



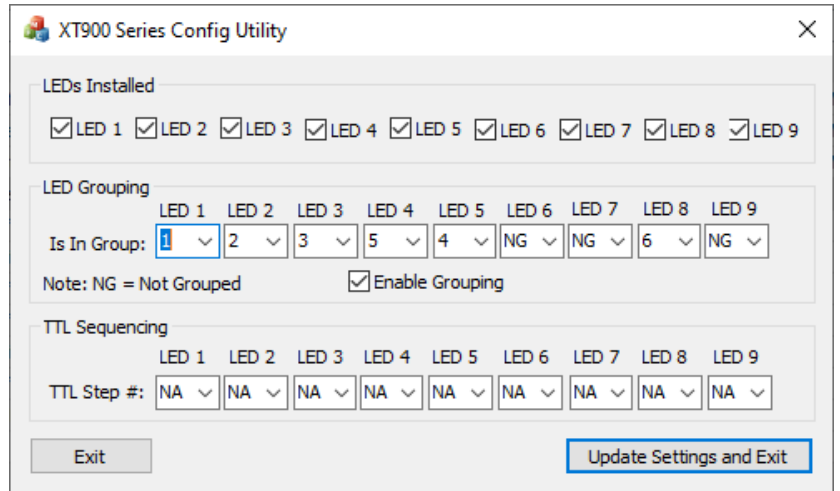
X-Cite XT900 Series Configuration Utility - User Notes

Introduction

The XT900 Configuration Utility allows operators to:

- Assign LEDs to a group
- Create a TTL triggering sequence (i.e. ring buffer)

The Utility uses a simple GUI, avoiding the need to send individual serial commands.



Getting Started

1. Connect the X-Cite NOVEM to your PC with the USB cable. Turn unit on.
2. Windows will automatically find the driver. If not automatically found, the Windows Driver is available here, under the SOFTWARE tab: <https://www.excelitas.com/product/x-cite-novem-powerful-9-channel-led-illumination-system>
3. Download the X-Cite NOVEM Configuration Utility zip file (Same link as above). Extract contents.
4. Run the "Config Utility.exe" file.

LEDs Installed

This section of the GUI confirms that an LED is installed by showing a checkmark. Operators can not modify this section.

LED Grouping

Enable compatibility with existing device drivers for X-Cite TURBO by running X-Cite NOVEM / XT900 in 6-channel mode and creating "Groups". Up to six groups can be defined, and each group may contain 1-9 LEDs.

1. Assign LEDs to Groups 1 thru 6
2. Click "Enable Grouping"
3. Click "Update Setting and Exit"

TTL Sequencing

Control multiple LED channels with a single TTL output, using X-Cite NOVEM / XT900's "TTL1" input connection.

1. Assign a number to each LED, indicating the order in which they should be triggered
 - NA=omitted from sequence, 1=turn on with first "high" TTL, 2=turn on with second "high" TTL, etc.
 - The same number can be used multiple times if simultaneous triggering of LEDs is required
2. Click "Update Setting and Exit"



QUICK REFERENCE

There are multiple configurations of X-Cite NOVEM and the wavelengths available will differ between models. Model number can be verified by checking the serial number label on the unit. Wavelengths and corresponding channel numbers are in the tables below.

Fluorophore	Wavelength	LED Position				Notes
		XT910	XT920	XT930	XT940	
FURA-2	340			9		
DAPI	365	1			1	
DAPI	385		1	1		
CFP	435	2	2	2	2	
FITC	475	3	3	3	3	
YFP, TRITC, mCherry	HD (LaserLED Hybrid Drive 500-600)	4	4	4		Powered by LaserLED Hybrid Drive. 500-600nm broad peak, selectable with motorized rotary filter changer
		5	5	5	4	
		6	6	6	5	
		7	7	7	6	
Cy5	635	8	8	8	7	
Cy7	735	9	9		8	
IR800	785				9	

Clean up Filters Installed in Configuration Option XT910-F

Channel	Fluorophore	Wavelength	Filter Installed
1	DAPI	365	378/52
2	CFP	430	438/24
3	FITC	475	474/27
4	Blank Filter	HD (500-600)	
5	YFP	510	509/22
6	TRITC	555	554/23
7	mCherry	580	578/21
8	Cy5	635	635/18
9	Cy7	735	735/28



Clean up Filters Installed in Configuration Option XT920-F

Channel	Fluorophore	Wavelength	Filter Installed
1	DAPI	385	378/52
2	CFP	430	438/24
3	FITC	475	474/27
4	Blank Filter	HD (500-600)	
5	YFP	510	509/22
6	TRITC	555	554/23
7	mCherry	580	578/21
8	Cy5	635	635/18
9	Cy7	735	735/28

Clean up Filters Installed in Configuration Option XT930-F

Channel	Fluorophore	Wavelength	Filter Installed
9	FURA-2	340	
1	FURA-2/DAPI	385	387/11
2	CFP	430	438/24
3	FITC	475	474/27
4	Blank Filter	HD (500-600)	
5	YFP	510	509/22
6	TRITC	555	554/23
7	mCherry	580	578/21
8	Cy5	635	635/18

Clean up Filters Installed in Configuration Option XT940-F

Channel	Fluorophore	Wavelength	Filter Installed
1	DAPI	365	378/52
2	CFP	430	438/24
3	FITC	475	474/27
4	YFP	510	509/22
5	TRITC	555	554/23
6	mCherry	580	578/21
7	Cy5	635	635/18
8	Cy7	735	735/28
9	IR800	785	775/46

For complete operating and safety instructions, please refer to the X-Cite user manual.