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Version:	4.0	Authors:	Due, PS	Date:	21.08.2024

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1. Supported Instruments

Pumps

- AZURA Pumps P 2.1S/P 4.1S/P 4.2S (only in P 4.1S control mode)
- 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
- Fraction Collector FC6.1

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 2.1L¹
- AZURA ASM 2.2L

Miscellaneous

- SCPA External Pressure Sensors
- Gameport Adapter

¹ Only control of individual modules are supported.

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2. Installation Requirements

Operating Systems	Windows 10 64 Bit 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 COM, USB or LAN according to connected instruments
Input Device	Mouse and Keyboard

Language Selection

PurityChrom 6 is available in English.

Installation and use under Windows:

Administrator rights are necessary during installation of PurityChrom 6 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.

PurityChrom 6 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.

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3. Release History

In the latest version R2-34, the following changes and improvements have been added or bugs have been fixed from version R2-20:

- Bug Fix: Pump driver manages flowrate commands separated from read flow rate
- Bug Fix: Permission "Control Devices During Run" after user change
- Bug Fix: Time of reconstruction view is used in printout
- Bug Fix: CSV Export opens correct folder
- Bug Fix: PDF printout in landscape format with correct visualization of chromatograms
- New features:
 - o Displaying annotations in overview
 - o New permission "section: administration (audition only)" for users who should be able to see audit trail but not full user administration
 - o PID Controller module optimized for controlling pump flow based on flowmeter signal
 - o IJM mixer visualization icon got 4 instead 3 binding points
 - o Online editing for methods can be prohibited by user administration settings
 - o Support of ASM 2.2L Events
- Improvements:
 - o Pump driver includes additional security query