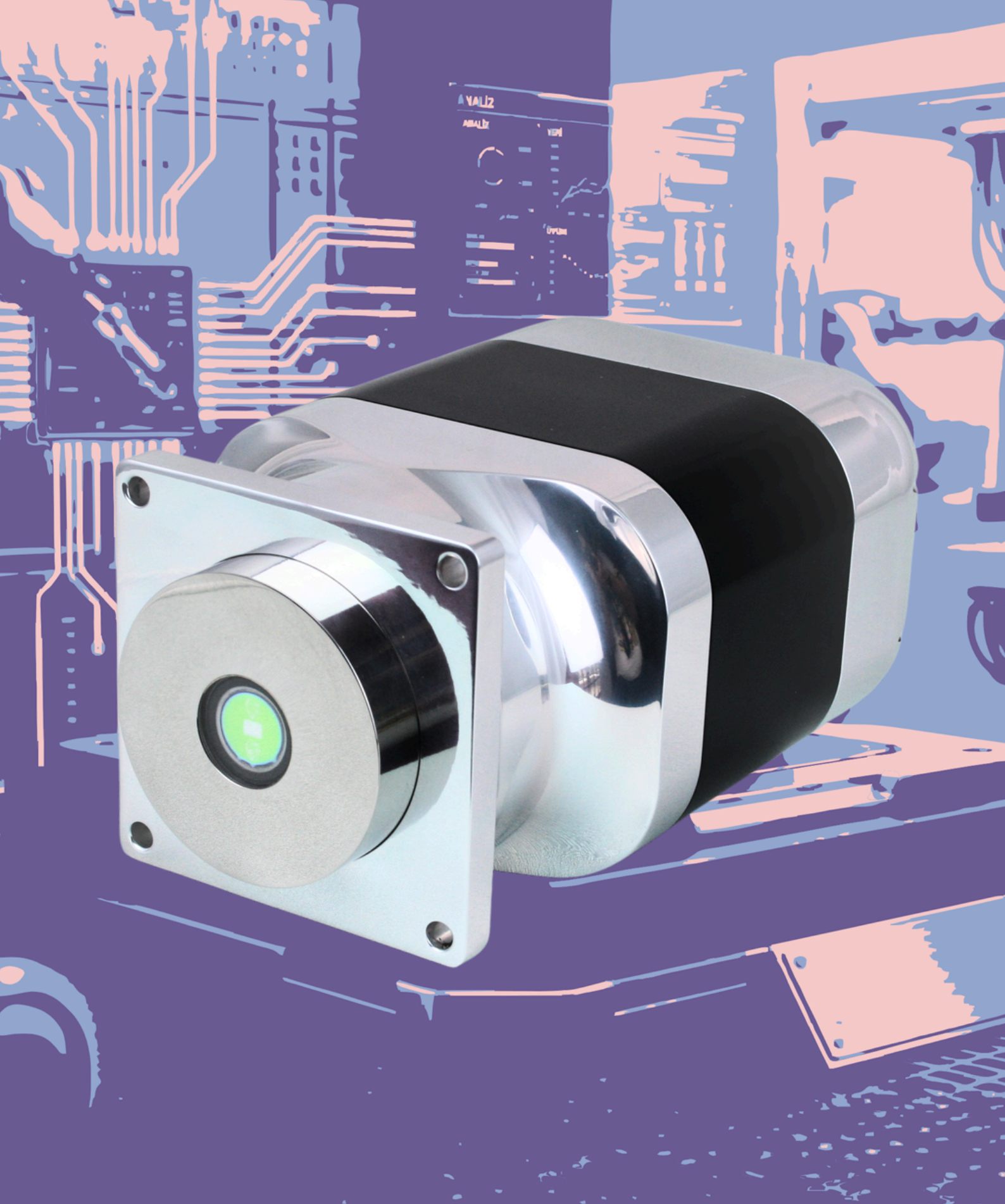




USTECH
INNOVATIONS

USTECH ProLine17EC

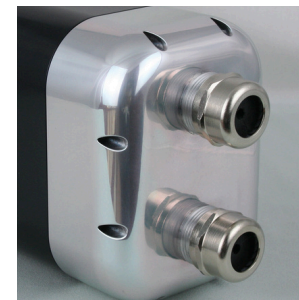
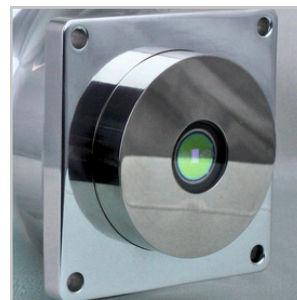
Continuous Analysis, Real-Time Quality



USTECH ProLine17EC

Continuous Analysis, Real-Time Quality

USTECH ProLine17EC is an advanced Near-Infrared (NIR) spectroscopy platform that enables continuous, real-time monitoring of key production parameters within seconds. Seamlessly integrated into the production line without a bypass, it offers end-to-end traceability while enhancing yield, operational efficiency, and profitability from raw material intake through final product approval.



Measurement Number	Material	Parameter	Value	Unit	Measurement Number	Material	Parameter	Value	Unit
Sample 1	COGNAC	1.70	1.20	1.10	1.10	1.10	1.10	1.10	1.10
Sample 2	COGNAC	1.70	1.20	1.10	1.10	1.10	1.10	1.10	1.10
Sample 3	COGNAC	1.70	1.20	1.10	1.10	1.10	1.10	1.10	1.10
Sample 4	COGNAC	1.70	1.20	1.10	1.10	1.10	1.10	1.10	1.10
Sample 5	COGNAC	1.70	1.20	1.10	1.10	1.10	1.10	1.10	1.10
Sample 6	COGNAC	1.70	1.20	1.10	1.10	1.10	1.10	1.10	1.10
Sample 7	COGNAC	1.70	1.20	1.10	1.10	1.10	1.10	1.10	1.10
Sample 8	COGNAC	1.70	1.20	1.10	1.10	1.10	1.10	1.10	1.10
Sample 9	COGNAC	1.70	1.20	1.10	1.10	1.10	1.10	1.10	1.10
Sample 10	COGNAC	1.70	1.20	1.10	1.10	1.10	1.10	1.10	1.10
Sample 11	COGNAC	1.70	1.20	1.10	1.10	1.10	1.10	1.10	1.10
Sample 12	COGNAC	1.70	1.20	1.10	1.10	1.10	1.10	1.10	1.10
Sample 13	COGNAC	1.70	1.20	1.10	1.10	1.10	1.10	1.10	1.10
Sample 14	COGNAC	1.70	1.20	1.10	1.10	1.10	1.10	1.10	1.10
Sample 15	COGNAC	1.70	1.20	1.10	1.10	1.10	1.10	1.10	1.10
Sample 16	COGNAC	1.70	1.20	1.10	1.10	1.10	1.10	1.10	1.10
Sample 17	COGNAC	1.70	1.20	1.10	1.10	1.10	1.10	1.10	1.10
Sample 18	COGNAC	1.70	1.20	1.10	1.10	1.10	1.10	1.10	1.10
Sample 19	COGNAC	1.70	1.20	1.10	1.10	1.10	1.10	1.10	1.10
Sample 20	COGNAC	1.70	1.20	1.10	1.10	1.10	1.10	1.10	1.10

High-Precision Spectroscopy

Powered by a high-performance InGaAs photodiode array covering the 950–1650 nm spectral range, the system provides rapid, high-quality spectral acquisition with outstanding sensitivity and repeatability for demanding analytical applications.

Flawless Process Integration

The system incorporates a 316 stainless steel housing and a 3 mm food-grade sapphire optical window with O-ring sealing to provide exceptional durability under harsh operating conditions. Its IP65-rated construction supports direct installation on the process line while ensuring reliable long-term performance.

Continuous & Instant Data Flow

Produces analytical results in as little as 2 seconds, with typical analysis completed within 2–20 seconds (maximum <30 seconds). Real-time data is delivered directly to your control systems, allowing immediate process optimization and enhanced operational efficiency.



Technical Specifications

Function Range	0-(+35) °C
Ingress Protection	IP65
Dimensions(DxL)	96mm x 180mm
Material	Stainless Steel 316
Software	ProChem for Instrumental Control
Wavelength Range	950-1650 nm
Sample Type	Direct measurement of solid and liquid samples in ground or unground form (including pellets)
Parameters	Fat, protein, moisture, ash, starch and crude fiber

Industry Applications



Food & Feed

Deliver consistent product quality while maximizing process performance across the entire production chain. Real-time NIR analysis provides immediate measurement of protein, fat, moisture, starch, and other key quality attributes in powders, liquids, pellets, and bulk materials—without the need for sample preparation.



Pharmaceutical & Chemical

Enable reliable in-line quality control with fast, non-destructive analysis. The system continuously monitors APIs, raw materials, intermediates, and critical process parameters, supporting regulatory compliance, batch consistency, and safer manufacturing by eliminating unnecessary sampling.



Bioenergy & Biomass

Optimize biomass conversion with continuous in-line quality monitoring. Real-time measurement of moisture, ash, cellulose, lignin, and additional process parameters helps maintain consistent feedstock quality, increase energy output, and reduce production costs.

Our Core Commitments to You

"The Standard in Spectroscopy" is our commitment to your success. We provide cutting-edge analytical solutions so you can focus entirely on optimizing production, streamlining workflows, and ensuring uncompromised product quality.



Innovative

We leverage advanced technological expertise to develop state-of-the-art solutions—like direct measurement systems—that redefine laboratory standards.



Reliable

We guarantee precision and reproducibility, ensuring consistent, lab-grade results you can trust in every analysis.



Effortless

We simplify your daily workflow with intuitively designed instruments requiring zero-to-minimal sample preparation.



Cost-Effective

Maximize economic benefit by completely eliminating the need for expensive consumables, toxic reagents, and time-consuming methods.



Safe & Clean

We prioritize operator safety and the environment through robust housing architectures and chemical-free analytical processes.



Fast

Empowering rapid decisions with instant insights. We deliver accurate results in under a minute to keep your production moving.

CONTACT US

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