



kalao.cacao.telemetry.streams			
nuvu_stream	shwfs_slopes_flux	shwfs_slopes	dm01disp

```
database.get_all_last_telemetry()
  nuvu_emgain
  strehl
  ...
```

Tip/tilt plot

kalao.interface.status.telemetry\_series -> dict

Modal gains

```
centring_needed, image = kalao.interface.star_centering.fli_view()
kalao.interface.star_centering.star_pixel(x, y)
```

```
database.get_all_last_monitoring()
  shutter
  flip_mirror
  calib_unit
  laser
  tungsten
  filter
  temp_bench_air
  temp_bench_board
  temp_water_in
  temp_water_out
  coretemp_isa-Package_id_0
  acpitz_acpi-temp1
  nuvu_temp_ccd
  fli_temp_ccd
```

kalao.interface.status.latest\_obs\_log\_entry() -> string

- kalao.plc.laser.enable() / kalao.plc.laser.disable()
kalao.plc.laser.set\_intensity(NUMBER)
kalao.plc.laser.status()
- kalao.plc.shutter.open() / kalao.plc.shutter.close()
kalao.plc.shutter.position()
- kalao.plc.flip\_mirror.up() / kalao.plc.flip\_mirror.down()
kalao.plc.flip\_mirror.position()
- kalao.plc.tungsten.on() / kalao.plc.tungsten.off()
kalao.plc.tungsten.status()['sStatus']
- kalao.plc.calib\_unit.laser() / kalao.plc.calib\_unit.tungsten()
kalao.plc.calib\_unit.move(\$VALUE)
kalao.plc.calib\_unit.status()['lrPosActual']
kalao.plc.calib\_unit.status()['sStatus']

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```

Restart FLI camera service

Restart monitoring database updater service

Restart kalaortc