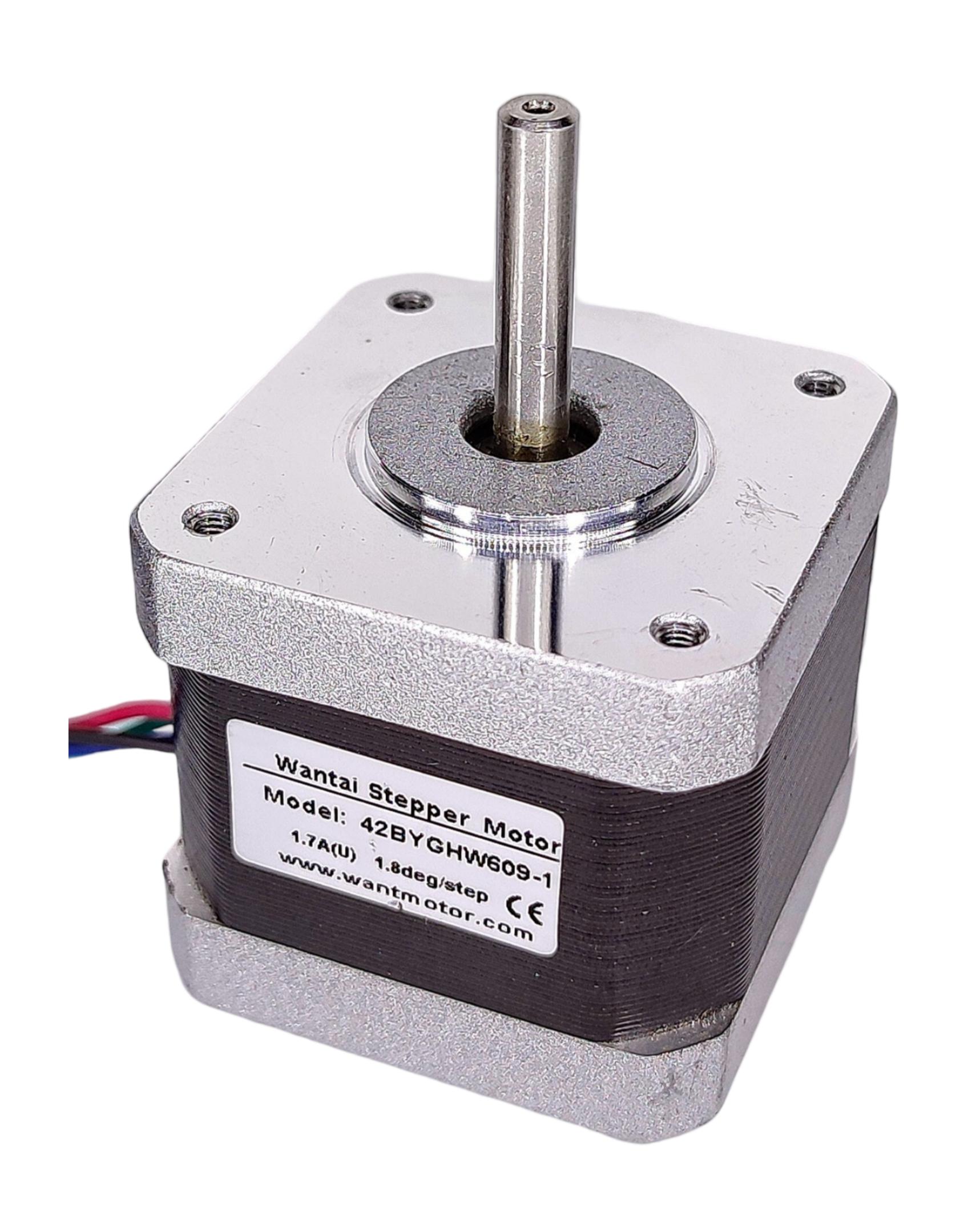
WANTAI MOTOR 42BYGHW609



Microstepping Chart

Frame Size: NEMA 17

Rated Current: DC 1.7A/Phase

Holding Torque: 0.4N·m

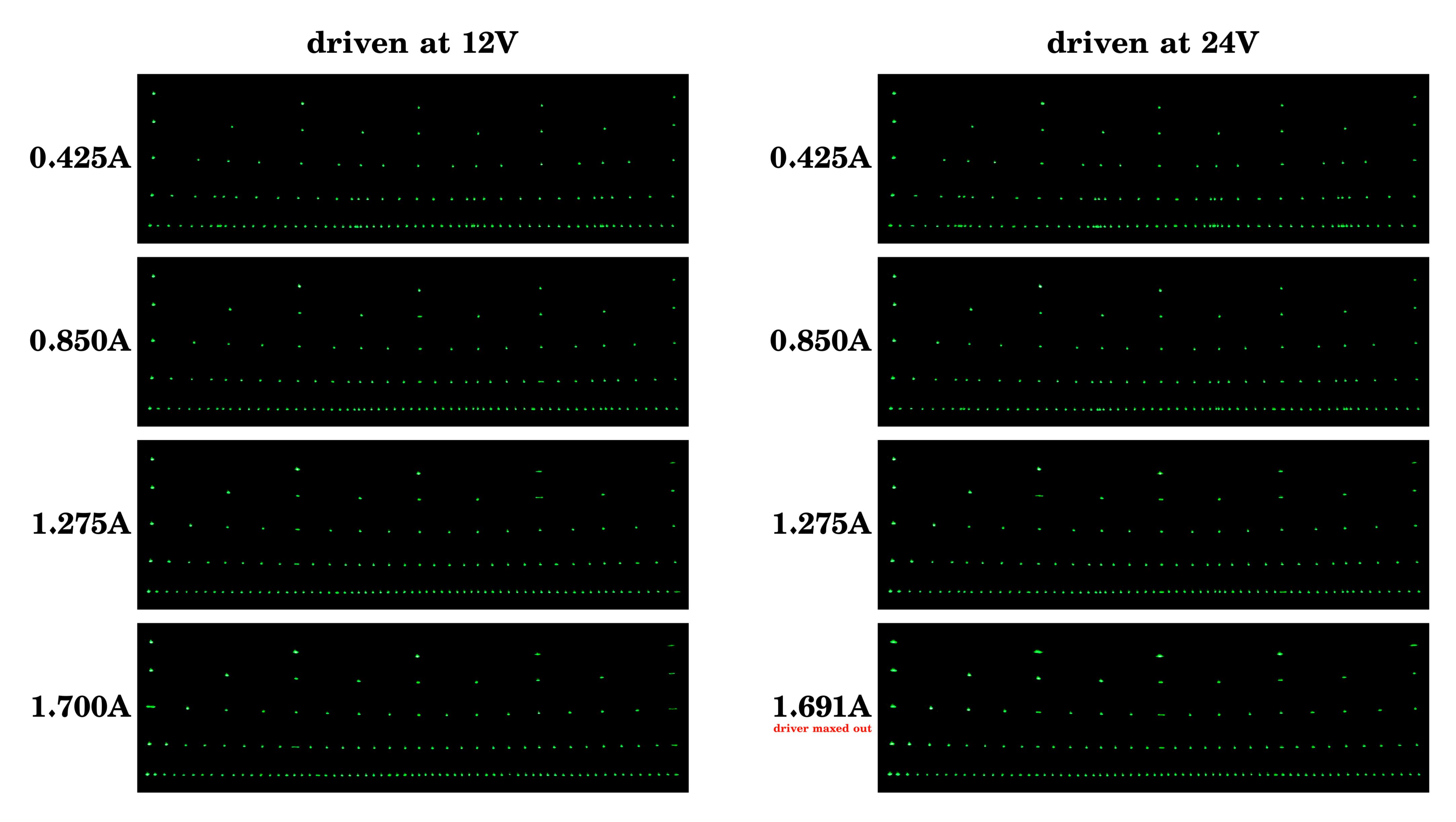
Step Angle (degrees): 1.8°

Phase Resistance: ~2.0Ω/Phase

Test Conditions:

- A4988 driver used for all tests
- Tested at 25%, 50%, 75%, and 100% of the rated current
- Tested with a driver supply voltage of 12V and 24V

WANTAI MOTOR 42BYGHW609

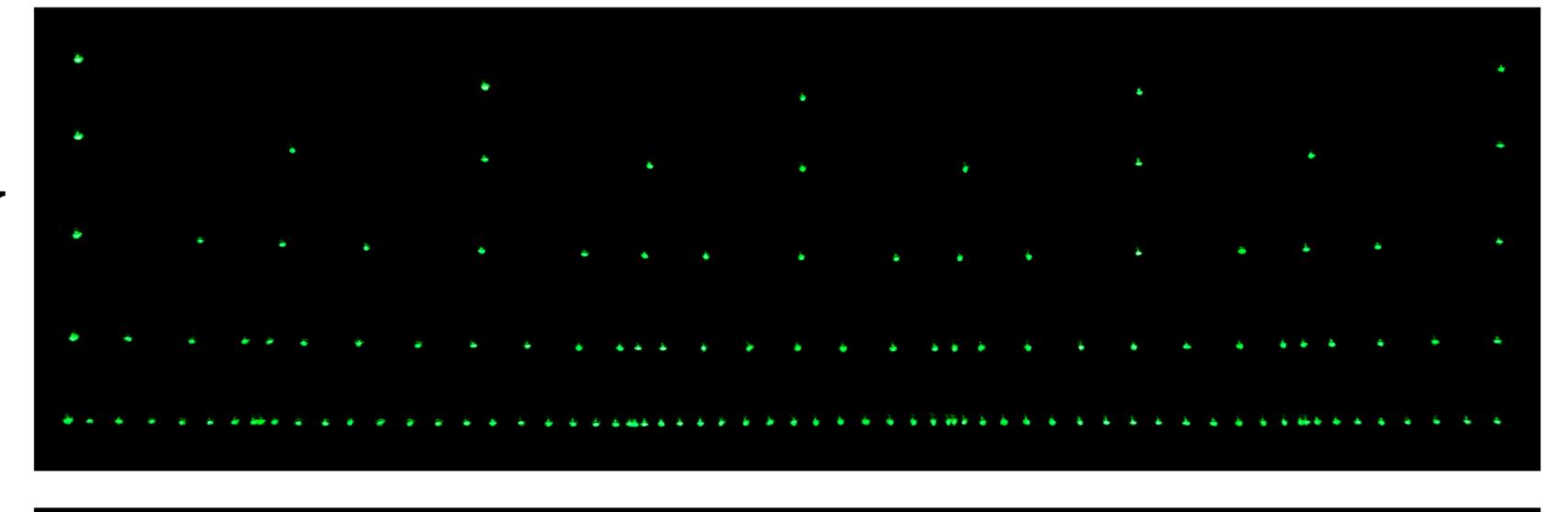


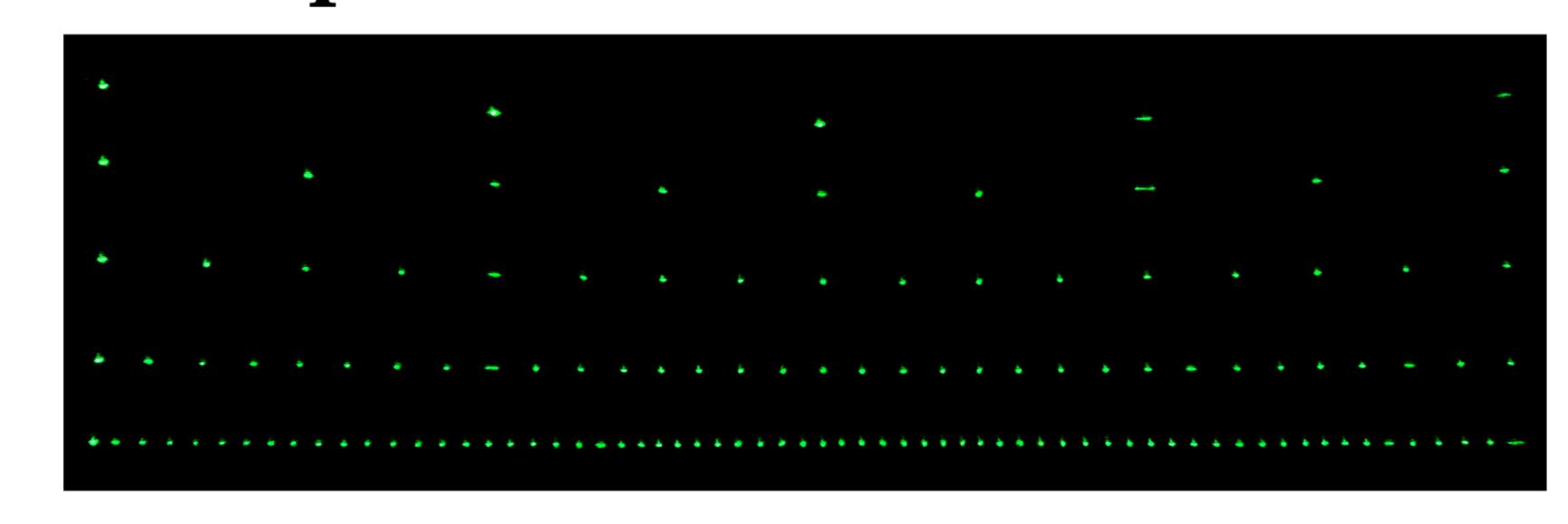
WANTAI MOTOR 42BYGHW609

phase current 0.425A

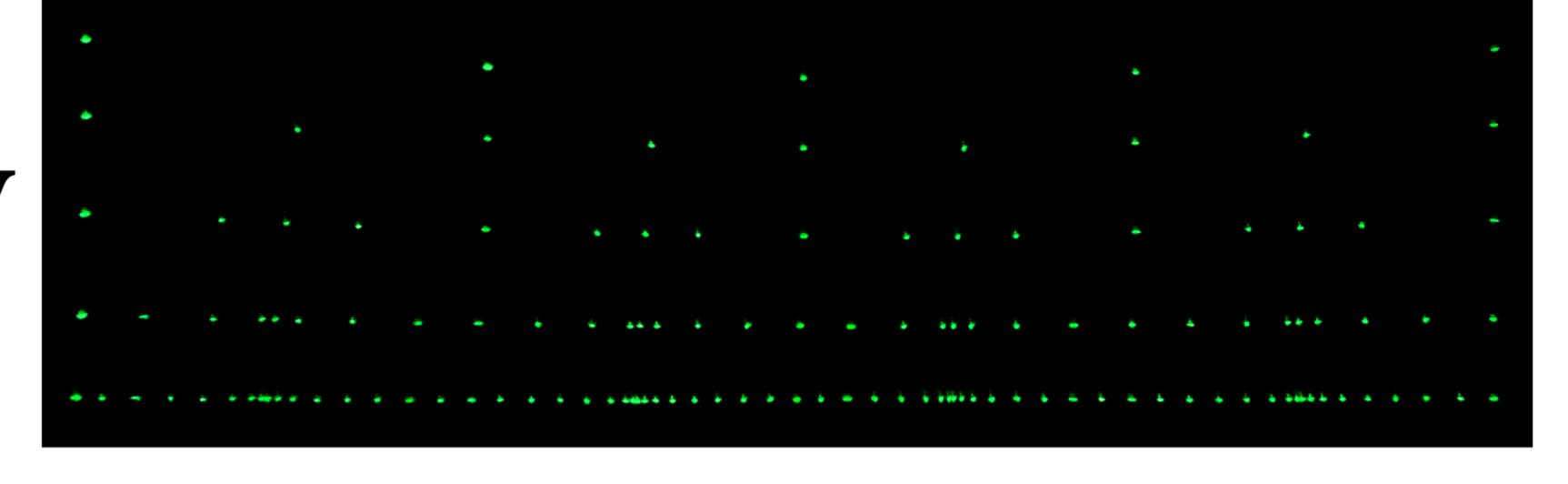
phase current 1.275A

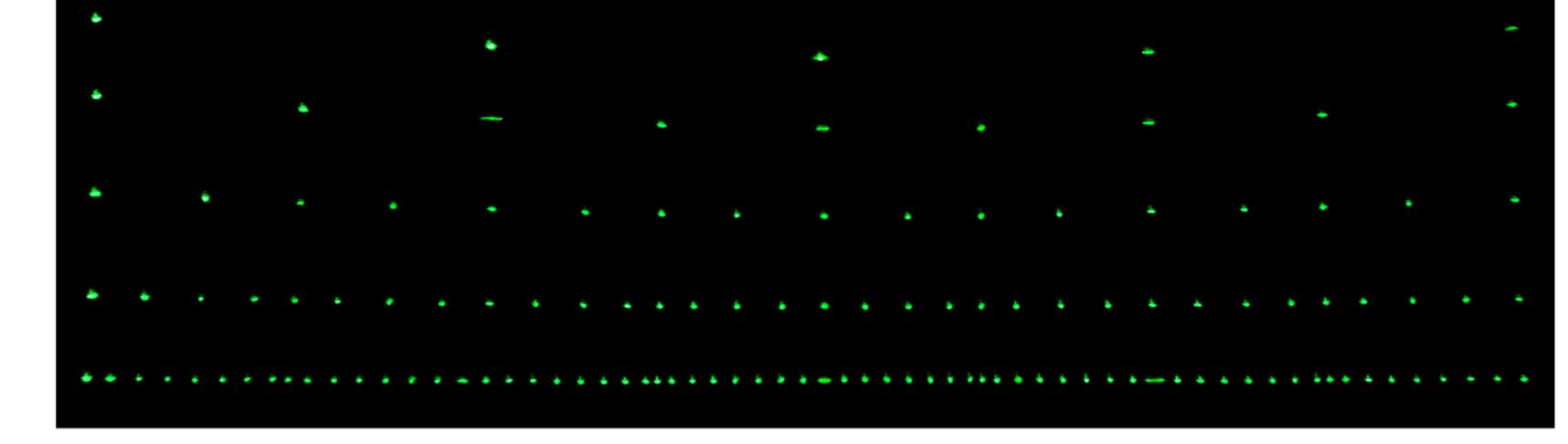
drive voltage 12V





drive voltage 24V





Notes:

- Every pattern was created at the indicated voltage and current levels by a laser galvo projector with the X-mirror actuated by the test subject. In automated fashion, a line of dots was drawn with the driver set to full steps, then the same row in half steps lined up underneath, then quarter steps, etc., all the way down to sixteenth steps.
- Due to the limited exposure duration of my camera, some combinations of drive current and voltage resulted in motion blur from the mirror 'bouncing' more than usual before settling at its intended target position. Other than in extreme cases, this should not significantly impact data accuracy.