

RaPID

Rapid Photonic Innovation Device

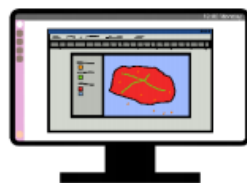
Virginia Commonwealth University researchers have developed a portable photolithography system that provides for rapid prototyping. Electronics and Photonics engineers can take advantage of this innovative system that offers a superior approach to development. The technology improves photolithography by reducing the large costs associated with traditional systems and media. In addition, the system can be used by novices in the absence of a clean room. The technology can be readily incorporated into existing technologies and transitioned to the marketplace. VCU is seeking market insights on commercialization of this new adaptive noise reduction technology. We welcome interest from potential producers, users, and licensees.

The technology

The technology is a design for a fast integrated circuit prototyping system. Through the use of a modified blue laser optical disc drive the system can fabricate nanometer features in a portable form factor. This system is capable of producing prototypes faster and cheaper than traditional photolithography machines.



RaPID Drive



RaPID View



RaPID Media

Benefits

- » Portable
- » Fast prototyping
- » Low cost equipment
- » No cleanroom requirement
- » Nanometer feature fabrication

Applications

- » Photolithography
- » Photonic integrated circuits
- » Electrical integrated circuit
- » Research

Patent status:

Patent pending: U.S. and foreign rights are available.

License status:

This technology is available for licensing to industry for further development and commercialization.

Category:

Electrical Engineering

VCU Tech #:

18-049

Investigators:

Ümit Özgür
Nathaniel Kinsey
Lionel Brookins
Robert Edwards
Adam Morrissett
Robert West

Contact us about this technology

Brent Fagg
Licensing Associate
bfagg@vcu.edu
(804) 827-2211