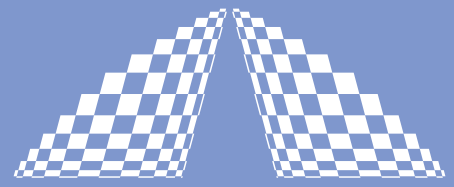
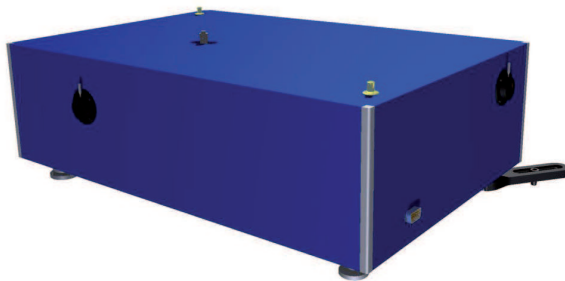


PULSE SLICER



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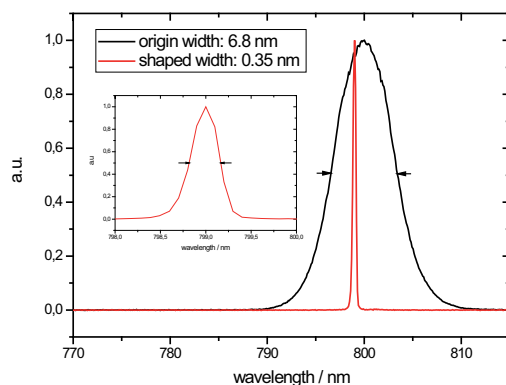
PULSE SHAPER



Often there is a need for a variable bandwidth or pulse duration of an ultrashort laser pulse, but the standard laser sources do generate fixed or slightly variable pulses only. The **PulseSlicer** is an economic solution for narrowing such broadband laser pulses by spectral cutting.

An optical system splits the pulse spectrally and with a mask at that point the transmitted spectrum can be controlled.

With the narrowing of the spectrum the pulse duration is modified accordingly, resulting the longer pulses. Of course the transmitted power is reduced proportional to the amount of spectral cutting, but many applications do not require high power levels as supplied from the contemporary laser sources.



Black: Pulse spectrum of the incident pulses. Red: pulse spectrum selected and shaped by the PulseSlicer (inset: zoom of the red spectrum)

Easily variable output bandwidth / pulse duration

Economic solution for narrowing broadband laser pulses

Ultrafast Pulse Diagnostics

Wavelength Conversion

Pulse Management

Acousto-optics

Your Partner in Ultrafast

PULSE SLICER

SPECIFICATIONS

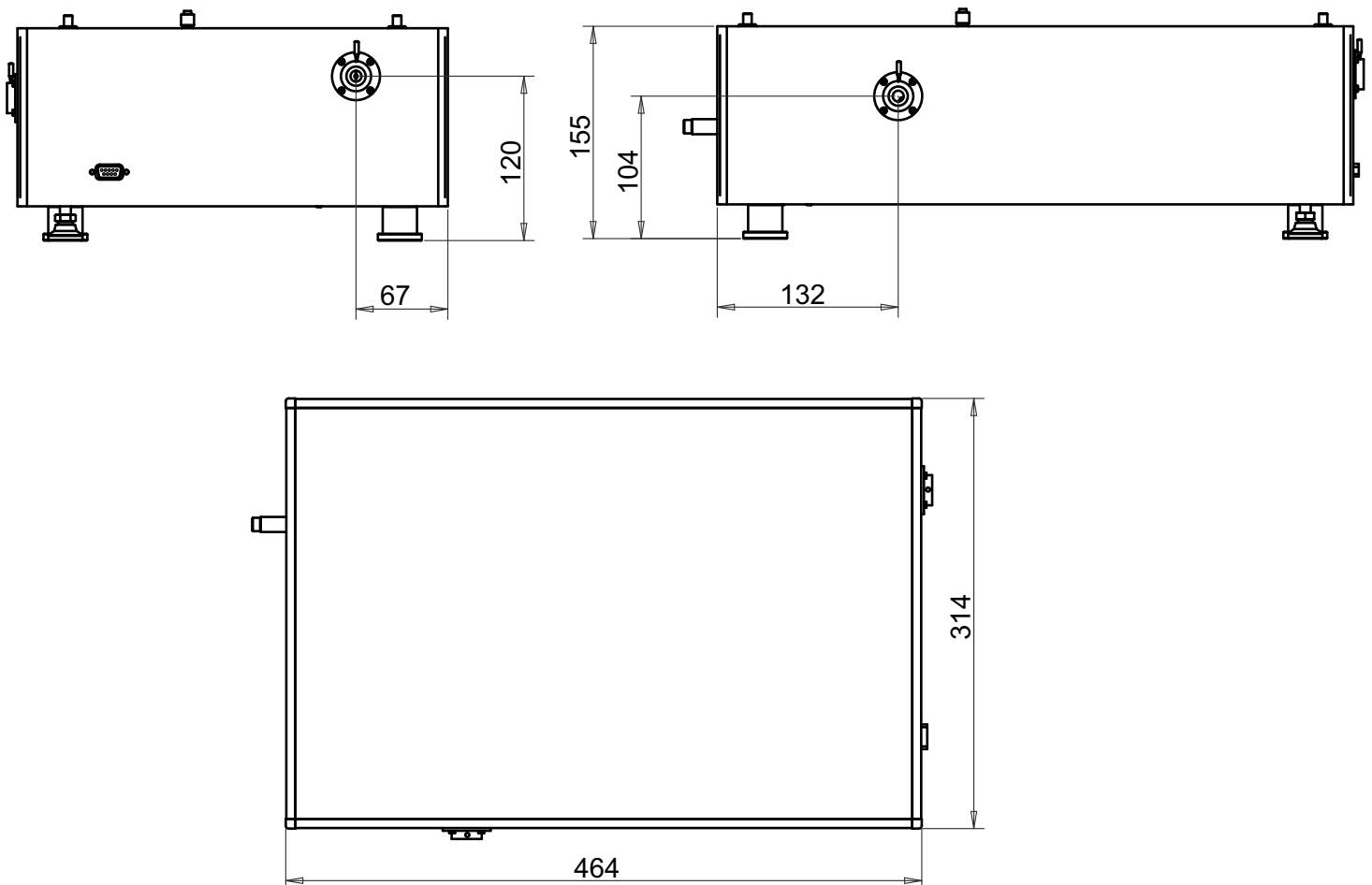
| | |
|--|--|
| Wavelength ranges | 700 ... 1100 nm or 1000 ... 1600 nm ¹⁾ |
| Minimum output bandwidth $d\lambda_{\text{out}}$ | 0.3 nm |
| Static transmission T_s | 0.5 ... 0.7, depending on wavelength range |
| Overall throughput | $T_s^* d\lambda_{\text{out}} / d\lambda_{\text{in}}$ |

1) others on request

OPTIONS

Autotracker - following laser tuning automatically

DIMENSIONS (in mm)



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APE follows a policy of continued product improvement. Therefore, specifications are subject to change without notice.

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