

# Ultimarc Rotary Joystick Upgrade

This upgrade consists of a high-res 1200 pulse-per-rev encoder (same as our Spintrak) which moves the mouse pointer left-right.

## Important Note Before Ordering:

This kit can only be fitted to joysticks which have the 4-8 way or octagonal restrictor kit. It would be necessary to order this kit in addition if not already fitted.

The present kit is an interim, and there will shortly be an alternative lower-cost kit which can be used with PCBs which already have the encoder connector fitted. This will not include the PCB.

The handle in the kit is suitable for the standard ball tops only, not oval.

## Kit contents

- Replacement PCB with encoder and connector. New firmware.
- Encoder with locating bracket. Note this has a square cover fitted on early kits which can be discarded.
- Encoder disk (with foam protection)
- Cover
- Handle
- Replacement magnet holder with 6mm hole



