



**Warning – Refer to Safety Precautions Booklet 035-00636R for all safety precautions prior to use.**  
User Guide 035-00587R download: <http://www.excelitas.com/Pages/Product/X-Cite-120LEDmini.aspx>

**SETUP**

**Unpack**

- Carefully unpack the unit and accessories from shipping carton.
- When removing the LED Head and *mini*CUBE from the carton, ensure that both components are supported and there is always some slack in the cable. **Do not use the cable as a “handle”.**

**Install the Microscope Flange**

- Remove protective cap from LED Head.
- Align the mounting holes and dowel pins on the Microscope Flange and the LED Head. **Do not touch the lens in the Microscope Flange.**
- Attach the Microscope Flange using the Hex Tool and three (3) fasteners provided.

**Install on Microscope**

- Position the equipment. Do not kink or bend cable. Ensure adequate clearance for ventilation around *mini*CUBE.
- Connect LED Head to microscope light train. Verify that the LED Head is oriented with the arrow label (rear side of the LED Head) is pointing up.
- Connect speedDIAL cable to “remote” port on *mini*CUBE.
- Connect AC power to properly grounded outlet.

**MANUAL OPERATION**

- Flip rocker switch to turn unit on.
- When display shows “x%”, it is ready to use.
- Click speedDIAL to illuminate a specimen.
- Turn speedDIAL to adjust intensity.

**REGULATORY** (refer to user guide for complete details)

**Product Safety and Electromagnetic Compatibility**

The X-Cite 120LED*mini* 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 <http://www.excelitas.com/Pages/Product/X-Cite-120LEDmini.aspx>.

**CE Marking**

- |  |                                |                       |
|--|--------------------------------|-----------------------|
|  | • Council Directive 2014/35/EU | Low Voltage Directive |
|  | • Council Directive 2014/30/EU | EMC Directive         |
|  | • Council Directive 2012/19/EU | WEEE Directive        |
|  | • Council Directive 2011/65/EU | RoHS                  |

**BASIC TROUBLESHOOTING** (refer to user guide for complete details)

| Category              | Symptom  | Action  |
|-----------------------|--|---|
| <b>Error messages</b> | Error 1 (High Temp.)   | Turn off, let cool; check clearance around vents  |
|                       | Error 3 or 5 (Internal)  | Turn off, restart   |
|                       | Error 6 (Low Temp.)  | Allow unit to warm to room temperature and restart  |
| <b>Intensity</b>      | Low output intensity   | Check speedDIAL settings<br>Check flange type<br>Check microscope beam path, filters, apertures, shutters, objectives |
| <b>speedDIAL</b>      | Double-click turns off LED   | Increase delay in the speed (Spd) setting   |
|                       | 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   |
| <b>TTL</b>            | TTL does not trigger unit  | Enable TTL mode   |
|                       | TTL response time is longer than usual                             | Verify that timeout settings are appropriately set  |



- Council Directive 2014/35/EU
  - Council Directive 2014/30/EU
  - Council Directive 2012/19/EU
  - Council Directive 2011/65/EU
- Low Voltage Directive  
EMC Directive  
WEEE Directive  
RoHS



WEEE Directive



China RoHS



RoHS



FCC



**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.

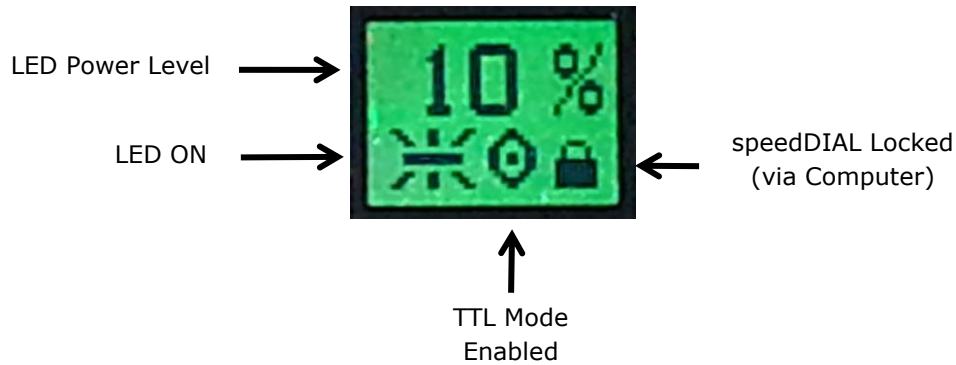
Printed in Canada

035-00588R Rev. 2



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**SpeedDIAL Home Screen**



**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 instructions)

| Menu Item    | Description  |
|--------------|--|
| <b>LCD</b>   | <b>Display Screen Brightness and Color Settings</b>  |
| <i>Dim</i>   | Backlight timeout (off = backlight always on)  |
| <i>Brig</i>  | Screen brightness (0% = backlight off)   |
| <i>Color</i> | Screen color   |
| <b>Favo</b>  | <b>Favorite Intensity Setting</b><br>- Double-click jumps to preset intensity level                |
| <i>Int</i>   | Select favorite intensity level  |
| <i>Enbl</i>  | Enable or disable this feature   |
| <i>Spd</i>   | Adjust delay time between clicks<br>(defines "double-click")                                       |
| <b>TTL</b>   | <b>TTL Mode Control</b><br>- Required for TTL triggering   |
| <i>Enbl</i>  | Enable or disable this mode  |
| <i>Time</i>  | Define a timeout setting (recommended)   |
| <b>Hand</b>  | <b>Display Screen Orientation</b><br>- Rotate display screen 180°                                  |
| <b>Srvc</b>  | <b>Service Data</b><br>- Embedded software versions, serial number, LED hours, system temperatures |