



## BlueVIS 4.0 – The bioprocessing software

**One-for-all  
Software**

### Connect what you want

BlueVIS bioprocess software can monitor and control several processes simultaneously in a simple way **without the need for a fermenter control tower.**

Devices and sensors which are necessary to run a **PAT-conforming** process such as off-gas sensors, pH and pO<sub>2</sub> probes, pumps, stirrers and mass flow controllers already have digital outputs. **They can be connected to BlueVIS directly.**

For analog signals, **cost-effective analog/digital converters** are applied. That saves benchspace for fermenters instead of filling it up with control towers. Thanks to its open structure, BlueVIS can connect to other software/systems using the integrated OPC server/client.

Due to the **integrated OPC server/client**, BlueVIS is open to other software/systems. That means it can communicate with other systems and devices without any problems. Important process data like **CER, OUR, RQ, or  $\mu$**  are **automatically calculated** by BlueVIS. Furthermore, you can **configure existing PID controllers** yourself.

In addition, BlueVIS has a connection to MATLAB and other process control software. All data is stored in the database and visualized as freely configurable graphs. Data can be exported easily.



## Features of BlueVIS

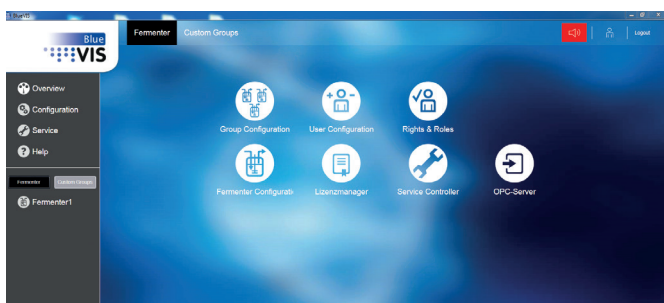
- Monitors and controls numerous processes in parallel
- No control towers needed (save bench space)
- Configure your own standard PID Controller
- Connections to MATLAB, BioCommand, MFCSSwin, Lucullus, BioExpert, Dasware, Eve and more
- Online calculation of process data like CER, OUR, RQ,  $\mu$  and biomass
- Special edition for biogas applications available
- Accepts data from different instruments of various manufacturers
- OPC Server/Client included as standard

## BlueVIS simple and cost effective licensing models

- Licences for 1, 4, 8, 12 fermenter or special biogas edition available
- Low pricings for updates to newer versions (e.g. Update BlueVIS 2 to BlueVIS 4)
- Updates within the version (e.g. BlueVIS 4) are free of charge
- YOU decide which equipment you like to use
- Save money and act sustainably: reactivate your (older) equipment

## Necessary hardware requirements

- Operating system Windows 10 64 bit or newer
- Modern processor with at least 4 cores and >2.6 Ghz (e.g. Intel i5)
- Hard disk: SSD with at least 50GB free space (>500MB/s data access)
- 16GB RAM
- Display  $\geq 24"$  1920x1080px (FHD)
- >4 fermenter  $\rightarrow$  higher performance needed



## Connectivities

- RS232
- Modbus RTU
- ModBus TCP
- OPC
- Analog