

CombiScope™ FTIR

600 HP

AOAC, IDF,
NCIMS and FDA
compliant



Dairy Herd Improvement & Milk Payment Laboratories

Official Methods:

- ISO 9622/IDF 141, 13366-2/IDF 148-2
- Microval certified according ISO 8196-3, 13366-2
- EURL MMP criteria, certificate no 2015LR57
- NCIMS and FDA approved method
- Uses AOAC approved methodology
- ICAR certified



DELTA INSTRUMENTS IS NOW A PART OF PERTENT INSTRUMENTS

High Volume / High Speed Milk Analyzer for Composition and Somatic Cell Count

The system consists of:

1. A component analyzer (LactoScope™ FTIR)
2. A somatic cell counter (SomaScope™ LFC)
3. A sample handling system



The Delta CombiScope™ FTIR 600 HP milk analyzer provides the highest sample throughput available for routine analysis of cow, goat, sheep and buffalo milk. The

system consists of a component analyzer (LactoScope FTIR), a somatic cell counter (SomaScope LFC) and a sample handling system. This combination can analyze at speeds of **600 samples per hour**.

The CombiScope FTIR 600 HP incorporates the latest innovations, allowing you to easily increase the capacity and performance of your laboratory, as well as expanding your business opportunities.

Industry-Leading Capabilities for Payment and Dairy Herd Improvement Laboratories

Features and benefits of the CombiScope FTIR 600 HP

600 Samples per hour – by decreasing the turn-around time, easily increases laboratory capabilities, services and profits by combining payment and dairy herd improvement samples simultaneously.

Patented Interferometer – ensures accuracy of results, and minimizes maintenance and calibration costs for component analysis.

Somatic cell counter – uses an LED light source without loss of intensity that completely eliminates all adjustments of the gains factors.



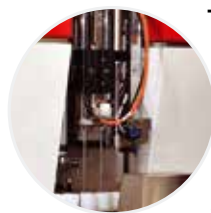
Technology for Success



Our somatic cell counter incorporates a double photomultiplier that counts twice each cell and provides a value on the quality of each analysis; the LED light source eliminates any gain adjustments; DAPI stains somatic cells accurately and is classified as non-toxic.



The advanced design of the Dynascan™ interferometer does not need dynamic alignment corrections to compensate for errors typical of linear mirror movement systems. *OpticGuard™ technology* isolates the spectrometer from external environmental effects, while two molecular sieve desiccant cartridges ensure optimal and stable internal environment.



The sample transport system's sensors identify samples with insufficient intake temperature and/or volume in advance and is able to skip unfit samples, speeding the routine analyses. The *linear electromagnetic sampling system* does not suffer mechanical wear, and incorporates an automatic tray for collecting waste from the cleaning cycles.

Sample transport system – is compatible with barcodes or RFID tags and has sensors that monitor sample's intake volume and temperature.

CombiScope Client Software (CCS) – is a modern interface with simple and intuitive operation, data handling and transfer. It can be customized to the needs of your laboratory: Multiple warnings and alarms assist the operator with monitoring and evaluating the samples characteristics and system performance, immediately notifying when these pre-established conditions are not being met.

Multiple international certifications – Such as ICAR, FDA and MicroVal. It also operates in accordance with the AOAC, IDF and FDA guidelines.



Specifications

Products: Milk

Standard Parameters: Fat, protein, lactose, total solids, FPD, NPN-CU and somatic cells

Additional parameters: Upon request

Analysis capacity: 600 samples/hour instrument speed

IR principle: Rotation scanning mechanism, Fourier Transform Infra Red

Somatic cell counter principle: LED flow cytometer

Sample intake: 6 ml

Required sample temperature: +37°C to +42°C (98.6°F to +107.6°F)

Operating system: Windows 10

Operating interface: Touchscreen, keyboard, mouse

Data transfer: UTP

Weight: Approx. 727.5 lb (330 kg)

System dimensions (D x W x H): 17.72" x 33.46" x 19.70" (45 cm x 230 cm x 50 cm)

Power consumption: 750 nominal 1200 VA Max

Power supply: 110V-240V

IP classification: IP22

Standards/approvals: Complies with ISO 13366/IDF 148-2 and ISO 9622/IDF 141.

MicroVal certified according to ISO 8196-3, ISO 13366-2, EURL MMP criteria and the

MicroVal Rules and certification scheme v.8. NCIMS and FDA approved method, EMC

directive 89/336/EC, 2004/108/EC, Low-voltage directive 73/23/2006/95EC, **CE**,

The management system governing the manufacturing of this product is ISO 9001 registered.

Uses AOAC approved methodology.

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