

NIR ANALYZERS INFRALUM FT-12 and INFRALUM FT-12 WholeGrain

FOR THE TOTAL GRAIN, OILSEEDS & FEED QUALITY CONTROL



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 Rapid analysis of grain quality parameters (determination of protein, moisture, gluten content, glassiness and other parameters of wheat)

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LUM FT-12

- Determination of oil content, protein and other quality parameters of interest in cereal grains and oilseeds, and processed products.
- Analysis results are obtained within 1.5 minutes, no reagents required.

NIR analyzers InfraLUM FT-12 and InfraLUM FT-12 WholeGrain are costeffective instruments for monitoring the grain quality parameters

Used for process inspection of whole grains at all stages in the agricultural chain, from crop management, grain trading, grain processing and storage to flour production

Grain elevators and grain terminals	NIR Analyzers InfraLUM FT-12 and InfraLUM FT-12 WholeGrain provide incoming grain quality control in each truck for grain storage and bulk handling according to prescribed quality parameters. The determination of the grain quality in each truck reduces the risk of inadequate grain placing in a grain silo and makes grain quality adulteration less probable. The use of NIR analyzers makes it possible to reduce the downtime of the grain delivery trucks in queue during harvest campaign.
Oilseed processing plants	InfraLUM FT-12 provides the determination of oil content in a wide variety of oilseeds in each lot. The quality control of pressed oil and byproducts (oilseed meal, cake) may be done with the same instrument.
Grain trading com- panies	The use of NIR analyzers equipped with unified corporate calibration software provides the integ- rity of the quality assurance testing at all company's facilities.
Feed production	InfraLUM FT-12 provides quality control of ingredients of the feed and final product



Advantages

- Simultaneous determination of all the parameters of interest within 1.5 minutes.
- The highest accuracy of measurements provided by the use of FTNIR spectrometry.
- Rapid whole grain analysis with no sample preparation no milling or grinding.
- No reagents or consumables required.
- Easy to operate.
- Open calibration models (the possibility of extending existing calibrations: expand their range and accuracy).
- Capability of regional (corporate) networking with unified calibrations.
- \cdot Capability of extending the range of sample types and parameters of interest.
- Full service at your territory.
- State-of-the-art user friendly software.

Operation

The analyzer is operated by the licensed software package SpectraLum/PRO (Certificate 990592). This multilingual software provides the analysis of samples automatically saving all the results and allows for addition and development of customized calibration models.



Methods

LUMEX offers developed calibrations for a number of all the agricultural/food product samples and parameters/constituents: barley, corn, rice, soya, rye, oilseeds, wheat flour, bran, meal, etc.



Main application examples

		«InfraLUM® FT-12»	«InfraLUM® FT– 12 WholeGrain»
Wheat grains	Protein, moisture, gluten, fat, fiber, glassiness	•	•
Wheat flour	Protein, moisture, gluten, ash, whiteness	•	
Corn	Moisture, protein, oil, fiber, starch	•	•
Barley	Protein, moisture, fiber	•	•
Soybeans	Moisture, protein, oil, fiber	•	•
Soya flour	Moisture, protein, oil, fiber	•	
Rapeseed	Moisture, oil, protein, erucic acid, glucosinolates	•	•
Oilseeds	Oil content, moisture, protein	•	
Sunflower oil	Phosphorus content	•	
Rye (grains)	Moisture, starch, protein, fiber, ash	•	•
Rye flour	Moisture, ash	•	
Hay, haylage	Protein, moisture, fiber, fat	•	
Compound feed	Protein, moisture, fat, ash, fiber	•	
Oats	Protein, moisture, fiber	•	•
Triticale	Protein, moisture, fiber	•	•
Peas	Protein, moisture	•	•
Fish flour	Protein, moisture, fat, phosphorus, ash	•	
Yeast	Protein, Barnstein protein, moisture	•	

SPECIFICATIONS

	InfraLUM FT-12	InfraLUM FT-12 WholeGrain	
Measuring time	1.5 min		
Sample volume	50 ml	500 ml	
Spectral range	13200–8700 cm ^{,1} (760–1150 nm)		
Resolution	8, 16, 32, 64 cm ^{,1}		
Dimensions and weight	530x450x380 mm, 32 kg	530x485x495 mm, 32 kg	
Power consumption	110 W		
Power requirements	~110/220 VAC, 60/50 Hz		
Verification	Once a year		

RECOMMENDED DELIVERY SET AND THE TERMS OF INSTALLATION

InfraLUM FT-12	InfraLUM FT-12 WholeGrain
NIR analyzer InfraLUM FT-12	NIR analyzer InfraLUM FT-12 WholeGrain
Set of measuring cells and calibration databasesCalibration databases (in accordance with a list of parameters of interest)(in accordance with a list of parameters of interest)parameters of interest)	
Industrial computer with a touch screen or personal co	mputer with Windows [®] OS, CD–ROM, 2 free USB ports
Installation/commissioning including p	ersonnel training at the Customer's site

NIR analyzer InfraLUM FT-12

NIR analyzer InfraLUM FT-12 is a new versatile instrument that provides analyses of not only wheat and other cereal crops but also of oil-seeds, flour, compound feed raw materials, hay, haylage, fish flour, yeast and mineral fertilizers.

NIR analyzer InfraLUM FT-12 shows high-performance in rapid analysis of other food products and raw material for their production, such as minced meat, raw milk and dry milk, curds, cottage cheese, etc.

It is possible to extend the list of objects and parameters of interest.

NIR analyzer InfraLUM FT-12 WholeGrain

NIR analyzer InfraLUM FT-12 WholeGrain is a whole grain analyzer, intended specifically to cope with routine tasks of whole grain analysis.

Specific features

- Automatic filling the sample into cell provides high-precision result of analysis.
- Automatic adjustment of the cell optical path length according to the analyzed product. No need to choose the cell before analysis.
- Automatic monitoring of grain and ambient temperature.

Operation with the instrument



Fill the sample cell, choose the analyzed product in the menu and start the measurement.





Result obtained in 1.5 minutes.

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Samp		Customer		tat
Com	HR001	Good mil		REPORT
True	k M-SL777		1	REPOR
				OPTION
	Property / constituent	Result		
1	Protein	12,8	%	EXT
2	Moisture	11.8	%	
3	Gluten	20.2	%	

The information and specifications in this publication are subject to change without notice.

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Operation with the instrument

Fill the grain into the shaft, choose the ana-

