



## COMPLETE ROAST PROFILE SYSTEM INCLUDING **COLORTRACK DAQ CONSOLE** WITH AUTOMATIC FINISHED ROAST, COLOR AND MOISTURE MONITORING

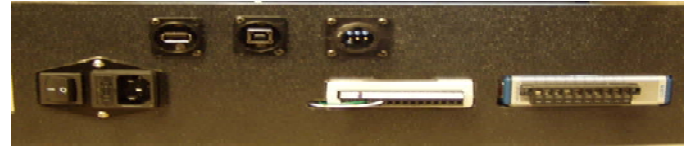
Coffee Laboratory is a contract manufacturer, distributor, and service center for analytical instrumentation, used for quality control and R & D, in the coffee, tea and agricultural sector. We partner with leading innovators in science and technology, to provide more accurate, more usable, and more cost effective instrumentation. Our systems are field tested, and come with a performance guarantee.

### HOW IT WORKS-

A PC based data acquisition system, collects signals generated by up to eight sensors. The sensors can either be (up to 4) thermocouple sensors for temperature data, rh sensors for relative humidity data, laser sensors for color data, or capacitance based moisture sensors, for finished roast moisture data.

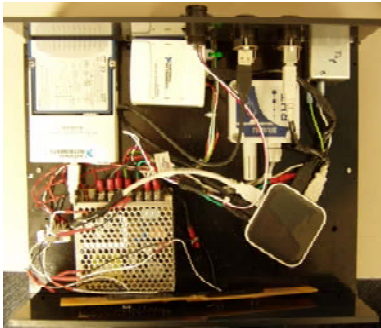


INDICATOR LIGHTS ON THE FRONT PANEL DISPLAY THE CONNECTIVITY STATUS OF EACH SENSOR



The data acquisition console has a series of inputs in the rear, where the different sensors are plugged in to.

Included with the premium roast profile, data logging system, are (2) thermo-couple sensors, (1) Novus RH Module, (1) ColorTrack Analogue Laser Module for monitoring color, and (1) SINAR Drypro Inline moisture analyzer.



DAQ CONSOLE OPERATIONAL COMPONENTS INCLUDE THE **NOVUS RH SENSOR**, AND THE **PC BASED DATA ACQUISITION MODULES**



PICTURED ABOVE IS THE **ColorTrack ANALOGUE LASER MODULE**. **ColorTrack** TECHNOLOGY, PRESENTED BY COFFEE LABORATORY, WON BEST NEW PRODUCT AWARDS IN 2009, AND 2011, AT THE SCAA CONFERENCE.



THE LASER MODULE CAN BE MOUNTED AT THE VIEWING WINDOW FOR REAL TIME COLOR MONITORING, OR OVER THE HOPPER, AFTER COOLING, FOR FINISHED PRODUCT COLOR ANALYSIS, AND LOGGING



**SINAR DRYPRO INLINE MOISTURE CONTROL BOX AND SENSOR**. SENSOR READS TOTAL MOISTURE, IN HOPPER AFTER COOLING.

The various sensing components, all generate their data in the form of a low voltage, 0-10 V DC electrical signal. These signals are then fed in to the data acquisition console, which provides its' output, via standard USB Cables to a pc, where the ColorTrack RT Software, displays and logs all of the time, temperature, rh, and color (INSTALLATION OPTION 1) data in real time, while the roast is in process. After cooling, the roasted coffee falls in to a hopper, where the color (INSTALLATION OPTION 2), and moisture, are measured, and logged automatically.



17" ADVANCED MEDICAL GRADE TOUCH SCREEN PC.

ENHANCED TOUCHSCREEN DURABILITY, AND OPERATION.

EVEN WORKS WITH PROTECTIVE GLOVES



**COLORTRACK ROASTLOG SOFTWARE** DISPLAYS ALL DATA IN REAL TIME. DATA IS AUTOMATICALLY LOGGED, AND CAN BE EXPORTED AND SAVED TO EXCEL FORMAT.