



Compact OPO module for 355 or 532 nm Nd:YAG pump lasers

The MagicPRISM is a compact, motorized optical parametric oscillator (OPO) module with a conversion efficiency as high as forty percent.

FEATURES

- Stand-alone OPO module, compatible with most nanosecond Nd:YAG pump lasers
- Computer controlled tuning via control software/software development kit (SDK)
- Shipped with protective hard shell casing (PHSC)
- Requires alignment kit (AK) or Qsmart adapter (QSA) for alignment/mounting
- Warranty: One year on mechanical, electronics, and labor

OPTIONS

Protective Hard Shell Cases (PHSC)

Includes two protective hard cases with custom foam padding.

Idler Access (ID)

Extends tuning range to include 740 – 1200 nm
Decreases SIGNAL performance by 10%

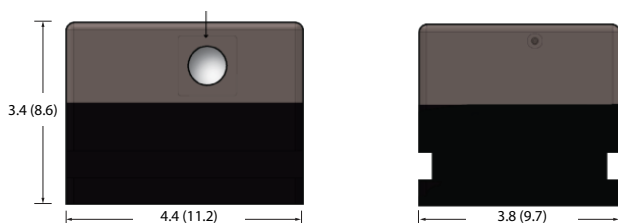
Alignment Kit (AK)

Stand-alone alignment kit for MagicPRISM pump beam.
End-user alignable. Does not include turning mirrors.

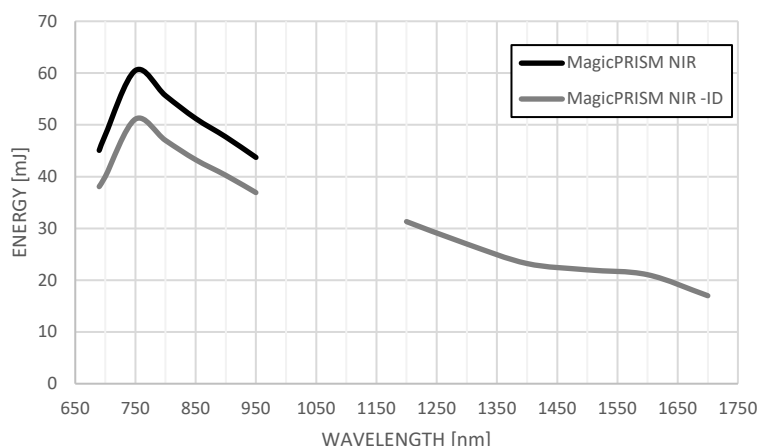
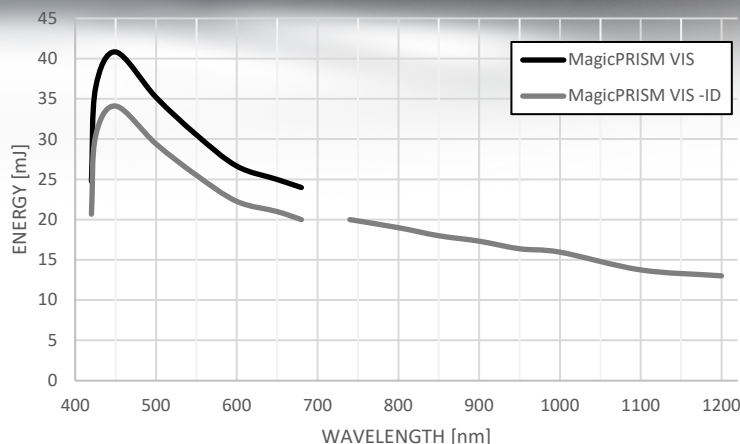
Fast Tuning

NIR and NIRD only. Wavelength can be tuned to any value within 690 - 950 or 1200 - 1700 nm at every pulse

DIMENSIONS



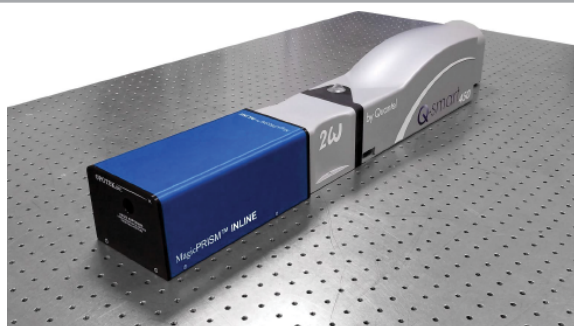
All dimensions approximate in inches (centimeters)



OPO SPECIFICATIONS	VIS / VIR	NIR / NIRD
Wavelength range		
VIS (nm)	420 - 680	---
VIR (nm)	420 - 680 & 740 - 1200	---
NIR (nm)	---	690 - 950
NIRD (nm)	---	690 - 950 & 1200 - 1700
Peak pulse energy (mJ)	40 (34)	60 (51)
VIS (VIR), NIR (NIRD)		
OPO Polarization	Horizontal	Horizontal

PUMP LASER REQUIREMENTS		
Pump wavelength (nm)	355	532
Max pump pulse energy (mJ)	90	140
Pulse duration (ns)	6 - 8	6 - 8
Beam divergence (mrad)	< 0.5	< 0.5
Linewidth (cm ⁻¹)	5 - 80	30 - 80
Pulse to pulse stability (%)	< 4	< 2
Pulse repetition rate (Hz)	10	20
Polarization	Vertical	Vertical
DIMENSIONS (LxWxH; inches (cm))	3.8 x 4.4 x 3.4 (9.7 x 11.2 x 8.6)	3.8 x 4.4 x 3.4 (9.7 x 11.2 x 8.6)

MAGICPRISM INLINE OPOTEK



Stream-lined housing that connects pump laser, harmonics and OPO module

Based on Ring-Cavity optical parametric oscillator (OPO) technology, the MagicPRISM Inline is a cost effective laser source that generates wavelengths over a broad range in the VIS and IR.

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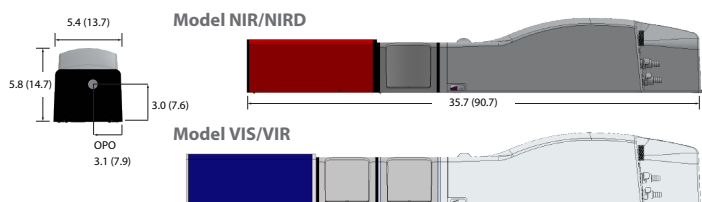
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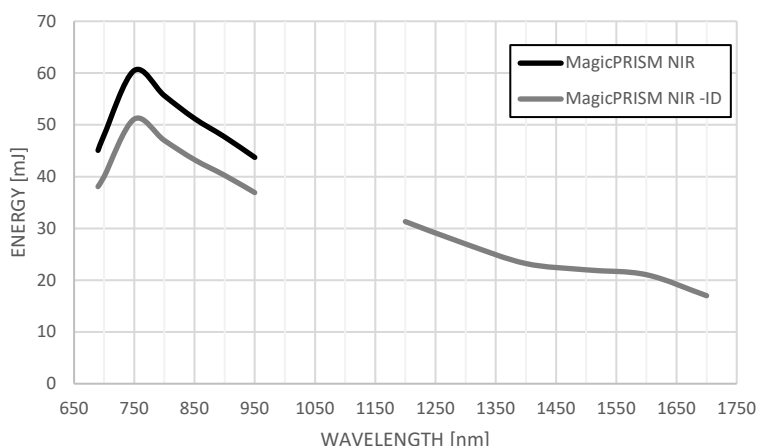
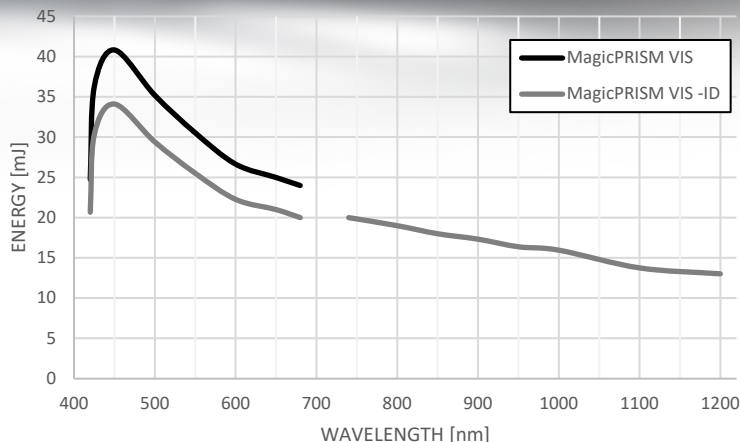
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	40.5 x 5.4 x 5.8 (103 x 13.7 x 14.7)	35.7 x 5.4 x 5.8 (90.7 x 13.7 x 14.7)