

TruBio™ Bioprocess Control Software

The TruBio™ Bioprocess Control Operating System is an open, fully configurable, Commercial Off the Shelf (COTS) software solution that has been developed with GAMP4 methods and validated for cGMP applications. TruBio™ software is pre-configured with algorithms for controlling bioprocess parameters such as pH, dissolved oxygen, temperature, agitation, pressure, foam, level, gas/liquid flow, and weight, as well as supporting redundant sensor loops such as pH or dissolved oxygen. TruBio™ software has been optimized for DeltaV-enabled TruLogic™ Controllers.



Features

- Powered by the DeltaV Controller
- “Open” fully configurable
- Embedded configurable control modules
- Scalable from R&D and PD into GMP manufacturing
- Validation and IOQ packages available

Specifications

Minimum System Requirements

DeltaV	Version 7.4 or later installed on PC
Operating System	Windows XP with Service Pack 1 or 2*
RAM	1 GB
Processor	Pentium III, 1 GHz
USB Ports	Two (minimum for hardware keys)
Network Interface Card	One

Minimum Licensing Requirements

DeltaV Pro Plus	25 DST
DeltaV AO	25 DST
DeltaV Serial License	1 port

* Windows XP with Service Pack 1 for DeltaV v7.4, Windows XP with Service Pack 2 for DeltaV v8.4

Vessel Configurations

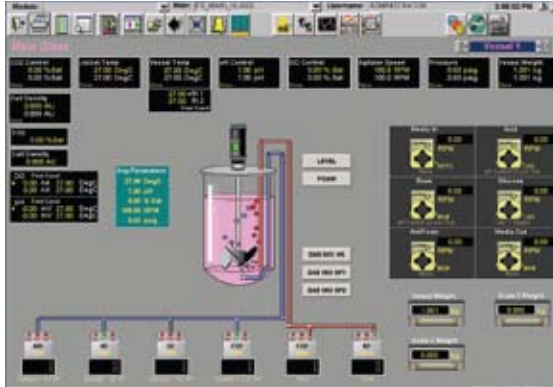
TruBio™ software is currently available for the following types of bioprocess vessels:

- glass/autoclavable
- stainless steel
- disposable rocker
- disposable stirred tank
- cell cube

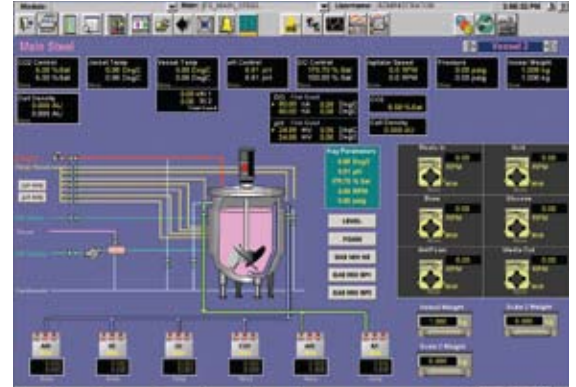
Versions

TruBio™ OS	Fully enabled version with maximum feature set for native DeltaV control
TruBio™ SCADA	Supervisory control and data acquisition system (migrations)
TruBio™ Monitor	Data logging historian system (migrations)

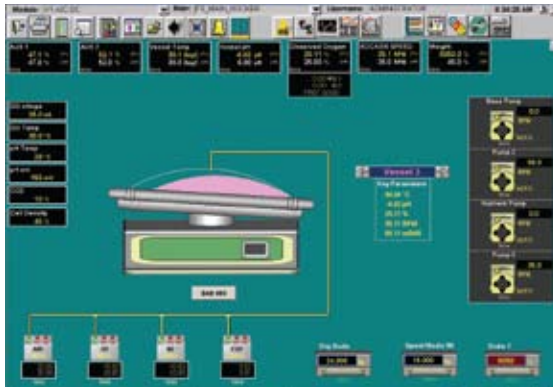
Main Bioreactors Screenshots



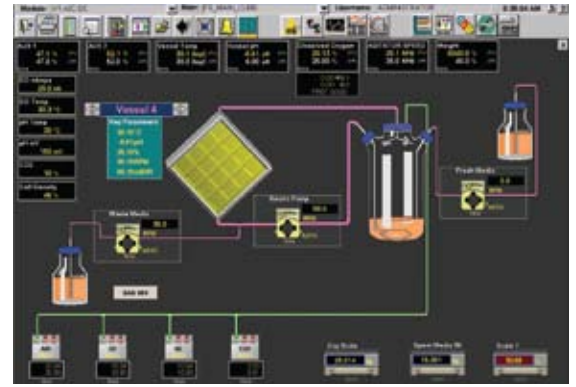
Glass



Steel



Rocker



Cell Cube



Disposable