



To Photonics21 Secretariat  
via eMail: [secretariat@photonics21.org](mailto:secretariat@photonics21.org)

Dear Photonics21 Secretariat,

We herewith submit the nomination of the following Photonics21 Board of Stakeholders candidate  
MONOCROM S.L. / Jose Antonio Ramos de Campos.

**- Letter of Nomination -  
Photonics21 Board of Stakeholders  
Election 2024**

## Photonics21 Board of Stakeholders - Letter of Nomination

### 1. Full legal name of the affiliation nominated as BoS Member (candidate's organisation):

MONOCROM, S.L.

### 2. Full contact details of the affiliation (street, postal code, country) nominated as BoS Member and invoice address *(In accordance with the Terms of Reference §5, which the Affiliation acknowledges having received, an Annual Service fee will be invoiced every year during the first quarter to the BoS Member. By signing the present letter, the BoS candidate agrees to pay this Membership Fee. The Fee will be considered an asset of the Photonics 21 AISBL in accordance with its statutes (article 12b).)*

Calle Vilanoveta, 6  
ES-08800, Vilanova I la Geltrú (Barcelona)  
Spain  
Admin. Contact: Mr. Fran Ruiz

### 3. Name of the suggested BoS Representative (the personal candidate)

Dr. Jose Antonio Ramos de Campos

### 4. Information about the BoS candidate and the BoS representative

#### a) Description of the activities and information about the expected contribution and value added the nominated BoS member (candidate's organisation) will bring to the BoS<sup>1</sup>

MONOCROM was established in 1993, in Vilanova i La Geltrú (BCN), as the result of the merger of two local companies, REMSA & MONOKROM. Since then, its vision has been to grow as a global market leader in the semiconductor laser industry, high-quality laser diode systems and custom laser solutions.

MONOCROM develops diode-laser component that provide both standard and customized solutions for medical-aesthetic, industrial and defence applications. Our laser devices are designed to meet the most demanding requirements in materials processing, ophthalmology, dermatology and aesthetics, imaging, security, life sciences and for research.

MONOCROM, also an ISO 9001 certified company since 2010 and located in one of the pioneering European regions in the field of Photonics, is an active member and a collaborator company in the most relevant technological consortiums and platforms of Photonics and Laser Technology such as SecPho, Fotónica21 (Spanish national mirror of Photonics 21), ICFO, OPTICA and EPIC.

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<sup>1</sup> The candidate is aware and accepts that according to the Photonics21 Terms of Reference (§ 5 (10) a member ship fee - as determined by the General Assembly of the Association - needs to be paid to the Photonics21 association.

## Photonics21 Board of Stakeholders - Letter of Nomination

Being a highly innovative tech company with a strong R&D culture, we are used to work simultaneously on both internal and collaborative projects with other companies and organizations and technological developments range cover from commercial products to project developments for different fields of application.

As a result of the great inventiveness and fruit of these internal and collaborative projects, different technologies developed have been patented, Clamping and New Clamping, which allow our lasers to better dissipate the heat. This new CLAMPING system (without soldering), besides better heat-dissipating, it drastically minimizes the “smile” effect (a characteristic of traditional lasers that reduces operability), providing greater brightness with almost no mechanical stress.

MONOCROM's largest market is the medical sector, which accounts for 85% of its turnover. With the diversification objective, we should also mention the large investment in the development of a new range of products for the Defense and Industrial. There are currently 7 companies worldwide with the capacity to supply this market. Only MONOCROM is not part of any industrial conglomerate, as the others have been acquired by multinationals in the defense, industrial and medical sectors.

- b)** Description of the activities and information about expected contribution and value added the BoS Representative (candidate / person) will bring to the BoS.

Jose Antonio Ramos is passionate about lasers and their applications. With a deep training in optics, he has developed an extensive professional activity of more than 30 years in laser and optics.

He has just joined the MONOCROM team in 2024 as R&D Director, after holding the same position at LASEA for over 11 years. Prior to that, he worked at the Technological Institute of Optics, AIDO, in Valencia (Spain), where he coordinated the activities of the Laser Department.

He studied Physics at the University of Valencia, Spain, where he graduated in 1991. He got the Degree on European Laser Engineer by the Technical University of Wien (Euro-Laser Academy) in 1996. He got the Master of Science degree on Photonics by the University of Valencia in 1999, and the PhD on Physics by the same University in 2012, working on the topic of High Power Laser Beams Characterization, in parallel to his professional activity. He is author and co-author of numerous publications and contributions to workshops as well as patent applications.

Jose Antonio Ramos has always tried to promote Laser Technology being involved in training, dissemination and standardization activities, coordinating, for example, the Spanish National Workshop of Laser Materials Processing, being the Secretary of the Spanish National Comity of Standardization on Lasers or coordinating the Spanish National Network of Lasers before its fusion with the Spanish National Platform on Photonics, “Fotónica 21”. He has been also active in the WG2 of Photonics 21 since its creation, and member of the BoS since 2016.

## **Photonics21 Board of Stakeholders - Letter of Nomination**

Jose Antonio Ramos can provide a valuable contribution thanks to his years of experience working in the field of industrial laser applications and knowing the academic, technological and industrial points of view. His aims to renew his participation in the BoS are:

- To help to define the priorities of future photonics research within the European programs, according to societal needs.
- Provide the perspective of an industrial partner, representing MONOCROM, with extensive knowledge of the lasers markets.
- To help to increase the impact of Photonics as a key enabling technology at all levels.