

knauerOS®

The easiest way to analyze HPLC data.

The Challenge

HPLC data is becoming increasingly complex: more detectors, more methods, more users, and all this while costs and time pressures are rising. Many CDS solutions are too expensive, too complicated, or too inflexible.

The Solution

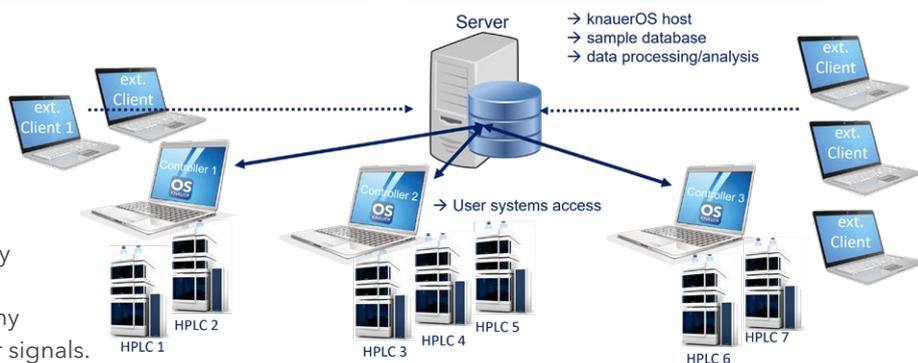
knauerOS is a modern chromatography software for the efficient acquisition, evaluation, and management of HPLC data. The software was developed to map complex chromatography workflows as simply as possible, with maximum flexibility, scalability, regulatory compliance, and cost-effectiveness.

The Result

Less software effort and costs. More clarity in the data. Faster decisions. knauerOS is the HPLC-CDS for laboratories that need maximum flexibility, ease of use, and true teamwork, today and tomorrow. knauerOS makes HPLC data analysis as easy as possible and as flexible as necessary.

Advantages

- Easy to use: intuitive interface, quick to learn → even for changing users.
- Unlimited number of users: teamwork without licensing hurdles, in the lab or remotely.
- Maximum flexibility: custom calculations, integration rules, and SST criteria → precisely tailored to the method and requirements.
- Fast data analysis: efficient evaluation of many chromatograms, even with multiple detector signals.
- Compliant & reproducible: standardized evaluations for QC, GMP, and documented processes.
- Cost-efficient & scalable: grows with your lab without increasing complexity.



Functionality

- Data acquisition & management
- Chromatographic evaluation
- Individual calculation & methods
- Collaboration & remote work
- Standardization & compliance

Application Scope

- Contract and routine laboratories with a focus on budget
- R&D laboratories with changing methods
- QC, CMO, and CDMO environments
- Universities and multi-user laboratories

Technical Highlights

- Modern, clear user interface (app)
- knauerOS Server-Client structure
- High performance, even with large amounts of data
- Scalable, from individual workstations to laboratory networking (without limitation)
- Future-proof software architecture

Clear dashboard layout

Workflow-oriented + intuitive navigation

Search & Filter options to quickly locate runs, methods, and calibration

Apply to other samples

Apply to other signals

Apply to other samples

Add calculated signal

Ratio (I)

Df

Df'

I:1

Avg

LS Size

- ✓ Browser-based
- ✓ Modern online tool
- ✓ No license restrictions
- ✓ Secure access and data processing
- ✓ Remote work with multiple team members
- ✓ No user number restrictions
- ✓ knauerOS server connection
- ✓ Highly flexible and easily scalable
- ✓ No system number restrictions
- ✓ Multi-detector support
- ✓ Full audit trail
- ✓ GMP compliance (Part 11)

knauerOS Server-Client Web Architecture

knauerOS is hosted internally (company intranet) but supports external clients (via VPN or secure connection) with no controller and no user limits.

knauerOS supports unlimited Controller set up for up to 4 HPLC systems on 1 Controller.

KNAUER Instrument list

knauerOS delivers full control for a selected range of KNAUER instruments.

- KNAUER Autosampler AS6.1L
- KNAUER HPLC Pump P6.1L LPG / HPG
- KNAUER Dosing Pump P2.1S
- KNAUER Dosing Pump P4.1S / P4.2S
- KNAUER Column Thermostat CT 2.1
- KNAUER Conductivity Monitor CM 2.1S
- KNAUER Multiwavelength UV Detector MWD 2.1L
- KNAUER Valve Unit VU 4.1
- KNAUER Diode Array DAD 2.1L
- KNAUER IFU Box 2.1
- Fluorescence Detector RF-20A
- Light Scattering Detector ELSD
- Fraction collector FOXY R1



Coming soon:

- P2.1L
- UVD 2.1S
- UVD 2.1L
- DAD 6.1L
- RID 2.1L



Order Numbers

Article	Article number
knauerOS Commercial Edition, License for 1 HPLC System (incl. 3 year Updates)	ASWKN01A
knauerOS Commercial Annual Edition, License for 1 HPLC System (incl. Updates)	ASWKN01B
knauerOS Community Edition, License for 1 HPLC System (incl. Updates)	ASWKN01C
knauerOS Demo Version (1 month testing), License for 1 HPLC System	ASWKN01D
knauerOS Commercial Edition Update (regardless of the number of HPLC systems)	ASWKN02A
knauerOS Community Edition Update (regardless of the number of HPLC systems)	ASWKN02C

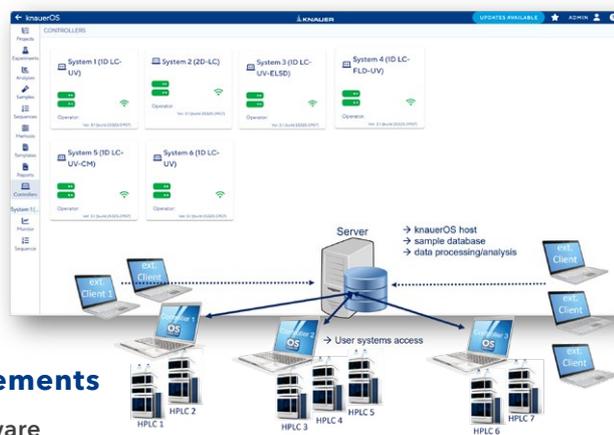
All knauerOS editions are unlimited expandable, also to build up a server-client environment. Just add additional knauerOS license edition and scale your lab workflow.

Article	Article number (DE)	Article number (EN)
Chromatography Workstation (Win 11 Pro) incl. Keyboard/Mouse/Monitor 24"	A13110	A13120



think LC. think KNAUER.

Find out more at: <https://www.knauer.net/software-knaueros>



Requirements

PC Hardware

Operating System: Microsoft Windows 11 Professional

Processor (CPU): Intel(R) Core i3 8xxx or higher (or Intel® N95 for Server)

Memory (RAM): 8 GB

Storage/Hard Disk: SSD/NVMe Minimum 120 GB capacity/ 500 GB for Server

Network Interfaces: 2x Ethernet Adapter

Graphics: Integrated GPU

Ports: depending on connected devices for Controller

Installation

Win 11 for knauerOS Server and Controller

1st step: check Microsoft.NET 8.0.xx installation version (latest version needed)

2nd step: knauerOS server installation (29 MB)

3rd step: knauerOS controller installation (25 MB)

Server-Controller Model

knauerOS Controller (on-site PC):

interfacing directly with up to 4 HPLC systems (pumps, detectors, autosamplers, and valves)

→ capturing data in real time & transmitting to a central knauerOS server

knauerOS Server (application backend):

knauerOS software host

→ handling data processing, storage, analysis, and user management

→ enables remote access from desktops, laptops, or other clients via a browser interface