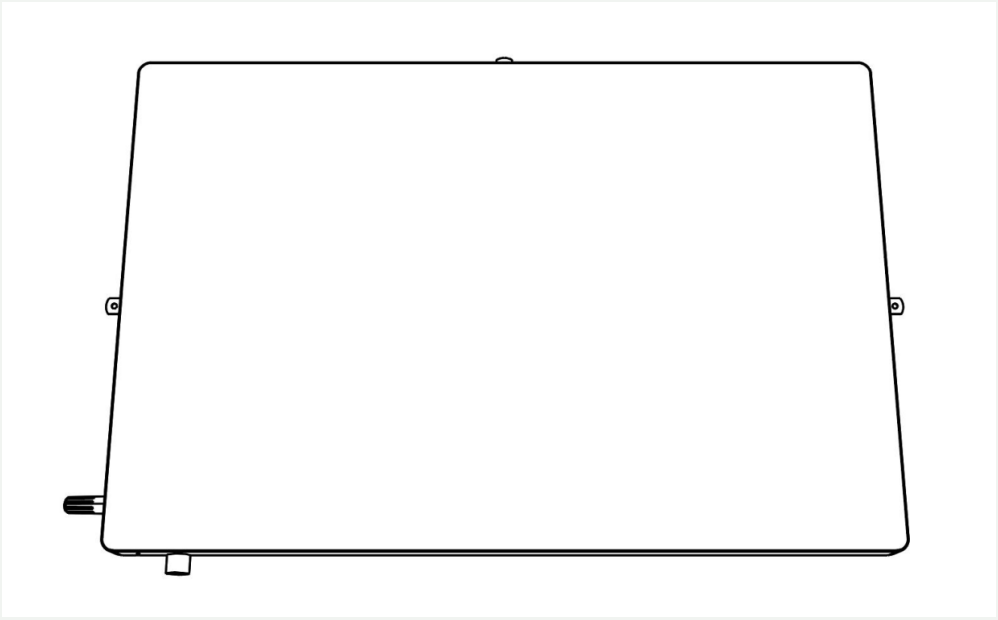
RADI8
INDUSTRIES

210W Under-Desk Infrared Heater

Installation and Operating Manual



UT603403GC210

Localised personal heating

For under-desk mounting

Infrared Heating Supplies

infraredheatingsupplies.com

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Model covered

RADI8 product code	Rated heating power
UT603403GC210	210W

This manual covers the RADI8 210W under-desk infrared heater. It provides supplementary, localised warmth around a seated workspace. It is not intended as a whole-room heating system.

Mount the heater beneath a suitable wooden desk using the supplied brackets, with the heating surface facing down.

Read this manual before installation or use. Keep it with the heater for future reference and pass it to any subsequent owner.

SYMBOLS



Warning

Identifies a hazard which, if not avoided, could cause serious injury or death.



Risk of electric shock

Electrical voltage can cause serious injury or death.



Do not cover

Do not cover the heater. Covering can cause overheating and fire.



Hot surface

Parts of the heater become hot during use and can cause burns.



Do not spray

Do not spray water directly onto the heater.



Read the instructions

Read and follow these instructions before installation, operation or maintenance.

1 WARNINGS AND PRECAUTIONS

Read this manual carefully before starting or using the heater. Always keep it in the immediate vicinity of the heater or its site of use.

Read all safety warnings and instructions. Failure to follow them may result in electric shock, fire and / or serious injury. Save all warnings and instructions for future reference.

Warning
Children aged eight and over, and people with reduced physical, sensory or mental capabilities, or a lack of experience and knowledge, may use this heater provided they are supervised or have been instructed in its safe use and understand the hazards involved.

Children must not play with the heater. Children must not carry out cleaning or user maintenance without supervision.

Warning
Keep children under three away from the heater unless they are continuously supervised.

Children aged three to seven may only switch the heater on or off if it has been correctly installed and placed in its normal operating position, and they are supervised or have been instructed in its safe use and understand the hazards involved.

Children aged three to seven must not plug in the heater, adjust its settings, clean it or carry out user maintenance.

Hot surfaces and safe positioning

Warning
Parts of this heater become very hot and can cause burns. Take particular care when children or vulnerable people are present. The maximum surface temperature in the under-desk position is 110°C.

Extra care is needed around infants, children, older people, people with sensitive skin and anyone whose ability to recognise or react to heat is reduced by illness, alcohol or sleeping medication.

Warning
Do not use the heater in a small room occupied by anyone who cannot leave independently, unless they are continuously supervised.

Clearances
Keep at least **200 mm clear below the heating face** and **100 mm clear at each side**. Keep clothing and other combustible materials outside these clearances. Never cover the heater.

Installation restrictions
Use this heater only as shown in the under-desk mounting instructions. Do not ceiling mount it. Incorrect mounting can cause burns, fire or the heater to fall. Never drill into the heater.

Avoid touching the heating surface during use. Switch off, unplug and allow it to cool completely before moving, cleaning or maintenance.

SAFETY INSTRUCTIONS

• Remove protective films from the front and rear before switching on for the first time, where fitted.

• Connect the heater to a properly earthed 220-240V, 50Hz electricity supply. Follow the wiring markings and electrical connection instructions provided for your model.

• Ensure the electricity supply, wiring and protective devices are suitable for the heater’s rated power. Refer to the technical specifications and electrical installation instructions for your model.

• Do not use this heater in areas containing flammable or corrosive gases or vapours, or combustible dust.

• Secure the heater beneath a suitable wooden desk in accordance with the installation instructions. Use the supplied brackets and fixings.

• After cleaning, allow the heater to dry completely before switching it on. Never operate the heater while it is wet.

• Do not touch the heater, plug or electrical connections with wet or damp hands.

• Do not spray water directly onto the heater.

• Never insert fingers or other body parts, or any objects, into openings in the heater.

• Never cover the heater. Switch it off and allow it to cool completely before moving it.

• Do not sit, stand or place any weight on the heater.

• Do not allow children or animals to play with the heater or its controls. Follow the supervision requirements set out in the warnings above.

• Before use, check the heater, accessories and connections for signs of damage. Do not use the heater if any part is damaged or defective.

• Protect the power cable and any external wiring from damage, including damage caused by animals. Do not use the heater if the cable, plug or electrical connection is damaged.

• Do not leave the heater unattended during operation.

• Keep the temperature sensor uncovered and protect it from damage during installation and use. Damage can affect its readings.

• Keep the required distances from curtains, walls and other objects. Observe the positioning, operating and storage instructions in this manual.

Electrical Safety

• Connect the supplied UK three-pin plug to a suitable, properly earthed UK mains socket on a supply matching the heater’s 220–240V, 50Hz rating. Insert the plug fully. The electrical connection must comply with applicable electrical and wiring regulations. Do not overload the socket or wiring.

• To prevent inadvertent resetting of the thermal cut-out, do not supply this heater through an external switching device such as a timer, or a circuit that is regularly switched on and off automatically.

• If an extension lead is used, it must be suitable for the heater’s rated power, required length and intended use. Fully unwind it, protect it from damage and do not overload it.

• Before care, maintenance or repair, switch off and unplug. Grip the plug when unplugging; never pull the cable. Disconnect when the heater is not in use.

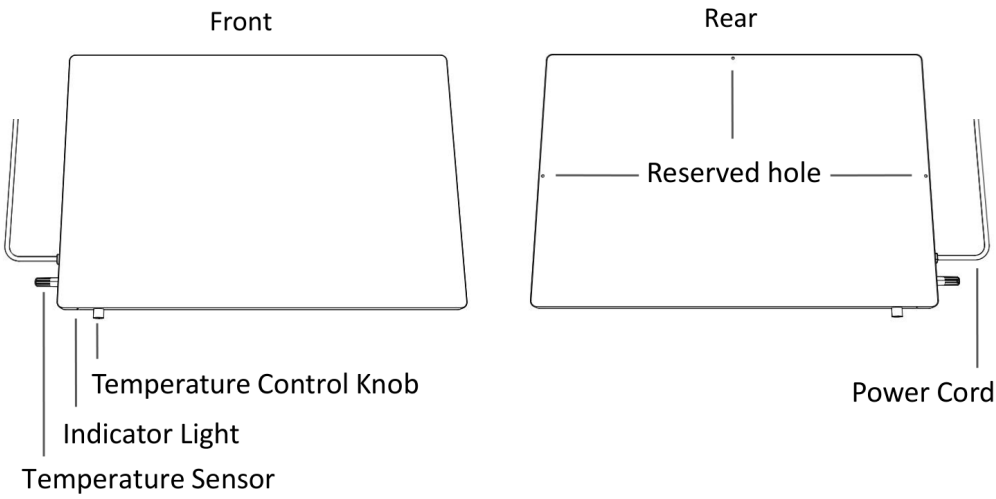
• Do not use if the plug or power cable is damaged. A damaged cable must be replaced by the manufacturer, its service agent or a similarly qualified person. Electrical inspection and repairs must only be carried out by suitably qualified persons.

• Use in dry indoor locations only. Keep the heater away from baths, showers, swimming pools and other sources of water.

2 TECHNICAL INFORMATION

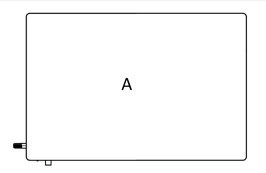
Specification	Details
RADI8 product code	UT603403GC210
Rated heating power	210W
Heating element / method	Graphene carbon / far infrared
Supply voltage / frequency	220–240V / 50Hz
Overall dimensions	615 × 416 × 17 mm (including sensor and knob)
Net weight	1.9 kg
Front surface / rear	Infrared ceramic coating / clad steel
Frame	Aluminium
Maximum surface temperature	110°C (under-desk installation)
Ingress protection	IP20
Overheat protection	Manual-reset thermal cut-out
Electrical connection	UK 13A three-pin plug
Power cable length	1.9 m
Control	Rotary OFF / 30% / 60% / 100% operating time
RADI8 warranty	3 years

Device structure



3 SUPPLIED PARTS

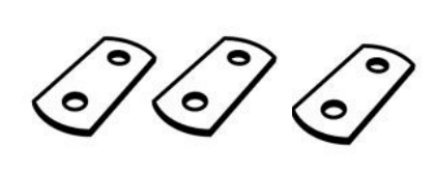
Check that all the parts shown below are present before installing the heater. Keep packaging and small parts away from children.



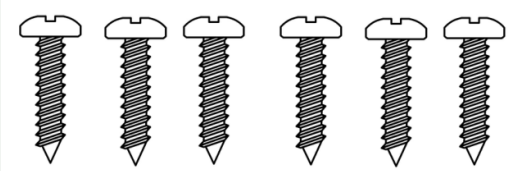
A Heater
1



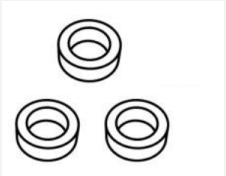
B Instruction manual
1



C Straight mounting brackets
3



D M4 × 12 mm mounting screws
6



E Washers
3

Use one screw and one washer per bracket to attach the brackets to the heater. Use the remaining three screws to secure the brackets to the wooden desktop.

4 POSITIONING AND CLEARANCES

Choose a position that allows localised radiant warmth to reach the occupied area while meeting all safety clearances. Do not position the hot surface where it may be touched accidentally.

Under-desk positioning

Mount beneath a suitable wooden desktop at least **15 mm thick**, with the heating surface facing down. The desk and fixing points must securely support the heater.

> **Minimum clearances**
> Leave at least **200 mm clear below the heating face** and **100 mm clear at each side**. Keep legs, clothing, cables and surrounding objects outside these clearances. Do not cover the heater.

Position the heater where the chair and any moving desk parts cannot strike the heater, sensor or cable.

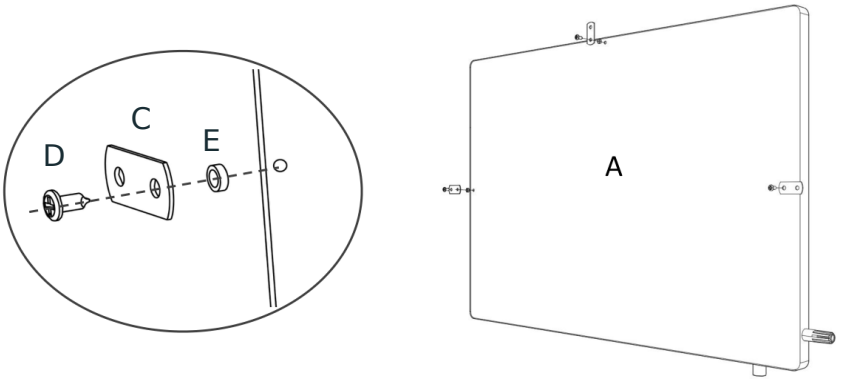
Keep the sensor exposed so it can operate correctly. Route the cable securely, clear of heated surfaces and moving components, without stretching it or creating a trip hazard.

> **Before installation**
> Switch off, unplug and allow the heater to cool completely before installing, repositioning or changing its accessories. Do not drill new holes in the heater.

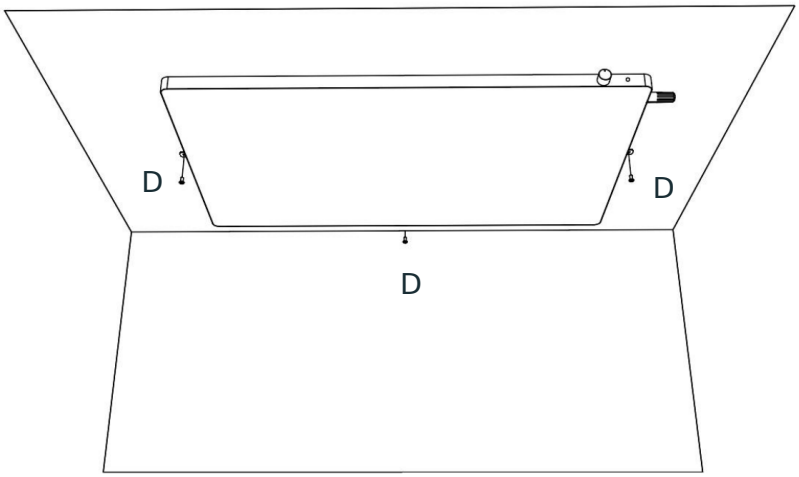
5 UNDER-DESK MOUNTING

For suitable wooden desktops at least 15 mm thick. Use the supplied straight brackets **C**, screws **D** and washers **E**. Switch off, unplug and allow the heater to cool before starting.

1. Fix the three brackets **C** to the prepared holes on the rear of heater **A**. Use one screw **D** and one washer **E** per bracket, as shown. Do not drill into the heater.



2. Position the heater beneath the desk with its **heating surface facing down**. Fasten one supplied **D** screw through each of the remaining bracket holes into the wooden desktop. Check the screws cannot protrude through the desktop.

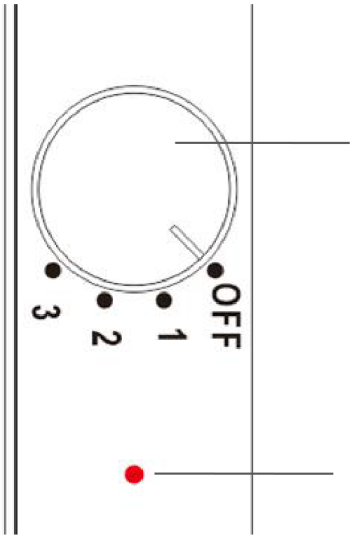


3. Check all brackets and fixings are secure. Protect the sensor from damage, leave it uncovered and route the cable clear of hot surfaces and moving desk parts.

Observe the positioning and clearance requirements on page 10. Disconnect the heater when it will not be used for a prolonged period.

6 CONTROLS AND OPERATION

After checking the installation, cable and required clearances, connect the heater to a suitable mains socket. Use the rotary knob to select OFF or one of the three heating levels.



OFF: heating off
Level 1: 30% operating time
Level 2: 60% operating time
Level 3: 100% operating time

Indicator light
Red at levels 1–3

Knob position	Heating operation	Indicator
OFF	Heating off	Off
1 / 30%	Heats for approximately 30% of the operating time	Red
2 / 60%	Heats for approximately 60% of the operating time	Red
3 / 100%	Heats continuously during normal operation	Red

The percentage sets how long the element is energised. The element operates at its rated power while energised.

The red indicator stays on at levels 1–3, including during normal heating pauses. It goes out when the knob is set to OFF.

Keep the temperature sensor uncovered and protect it from damage. Do not touch the heating surface to judge its temperature.

Switching off
Turn the knob to OFF and unplug when not in use. Switch off, unplug and allow the heater to cool completely before moving or cleaning. Do not use an external timer or automatically switched supply.

7 TROUBLESHOOTING

Switch off, unplug and allow the heater to cool before checking it. Do not open the casing or attempt internal electrical repairs.

Issue	Checks and action
Heater will not heat	Check that power is available and a heating level is selected. At 30% and 60%, heating pauses are normal. Inspect for visible cable or plug damage without dismantling anything. If it remains unresponsive, stop using it and arrange inspection by a suitably qualified person.
Heater stops unexpectedly or appears to overheat	Switch off and unplug. Wait at least 3 minutes before reconnecting. Check for and correct any covering, obstruction or clearance issue before restarting. If the cut-out trips again or the cause is unclear, stop using the heater and arrange qualified inspection.
Minor noises during initial heating	Occasional expansion noises can occur as components warm up. Unusual, loud or persistent noises, particularly with smell or damage, require the heater to be switched off and inspected.
Slight surface movement during heating	Small thermal expansion can occur. If distortion is significant, persistent, worsening or accompanied by damage, stop using the heater and arrange inspection.
Warmth is insufficient	Check the selected setting and positioning without reducing safety clearances. Consider the surrounding temperature and localised nature of the heater. Suspected supply-voltage faults must be investigated by a qualified electrician.
Plug or cable is damaged	Stop using the heater and disconnect safely. Have the damaged part repaired or replaced by a suitably qualified person before further use.

The thermal cut-out requires a manual reset. Never bypass it or repeatedly reconnect a heater that continues to trip.

8 CARE, STORAGE AND WARRANTY

Before starting
Switch off, unplug and allow the heater to cool completely before cleaning or maintenance. Use dry hands and hold the plug when disconnecting. Work requiring the casing to be opened is for suitably qualified persons only.

Cleaning

Clean with a soft, non-abrasive, lightly dampened, lint-free cloth. Keep moisture out of the casing, sensor, controls and electrical parts. Never immerse the heater or spray it directly. Do not use cleaning sprays, solvents, alcohol-based or abrasive cleaners. Wipe dry after cleaning and allow it to dry completely before reconnecting.

Storage

Store upright in a dry location protected from frost, heat, dust and direct sunlight. Do not stack objects on it. If a dust cover is needed, fit it only after unplugging and cooling completely. Remove the cover before use.

Disposal

Do not dispose of this electrical heater with household waste. At the end of its service life, take it to an appropriate collection point for waste electrical and electronic equipment. Your local authority can advise on suitable facilities. Separate collection supports reuse and recycling and helps prevent harm to the environment and human health.

3-year RADI8 warranty

The RADI8 210W under-desk infrared heater is backed by a **3-year RADI8 warranty**. Keep your proof of purchase and product rating-label details. For applicable terms or warranty queries, use the contact details on the following page. Your statutory rights are not affected.

Here to help

For product support, replacement controls and documentation, contact Infrared Heating Supplies.

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Please have your product code, order details and a photograph of the label or remote control available when contacting us.