Excitation Components
Nikon A1

from Nikon laser combiner

laser port 1 (APC connector)
laser port 2 (APC connector)
IR port
scan head

compact attenuator

laser diode head LDH Series

PM SM fiber

LCU

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

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

diode laser driver PDL Series

laser switching TMF 400

external / non PQ pulsed laser, TPE

signal adapter

compact attenuator

sync to TCSPC unit

from Nikon controller

sync to TCSPC unit
Detection Components
Nikon A1

1) The AUX exit port will be modified by PicoQuant.
2) Detection unit is available with up to four detectors. NDD only with up to 2 detectors possible. No SPAD for NDD.
3) Not needed with HydraHarp 400 and TimeHarp 260.
4) Anisotropy measurements are possible with special two fiber adapter.
Components - Data Acquisition
Nikon A1

- Laser driver PDL Series
- TPE

- PMA Hybrid
- SPAD
- PMT

- sync signal from Laser driver PDL Series
- sync cable
- sync signal from TPE
- sync cable

- detection channel from router (if present)
- router cable

- line and frame sync from LSM controller
- Nikon LSM cable set

- signal from detector
- signal cable

PicoHarp 300, HydraHarp 400 or TimeHarp 260

monitor

PC

PicoQuant

software
SymPhoTime

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