Q.ANT
Photonic Quantum Technologies


QANT

The Q.ANT Vision

We are ...

Revolutionizing the

Quality

how

Machines

Analyze

their environment

People

Notice

information

and the way

Humans

Think

QUANTUM TECHNOLOGY MEETS PHOTONICS

The Q.ANT Values

Who we are and the way we work

Q

Quality
in its products and
in everyone‘s work

A

Anticipating
of tomorrow‘s challenges
of our customers

N

Novelty
and the desire to
shape the future

T

Team
Which everyone
can rely on to 100 %

This is Q.ANT
in figures, data and facts

2018 Foundation	4 Product Lines	1.600 sqm Workspace
68 Q.ANTies	11 Nationalities	6 Publicly funded projects
23 Patent Families	2 World Premieres	7 Coffee machines

Q.ANT delivers Photonic Quantum Technology

for industrial applications together with our partners

Electron to photon conversion

- Solid state diodes
- Low-noise current drivers

Quantum controls

- Nonlinear waveguides
- Tailored optical elements

Exemplary application

Photon to Electron conversion

- Low-noise amplifiers
- Analog to Digital conversion
- Signal process

QUANTUM TECHNOLOGY MEETS PHOTONICS IN 4 PRODUCT LINES

Q.ANT will grow towards Quantum Sensing and Quantum Computing
based on strong Enabling Technologies

Particle Metrology

Sensor for analyzing finest particles in gases, liquids and as powders.

- Chemistry, pharma and food processing
- Algae and bacteria analysis
- Material characterization

Atomic Gyroscope

Sensor for stabilization and localization of systems

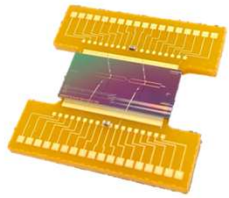
- Satellite leveling
- Indoor Automated Guided Vehicle (AGV) Localization

Magnetic Sensing

Sensor for measuring finest signals in magnetic fields.

- Prosthesis control by neuronal signals
- Outdoor Automated Robotic Localization
- Human-Machine Interface

Photonic Computing



Photonic Chips and Computing for solving complex algorithms

- Quantum Computing
- Complex Optimization
- Neuromorphic Computing


QANT