

WinTopas4 Quick Start Guide

To learn more, go to Topas4 Info Page at topas4info.lightcon.com

The next generation software system for OPA users **WinTopas4** consists of:

- **T4 Topas4 Server application**, providing control of the device via REST API, using JSON as data serialization format. For each physical device there is one server application and it must be running all the time.
- **T4 WinTopas4 Client application**, providing user control of the OPA device or devices, including shutter control, wavelength and interaction selection, direct motor access, tuning calibration and more.

Server application and all client applications provided by Light Conversion are written in a way to allow multiple clients to use the same device at the same time, including custom client applications, written by the API user. Server and client applications might be running on the same or on different PCs, as long as these PCs are connected to the local area network (LAN).

Note that it is recommended to keep TOPAS control board turned on all the time.

WinTopas4 Client Application Basic Control

The screenshot shows the WinTopas4 client application interface. The window title is "WinTopas4" and the address bar shows "Help/contact/update". The interface is divided into several sections:

- Device selection:** Located at the top, showing "Topas-Prime+NirUVis-Demo-1043", "Orpheus-F-Demo-2768", and "Multiple devices".
- Interaction selection:** A dropdown menu currently set to "SIG".
- Wavelength selection:** A dropdown menu currently set to "720".
- Shutter (Ctrl+S):** A button labeled "Shutter is CLOSED" with a gear icon.
- Signal and Idler:** Displays "Signal: 740 nm" and "Idler: 1669 nm".
- Messages:** A section for "Separation device 0" with a message "Use WS600-765 (mounting position - downwards)" and a checkmark.
- Recent wavelengths:** A list of wavelengths: 740, 760, 800, 700, 720, 760.
- Direct motor access:** A section for "Motors" with a table of motor parameters:

Motor ID	Motor Name	Parameter	Value	Unit
6	WLG	2.609	deg	
		2443	steps	
7	SHS crystal	0.000	deg	
		3077		
8	WS	1.921	deg	
		717		
9	ICMP	137.037	deg	
		59688		
10	SCMP	7.326	mm	
		1055	steps	
11	LYRA-RP	92.411	deg	
		414	steps	

Other interface elements include "Saved positions control" (with a list of positions: 775, long 680, 680, 350), "Output" (with a 3D model of the device), and "Mini mode" (with a slider).

Figure 1. Main window of the WinTopas4 user application

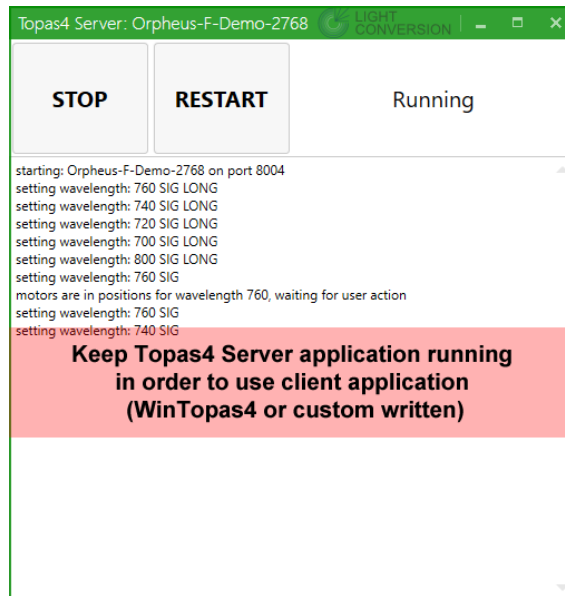


Figure 2. Topas4 Server application

Basic control:

- **Change wavelength:** type a desired wavelength from the available tuning range and press “Enter”.
- **Open/Close shutter:** press shutter button “S” or use keyboard shortcut “Ctrl+S”.
- **When interactions overlap,** press button “Interactions” to choose the interaction or a group of interactions to use, change priorities, etc.
- **Adjust individual motor position:** locate motor from the motors menu on the right, place cursor at the end of “Steps” window and use keyboard buttons “Up”/”Down” or “Page Up”/”Page Down”. Alternatively “activate” motor using keyboard shortcuts “Alt+[number]”, where [number] is key from 1 to 9 and 0 (i.e., “Alt+1” activates 1st motor in the list, “Alt+6” – 6th, “Alt+0” – 10th).

WinTopas4 Installation

WinTopas4 should be installed by a field service engineer during the set-up of the system. You can find a last configuration backup in a USB memory stick, provided with the system user’s manual:

- **“17000_Configuration.zip”** – device configuration files (where “17000” is serial number of the device). Download the latest version of WinTopas4 installer from “Light Conversion” website.
- **“WinTopas4-preconf(17169)-setup.exe”** (optional) – preconfigured installer, consisting of all system devices configuration files and WinTopas4 software. No separate WinTopas4 installation is required.

For more information please visit Topas4 Info Page.

Control from a Smartphone

If your smartphone or tablet is connected to the same local area network, it is possible to control your devices via dedicated device webpage. Within WinTopas4 software select menu tab “Misc”, scan QR code with your smartphone to get URL to the device control webpage (or use “Scan QR Code for webpage or click here” above the QR code).

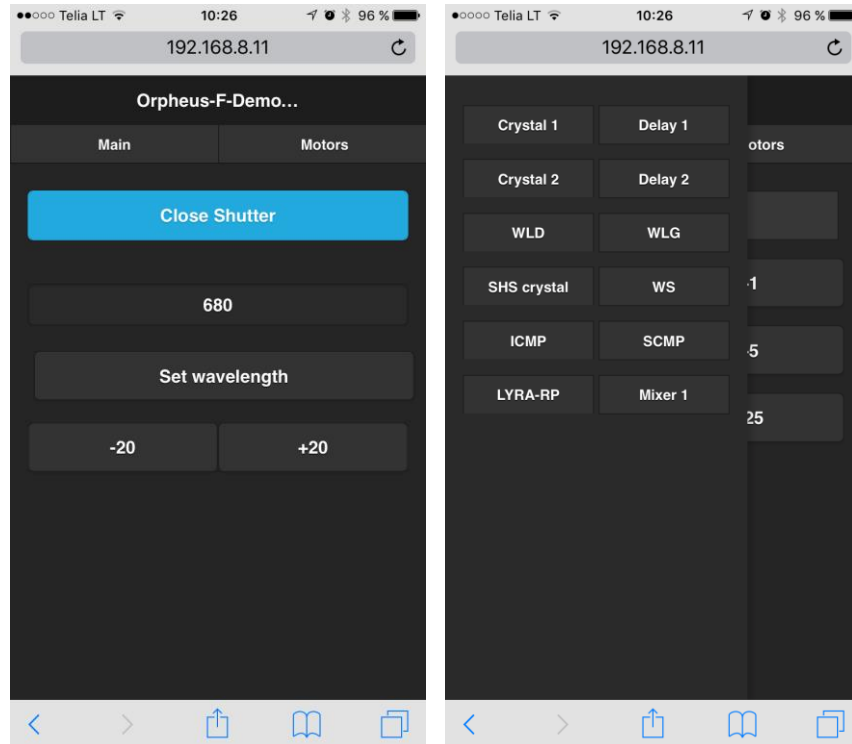


Figure 3. Control device from a smartphone via webpage

Advanced User Level Password

Advanced user level password, required for device calibration or other advanced options: **1600**.

Help

Downloads, tutorial videos, instructions:

topas4info.lightcon.com

API help page:

topas4api.lightcon.com/current

Customer support:

support@lightcon.com