

NEWSPACE MARKET · COMPANY PROFILE



OroraTech GmbH

Germany · founded 2018 · ororatech.com

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as of 20 August 2026

OroraTech GmbH

OroraTech was founded in 2018 as a spin-off from the Technical University of Munich (TUM), with the mission of using satellite thermal infrared technology to detect and monitor wildfires earlier and more comprehensively than any ground-based or aerial system. The company builds and operates a constellation of small satellites equipped with Long-Wave Infrared (LWIR) sensors and proprietary onboard processing capable of detecting hotspots as small as a single burning tree. The OroraTech system combines thermal payloads, direct-downlink ground station infrastructure, and more than 100 proprietary algorithms to move from raw satellite data to actionable wildfire alerts in near-real time. By processing data onboard each satellite and distributing ground reception antennas close to customer regions, the system cuts fire detection latency from hours to minutes — providing civil protection agencies, foresters, and infrastructure operators with early warning critical for containment response. Beyond wildfire detection, the company is expanding its LWIR technology toward Land Surface Temperature and Sea Surface Temperature monitoring for climate resilience applications. OroraTech achieved a 30-minute average global revisit time for wildfire hotspot detection and is continuing to grow its satellite network. In 2026, the company supported the launch of the Hellenic Fire System, a dedicated country-optimized constellation for Greece.

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SERVICES

Services

Customizable Incident Overview Provides a customizable display of relevant data for effective decision-making during fire incidents.	Fire Spread Simulation Analyzes crucial fire drivers like weather, topography, and fuel to estimate potential fire spread, aiding in effective response strategies.
Post-fire Impact Analysis Quantifies burnt areas and estimates losses using advanced technology for high-resolution mapping and historical data analysis.	Wildfire Intelligence Integration via API Allows seamless integration of wildfire intelligence data into existing customer workflows through an API.
Wildfire Management Platform Provides a comprehensive platform for wildfire detection, monitoring, and analysis, leveraging satellite data and AI to offer insights for risk assessment, early detection, near-real-time monitoring,	

Product catalogue

ORORATECH GMBH

OroraTech Wildfire Intelligence Platform

Near-real-time wildfire detection and monitoring service from thermal satellite constellation — 15-minute revisit globally, AI-powered early detection, 30 m resolution, SaaS delive

Revisit frequency	~15 minutes (global)
Thermal resolution	30 m
Detection capability	Active fire fronts, fire spread, burnt area
Delivery	SaaS API, web platform
Coverage	Global, 1B+ hectares annual monitoring
Customers	40+ countries
Data sources	OroraTech constellation + third-party satellites

price on request



ORORATECH GMBH

OroraTech Wildfire Solution

OroraTech's Wildfire Solution is a global wildfire management platform that combines thermal-infrared satellite imagery with AI-driven analytics to detect, monitor, and predict wil

Satellite constellation	14 OroraTech satelllites in Low Earth Orbit (LEO)
Combined thermal satellite network	35+ satellite sources (OroraTech + public satelllites)
Coverage	Continuous global coverage, 24/7 high-resolution data
Detection method	Thermal infrared (heat detection) with pixel-level temperature measurement
Operating conditions	Day, night, and through smoke
Users	Users in 25 countries
Company presence	Employees on 5 continents

price on request



ORORATECH GMBH

Wildfire Solution Platform

End-to-end satellite-based wildfire early detection and monitoring system — thermal IR constellation, 30-minute revisit, onboard processing, near-real-time alerts, direct downlink,

Detection Capability	Hotspots as small as a single tree
Spectral Type	Long-Wave Infrared (LWIR) thermal
Revisit Time	~30 minutes average (global)
Processing	Onboard fire detection + direct downlink
Ground Algorithms	100+ proprietary fire detection algorithms
Latency	Near-real-time alerts (minutes vs. hours for traditional)
Outputs	Fire alerts, spread prediction, burnt area, LST

price on request

Contact OroraTech GmbH

Open the company profile on NewSpace Market to see full specifications and datasheets, and to send a request for quotation that reaches the manufacturer directly.

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