

TECHNICAL SPECIFICATIONS

Optical

| | PDM+ | PDM+ HP | PDM ₄₊ | PDM ₄₊ HP |
|----------------------------|---|----------------|-------------------------------|----------------------|
| Peak power | Up to 2W | Up to 3.2W | Up to 6W | Up to 10W |
| Pulse width | From 2ns to CW | From 4ns to CW | From 2ns to CW | From 4ns to CW |
| Repetition rate | From single-shot to 250 MHz | | From single-shot to 250 MHz | |
| Available wavelengths (nm) | 808, 976, 1030, 1064, 1075 ⁽¹⁾ | | 976, 1064, 808 ⁽²⁾ | |
| Operating mode | Pulsed and CW | | Pulsed and CW | |
| Beam quality | Single-mode | | Single-mode | |
| Command interface | TTL/LVTTL ⁽³⁾ | | TTL/LVTTL ⁽³⁾ | |
| Output fiber | SM/PM | | SM/PM | |

(1) Other available wavelengths: 845, 1310, 1480, 1550 nm...

(2) Choose two wavelengths from 976, 1064, 808 nm...

(3) LVDS or other on demand (LVPECL, CML, LVS)

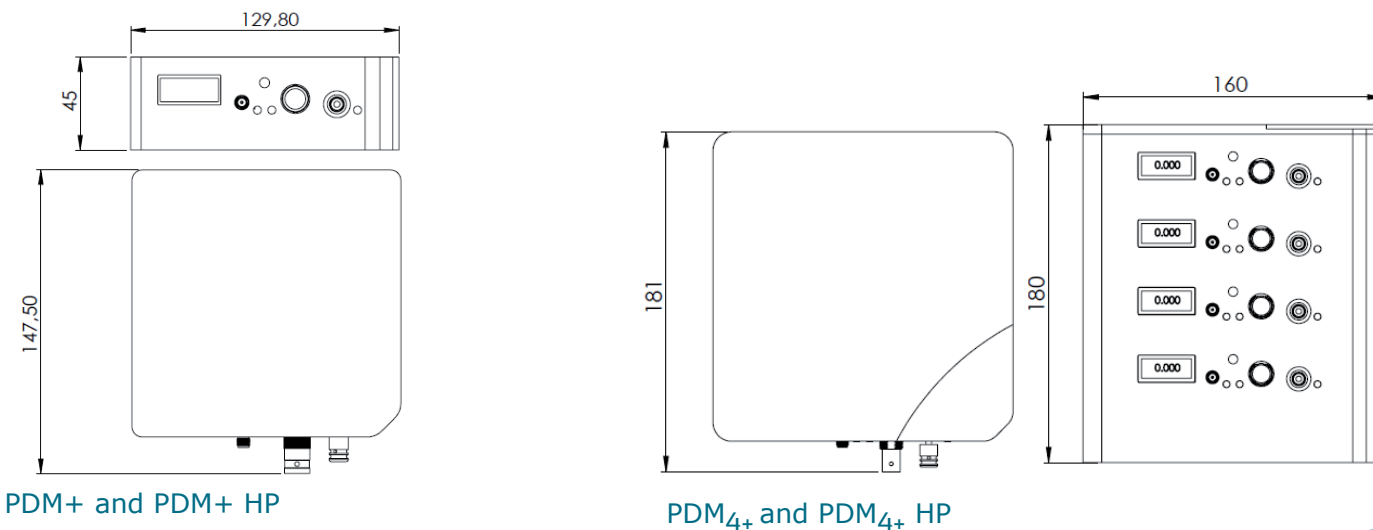
Options

- Polarized fiber (single-mode only)
- Output isolator
- Narrow emission bandwidth
- Separated collimator
- Interlock
- Various fiber connectors (FC, SMA...)

Electrical

| | |
|-------------------|---|
| Operating voltage | 12-15 Vdc (OEM) 110/220V ac/dc converter included |
| Input impedance | 50 Ω |

Mechanical



Photos: ALPhANOV - version 11/2016



PULSE-ON-DEMAND MODULES

PDM SERIES

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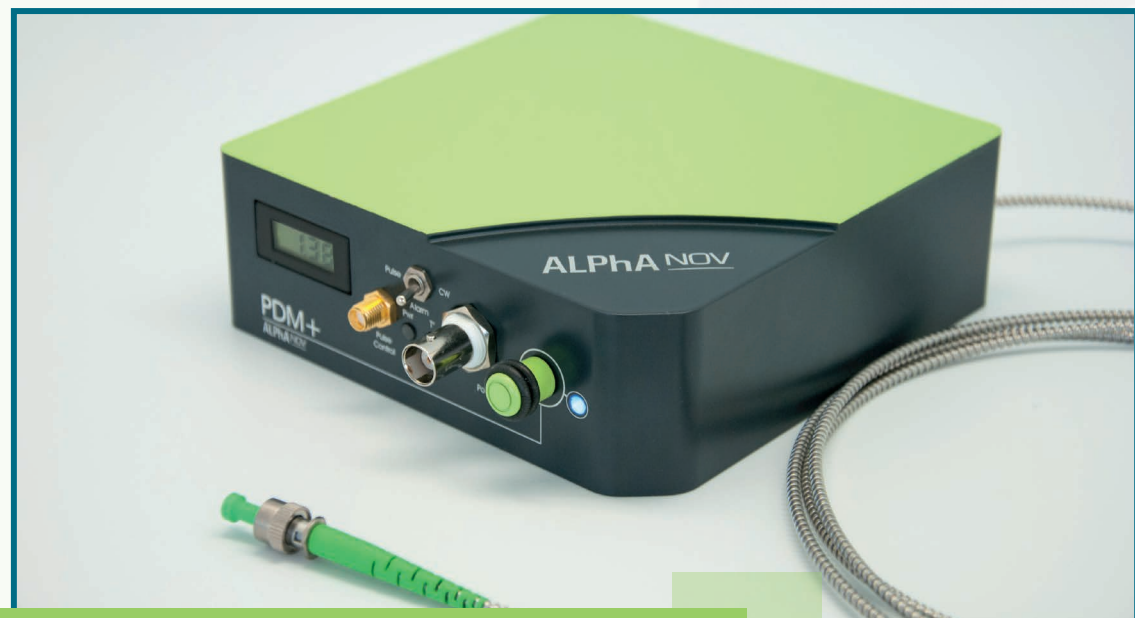
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PULSE-ON-DEMAND MODULES

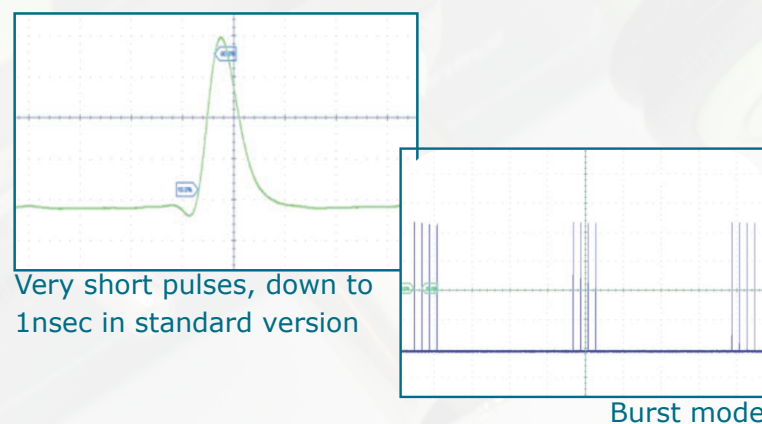
FOR FULL TEMPORAL AGILITY

Generate optical pulses on demand from input TTL/LVTTL digital signal with extremely low jitter

PDM+



Up to **3.2W** peak power with single-mode output signal



PDM 4+



Up to **10W** peak power with single-mode output signal

The PDM series consists of OEM laser modules which generate optical pulses from input TTL/LVTTL digital signal. From single-shot to continuous wave (CW), with pulse length from 2ns to any required pulse-burst configuration, the PDM series offers the best temporal flexibility on the laser market.

Key features:

- Single-shot, burst mode or CW operation
- Up to 10W peak power
- Min. pulse duration: 2 nsec (FWHM)
- Extremely low jitter (<8ps)
- Large range of wavelengths from UV to IR
- Up to 250 MHz repetition rate
- Excellent beam quality
- Generate short pulses from a longer TTL signal
- Smart control (USB interface)

Key applications:

- MOPA architecture
- Low power micromachining
- Laser development
- Non destructive control
- Telemetry
- Doppler measurements
- Metrology
- Semiconductor testing