

## IR-1759 MiniRay Infrared Heating Tool

### Product Facts

- Small, lightweight, fan-cooled unit
- Small profile for installation where space is restricted
- Handheld operation
- Focused heat
- Quiet, efficient IR operation
- CE approved
- RoHS compliant

### Applications

Used for installing SolderSleeve devices and SolderTacts contacts.



\* Control box not shown

The MiniRay tool is a hand held Infrared heating tool designed for installing shield terminators, splices and approved IR repair and tubing products.\*

The tool is portable, lightweight and is convenient for use where work space is restricted. The hand tool is fan cooled and has low heat emission as the lamp is only energized on demand. A duty cycle up to 50% is permissible with a maximum heating time of 30 seconds.

Two versions of the hand tool are available:

- IR-1759-MK4/A Standard aperture recommended for products up to 6 mm diameter.
- IR-3104-MK4/A Large aperture for products up to 9 mm diameter.

Both versions of the tool will accept larger diameter components but uniform heating is then not assured.

The battery box controller is designed for remote areas, where more portability is required. This battery-powered controller can install approximately 50, 30 second installations before recharging is required. The ED-7-001-MK4-230V-50HZ and ED-7-002-MK4-110V-60HZ Control units provide controls for both power and time and are suitable where the use of pre-set installation conditions is required. Up to 20 memory locations are available for the storage of time/power values. A trigger switch is used to initiate each cycle. The controller can also be used in a manual mode with the operator controlling the duration of the heating cycle via the trigger switch.

The ED-7-CONT-230/110V-MK4 controller is a more simpler unit, with no variable time, or variable power memory functions, and maintains power to the lamp for as long as the trigger switch remains depressed. The tool can be used with either 230V or 110V (nominal) voltage supply.

The product being installed is visible during the heating cycle. An optical filter eliminates the unwanted UV emissions and excess visible light reducing the glare for the operator.

A product kit is available, see page 10-19 for ordering information.

\*Contact your local TE representative for details.

<sup>1</sup> Approved by the U.S. Navy for use on fueled aircraft.

Available in:	Americas <sup>1</sup>	Europe	Asia Pacific
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**IR-1759 MiniRay Infrared Heating Tool** (Continued)

**Technical Specifications**

**IR-1759 / IR-3104 HAND TOOLS**

<b>Supply Voltage</b>	21.5 VAC nominal
<b>Weight</b>	1.1 kg
<b>Typical Operating Temperature</b>	500°C
<b>Typical Heating Time</b>	15 seconds
<b>Lamp Type, Power &amp; Life - Typical values</b>	250 W Tungsten Halogen average life 10,000 cycles @ 50% duty cycle
<b>Noise</b>	51 dB (A)
<b>Power Cord Length</b>	3.1 m

**ED-7-CONT-230/110V-MK4 / ED-7-001-MK4-230V-50HZ /  
ED-7-002-MK4-110V-60HZ and ED-7-BATTBOX-MK4-230/110V**

**Supply Voltage:**

ED-7-001 & 002	230 VAC 50 Hz & 110 V 50/60 Hz
ED-7-CONT-230/110V-MK4	230 VAC 50 Hz or 110 V 50/60 Hz
ED-7-BATTBOX-MK4-230/110V	2 x 12V batteries

**Input Current:**

ED-7-001 & 002	4 A & 10 A
ED-7-CON-230/110V-MK4	6.3 A
Dimensions WxHxL	160 x 120 x 250 mm

**Weight:**

ED-7-001 & 002	6.2 kg
ED-7-CONT-230/110V-MK4	8.0 kg
ED-7-BATTBOX-MK4-230/110V	8.5 kg

**Timer Adjustment (ED-7-001/002 only)**

1-250 seconds

**Output Voltage:**

ED-7-001 & 002	16-24 VAC (dependent on program)
ED-7-CONT-230/110V-MK4	21.5 VAC
ED-7-BATTBOX-MK4-230/110V	24V DC nominal

**Voltage Output Control Accuracy  
(with ± 10% input variation):**

ED-7-001 & 002	± 3%
ED-7-CONT-230/110V-MK4	± 0.5V (120V/230V supply)
ED-7-BATTBOX-MK4-230/110V	N/A (dependent upon charge)

**Lamp "Hold-On" Voltage:**

ED-7-001 & 002	3.5 VAC
ED-7-CONT-230/110V-MK4	N/A
ED-7-BATTBOX-MK4-230/110V	N/A

**Memory Locations (ED-7-001&002 only)**

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**Product Range**

**Shield Terminators  
For Other TE Products**

D-10X, SO63, SO96  
Discuss with Product Management

**Ordering Information**

**Description**

**Kit Part Number**

IR heater, reflector to fit standard aperture, Standard V-block plus a Non-Timed Control Box 230V or 110V supply

**IR1759-MK4-AT3130-EDCONT**

**IR-1759 MiniRay Infrared Heating Tool** (Continued)

**Parts, Accessories and Spare**

**Parts List**

Description	Part Number	Guideline	Comments
IR1759-Mk4/A /IR1759-Mk3/A	CF0025-000	Infra Red Heater Standard Aperture	RoHS compliant. Replaces 986899-000
IR1759-Mk4-At3130-EDCont	CF0024-000	Infra Red Heater, Reflector to fit standard aperture,	RoHS compliant. Replaces 898738-000/IR1759-Mk3-At3130-standard vee block, none timed control EDCont
IR3104-Mk4/A	CF5497-000	Infra Red Heater Large Aperture	RoHS compliant. Replaces 035343-000-000 / IR3104-Mk3/A
<b>ACCESSORIES</b>			
AT-3191	588701-000	Reflector to fit Standard Aperture, Special Vee Block	
AT-3134	988303-000	Reflector to fit Large Aperture, Standard Vee Block	
AE-897	966953-000	Conversion kit from Standard to Large Aperture	
AD-7-100	176247-000	External Viewing Window	
AT-3147	988328-000	Reflector to fit Large Aperture with Clamps	
AT-3132-Mk31/1	879865-000	Reflector to fit Standard Aperture with Clamps and with 5 mm wide mask	Aerospatiale "special" reflector.
AT-3131	988300-000	Reflector to fit Standard Aperture	Reflector for IR1759 for SolderTact products with a vee block at one end
AT-3132	988301-000	Reflector to fit Standard Aperture with Clamps	Reflector for IR1759 for SolderSleeve products using clamps to hold wire in place
AT-3130	988299-000	Reflector to fit Standard Aperture, Standard	Reflector for IR1759 for SolderSleeve products using Vee Block gravity to hold wire in place
<b>SPARE PARTS</b>			
AE-226	988314-000	Outer Reflector Mirror for AT-3134/AT-3147	
AE-424	547918-000	Inner Reflector for Standard Aperture	
AE-1367	338605-000	Hook	
NAE-143-3	988208-000	Bulb 250W/24V	
AE-153	988285-000	Inner Reflector for Large Aperture	
AD-1360	106503-000	Standard Thermal Shield	
AE-205	988596-000	Outer Reflector Mirror for AT-3130/AT3131/AT-3132	
NAE-109-2	988382-000	Lamp Holder	
AES-IR1759-100-Filter-Dul	431468-000	Filter for Standard Aperture	
IR1759/3104-Cable-Asy	585643-000	Trigger PCB, Cable Assembly, Includes Lamp Holder and Fan	
AE-770	747525-000	Optic Bloc for IR1759	
AE-900	277774-000	Filter Spring IR1759	
NAE-152-1	988204-000	Fan	
AT-3130-AE204-AE203-10SET	481321-000	Replacement for Vs for AT3130 V Block	AE-203 & AE-204 are two halves of AT-3130 V Block, supplied in quantities of 10 sets
AES-IR1759-300-FLTR-LRG	F52511-000	Filter for Large Aperture Heatgun	

**IR-1759 MiniRay Infrared Heating Tool** (Continued)

**Parts, Accessories and Spare**

**Parts List** (continued)

Description	Part Number	Guideline	Comments
ED-7-CONT-230/110V-Mk4	CF0026-000	None Timed Control Box - 230V or 110V Supply	Replaces ED-7-Cont-230/110V 684886-000
ED-7-BATTBOX-MK4-230/110V	CF0200-000	Battery Powered Controlled for IR-1759 (230V or 110V Supply) - RoHS compliant version	Replaces ED-7-BatteryBox-230/110V/448969-000. Batteries not included. When purchasing the controller, order ED-7-Batt-Battery 755928-000 also.
ED-7-001-MK4-230V-50HZA	CF0199-000	Control Box 230V, with Timer	Replaces Ed-7-001-Mk2-230V-50Hz/869233-000
ED-7-002-MK4-110V-60HZA	CF0201-000	Control Box 110V, with Timer	Replaces Ed-7-002-Mk2-110V-60Hz/903553-000
<b>ACCESSORIES</b>			
ED-7-Cont-Front-Panel	619690-000	Front Panel and Display PCB including Triac and Inductor	
ED-7-Cont-Transformer	139128-000	Transformer	
ED-7-Batt-Battery	755928-000	Battery Pack	
ED-7-Batt-Front-Panel	132692-000	Front Panel and Display PCB with Logic PCB and Power PCB	
ED-7-001/2-Transformer	584781-000	ED-7-001 & ED-7-002 Transformer	
ED-7-001/2-Front-Panel	524325-000	ED-7-001 & ED-7-002 Front Panel	