# Science with Passion

## KNAUER

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| Version: | 2.0 | Authors: | MaG, PS | Date: | 24.10.2023 |

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## 1. Supported Instruments

**Pumps**
- AZURA Pumps P 2.1S/P 4.1S
- AZURA Pumps P 6.1L
- AZURA Pump P 2.1L
- Blueshadow Pump 80P

**Detectors**
- AZURA UV-Detector UVD 2.1S
- AZURA UV-Detector UVD 2.1L
- AZURA UV-Detector UV MWD 2.1L
  (4 channels, up to 50 Hz)
- AZURA Diode Array Detector DAD 2.1L
- AZURA Diode Array Detector DAD 6.1L
- AZURA Refractive Index Detector RID 2.1L
- AZURA Conductivity Detector CM 2.1S
- AZURA pH Monitor pH 2.1S
- BlueShadow 50D
- Mikron 81

**Flowmeter**

- Bronkhorst Mini Cori-Flow M12, M13, M14

**Valves**
- AZURA Valve Drives V2.1S, VU4.1
- VICI Valco Drives

**Fraction Collectors**
- ISCO Foxy R1
- ISCO Foxy R2
- LABOCOL Vario-4000, Vario-4000 Plus

**Autosampler**
- AZURA AS 6.1L

**Heating Devices**
- SCPA Eluentheater
- AZURA CT 2.1

**Interfaces**
- Interface Box IFU 2.1 LAN (Analog Inputs only)
- SCPA Ethernet Eventbox

**Assistants**
- AZURA ASM 2.1L
- AZURA ASM 2.2L

**Miscellaneous**
- SCPA External Pressure Sensors
- Gameport Adapter

## 2. Installation Requirements

| Operating Systems | Windows 10 64 Bit<br>Windows 11 |
|---|---|
| **CPU/RAM/Disc Space** | Intel Core i5 6$^{th}$ Generation or comparable/ 8 GB/ Disc Space 10GB |
| **Network** | Second network card is required for network integration |
| **Graphics** | Screen with minimal resolution 1024 x 768 |
| **Connectors and Slots** | USB for license dongle<br>COM, USB or LAN according to connected instruments |
| **Input Device** | Mouse and Keyboard |

**Language Selection**

PurityChrom6 is available in English.

**Installation and use under Windows:**

Administrator rights are necessary during installation of PurityChrom6 and the Windows User Account Control settings should be set to "Never notify" in order to deactivate the User Account Control. It may be re-activated after the installation.

The user needs write and read permission for registry and folders C:\ProgramData\PurityChrom6 and C:\Program\PurityChrom6.

PurityChrom6 needs to be excluded from Microsoft Security Essentials. Furthermore, the Windows Defender and antivirus software should be deactivated.

**Energy Saving Features**

Automatic switching to energy saving mode or hibernating has to be disabled i.e. settings for "Turn Off Hardware", "Turn off Computer" or "System Standby" must be set to "Never" in the control panels energy options.

## 3.      Release History

In the latest version R2-2, the following changes and improvements have been added or bugs have been fixed from version R1-2:

- Bug Fix: incorrect calculation of Asymmetry was fixed
- Bug Fix: incorrect calculation and naming between MPa/kPa into bar
- Bug Fix: incorrect calculationof first fraction if Set Volume Limit is used in a method

- New supported devices:
    o AZURA DAD2.1L/DAD6.1L
    o AZURA RID2.1L
    o AZURA CT2.1
    o AZURA AS6.1L
    o BlueShadow 50D

- New features:
    o High Flow Pump Systems
    o Stacked Injections
    o Valve Daisy Chaining
    o PID Controller
    o System Documentation
    o Read Out and Setting Pump Head Parameters for P4.1S
    o Read Out of Pump Head Parameters for 80P/P2.1L
    o Online Custom Annotation
    o Valve "Next Position"
    o "Notification/Service/Warning/Error" as method defined functions