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Special Issue
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Seite 31**

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Multi-Wavelength Laser Engine

Manufacturer: Coherent.

Product: New family of flexible laser light engines, the "OBIS CellIX" series, that delivers up to four separate laser wavelengths from a single module, thereby lowering the complexity and overall cost of laser integration in multi-wavelength life sciences instruments such as flow cytometers. The system is targeted at instrument manufacturers that need to incorporate multiple lasers together with their associated infrastructure and beam delivery. **Features:** The laser engine is a compact one-box source in which the lasers, electronic control and beam conditioning optics are all completely integrated in a single package. It features a single controller board, common power and RS-232/USB connections, and a single I/O connector. Flexibility and utility are further enhanced by providing independent customer adjustment of the pointing and focus of each wavelength, allowing the TEM₀₀ outputs to be aligned and positioned as needed for each specific instrument.

"CellIX" is based on the proven "OBIS" plug and play smart platform. It is available in two standard formats – a three-channel ver-

sion with outputs at 405, 488 and 640 nm, and a four-channel engine that also includes 561 nm. Beam parameters are particularly well-suited to flow cytometry. The system offers a choice of either 50 mW or 100mW output power per wavelength, suiting cell analysis as well as the higher powers needed for cell sorting. In addition, patent-pending optical accessories are available that convert output into the focused, elliptical spots typically needed for flow cytometry. Customers can also easily generate flexible stripe patterns aligned to their flow cell using CellIX laser-safe adjustments.

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Universal Mounting Plates

Manufacturer: OWIS.

Product: Universal mounting plates ("UMP") for optical and fine mechanical setups. They allow the mounting of components with arbitrary grid and adjust these flexibly. The smallest grid possible is 20 x 20 mm and the plates are available in two sizes (UMP 84N and UMP 124N).

Features: The setup is fixed by sliding blocks. Thanks to its star-shaped arrangement these can be positioned flexibly. Furthermore, it is possible to insert and remove these at any point of the groove. The sliding blocks will be held securely in place by springs, but can also be loosened and readjusted easily. Standard are sliding blocks with threaded holes for M4 and M6, optionally they are also available for M5 or M8 thread upon request. The universal mounting plates are screwed directly together with another component or setup, such as an optical table or positioner,

through four counterbores. The use of further adapter plates is unnecessary. For the linear stage "LIMES 124N" these replace the mounting plate completely and therefore avoid an additional construction height.

The UMP are included in the standard program. All mounting plates consist of deformation-resistant aluminum, are black anodized by default and optionally available in other colors. Besides that, a vacuum-prepared version (up to 10⁻⁶ mbar) is available upon request.

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