

Benchtop Magnifiers with Ring Lights

DT Workshop Equipment Reference — D&T / STEM resource for school workshops | Electronics & Prototyping

Benchtop magnifiers with ring lights combine a large lens and a bright LED ring around it, illuminating the work from directly above while magnifying from 2x to 10x. They are ideal for soldering inspection, part marking reading and fine assembly at the electronics bench.

Key Features

- Lens sizes from 100 to 200 mm
- Ring LED or fluorescent lighting
- Magnifications 2x to 10x with auxiliary lenses
- Articulated arms and sturdy clamps
- Switchable colour temperature on LED types

Typical Uses in the Workshop

- Inspect solder joints and PCB traces
- Read small component codes and values
- Assemble fine mechanisms and models
- Photograph work with even lighting

Safe Operation

1. Position the lens over the work area
2. Angle the light ring to remove shadows
3. Choose the auxiliary lens for magnification
4. Focus by raising or lowering the head
5. Switch off when not in use

SAFETY NOTES

- Do not use the lens to focus sunlight - fire risk
- Keep the unit away from water
- Handle the lens carefully - it can crack
- Check the arm clamp holds before work
- Do not look directly into the LED ring

Maintenance & Consumables

- Clean the lens with a soft cloth
- Check the ring light LEDs for failures
- Tighten the arm joints when loose
- Keep the lead clear of the work area
- Replace the lamp only when switched off

Specification & Buying Notes

Choose a model with a glass lens and LED ring light on a locking arm. A 5 diopetre lens with auxiliary lenses gives the range students need. Clamp models free the bench surface.