

## SEQUIRE HT140

# SEQUIRE HT140 2-IN-1 Portable Hot Tweezers Soldering Iron Kit User Manual

Model: HT140

## 1. INTRODUCTION

This manual provides detailed instructions for the safe and effective use of the SEQUIRE HT140 2-IN-1 Portable Hot Tweezers Soldering Iron Kit. The HT140 is designed for precision soldering and desoldering tasks, particularly for Surface Mount Devices (SMD). Please read this manual thoroughly before operating the device.

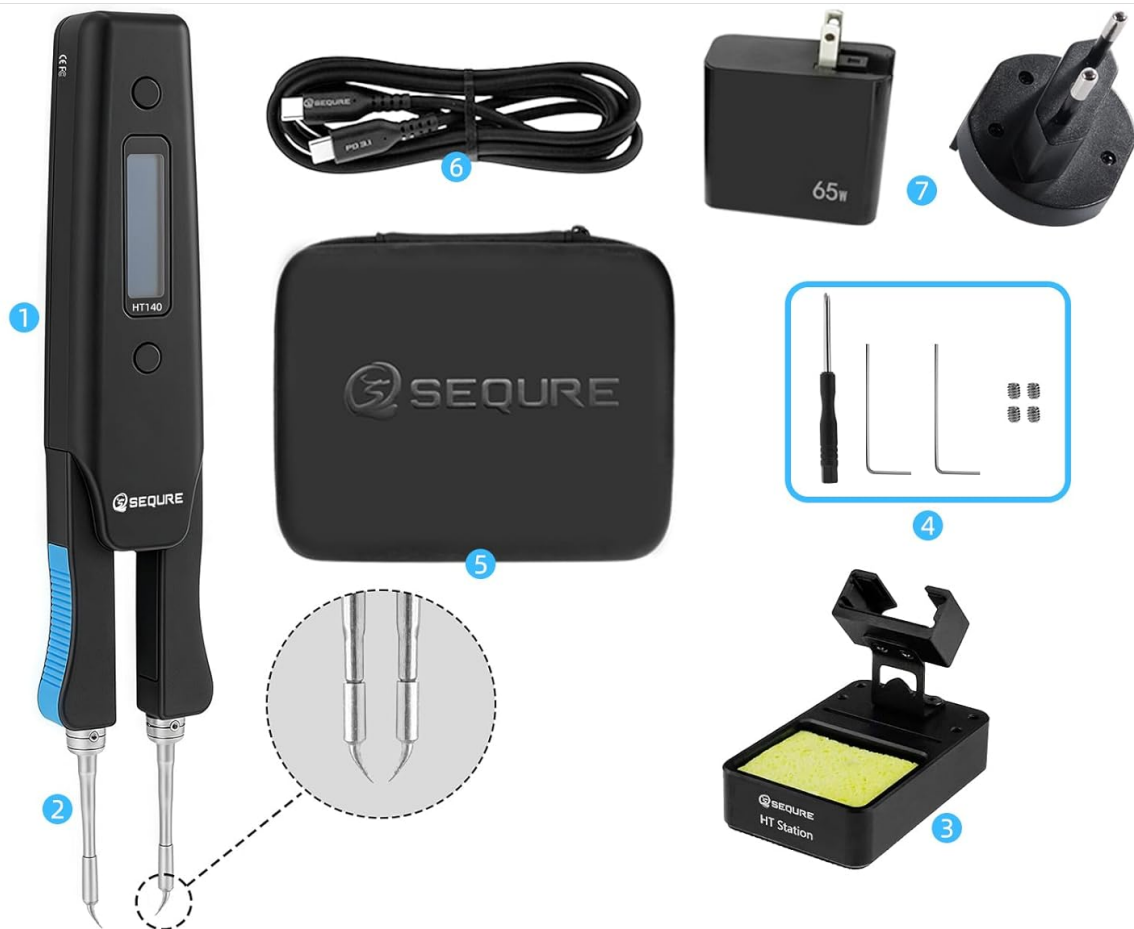
## 2. SAFETY INFORMATION

- Always wear appropriate eye protection when soldering.
- Ensure adequate ventilation in your workspace to avoid inhaling solder fumes.
- The soldering tips reach high temperatures. Avoid direct contact with skin to prevent burns.
- Place the device on the provided stand when not in use to prevent accidental contact or damage.
- Do not use the device near flammable materials or liquids.
- Disconnect power when changing tips or performing maintenance.
- Keep out of reach of children.

## 3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- HT140 Host (Main Unit) x 1
- Hot Tweezers Desoldering Tip (IS type) x 2
- HT Station (Stand with cleaning sponge) x 1
- Accessory Package (Hex keys, spare screws) x 1
- Storage Bag x 1
- 1.5m PD 240W Silicone Wire (USB-C to USB-C) x 1
- PD 65W Fast Charging Adapter (US + EU plug) x 1



1. HT140 Host\*1      2. Hot Tweezers Desoldering Tip (IS) \*2  
 3. HT Station\*1      4. Accessory Package\*1  
 5. Storage Bag\*1      6. 1.5m PD 240W Silicone Wire\*1  
 7. PD 65W Power Head (US + EU) \*1

Image 3.1: Complete SEQUIRE HT140 Kit Contents. Includes the main HT140 unit, two desoldering tips, a stand, accessory package, storage bag, USB-C cable, and a 65W power adapter with US and EU plugs.

## 4. PRODUCT OVERVIEW

The SEQUIRE HT140 is an innovative 2-in-1 tool that functions as both a soldering iron and hot tweezers. It features rapid heating, precise temperature control, and a compact design suitable for various electronic repair and SMD work.

### 4.1 Key Features

- **2-in-1 Functionality:** Operates as a single-sided soldering iron or double-sided hot tweezers.
- **Fast Heating:** Melts solder in approximately 2 seconds.
- **Wide Temperature Range:** Adjustable from 50°C to 500°C (122°F to 932°F).
- **Preset Temperatures:** Three customizable temperature settings for efficiency.
- **Smart Control System:** Features temperature calibration, compensation, auto sleep, and auto standby.
- **OLED Display:** High-definition display for clear temperature and status indication.
- **Dual Power Input:** Supports Type-C (PD3.1/3.0/2.0, QC3.0/2.0) and DC5525 (5V-28V, max 140W).
- **Compact and Portable:** Designed for ease of transport and use in various environments.



## SEQUIRE HT140 Portable Hot Tweezers Soldering Iron



25  
Melting Tin



Single-sided  
Heating



Compact  
Size



TurboSets  
Mode



High  
Accuracy



Auto Sleep  
&  
Standby



Upgradable



Buzzer  
Warning

Image 4.1: Overview of SEQUIRE HT140 key features, including 2-second melting, single-sided heating, compact size, TurboSets mode, high accuracy, auto sleep & standby, upgradable firmware, and buzzer warning.

### 4.2 2-in-1 Functionality

The HT140 can be configured for two primary modes of operation:

- **Soldering Iron Mode:** Utilizes single-sided heating for precise soldering of individual components.
- **Hot Tweezers Mode:** Employs double-sided heating for efficient desoldering and removal of SMD components.

## SINGLE-SIDED HEATING - SOLDERING IRON



## DOUBLE SIDES HEATING - HOT TWEEZERS

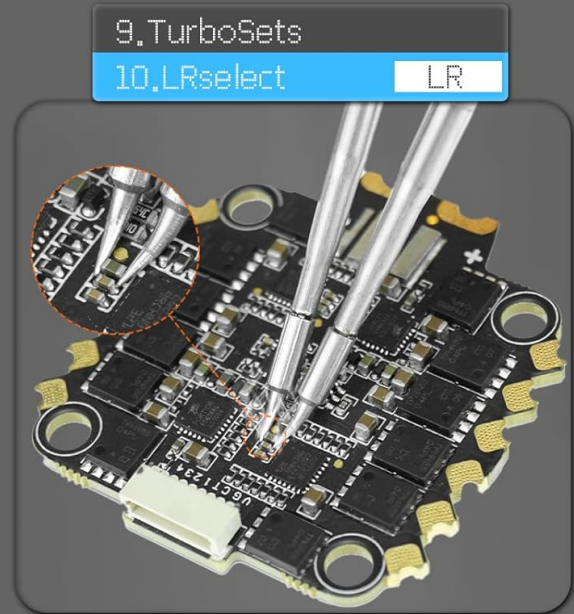


Image 4.2: Illustration of the HT140 operating in single-sided heating mode (soldering iron) and double-sided heating mode (hot tweezers).

## 5. SETUP

### 5.1 Installing Soldering Tips

1. Ensure the HT140 is powered off and cool.
2. Loosen the small set screws on the tip holders using the provided hex key.
3. Carefully insert the desired C120 hot tweezers cartridge tips into the holders. Ensure they are fully seated.
4. Tighten the set screws to secure the tips. Do not overtighten.

### 5.2 Connecting Power

The HT140 supports both Type-C (USB-C) and DC5525 power inputs.

- **Using Type-C:** Connect the provided 1.5m PD 240W Silicone Wire to the Type-C port on the HT140 and to a compatible PD (Power Delivery) charger (e.g., the included 65W adapter).
- **Using DC5525:** Connect a compatible DC power adapter (5V-28V) to the DC5525 port.

**Note: For optimal performance and rapid heating, use a power source capable of delivering at least 65W, ideally up to 140W.**

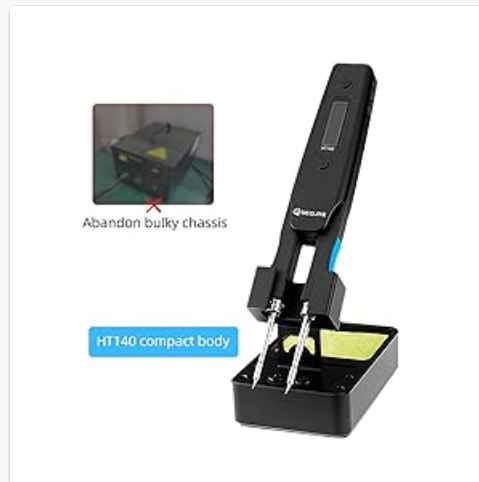


Image 5.1: The HT140 unit placed on its compact stand, which includes a cleaning sponge.

## 6. OPERATION

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### 6.1 Power On/Off

Connect the device to a power source. The OLED display will illuminate. To power off, disconnect the power source.

### 6.2 OLED Display

The OLED display provides real-time information about the device's status:

- Actual Temperature of Tweezer Head
- Preset Value of Working Temperature
- Output Maximum Current
- Power Progress Bar
- Supply Voltage
- Working Status

# 128\*32 Clear Digital Display Screen

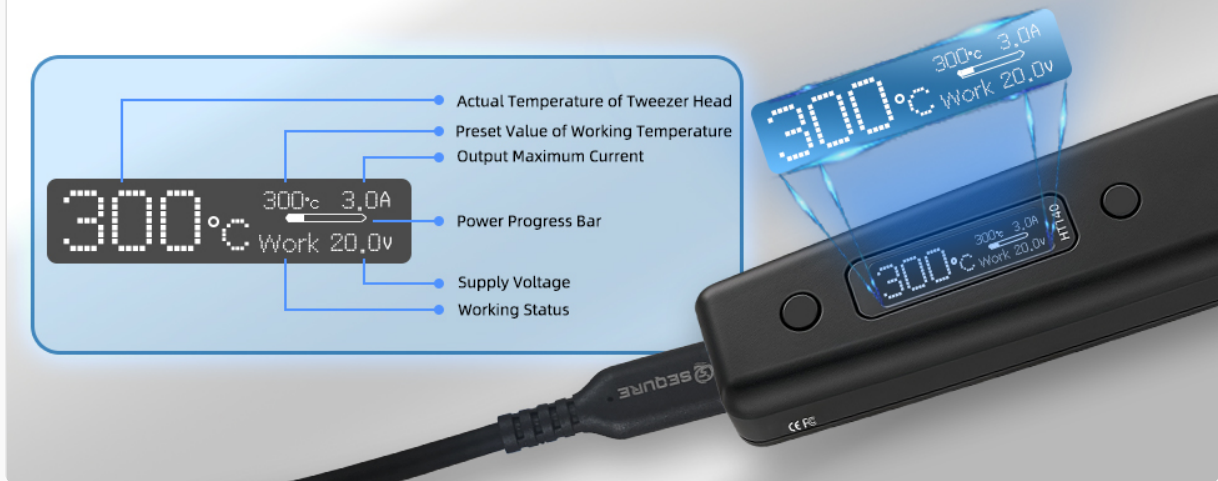


Image 6.1: Detailed view of the 128x32 clear digital display screen, showing various operational parameters.

## 6.3 Temperature Adjustment

The temperature can be adjusted from 50°C to 500°C. Use the control buttons on the device to increase or decrease the target temperature. The display will show the current and target temperatures.

## Adjustable Temperature



50°C

~

500°C

### 3 Preset Temperatures

SetTemp 1:  
**280°C** (Adjustable)

SetTemp 2:  
**320°C** (Adjustable)

SetTemp 3:  
**380°C** (Adjustable)



Image 6.2: The HT140 displaying adjustable temperature settings, ranging from 50°C to 500°C.

## 6.4 Preset Temperatures (TurboSet Mode)

The HT140 supports three groups of default heating temperatures for quick access:

- SetTemp 1: 280°C (Adjustable)
- SetTemp 2: 320°C (Adjustable)
- SetTemp 3: 380°C (Adjustable)

Refer to the device's menu for instructions on how to select and customize these preset temperatures.

## 6.5 Auto Sleep & Standby

To conserve energy and reduce tip wear, the HT140 features adjustable auto sleep and standby modes:

- **Adjustable Sleep Time:** Configurable from 5s to 360s of inactivity.
- **Adjustable Sleep Temperature:** Set between 50°C and 500°C.
- **Auto Standby:** Enters standby mode after a default of 5 minutes following sleep mode (adjustable).

# Auto Sleep & Standby



**Adjustable Sleep Time**

**5s-360s**



**Adjustable Sleep Temperature**

**50°C-500°C**



**Auto Standby**

**Default 5 minutes after sleep mode(adjustable)**

Image 6.3: Visual representation of the auto sleep and auto standby functions, indicating adjustable sleep time and temperature.

## 6.6 Power Input Compatibility

The HT140 is compatible with a wide range of power sources, supporting 5V-28V DC input with a maximum power of 140W. This includes PD chargers, power adapters, and 3S-6S LiPo batteries.

# Strong Compatibility

Support setting the work voltage and current according to the actual power plug 140W maximum power

1.MaxVolt	20V	(5-28V,DC)
2.MaxCurrent	3.0A	(1.5-5.0A,Max)



Image 6.4: Various power adapters and sources compatible with the HT140, demonstrating its strong compatibility with different wattages and voltages.

## 6.7 Firmware Upgrade

The HT140 supports firmware upgrades to enhance functionality and performance. Connect the device to a computer via the USB-C port and follow the instructions provided on the SEURE official website for the upgrade process.



Image 6.5: The HT140 connected to a computer, indicating its capability for firmware upgrades.

## 7. MAINTENANCE

### 7.1 Tip Cleaning

Regularly clean the soldering tips to ensure optimal performance and longevity. Use the included cleaning sponge (dampened, not wet) or brass wool to wipe off excess solder and oxidation.

### 7.2 Tip Tinning

After cleaning and before storage, always tin the tips with a thin layer of fresh solder. This prevents oxidation and prolongs tip life.

### 7.3 Storage

When not in use, store the HT140 in its provided storage bag to protect it from dust and physical damage.

## 8. TROUBLESHOOTING

- **Device not powering on:** Ensure the power cable is securely connected and the power source is functioning correctly and providing sufficient wattage.
- **Tips not heating:** Check if the tips are correctly installed and the set screws are tightened. Verify the power input.
- **Inaccurate temperature reading:** Perform a temperature calibration as described in the device's menu settings.
- **Poor solder wetting:** Clean and re-tin the tips. Ensure the correct temperature is set for the solder type being used.

## 9. SPECIFICATIONS

Feature	Specification
Model	HT140
Power Input	Type-C (PD3.1/3.0/2.0, QC3.0/2.0), DC5525
Voltage Range	5V-28V DC

Feature	Specification
Max Power	140W
Temperature Range	50°C - 500°C (122°F - 932°F)
Heating Time (30°C to 300°C)	As fast as 2 seconds (with 140W input)
Display	HD OLED
Compatible Tips	C120 Hot Tweezers Cartridge Tips
Auto Sleep	Adjustable (5s-360s)
Auto Standby	Adjustable (default 5 minutes after sleep)
Material	Metal, Plastic
Item Length	6.3 Inches
Item Weight	1.76 ounces



# SMART CONTROL SYSTEM

Fast Heating, Temp Calibration & Compensation

## Test Data of Heating

Voltage and Current	Heating Power	Fastest Time From 30°C to 300°C	Fastest Time From 30°C to 500°C
5V 3A	15W	12s	50s
9V 2A	18W	8s	19s
9V 3A	27W	6s	11s
12V 3A	36W	5s	8s
15V 3A	45W	4s	6s
20V 3A	60W	3s	5s
20V 5A	100W	2.5s	4s
28V 5A	140W	2s	3s

Image 9.1: Test data illustrating heating performance based on various voltage and current inputs, showing time to reach 300°C and 500°C.

## **10. WARRANTY AND SUPPORT**

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For warranty information and technical support, please refer to the official SEQURE website or contact your retailer. Keep your purchase receipt as proof of purchase.