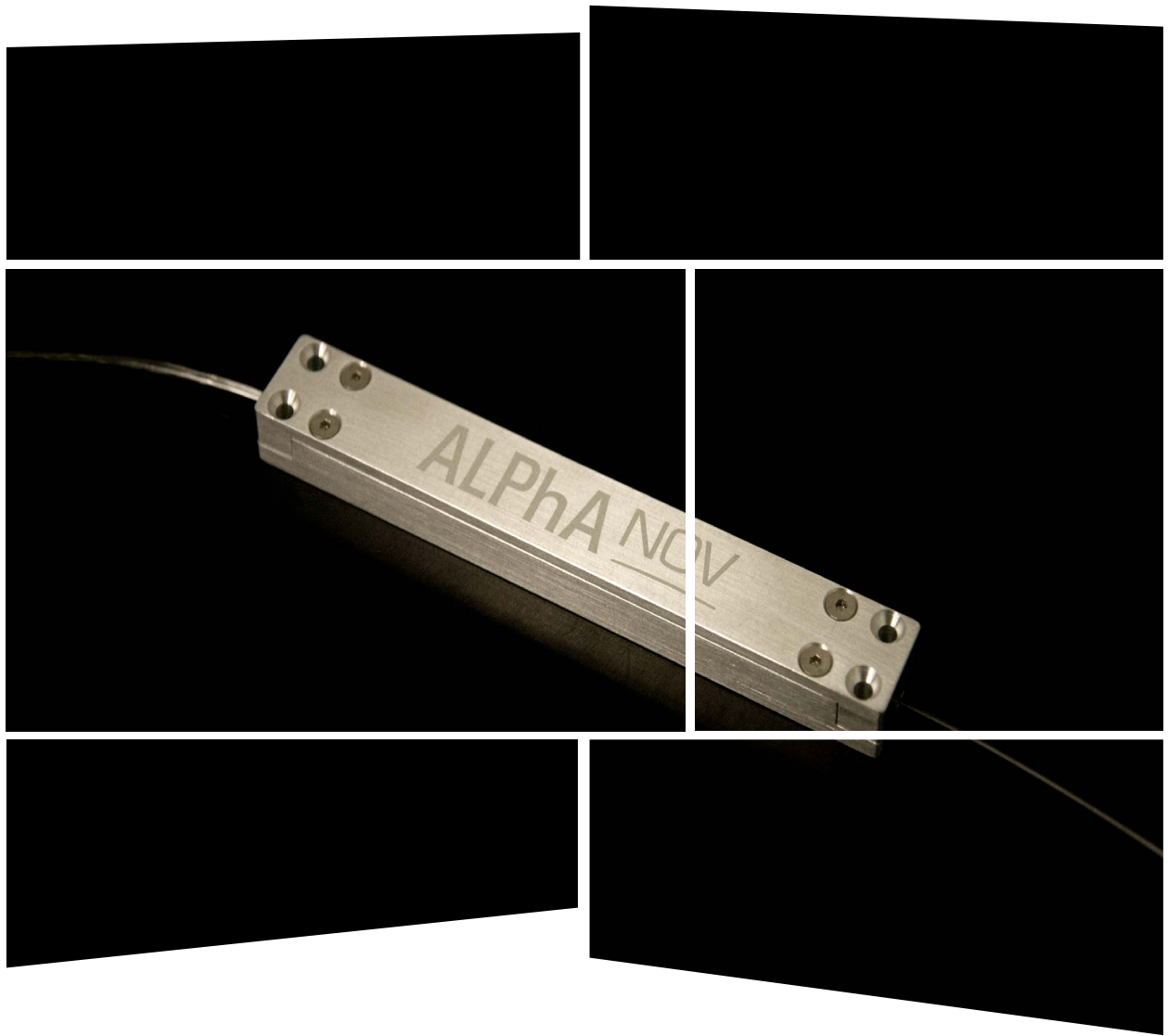


kW-class

N+1>1 combiners



ALPhA NOV

Optics & Lasers Technology Center

kW-class

N+1>1 combiners

ALPhANOV supplies both standard and custom-made high brightness combiners in the kWatt regime.



Custom-made high brightness combiners can be designed and made on-demand to meet a wide range of configurations with various input and output fibers.

Optical specifications

| | |
|------------------------------|----------------|
| Signal operating wavelengths | 1020 - 1100 nm |
| Pump operating wavelengths | 800 - 1000 nm |
| Number of multimode inputs | 6 |
| Number of signal input | 1 |

Transmission

| | | |
|---------------------------|-----------|----------|
| Signal transmission | > 90 % | |
| Pump fiber transmission | NA = 0.15 | NA = 0.2 |
| | > 98% | > 94.5% |
| Power per multimode input | 500 W | |
| Total power | 3 kW | |

Fibers

| | | |
|--|----------------------------------|----------|
| Signal input fibers (core/clad diameter) | 10/125 μ m NA = 0.08/0.46 | |
| Pump input fiber (core/clad diameter) | NA = 0.15 | NA = 0.2 |
| | > 98% | > 94.5% |
| Output fiber (core/clad diameter) | 500 W 3 kW | |

Package dimension (in mm): 15 mm x 16 mm x 9 mm