

Figure S1: Circuit diagram to power IR LEDs. The IR LEDs are powered by a 12-35 V input and may be switched off by supplying a 5 V input control signal.

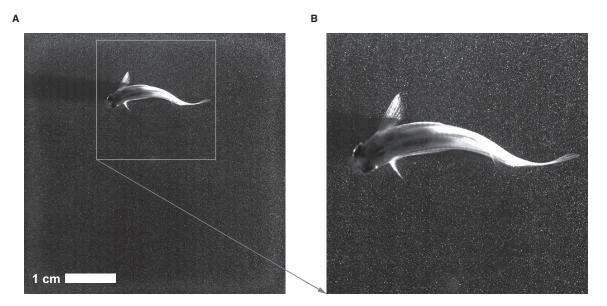


Figure S2: DPIV image of zebrafish (A) and inset (B). (A) Full frame DPIV image $(1024 \times 1024 \,\mathrm{pixels})$ of zebrafish during a turning maneuver. (B) Inset showing the fish body and laser illuminated particles around the fish body.