

X-Cite® TURBO: Quick Start Guide

SIDE 1



Warning – Refer to Safety Precautions Booklet 035-00636R for all safety precautions prior to use.
User Guide 035-00601R download: <http://www.excelitas.com>

SETUP

Unpack

1. Carefully unpack the unit and accessories from shipping carton.
2. When unpacking the light guide take care not to bend sharply.

Install the Microscope Adaptor (if applicable)

1. Remove protective wrap from adaptor.
2. Insert the flange portion of the Microscope Adaptor into the light port on the microscope, and secure it using the hardware provided on the microscope.

Connections and Positioning

1. Remove red caps from light guide. Insert large end into light guide port on unit (up to "B" line). Insert small end into microscope light guide port (or adaptor), and secure it with hardware provided.
2. Position the equipment. Ensure adequate clearance for ventilation around unit, and slack in the light guide.
3. Connect speedDIAL cable to "remote" port on main unit.
4. Connect USB cable to ports on main unit and computer. (For Windows 7/8.1, USB driver will install via internet after unit powers up, see user guide for additional information.)
5. Connect external power supply (AC/DC switching adaptor) to main unit.
6. Connect AC power to properly grounded outlet.

MANUAL OPERATION

1. Flip rocker switch on rear of the main unit to turn X-Cite system on.
2. When speedDIAL display shows LED channels 1 and 2 with their intensity setting, it is ready to use.
3. Press "up" and "down" buttons until the arrow is pointing to the desired LED channel (1 to 6).
4. Click speedDIAL to illuminate a specimen.
5. Turn the dial to adjust intensity - clockwise to increase, counter-clockwise to decrease.

REGULATORY (refer to user guide for complete details)

Product Safety and Electromagnetic Compatibility

The X-Cite TURBO has been tested and found to comply with product safety and electromagnetic compatibility requirements. For a complete list of tests and for certification details, please contact your X-Cite representative or visit Excelitas website: <http://www.excelitas.com>.

The X-Cite TURBO is classified as Class 1 laser product according to IEC 60825-1: Safety of laser products – Part 1: Equipment classification and requirements: 2014-05 and complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant

to Laser Notice No. 50, dated June 24, 2007. This class is eye-safe under all operating conditions. This class includes all lasers or laser systems which cannot emit levels of optical radiation above the exposure limits for the eye under any exposure conditions inherent in the design of the laser product. There may be a more hazardous laser embedded in the enclosure of a Class 1 product, but no harmful radiation can escape the enclosure.

CE Marking



- Council Directive 2014/35/EU
- Council Directive 2014/30/EU
- Council Directive 2012/19/EU
- Council Directive 2011/65/EU as amended by (EU) 2015/863

Low Voltage Directive
EMC Directive
WEEE Directive
RoHS



WEEE Directive



China RoHS

BASIC TROUBLESHOOTING (refer to user guide for complete details)

Category	Symptom	Action
Error messages	Error 1 (High Temp.)	Turn off, let cool; check clearance around vents
	Error 2 to 5 (Internal)	Turn off, restart
	Error 6 (Low Temp.)	Allow unit to warm to room temperature and restart
Intensity	Low output intensity	Check speedDIAL settings Check light guide position Check adaptor type Check microscope beam path, filters, apertures, shutters, objectives
speedDIAL	New settings forgotten when unit is shut down	After changing settings, wait at least five minutes before shutting unit down
	Dial does not scroll through the menu	Turn dial in the opposite direction
	"Lock" icon on display, speedDIAL not responding to manual control	Send "unlock" command via computer OR power down unit and restart



WARNING: Never look at operating LED! The light could severely damage the cornea and retina of the eye if the light is observed directly. Eye shielding must be used at all times as well as clothing to protect exposed skin. Refer to user guide for more details.

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SpeedDIAL Quick Reference Guide

SIDE 2



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X-Cite TURBO contains the following LED wavelengths:

LED #	Center λ (nm)	Useable λ range
1	385	375-400
2	430	410-450
3	475	460-495
4	525	500-520
5	575	525-610
6	630	615-660

SpeedDIAL Home Screen



(a dot appears beside the LED channel numbers that are ON)

SpeedDIAL Menus and Settings

- To access the main menu, press and hold the dial (shutter button) for one (1) second.
- To navigate the menus, turn the dial to scroll through the options. An arrowhead will indicate the currently selected menu option, click the dial to make a selection.
- To adjust settings, turn the dial. To select a setting and return to sub-menu, click the dial.
- To exit menu system at any time, press and hold the dial for one (1) second.

SpeedDIAL Menu

(refer to user guide for complete details/instructions)

Menu Item	Description
LCD	Display Screen Brightness and Color Settings
<i>Dim</i>	Backlight timeout (off = backlight always on)
<i>Brig</i>	Screen brightness (0% = backlight off)
<i>Color</i>	Screen color
Hand	Display Screen Orientation - Rotate display screen 180°
Info	Information specific to each LED
<i>Hour</i>	Total hours accumulated on the LED
<i>Wave</i>	Central Wavelength
<i>FWH</i>	Full width half maximum band size
<i>WLR</i>	Usable wavelength range
<i>Temp</i>	Current LED temperature
<i>Max</i>	Maximum allowable LED temperature
Srvc	Service Data
<i>SN</i>	Unit serial number
<i>S/W1 or S/W2</i>	Embedded software version numbers
<i>Spd</i>	(No function in X-Cite Turbo)
Err	Display error conditions specific to each LED or the system in general. - No error: "0" will be displayed.