



# NIR-CS-2000C2H-1

## Model 2000H On Header Analyser

The 2000H is a powerful Near Infrared spectrophotometer capable of measuring protein and moisture in wheat and barley, oil and moisture in canola, protein, oil and moisture in soybean and corn. The instrument consists of a NIR Spectrometer, a Remote Sampling Device and a Remote Display Module. The NIR Spectrometer is mounted inside the cabin of the header. The Remote Sampling Device is mounted on the clean grain elevator and is connected to the NIR Spectrometer using a Fibre Optic Cable. Grain falls through a hole in the upside of the clean grain elevator and into the Remote Sampling Device, where a sample of grain is trapped in a sample cell. NIR light passes through the grains and is transmitted back to the spectrometer via the fibre optic cable, where the NIR spectrum is generated and the percent protein, oil and moisture are calculated.

The Remote Display Screen displays real time protein and moisture data in either tabular form or as a "On the go" paddock map. Data is stored on board for uploading to a PC for developing more sophisticated paddock maps.



*Australian designed and manufactured*

Features	Benefits
NIR Transmission Technology	Same NIR technology as used throughout world grain trade
Remote Display Module	Provides real time data and displays plus data storage
Broad Spectral Range, 720-1100nm	Multiple constituent analysis Optimum calibration development PLS calibrations 1st and 2nd derivative spectral data Qualitative and quantitative analysis
Diode Array Optics	Unaffected by vibration Independent of orientation Rugged, stable and compact
RS232 Serial and USB Port	Provides a convenient method of uploading stored data to a PC or to download calibrations to the instrument
Rugged Industrial Enclosure	Suitable for in field and at line use Dust proof
Specifications	
Scan Range	720-1100nm
Pixels	38
Analysis Speed	6-10 seconds per analysis
Power	110/240VAC, 19VDC
Physical	NIR Spectrometer 9Kg, 200mm(W) x300mm(D) x120mm(H) Sampling Head 5Kg, 250mm(W)x350mm(D)x100mm(H)