Specifications

Model	USC-881SR
Number of workpiece types	16 types
Number of programs	Single feeder specification : 127 programs
	Dual feeder specification : 63 programs
Number of program steps	30 steps per program
Number of program commands	15 types
Solder feed motor	2-phase or 5-phase stepping motor (one specified)
Multiple-feed control	Select single or dual feeder
Solder feed amount	0.1-999.9 mm
Solder feed speed	0.1-99.9 mm/s
Applicable feeder	UPM-011A ・ UPM-022 ・ UPM-052 ・ UPM-055
Number of heater control points	3 circuits (total 280W)
Heater temperature setting range	Main heater (for Cross Heater, Cross Heater LS/L): 200-450°C
	Sub heater (HN-S30): 80-120°C
	Sub heater (HN-W100): 200-450°C ※1
Heater standby temperature setting range	Main heater (for Cross Heater, Cross Heater LS/L): 150-250℃
	Sub heater (HN-S30): 50-100℃
	Sub heater (HN-W100): 150-250℃ ※1
Heater alarm setting range	±5-99℃
Heater alarm	Heater wire breaking / sensor wire breaking
Heater addition heating	Additional temperature / additional time is set for each program
Profiling function	The soldering tip temperature is displayed on the monitor

Corresponding heaters	Main heater : 250W Cross Heater LS / L , 200W Cross Heater
	Sub heater: 30W HN-S30 Solder Pre-heat, 100W HN-W100 N2 Pre-heat
Operating panel	5.7 inch color touch panel
	History management: Alarm history, mode changeover history
External input/output	Dedicated input / output : 22 points input / 10 points output
	General-purpose input / output : 4 points input / 6 points output
	Serial communication : USB (exclusively for PC editing software)
Operating environment	Ambient temperature: 10-40°C
	Relative humidity: 45-85%
Languages	Japanese, English, Chinese (Simplified)
Power supply (specified at time of purchase)	Single Phase 100V AC 50/60 Hz
	Single Phase 220V AC 50/60 Hz
Power consumption	50VA + heater capacity ※2
External dimensions (mm)	Main unit : Approx. 200 (W) × 280.5 (D) × 124 (H) (Excluding protrusions)
	Operating panel : Approx. 224 (W) × 52.5 (D) × 150 (H) (Excluding protrusions)
Weight	100V AC : 3.6kg (Main unit)
	220V AC : 6.1kg (Main unit)
	1 kg (Operating panel)

※1 Sub heater (HN-W100) can not be used with 220VAC type controller.
※2 When choosing a 220VAC type controller, the maximum heater capacity is limited as 280W.

JAPAN UNIX

SOLDER KING V
High Performance Soldering Controller

Japan Unix automated soldering units may be used in a wide array of combinations.
SOLDER KING V USC-881SR

Features

Freely create your own soldering parameters

- Can save up to 2,032 soldering conditions.
- Arrange 15 commands in any combination you like to create your soldering conditions.
- Set soldering conditions and iron tip temperature by model or work.
- The dedicated iron tip temperature measurement terminal is equipped with a thermocouple sensor, making it possible to import iron tip temperature data into the device.
- Using the specialized support software, it is possible to edit programs, save backup data, and create temperature data on your PC.

The soldering conditions program can be set easily using the touch panel.

- 5.7 inch color touch panel.
- Displays a soldering iron temperature graph.
- Check launch conditions, I/O input signals, etc. by category.
- Check alarm history and mode change history.
- Control panel language may be changed. (Available languages: Japanese, English, Chinese)

More possible combinations, more choice

- By installing an extendable driver unit, it is possible to operate two solder feeding devices with separate conditions.
- In addition to soldering, also compatible with laser and ultrasonic equipment.
- Can be used with four types of solder feeding systems.
- Compatible with Japan Unix's entire range of soldering heads.
- As the control panel is separate from the main device, deciding the installation layout is easy.

※The number of soldering heads controlled cannot be increased.

Standard configuration USC-881SR

Main unit

Operating panel

Compatible with a wide range of optional extras

Solder Feeder

UPM-011A
・2 phase type
・Solder diameter range:φ0.5-φ1.2

UPM-022※
・2 phase type
・Solder diameter range:φ1.6・φ2.0
※Made-to-order products

UPM-052D
・5 phase type
・Solder diameter range:φ0.2-φ0.6・φ0.8

UPM-055
・5 phase type
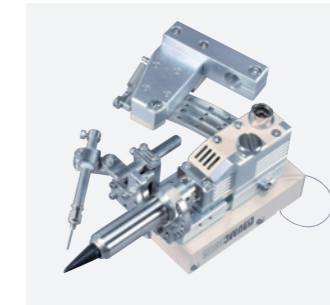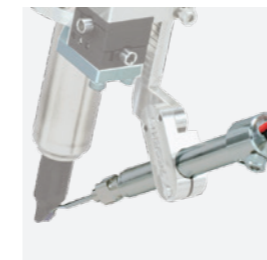・Solder diameter range:φ0.5-φ1.2

Soldering Heads
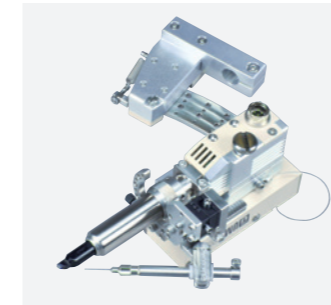
UMC-087A
・Cross Heater compatible
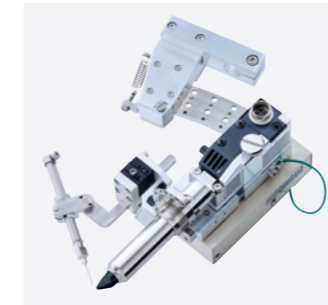
UMC-090-BHS
・Cross Heater LS compatible

UMC-090-BHL
・Cross Heater L compatible

Solder Wire Preheater
Preheats wire solder, reducing the incidence of solder balls and flux scattering caused by sudden heat shock during soldering.

Iron Tip Cleaner with Vacuum Function
UJC-214CWⅡ
・Air blow type
・Vacuum individual control

Double Brush Cleaner
UJC-217W
Removes carbides from the soldering tip

Needle Swing Mechanism
UMC-087-NS
Allows the soldering supply part (needle) to swing freely, preventing contact with the tip of the head (exclusive to soldering head UMC-087A)

Extendable Driver Unit
UED-001
Dual solder feeding driver