

Keysight Technologies Overview

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Space and Satellite Mission Assurance Group



Keysight Technologies at a Glance

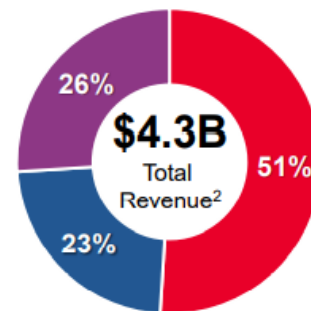
WORLD'S PREMIER DESIGN, TEST AND MEASUREMENT SOLUTIONS COMPANY

- \$4.2B in Revenue FY20
- Member of S&P 500 (KEYS)
- Operating in 100+ countries
- 13,600+ employees
- HQ in Santa Rosa, California
- AS9100D Certified (Quality Management)



Ron Nersesian
President and CEO

FY19 REVENUE MIX



- Commercial Communications: **\$2.2B**
- Aerospace, Defense and Government: **\$1.0B**
- Electronic Industrial: **\$1.1B**



- 40% Americas
- 17% Europe
- 43% Asia-Pacific

A Legacy of Innovation

FOR 90 YEARS AND COUNTING – FROM HP TO AGILENT TO KEYSIGHT



Jan. 6, 1942.

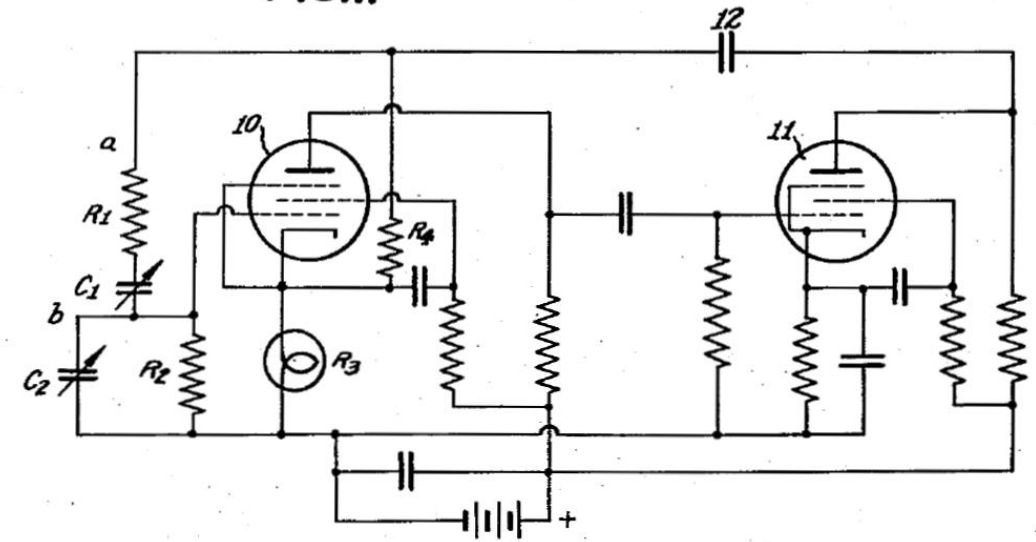
W. R. HEWLETT

2,268,872

VARIABLE FREQUENCY OSCILLATION GENERATOR

Filed July 11, 1939

FIG. 1.



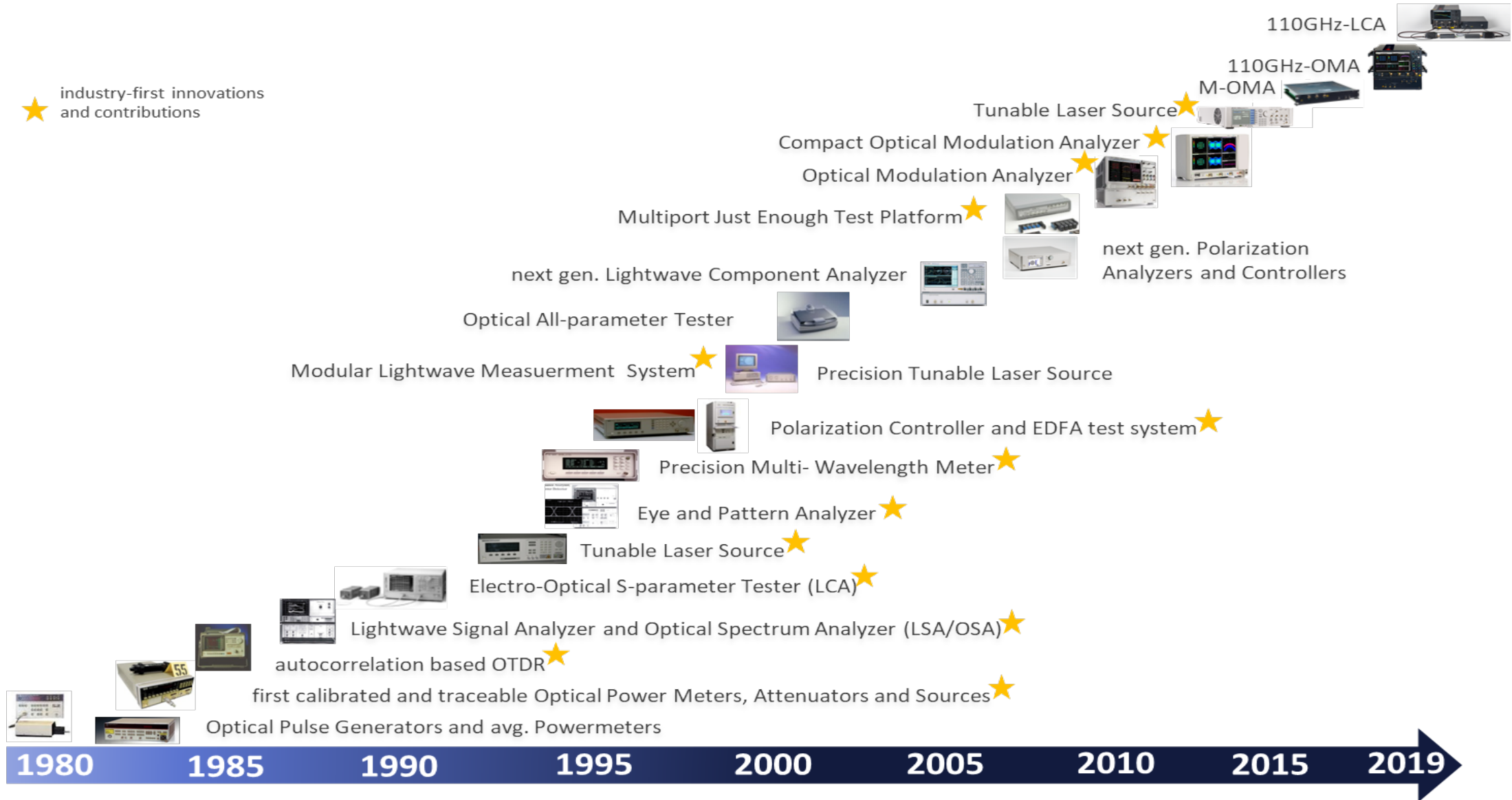
What Can Keysight Do For You?

WORLD'S PREMIER DESIGN, TEST AND MEASUREMENT SOLUTIONS COMPANY

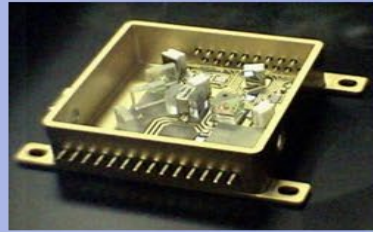
- Simulation Software
 - ADS
 - Eesof
- Basic Instruments
 - Multimeters
 - Power Supplies
- Advanced Instruments
 - Oscilloscopes
 - Network Analyzers
 - Modulation Analyzers
- Automation Software/Systems
 - Test Automation
 - Manufacturing Automation
- Network Testing
 - Protocol and Load Testing
 - Cloud Testing
 - Network Monitoring and Security
- Advanced Instruments
 - Oscilloscopes
 - Network Analyzers
 - Modulation Analyzers

Photonic Test - 40 years of continuous innovation

★ industry-first innovations and contributions

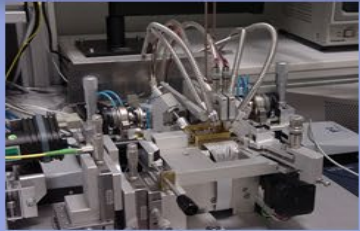


Optical Technology Center - Key Processes



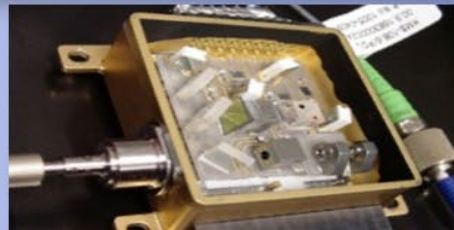
Pick & Place of high precision optics:

- high precision placement
- sensitive optical components
- deal with large physical dimension tolerances



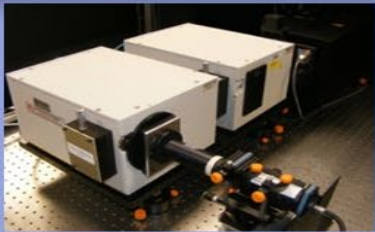
Build and optimize opto-mechanical assemblies:

- Tweak performance by in process active alignment
- Find sweet spot within $1\text{ }\mu\text{m}^3$ range
- Glueing/bonding techniques for long term reliability



Fiber coupling:

- optimized for lowest loss & highest reliability
- in process active alignment in 6 axis incl. rotation
- required precision accuracy in sub μm range



Metrology:

- Maintaining diverse optical standards for Agilent
- Traceable to NIST and PTB

We Sharpen the Cutting Edge of Technology

WORLD'S PREMIER DESIGN, TEST AND MEASUREMENT SOLUTIONS COMPANY

- Quantum Computing
- 400G/800G
- 5G/6G
- Internet of Things (IOT)
- Defense Systems
- Automotive RADAR
- Satellite Communications
- RFIC and MMIC