

# Olympus FV1000 confocal microscope

## Please

- read and follow our [guidelines](#).
- **don't use without introduction by [ALMF](#) staff**
- Only switch on parts you need for your purposes  
(e.g. if you don't need the Hg lamp for epifluorescence like for overnight on confocal microscopes)
- report problems to [us](#) without delay

## Laserlines:

Laser diode 405 nm (DAPI, Photoactivation, Uncaging)

Argon laser: 458, 488, 515 nm (CFP, GFP, YFP, Alexa 488, FITC)

DPSS Laser: 559 nm (RFPs, Cy3, TRITC, Alexa 555/568)

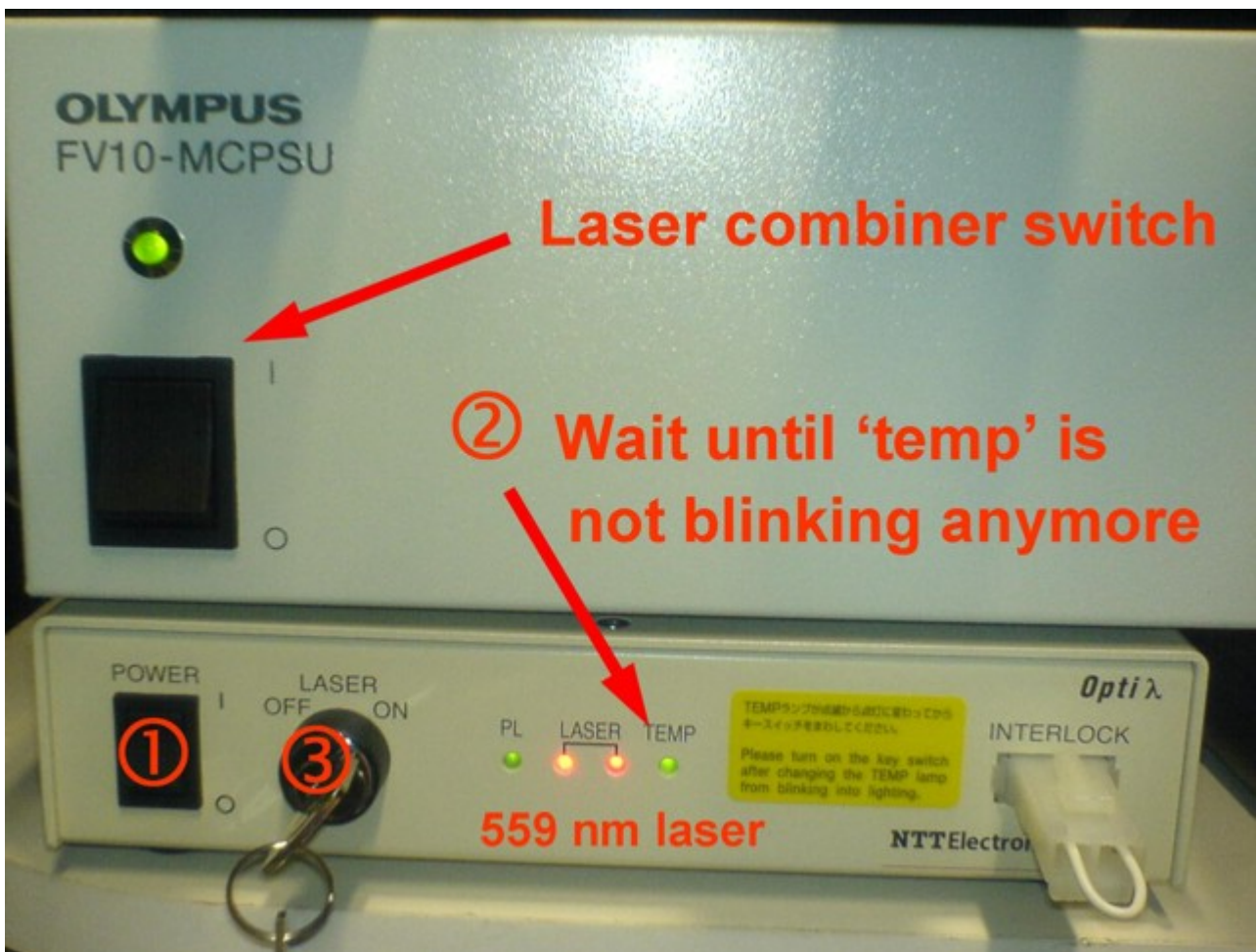
Red Diode Laser: 635 nm (Cy5, Alexa 633/647)

## Switching on the system:

- Switch on the **PC** (button next to floppy drive).
- Switch on the **microscope components** with the power manager (Mic-control, PSU1+2, HBO lamp if necessary)



- Switch on the lasers:
  - A) Laser combiner (FV10-MCPSU)
  - B) 559 nm laser if needed
    - 1) Main switch
    - 2) Wait until 'TEMP' is not blinking anymore
    - 3) Turn key to 'on' position



C) Argon-laser if needed:

- 1) Main switch
- 2) Key switch

**NEW:** Always turn off key switch, if the laser is not needed for more than 1 hour (e.g. next booking >1 hour later) !



- Log on to with the Username "ALMF".
- Start the microscope control software using the icon on the desktop

## **Switching off**

- Check if someone is booked after you on the same day! **In case someone is booked on the same day, just turn the intensity turnknob of the Argon-laser to the minimum position, switch off the key switch of the 559 nm laser, if there is at least 1 hour to next booking and leave everything else on.**

If nobody else is booked on the same day:

- Turn the **Argon laser** key (②) to the "**Off**"-position.
- Exit the control software.
- Switch off the **HBO lamp**.
- turn the **key switch** of the **559 nm laser** to off and switch off the **main power**.
- Switch off the laser combiner.
- Switch off the power manager (black main switch).
- Shutdown the PC.
- Switch the **Argon-laser main** switch off (①).