

## PORTASCOPE MK3 INSTRUCTION MANUAL

**\*\*PLEASE READ THIS BEFORE OPERATING THE SCOPE\*\***

KIT CONTENTS	PART NUMBER
Portascope	MK3
Rechargeable Battery Pack	PR3
Battery Pack Pouch	PR6
Automatic Mains Battery Charger 230v AC	PR4
Scope Saver Tube	PR7
Spare Lamp 6v 10w	PR1
Foam Lined Carry Case	PR8

- The Portascope MK3 is an optical instrument and should be treated with care.
- You must always use the scope saver; this will prevent unnecessary damage to the optical tube. Failure to do so could invalidate the warranty.
- Under no circumstances must you attempt to dismantle the optical tube by removing the eyepiece. By doing this, you will invalidate the warranty.
- The tip will become hot during operation; avoid contact with flammable substances and materials that may melt.
- Always allow the lamp to cool down before handling or replacing in the foam case.
- Do not bend the optical tube.
- Do not immerse in liquid. The scope can be cleaned with a clean soft dry cloth; do not use liquid or cleaning fluids.
- It is recommended that the lamp is only switched on during viewing and switched off immediately afterwards; this will maximise both lamp life and battery use. It will also help keep the optical tube cool.

### RECHARGING

The Portascope MK3 kit contains a sealed lead acid battery.

#### *Operation:*

- Connect the output lead of the charger to the battery socket
- Connect the charger to a 230V AC mains socket
- The LED charge indicator will light up when charging is in progress.
- When the battery is fully charged, the LED charge indicator will flash to show that the charger is operating in trickle charging mode.
- Disconnect the charger from the mains socket and disconnect the battery from the charger.

Please note: This charger is intended only for use with 6V lead acid batteries. Charging other types of batteries may cause personal injury and/or damage to the charger.

### LAMP REPLACEMENT

- Allow the lamp to cool completely before handling.
- Disconnect from the power supply/battery charger or battery pack to avoid blowing fuses.
- Remove the end cap by gently unscrewing, using your fingers NOT tools, whilst firmly gripping the Portascope around the lamp aperture.
- Remove lamp by pulling upwards.
- Do not touch the replacement lamp with your fingers.
- Align the pins of the replacement lamp with the two small holes now visible and gently push the lamp home, then replace the end cap. (If the lamp operates intermittently, slide the lamp in and out several times to clean the lamp holder. Finally splay the lamp pins slightly apart to give a tighter fit.)

**IMPORTANT-** Only use approved lamps i.e. from your approved supplier or the manufacturer of this instrument; this is because the length of the lamps can vary from different lamp manufacturers. Using a longer lamp can damage internal parts of the scope and will invalidate the warranty.

### TROUBLE SHOOTING

#### *Automatic charger problems;*

If the charge indicator is not lit after having connected the battery, check the following points;

- 1) Quality of connection- absence of oxidation on battery terminals
- 2) State of Battery- a lead acid battery left uncharged for a long time can be sulphated and difficult (or impossible) to be charged again

If the charge indicator does not turn off at the end of a charge, this may be a sign of a defective battery;

- 1) One cell short circuited
- 2) The battery voltage may reach the value of 6.9V with difficulty (that may be the case for old batteries)
- 3) Contact your supplier for a new battery

To be used in a well ventilated room

The charger must not be exposed to rain or placed in water

Never try to charge non-rechargeable batteries

Warning- explosive gases- prevent flames and sparks

#### *Battery pack problems;*

If the battery pack is not working, unplug from the mains supply, remove screw and check the fuse. Spare fuses are available from your supplier.