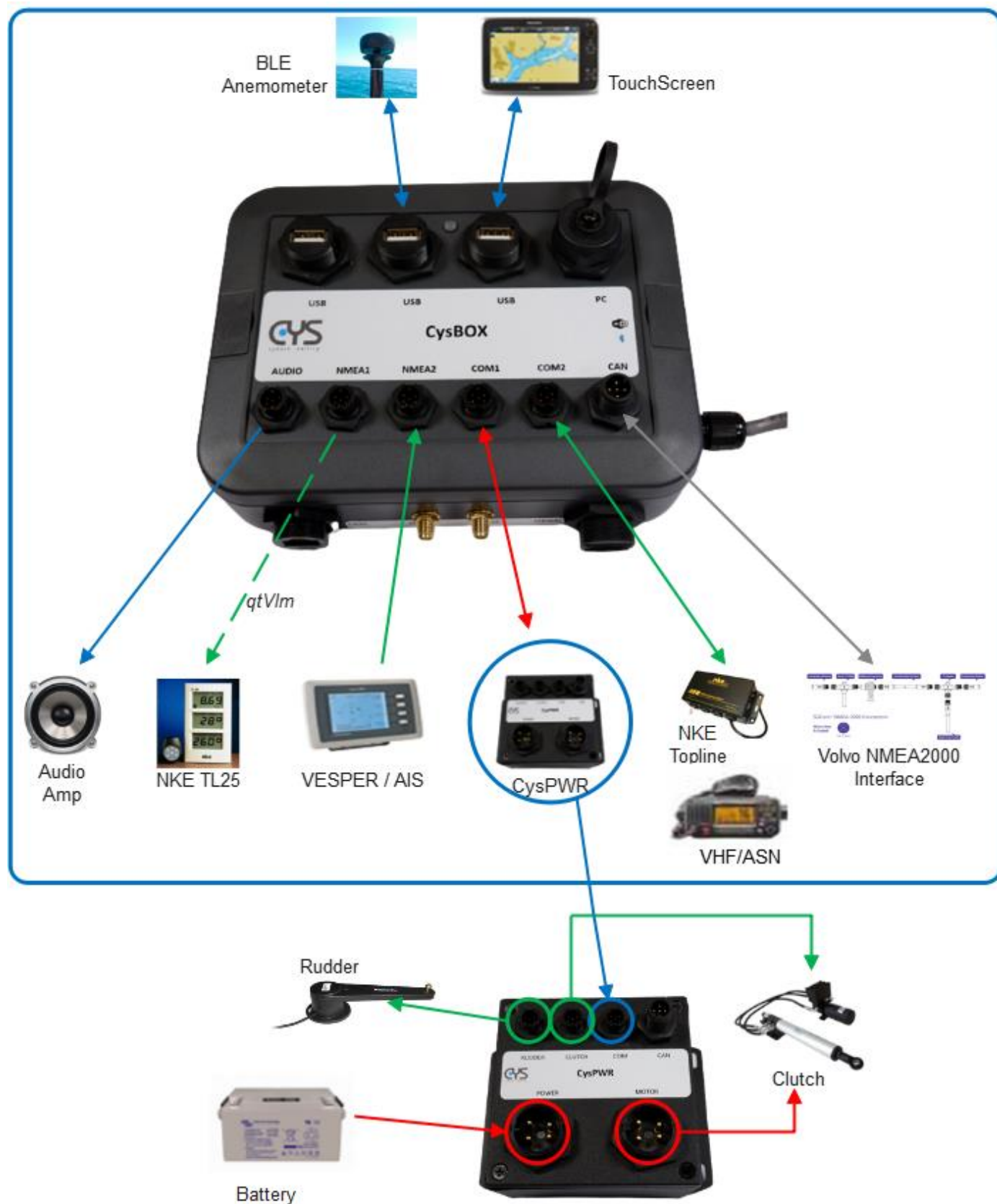


This is an example of the A40 sailboat equipment used for intensive autopilot testing



Setting file "cypilot_serial.conf" :

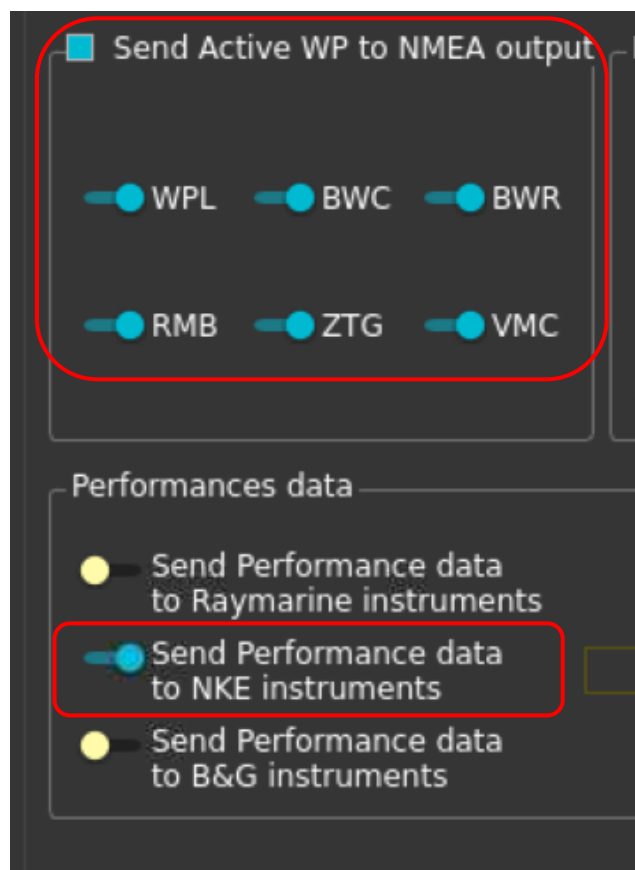
```
[
  {
    "path": "/dev/ttysNMEA2",
    "baudrate": 38400,
    "protocol": "nmea",
    "input_filter": [
    ],
    "output_msgs": [
    ],
    "description": "Vesper AIS Input"
  },
  {
    "path": "/dev/ttysCOM1",
    "baudrate": 38400,
    "protocol": "servo",
    "input_filter": [
    ],
    "output_msgs": [
    ],
    "description": "CysPWR Rudder Servo Input/Output"
  },
  {
    "path": "/dev/ttysCOM2",
    "baudrate": 4800,
    "protocol": "nmea",
    "input_filter": [
    ],
    "output_msgs": [
      "RMC", "GLL"
    ],
    "description": "NKE Topline / VHF ASN"
  },
  {
    "path": "/dev/ttypCAN",
    "baudrate": 115200,
    "protocol": "nmea",
    "input_filter": [
    ],
    "output_msgs": [
    ],
    "description": "CysBOX NMEA2000 GW Input/output"
  },
  {
    "path": "/dev/ttyuGPS",
    "baudrate": 115200,
    "protocol": "gps",
    "input_filter": [
    ],
    "output_msgs": [
    ],
    "description": "CysBOX U-Blox GPS Input/Output"
  }
]
```

Note: /dev/ttysNMEA1 (ttyUSB0) is directly managed as output to NKE Display by qtVlm software.

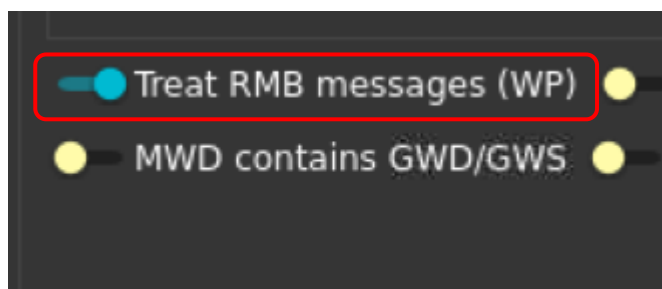
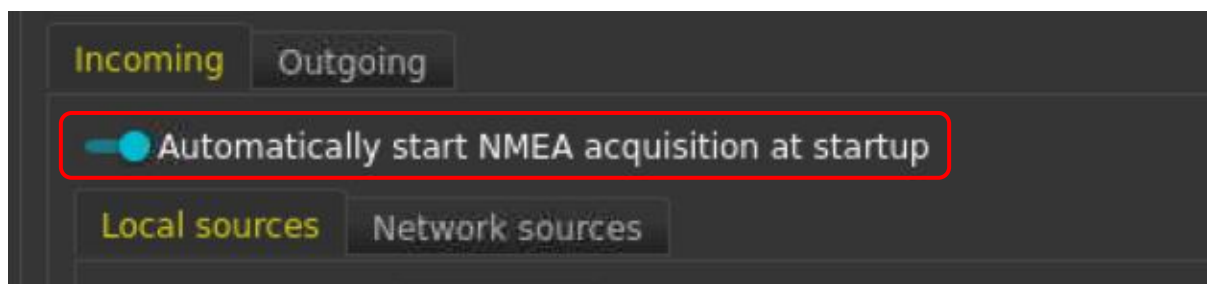
SYMLINK	Device CysBOX V1-V2	Device CysBOX V3	Process
/dev/ttysNMEA1	ttyUSB0	ttyUSB0	qtVlm
/dev/ttysNMEA2	ttyUSB1	ttyUSB1	cypilot
/dev/ttysCOM1	ttyUSB2	ttyUSB2	cypilot
/dev/ttysCOM2	ttyUSB3	ttyUSB3	cypilot
/dev/ttypCAN	ttyUSB4	ttyAMA0	cypilot
/dev/ttyuGPS	ttyACM0	ttyACM0	cypilot

qtVlm settings:

qtVlm→Configuration→Instruments Tab



qtVlm→Configuration→NMEA connections Tab→ Incoming – Local sources



qtVlm→Configuration→NMEA connections Tab→ Incoming – Network sources

Incoming **Outgoing**

☒ Automatically start NMEA acquisition at startup

Local sources **Network sources**

TCP

Server	IP	Port	Icon
<input checked="" type="checkbox"/> Server 1	127.0.0.1	20220	Green Funnel
<input type="checkbox"/> Server 2	127.0.0.1	10111	Grey Funnel
<input type="checkbox"/> Server 3	127.0.0.1	10112	Grey Funnel

☐ Force reconnection if no data during 6

NMEA Filter

☒ Only these messages ☐ Reject these messages

MTA

Strings separated by semicolon.

☒ Treat RMB messages (WP)

☐ MWD contains GWD/GWS

qtVlm→Configuration→NMEA connections Tab→ Outgoing

General Boat Instruments **NMEA connections** AIS Charts Routes Gribs and Harmonics Internet

Incoming **Outgoing**

☒ Output Channel

☒ Serial port

ttyUSB0 CysBOX

4800

1 Stop Bit

8 Bits

No Control

No Parity

☒ Retransmit all

☐ UDP 1

255.255.255.255

10110

☐ Retransmit all

☐ UDP 2

☐ Retransmit all

☐ TCP

127.0.0.1

10110

☐ Retransmit all

☐ Generate QTMWV message from grib data

NMEA Filter

☒ Only these messages ☐ Reject these messages

VTG;RMC;RMB;RSA;XTR;GGA;GLL;WCV

Strings separated by semicolon.

Some photos of the equipment of the A40 sailboat used for the autopilot tests:

