Excitation Components
Nikon C1

from Nikon laser combiner

laser port (APC connector)

scan head

compact attenuator

laser diode head

LDH Series

LDH 405
LDH 440
LDH 485
LDH 510
LDH 530
LDH 560
LDH 595
LDH 640

fiber switch

PM SM fiber

LCU

diode laser driver

PDL Series

one channel version: PDL 800-D
multi-channel computer controlled version: PDL 828 “SEPIA II”

sync to TCSPC unit

filter
dichroic or mirror
**Detection Components**

**Nikon C1**

1. The exit port can create slight backreflections which are however in most applications not visible in the lifetime histogram.
2. Detection unit is available with up to four detectors, NDD only with up to 2 detectors possible. No SPAD for NDD.
Components - Data Acquisition

Nikon C1

- sync signal from Laser driver PDL Series
- detection channel from router (if present)
- line and frame sync from LSM controller
- signal from detector
  - PMA Hybrid
  - SPAD
  - PMT

- sync cable
- router cable
- Nikon LSM cable set

- detection
- PicoHarp 300, HydraHarp 400 or TimeHarp 260
- line and frame sync from LSM controller
- detection channel from router (if present)
- sync signal from Laser driver PDL Series
- signal from detector
  - PMA Hybrid
  - SPAD
  - PMT

- sync cable
- router cable
- Nikon LSM cable set

- software
  - SymPhoTime
    - package 1: for FCS
    - package 2: for FLIM
    - package 1+2: complete (FLIM and FCS)

- PC
  - PicoQuant
- monitor
- PC
  - Nikon
- monitor

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