

QIOVA UNVEILS A PREVIEW OF ITS NEW *VULQ1™* RANGE OF MULTIDOT LASER HEADS

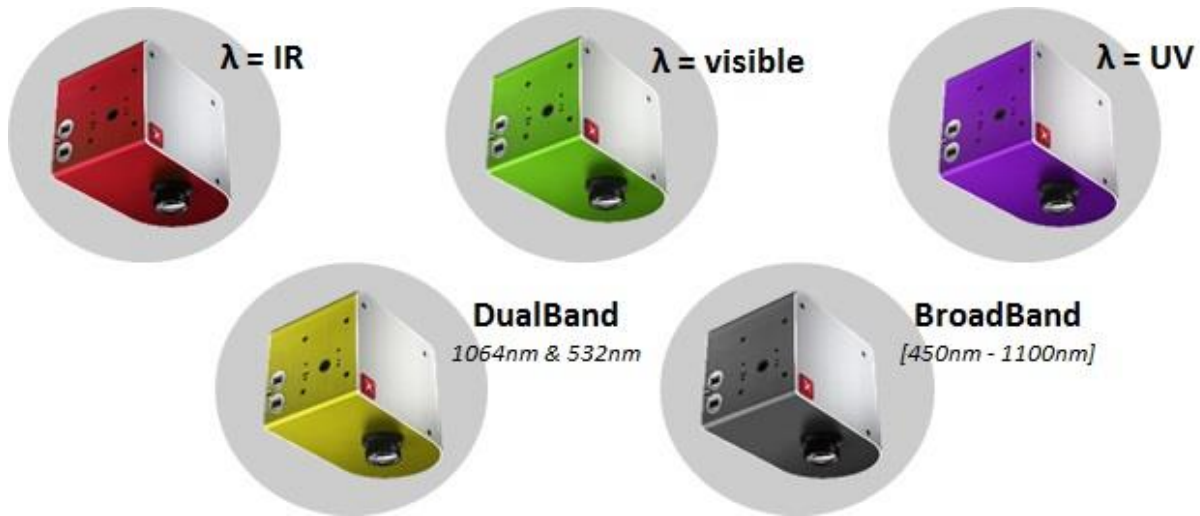
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There is a *VULQ1™* for every requirement. Such is the offer being brought to the forefront by this new *VULQ1™* range that may be used by a wider laser panel.

QioVA is betting on this enhanced offer to confront the new challenges of laser marking and micro-machining proposed by pharmaceutical, aeronautic and even food industries, especially in terms of speeding up and optimizing manufacturing processes, firstly, and reducing production costs, secondly. Thus, multi-beam technologies are presented as unbeatable alternatives or complements to conventional laser beam control technologies but, in certain cases, were not particularly flexible, dedicated to certain wavelengths and fragile at certain powers. Through the range, *VULQ1™* deploys its multidot functions for pulse lasers with different wavelengths and more energy, at the same time opening the way for new applications (traceability, parallel processing, beam shaping, multidot marking in the mass of transparent materials, etc.).

VULQ1™, the range:

It is official: QioVA has divided its flagship *VULQ1™* innovation into 5 different multidot laser head models:



Protected by a portfolio of international patents, *VULQ1™* is an innovative laser head that may be used to turn a laser beam into a set of independent dots controlled spatially and dynamically.



Initially designed for infrared pulse lasers for 2D microcode marking on precious metals (traceability, anti-counterfeit, etc.) , *VULQ1™* has been extended to other wavelengths Such as 532nm pulse lasers (polymers

processing for medical industry, for example). Two new heads have been added to the range: a DualBand head (capable of handling two different wavelengths: 1064nm and 532nm) and a BroadBand head (capable of handling a wide spectral range [450nm-1100nm]). More recently, the range has been enhanced with a new VULQ1™ head adapted for handling UV beams (handling transparent materials in glass, for example). Moreover, to handle evermore powerful laser that can deliver over 100 Watts, QiOVA foresees the possibility of fitting its heads with integrated cooling systems. Depending on their requirements and applications, every user can now enjoy a product that best meets their issues of laser/material interaction, yet enjoy the new opportunities that multidot laser marking and micro-machining present.

"We are delighted to be able to divide our innovation up into a full range that will as closely as possible meet our clients' requirements. We have now been working for over 7 years on the VULQ1™ multidot laser concept that is a real breakthrough innovation in the field of laser beam control. The novelty came from the fact that we could propose use and control of tens to hundreds of laser beams simultaneously with a single laser pulse. Initially designed for "flash" markings "on the fly" Datamatrix on high speed production line, we have increasingly been asked to extend the multidot concept to new market sectors and new applications such as parallel processing, for example. Developing this range has enabled us to do this" points out Benjamin Dusser, CEO of QiOVA.

"We have worked very hard to improve our head's performance. In particular, we have concentrated our efforts on two aspects: the spectral range [ndlr: the laser wavelength used] and capacity to handle energy and even higher optical power. In fact, you do need to know that the quantity of usable output laser points on our VULQ1™ head largely depends on the energy sent to it. The more it is, the more the head can deliver a high number of points at once, although the more vulnerable it is. Our latest R&D developments have thus enabled us to remove these technical bolts to make VULQ1™ compatible with the vast majority of current laser sources in terms of wavelength, with the exception of CO2 for now, typically with average power of up to 100 W". Sébastien Landon, QiOVA's Technical Manager continues.

About QiOVA...

QiOVA has long been THE expert in industrial laser beam shaping. With a technical engineering department that is the result of start-up in 2011 by Benjamin Dusser and Sébastien Landon, QiOVA specializes in laser marking and micro-machining (CIR/CII-approved), and development of innovative laser processes and modules. Furthermore, QiOVA provides its clients with its expertise in laser/material interaction, focusing on its in-house application laboratory equipped with many laser sources (nano- to picosecond impulses) and beam control systems (scanner head, micrometric disk players, spatial and dynamic laser beam shaping, etc.). Many sectors, from luxuries to pharmaceuticals, not to mention aeronautics, food processing and even currency, already place their trust in QiOVA.

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- **For more information, please visit:**
 - **QiOVA: www.qiova.com**
 - **VULQ1™: www.vulq1.com**