What’s included:

- 1x - US Digital E4T Miniature Optical Encoder Kit
- 1x - Quadrature Motor Encoder Cable
- 1x - Custom Lexan Spacer
- 1x - Custom 3M Foam Mount

Note: The Quadrature Motor Encoder V2 is intended to be used specifically with Lynxmotion spur gear motors with rear shaft. We cannot guarantee compatibility with other motors / shafts.
1 - Lexan Spacer
Separate the two spacers with a pair of pliers or by twisting them apart. Only one spacer is needed.

2 - Foam Mount
Remove the backing on one side of the 3M double sided foam tape and apply it to the lexan spacer taking care to match the screw holes. Glue the other side to the motor back as illustrated. It should self-center as shown. Note that you may need to flex the motor’s pins outward slightly.
3 - US Digital Mount
Screw (force thread) the US Digital plastic mount to the lexan spacer using the screws provided. Do not apply too much force to the screws as they will create threads in the plastic.

4 - US Digital PCB
Insert the US Digital encoder PCB as shown - there are protruding pins to center it.
5 - Encoder Wheel
Push the center of encoder wheel on the motor shaft (do not apply pressure to the clear plastic disk!!) until it sits close to the encoder sensor / reader.

6 - US Digital Cover
Install the cover over the PCB assembly. Connect the cable.
7 - Wiring
Red = +5vdc
Black = Ground
Green = Output A (digital)
Yellow = Output B (digital)