

Portable whole Grain and Flour Analyzer

Portable,
on farm
Near Infrared
Analyzer for fast
and precise
qualification of
whole grain, oil
seeds and flour



Portability

The small size and light weight of Mininfra Scan-T^{Plus}® grain analysers make it possible to use the device on more locations, on the farm, or even on the field. Mininfra Scan-T^{Plus}® is delivered with a metal case in order to make the transportation safe and easy. The device can be operated at 12V power supply too, e.g. powered by a common cigar lighter of a car.

High accuracy

A high speed rotating light beam scans the sample on a large surface and measures the spectrum of the sample at selected wavelengths. During the 1 minute measurement time the instrument makes hundreds of elementary measurements which ensures accurate analysis and excellent repeatability.

User friendly interface

The sophisticated electronics, the large 7" colour touchscreen, and the user friendly menu setup provide an ergonomic user interface. Automatic setting of the pathlength make the handling a very easy task.

Sample handling

Mininfra Scan-T^{Plus}® devices apply sample holder for sample presentation: different sample holders (cuvettes) are delivered depending on size of the kernels to provide the appropriate pathlength for the analysis. The cuvettes of Mininfra Scan-T^{Plus}® are robust, easy to use and clean.

Contact:

Addr: H-2011 Budakalász Pomázi út 24., Hungary
Tel.: (+36) 212 400 344
Mob.: (+36) 20 358-5729
E-mail: info@infracont.hu

www.infracont.hu

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Calibrations:

Product	Moisture	Protein	Gluten	Oil	Oleic acid	Starch	Zeleny-index	W	Ash
Wheat	+	+	+	-	-	-	+	+	-
Barley	+	+	-	-	-	-	-	-	-
Corn	o	o	-	o	-	o	-	-	-
Flour	o	o	o	-	-	-	-	-	o
Semolina	o	o	-	-	-	-	-	-	o
Soymeal	o	o	-	-	-	-	-	-	-
Durum	+	+	+	-	-	-	-	-	-
Rye	+	+	-	-	-	-	-	-	-
Triticale	+	+	-	-	-	-	-	-	-
Rapeseed	o	-	-	o	-	-	-	-	-
Soybean	o	o	-	o	-	-	-	-	-
Sunflower seed (hulled)*	o	-	-	o	o	-	-	-	-
Rice	o	o	-	-	-	-	-	-	-

+: included in the price

o: optional

-: not available

*: calibrations under development

Technical data:

Voltage:	88-264 VAC universal input
Power consumption:	35 VA .
Dimensions WxHxD:	205x235x360 mm
Weight:	8 kg
Measuring time:	1 minute
Sensing area:	30 cm ²
Sample amount:	ca. 100 cm ³ (for wheat)
Operating temperature range:	10 – 45 °C
Optics:	Grating monochromator
Wavelength range:	790-1064 nm
Wavelength accuracy:	0,1 nm
Wavelength repeatability:	0,02 nm
Detector:	Si PIN diode
Light source:	Tungsten halogen lamp (12V/20W)
Handling interface:	Touch screen
Display:	5,7" color LCD
Computer and operation system:	Colibri XScale PXA270, Linux
Printer:	Thermal graphic panel printer
Port:	USB 2.0 port

Cuvettes:

Product	Type of Sample Holder	Thickness (mm)	Accessory
Wheat, barley, triticale, rye, durum, sunflower seed (hulled)	A	18	+
corn	B	30	o
flour, soymeal	C	4	o
rape-seed	D	8	o
soy bean, rice	E	26	o
semola	F	7,5	o

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