

π Shaper 12_12

**TELESCOPE or COLLIMATOR Homogenizers
Converting Gaussian to Flattop profile
UV-Lasers**



With these unique tools it is possible to convert Gaussian laser beam into collimated Flattop beam with nearly 100% efficiency.

TELESCOPIC and **COLLIMATING** versions of π Shaper are available.
Collimator solves simultaneously two tasks: *collimating* and *shaping* the laser beam.

π Shaper produces collimated Flattop beam (like Greek letter π) over a large working distance.
This enables to manipulate and re-size the beam with conventional imaging optics.

Almost the same effective sizes of input and output beams (diameter approx. 12 mm) let it easy to integrate π Shaper in your application.

The π Shaper can work with various lasers of wide spectrum.

Beam Shaping never was so easy!

No more losing of energy!

Technical Specifications

Common for all π Shaper 12_12 models:	
Output beam	- Collimated - Flat-top, uniformity within 5% - Diameter 12 mm
Other features	- Compact design suitable for scientific and industrial applications - Long working distance
Overall dimensions	- Diameter 44 mm - Length 252 mm
Weight	< 400 g
Mounting	Input: Outer Thread M27x1 Inner Thread M23x0.75 Output: Outer Thread M33x1 Adaptor M33x1 -> M27x1 (Outer)

π Shaper 12_12 Features				
Model	_355	_266	_355C	_266C
Input beam	- Collimated - Gaussian, diameter 12.2 mm ($1/e^2$)	- Collimated - Gaussian, diameter 12.2 mm ($1/e^2$)	- Divergent - Gaussian, divergence 60 mrad ($1/e^2$) - Diameter 12.1 mm ($1/e^2$) at π Shaper Input	- Divergent - Gaussian, divergence 60 mrad ($1/e^2$) - Diameter 12.1 mm ($1/e^2$) at π Shaper Input
Type	Telescope of Galileian type (without internal focus)		Collimator (without internal focus)	
Operating wavelength range*	330-380 nm	250-270 nm	330-380 nm	250-270 nm
Design wavelengths	355 nm	266 nm	355 nm	266 nm
Applications based on	3 rd Harmonic of Nd:YAG other lasers of UV-range	4 th Harmonic of Nd:YAG other lasers of UV-range	3 rd Harmonic of Nd:YAG other lasers of UV-range	4 th Harmonic of Nd:YAG other lasers of UV-range

* - according to coatings applied

