

FoCos Optix

Synergistic Solutions

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# High Speed Optical & RF Products & Services

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## *Company Overview*

FoCos Optix was originally founded in 2003 as an Independent Sales & Marketing venue for manufacturers of unique high-speed fiber-optic, photonic and RF products and services. Continuing the theme of providing evolutionary technology will always play a role in the growth and maturity of *FoCos Optix* as technology grows, expands and develops.

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## Mission Statement

- To focus on the varied and unique opportunities presented by the commercial, government and military markets involved in the High-Speed Photonics & RF market.
- provide 1<sup>st</sup> Class Sales, Service and Support to our customers and our principals.
- Make FoCos Optix the primary resource for High Speed Optical and RF products and services for Customers and Principals alike.

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## 25 Years+: History & Background

- Electro-Optics, Photonics & Optical Components
- Territorial Establishment, Development & Growth
- New Product Introduction
- Company Recognition & Brand Establishment
- Startups as well as established companies

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***V-I SYSTEMS GmbH***

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**V-I** Systems GmbH (VIS) is a fabless, German based developer and producer of ultrafast cost-effective optoelectronic PIN & VCSEL products. They were originally spun-out of the Technical University of Berlin, Germany and the A. F. Ioffe Physics-Technical Institute in St. Petersburg, Russia.

VIS devices offer a unique combination of high speed, low power consumption, reliability, and low cost. Their uniqueness is based on its revolutionary concept of vertically integrated modulator systems (VIMS), a new concept in ultrahigh-speed optical signal transmission. The monolithic all-epitaxial nanophotonics approach, realized in the Vertical-Cavity Surface-Emitting Laser (VCSEL) architecture, reduces cost while increasing the speed capabilities of the optical systems, that are used in telecom and datacom, wireless, computing and consumer markets

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## 850nm VCSEL CHIPS

- V25-850C (25 Gbit/s)
- V40-850C (40 Gbit/s)



## 850nm VCSEL ARRAYS

- V25-850C4 1x4 array (25 Gbit/s)
- V25-850C12 1x12 Array (25 Gbit/s)



## 980nm VCSEL CHIPS

- V25-980C (25 Gbit/s)
- V40-980C (40 Gbit/s)



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## SINGLE CHIP PHOTODIODES

D30-850C (To 40Gbit/s)



40 Gbit/s

D25-980C (To 25Gbit/s)



25 Gbit/s

## PHOTODIODE ARRAYS

D30-850C4 (To 40Gbit/s)



1x4

D30-850C10 (To 40Gbit/s)



1x10

D30-850C12 1x12 (To 40Gbit/s)



1x12

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## MM Fiber Coupled Transmitter Modules

- V25-850 Multi Mode (To 25 Gbit/s)
- V40-850 Multi Mode (To 40 Gbit/s)



Transmitter Module



Receiver Module

## • MM Fiber Coupled Receiver Modules

- D30-850M (To 40Gbit/s)
- D25-980M (To 30Gbit/s)

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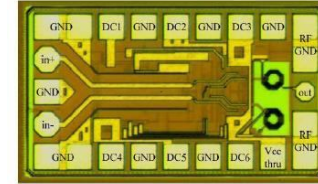
*V-I SYSTEMS GmbH*

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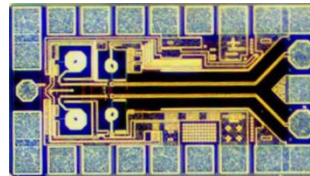
High Speed VCSEL driver chip (25 to 40Gbit/s)

D40-300C



VCSEL Driver IC Up to 40 Gbit/s

A40-300C IC



Transimpedance Amplifier 40 Gbit/s

T40-150C IC



R40-980M Ultrahigh-Speed ROSA  
Receiver Subassembly (up to 40 Gbit/s)



A40-850M Ultrahigh-Speed TOSA  
Transmitter Sub assembly (up to 40 Gbit/s)

## FoCos Optix: Product Experience

- Optical Filters
  - From UV (340nm) to the Far IR (10.6 microns)
- Detector Optics
  - Si, GaAs, InGaAs, InSb, HgCdTe, etc.
- Fiberoptics
  - TX/RX , ROSA/TOSA, Transceivers & Transponders, etc.
  - MEMS based VOAs, Channel Equalizers, etc.
- Subsystems
  - EDFA , ASE Sources, Lidar, etc.

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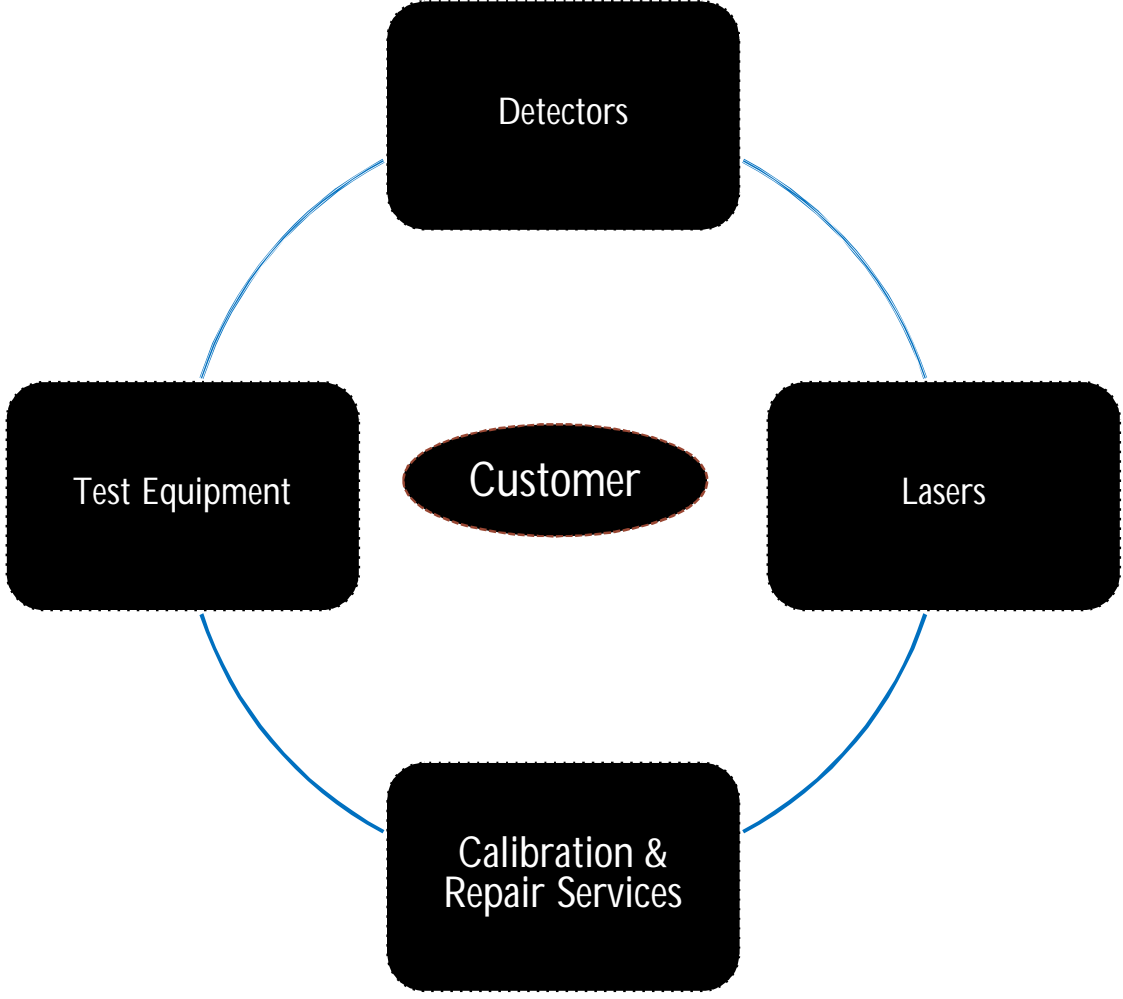
## Our Focus:

- Customers
- Business Partners
- Products
- Services
- Quality

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*Thank you for your time and consideration.*

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