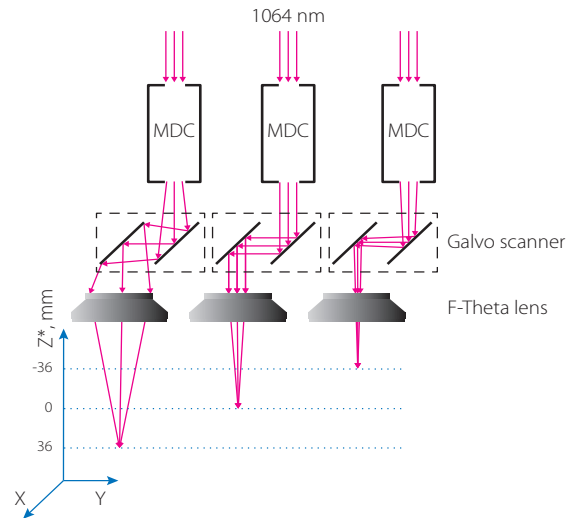


MDC - Motorized focal point positioner



Description

MDC is motorized device which allows to change focal point position along z-axis by adjusting beam divergence. As an add-on to 2D galvo scanners this device upgrades automated 2D fabrication setup to 3D. It can control working distance and focus beam diameter in real time. MDC is lighter in weight and smaller in dimensions compared to other solutions in the market. Due to simplified design it is a cost saving and user friendly device. MDC allows not only focus point adjustment, but it can also be used for other applications that require motorized divergence control.

Features

- Suitable for ultrafast picosecond and femtosecond lasers
- Special aberration compensation layout
- Custom divergence ranges on request
- Plug & play solution (controller included)

Standard specifications

Max input beam diameter	up to 6 mm
Focus speed	200 mm/s
Divergence adjustment rate	up to 30 mrad/s
Damage threshold	>10 J/cm ² 10 Hz, 10 ns, 1064 nm >7 J/cm ² 10 Hz, 10 ns, 532 nm
Resolution	< 1 μrad/step
Beam wander	< 0.5 mrad
Dimensions (H x W x L)	26.5 x 55 x 147
Weight	340 g
Control interface	USB

Typical Items

Wavelength, nm	Focus range*, mm	Divergence adjustment range*, mrad	Product ID
343-355	±32	from -0.6 to +5.5	MDC-0355
515-532	±34	from -0.8 to +4.9	MDC-0532
1030-1064	±36	from -0.9 to +4.4	MDC-1064

*using F=+163 mm F-Theta lens when Ø3 mm (at 1/e² intensity level) entrance beam has M²=1 and 1 mrad divergence