

Specifications

| | |
|--|---|
| Model | USC-06 |
| Number of programs | 511 programs |
| Number of program steps | 30 steps per program |
| Number of Heater Control Points | 2 circuits |
| Supported heater type | AH, BHL, BHS, UH, HN-S30 |
| Heater temperature setting range | 200 to 450°C: AH, BHL, BHS, UH 80 to 120°C: HN-S30 |
| Heater standby temperature setting range | 150 to 250°C: AH, BHL, BHS, UH 50 to 100°C: HN-S30 |
| Heater alarm setting range | ±5 to 99°C |
| Heater warning | Heater disconnection, sensor disconnection |
| Number of feeder control points | 2 circuits |
| Feeder model | UPM-052E, UPM-057, UPM-057A |
| Feeder motor | 5-phase stepping motor |
| Feed amount setting range | 0.1 to 999.9mm |
| Feeding speed setting range | 0.1 to 99.9mm/s |
| Feeder warning | Solder jams, solder shortages |
| PC software model | Soldering Manager Lite for USC-06 |
| Languages | Japanese, English, Chinese |

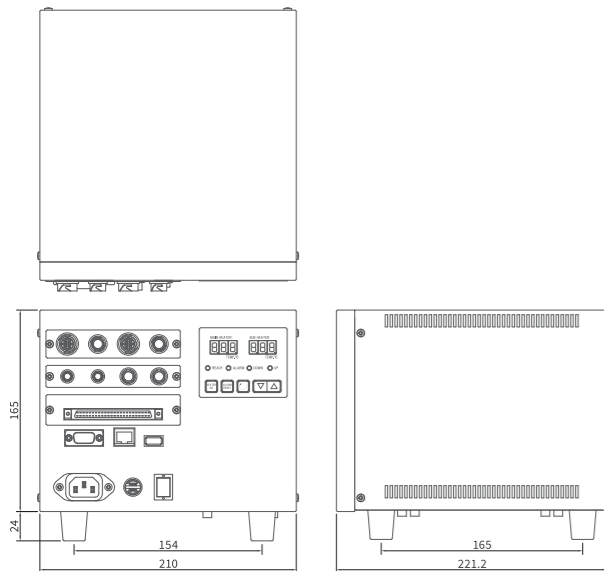
| | |
|-----------------------------------|--|
| Display unit | |
| Air cleaner | |
| Optional Units | Brush cleaner Needle swing Soldering iron tester |
| External input device connection | 23 points |
| External output device connection | 14 points |
| Interfaces | USB connection: USB memory LAN connection: PC/PLC RS-232C connection: soldering iron tester |
| Power Source/weight | AC100-120V±10%, 4.0A, 7kg (AH/BH heater 1 head specification) AC230V±10%, 1.9A, 7kg (AH/BH heater 1 head specification) AC100-120V±10%, 6.5A, 8.5kg (AH/BH heater 2 head specification) 230V AC±10%, 3.2A, 8.5kg (AH/BH heater 2 head specification) AC100-240V±10%, 0.6A, 3.5kg (Laser specification) |
| Operating environment | 0 to 40°C, 45 to 85%RH (no condensation), 1000m or less |
| OS | Windows® 10/11 |
| Capacity | Memory: 8GB or more, Hard disk: 100MB or more |



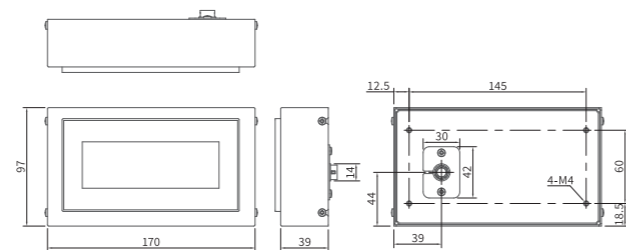
USC-06 Automatic Soldering Controller

External Dimensions

Controller



Display unit (option)



| | |
|-------------|----------------------------|
| Model | USC-06-TPU |
| Touch panel | 4.5" monochrome |
| Weight | 0.7Kg |
| Languages | Japanese, English, Chinese |

*A connection cable is included when purchased as a set with a controller.

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• This catalog reflect the products as of January 2025. The product appearance and specifications can change without notice.
• Read the operating instructions attached to the product carefully before you use it.

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Ethernet connection enables data communication with external devices, offering higher expandability.

Automatic Soldering Controller USC-06



Features

Visualization of soldering.

A next-generation soldering unit that can be connected to any robot or equipment, enabling visibility of soldering through data communication. Access to all data allows for quality control of soldering, process optimization, and other traceability applications.

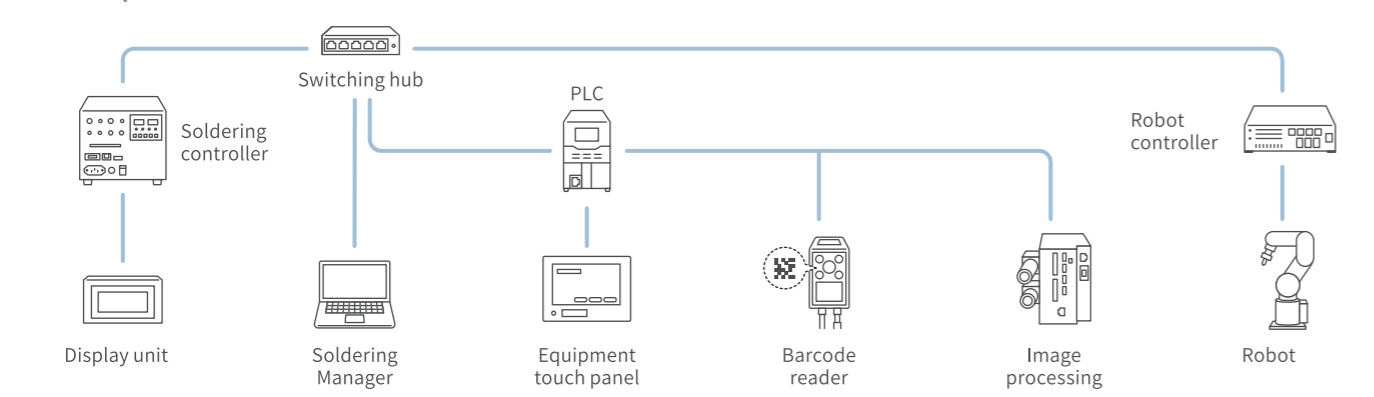
- Detects solder jams and shortages with high precision using the encoder.
- Heaters (AH/BH/UH) and soldering tip shapes based on the application are selectable.
- Up to two pairs of the soldering head and solder feeder can be connected and controlled independently, which enables simultaneous soldering at up to two points.
- Connecting a USB memory enables reading condition data and retrieving log data.



Soldering Manager is included as a standard feature.

- Visualizing the operational status with graphs and numbers in real time.
- Soldering conditions can be edited and saved for data management.
- Enhanced traceability measures.
- The language on the operation panel can be selected from three options. (Japanese, English, Chinese)

Example of connection method



A wide range of optional units that can be combined

Touch panel display unit



USC-06-TPU

*Touch panel stand is a separate option.

Laser soldering unit



ULD-02

Feeder



UPM-052E

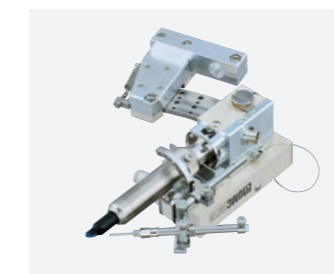
- Supported solder diameters: $\phi 0.2 - \phi 0.8$
- Dedicated for laser soldering



UPM-057 / UPM-057A

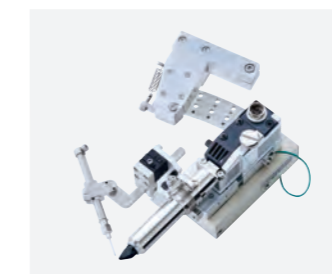
- Supported solder diameters: $\phi 0.3 - \phi 2.0$
- CCF-supported solder diameters: $\phi 0.5 - \phi 1.6$

Soldering Head



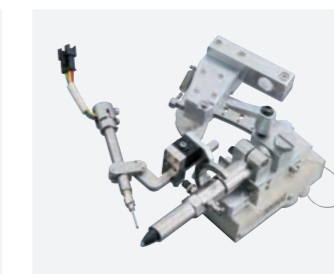
UMC-087B/086B

Compatible with AH heater type



UMC-090B

Compatible with BHS/BHL heater type



UMC-087B-UH

UH Heater



Wire Solder Preheating Mechanism
HN-S30

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



Tip cleaner
UJC-214CW II
UJC-219CW II

Removes solder waste adhered to the soldering iron tip using air blow.



Brush cleaner
UJC-217A
UJC-218A

Removes carbides from the soldering tip.



Needle swing mechanism
UMC-087-NS

Swing the wire solder supply unit (needle) to avoid interference with the brush cleaner.



Soldering Iron Tester
UNI-03

Measures (Measuring) the temperature of the soldering iron, the leakage voltage and the tip-to-ground resistance.

*A mounting bracket for the controller is also available as an optional accessory.