to begin heating, or Back to return to the main menu.

Why can Rear tires be set independently?

Because on most RC cars, rear tires experience different traction and load compared to the front. Adjusting the rear temperature separately allows racers to fine-tune grip balance and reduce oversteer or understeer — an essential trick in competitive racing.

2-STAGE WARM

This mode enables two sequential heating phases, allowing more precise pre-heating and tire conditioning before the race.

	Select 2-Stage Warm
	<ol style="list-style-type: none">1. Set the First Warming Time ①<ul style="list-style-type: none">• Limited by the Safety Timer in system settings.For example, if the Safety Timer = 30 minutes, the first heating duration can be up to 29 minutes.2. Set Front/Rear Tire Temperatures<ul style="list-style-type: none">Adjust the ideal heating temperature for the first phase.
	<p>Set Delay Time</p> <ul style="list-style-type: none">• Range: 0–60 minutes.• This is the rest period between the first and second heating cycles.• Example: Delay = 0Min → the unit switches immediately to the second heating phase.• Delay = 10Min → the unit pauses for 10 minutes before resuming heating.
	Set the Second Warming Time & Front/Rear Tire Temperature
	<p>Enable Delay Time ③</p> <ul style="list-style-type: none">• Range: 0–60 minutes.• This delay starts before the first heating begins.• Example: If set to 0, heating starts immediately after pressing Start.
	TWneo starts heating after the countdown.

- The total Warming Time for both stages must stay within the Safety Timer.
Example: Safety Timer 30 min Stage 1 = 20 min, Stage 2 ≤ 10 min.
- TWneo runs based on time, not temperature alone — when the set warming time ends, it proceeds to the next phase even if the temperature hasn't been fully reached.

Why two heating stages?

Some professional racers prefer a gradual tire heating curve. The first stage gently warms the tires to activate the rubber compound; after a short rest, the second stage ensures a more uniform temperature and better surface grip consistency before the race.

3-STAGE WARM

This mode is designed for ultimate precision and pre-race tire conditioning, often used in cooler climates or longer preparation times.

<div><div>9D4D</div><div>Quick Warm</div><div>2-Stage Warm</div><div>► 3-Stage Warm</div></div>	Select 3-Stage Warm
<div><div>1/3</div><div>Warming Time5 Min</div><div>Front50.0 °C</div><div>Rear45.0 °C</div><div>BackStart</div></div>	<div>1. Set the First Warming Time ①</div> <div>• Limited by the Safety Timer in system settings.</div> <div>For example, if the Safety Timer = 30 minutes, the first heating duration can be up to 29 minutes.</div> <div>2. Set Front/Rear Tire Temperatures</div> <div>Adjust the ideal heating temperature for the first phase.</div>
<div><div>1/3 > 2/3</div><div>Delay time3 Min</div><div>BackStart</div></div>	<div>Set Delay Time</div> <div>• Range: 0-60 minutes.</div> <div>• This is the rest period between the first and second heating cycles.</div> <div>• Example: Delay = 0Min → the unit switches immediately to the second heating phase.</div> <div>• Delay = 10Min → the unit pauses for 10 minutes before resuming heating.</div>
<div><div>2/3</div><div>Warming Time5 Min</div><div>Front50.0 °C</div><div>Rear45.0 °C</div><div>BackStart</div></div>	Set the Second Warming Time & Front/Rear Tire Temperature
<div><div>2/3 > 3/3</div><div>Delay time3 Min</div><div>BackStart</div></div>	<div>Set Delay Time</div> <div>• Range: 0-60 minutes.</div> <div>• This is the rest period between the first and second heating cycles.</div> <div>• Example: Delay = 0Min → the unit switches immediately to the second heating phase.</div> <div>• Delay = 10Min → the unit pauses for 10 minutes before resuming heating.</div>
<div><div>3/3</div><div>Warming Time5 Min</div><div>Front50.0 °C</div><div>Rear45.0 °C</div><div>BackStart</div></div>	Set the Third Warming Time & Front/Rear Tire Temperature
<div><div>Enable Delay time</div><div>2 Min</div><div>BackStart</div></div>	<div>Enable Delay Time</div> <div>• Range: 0-60 minutes.</div> <div>• This delay starts before the first heating begins.</div> <div>• Example: If set to 0, heating starts immediately after pressing Start.</div>
<div><div>Countdown...</div><div>01: 54</div></div>	TWneo starts heating after the countdown.

- The total Warming Time for all three stages must stay within the Safety Timer.
- Example: Safety Timer 30 min → Stage 1 = 10 min, Stage 2 = 8 min, Stage 3 ≤ 12 min.

Why three stages?

A three-step heating cycle allows racers to simulate real race conditions. Tires warm up gradually, rest to stabilize internal temperature, and then heat again to achieve optimal elasticity and grip, reducing the risk of tire blistering or uneven temperature distribution.

DISCHARGE

- This program is only available when the TWneo is powered by a DC battery input. It allows you to discharge your battery safely after a race or heating session.
- PD mode does not support Discharge.
 - Supported voltage range: 6-18V DC

- Steps:
1. Connect a battery to the DC input.
 2. Enter the Discharge program.
 3. Set the Cut-Off Voltage.
 4. Attach the tire warmers (mats or cups) and start operation.
- The TWneo will stop automatically once the voltage reaches the cut-off point.

APP CONTROL

The Tire Warmer neo supports Bluetooth connectivity, allowing you to control it wirelessly through the mobile app. Download the free RC GEARS app from Google Play or the App Store. After installation, enable Bluetooth and grant the required permissions for a stable connection and smooth operation.



SETTINGS

This menu allows users to configure system parameters.

Item	Option	Description
Language	English/French/Spanish/Deutsch/简体中文/Japanese	Select the menu language that suits you
Temp. Unit	°C/°F	Select the temperature unit you're familiar with.
Safety Timer	10min-120min	Set the protection time. The default is 30 minutes.
Input Voltage		Display PD/DC input voltage
Cut-off Voltage	6.0V-16.8V	When powered by a DC battery, set the cutoff protection voltage
Notify Beep	OFF/1/2/3/4/5/6/7/8	Turn off or adjust the key sound and volume
Min. Spot	20°C-80°C	Set the minimum start temperature for the tire warmers to operate
Calibration		Temperature calibration
Version	1.10	Firmware version of the tire warmer
Regulatory	CE/FCC/RoHS	Certification information display
Factory Setting		Restore factory settings
Back		Return to the previous screen

WARRANTY AND SERVICE

Start Mode/Punch

This ESC is designed to be used only with the battery and motor types listed in these operating instructions. We are unable to ensure that you follow the instructions supplied with the ESC, and we have no control over the methods you employ for using, operating, and maintaining the device. For this reason, we are obliged to deny all liability for loss, damage, or costs that are incurred due to the incompetent or incorrect use and operation of our products, or which are connected with such operation in any way. Unless otherwise prescribed by law, our obligation to pay compensation, regardless of the legal argument employed, is limited to the invoice value of those SkyRC products which were immediately and directly involved in the event in which the damage occurred.

Warranty and Service

We guarantee this product to be free of manufacturing and assembly defects for a period of one year from the time of purchase. The warranty only applies to material or operational defects, which are present at the time of purchase. During that period, we will repair or replace free of service charge for products deemed defective due to those causes. This warranty is not valid for any damage or subsequent damage arising as a result of misuse, modification, or as a result of failure to observe the procedures outlined in this manual.

Note:

- The warranty service is valid in China only.
- If you need warranty service overseas, please contact your dealer in first instance, who is responsible for processing guarantee claims overseas. Due to high shipping costs, and complicated custom clearance procedures to send back to China, please understand that SkyRC can't provide warranty service to overseas end users directly.
- If you have any questions which are not mentioned in the manual, please feel free to send an email to support@skysrc.com

Manufactured by SKYRC TECHNOLOGY CO., LTD.

The manual is subject to change without notice; please refer to our website for the latest version!
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