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GSSA™ GRAIN STORAGE SYSTEMS AUSTRALIA

# CropScan

## Model 1000B Whole Grain Analyser

CropScan 1000B is a Near Infrared Transmission Analyser designed to measure protein and moisture in whole grains of wheat and barley. An optional test weight module is available for the CropScan 1000B. The CropScan 1000B Whole Grain Analyser uses a diode array spectrometer to scan the wavelength region, 720-1100nm. Within this region of the NIR spectrum, protein, moisture and starch absorb NIR energy.

Grain is poured into the specially made sample cup. A blade is inserted across the grain and the excess grain is poured out. The blade is removed from the cup and the 500ml of grain is poured into the sample hopper. The grain is metered through the optical chamber where the NIR spectra are collected and stored in memory. The average of between 15 and 30 spectra are used to compute the percentage protein and moisture. The grain falls into the sample cup which is located on a load cell. The weight of the 500ml of grain is recorded and displayed along with the protein and moisture.

***Australian designed and manufactured***

| Features | Benefits |
|---|---|
| NIR Transmission Technology | Same NIR technology as used by AWB, Graincorp, CBH and Ausbulk |
| Flow Through Sampling System | Rapid and simple to use |
| Optional Test Weight Module | Provides Hectolitre weight measurement |
| Diode Array optics | Unaffected by vibration<br>Independent of orientation<br>Rugged, stable and compact |
| Internal Computer keyboard, LCD | Stores calibrations and predicts constituents onto a LCD<br>Save results using alpha numeric characters |
| RS232 Serial Port | Provides a convenient method of uploading stored data to a PC or to download calibrations to the instrument |
| Small footprint | Requires less bench space |
| **Specifications** | |
| Scan range | 720-1100nm |
| Constituents | Up to 6 constituents displayed including protein, moisture, test weight |
| Pixels | 38 |
| Scan speed | 2-4 seconds |
| Power | 110/240VAC, 18VDC |
| Weight and dimension | 12kg, 330mm(W) *300mm(D)* 400mm(H) |

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CropScan