

Heiland electronic GmbH

Remote Control of LED cold light source

Control your enlarger by an Android Application

Version 1.1



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Warranty

The software has been tested to be compatible with Android 4.4 and upwards. Heiland electronic will legally not be held responsible for any program errors or conflicts, or errors occurring through the use of this program. The information in this book is distributed on an “As is” basis, without warranty. We have translated this user guide to the best of our knowledge.

Apart from the warranty we would also like to receive advices for improvements of the LED cold light Remote Control.

We reserve the right to make changes at anytime to our program or to the User guide without further notice.

Questions or suggestions to:

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About LED cold light Remote Control

The software enables remote control of LED cold light sources manufactured by Heiland electronic.

Minimum system Requirements

- Android Phone or Tablet
- Android OS 4.4 or higher
- No self-shining Buttons on the device
- Bluetooth 2.0 or higher

Program installation

Download the Application from the Heiland Electronic Web Page
To finally install the program execute the file **.apk** in the Download directory. The installation is done automatically.

Preparation for work

To secure, that no external event like an email or phone call interrupts your work or exposes your paper by a flashing display, please activate the "Flight mode" of your Android device.

Next step is to connect the remote control unit to the LED control box and to power up the unit. Some seconds after activating the "Bluetooth" option of your phone or tablet the remote control should be visible as Heiland #x. Please select for pairing procedure and enter the pairing-code "**1234**"

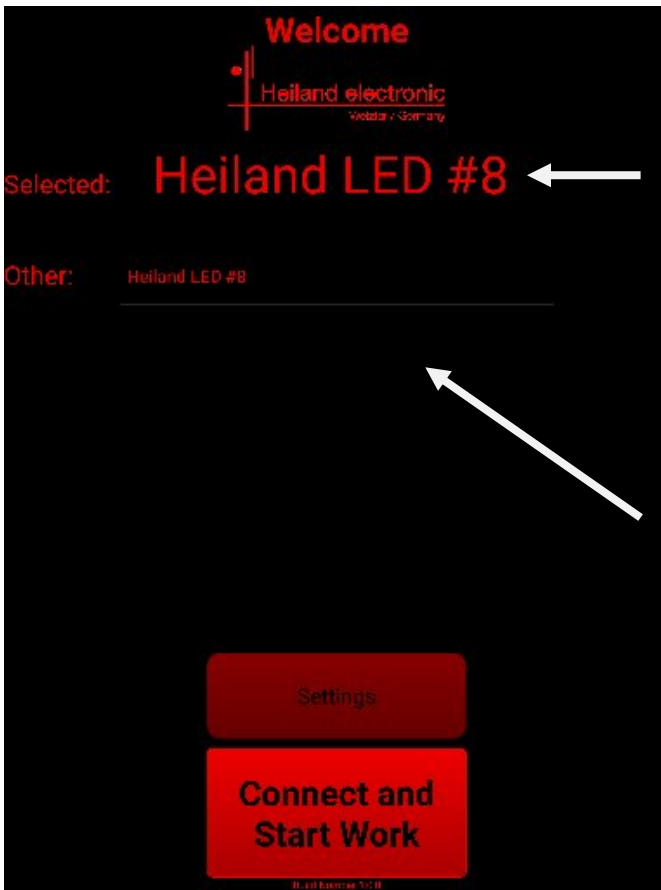
Finally please start the application.

Starting LED cold light Remote Control

During the installation a button called **LED remote** has been created. Click the icon to start the software



On the start screen you might either choose some 'Settings' according to your personal working procedure and also the #of the LED cold light remote control if you use multiple LED cold light sources in your darkroom.



Displays the last selected device

Displays a list of all previous paired Bluetooth devices.

Connect your Device and start work.

Working Mode

After the LED cold light module is connected successful the main screen is displayed. Only view things have to be learned to control the software

The screenshot shows the main control interface for the Heiland LED #8 light source. At the top, the text "Heiland LED #8" is displayed in red. Below this, there are three icons: a lightbulb labeled "Safe", a red play button, and a microscope labeled "Focus". The main area contains a list of exposure settings, each with a sun icon, a lightbulb icon, a moon icon, and a label on the right. The "Main" exposure is highlighted in red. At the bottom, there are three large red buttons: an up arrow, a house icon, and a down arrow. Annotations with arrows point to these elements:

- "Connected light source" points to "Heiland LED #8".
- "Selected Exposure" points to the "Main" exposure row.
- "Home Button Return to the Start Menu" points to the house icon button.
- "Cursor Buttons selects previous or next Exposure" points to the up and down arrow buttons.

Exposure	Time	Intensity	Split
Burn 19	0.0 sec	0.0	00.0 Split
Main	5.0 sec	-1.0	1.0 Split
Burn 1	3.0 sec	0.0	2.7 Mix
Burn 2	1.0 sec	-2.0	2.7 Split
Burn 3	2.0 sec	0.0	3.0 Split
Burn 4	0.0 sec	0.0	00.0 Split



Edit exposure time.



Modify intensity.



Edit the paper grade.



Start the exposure.



Pause of exposure.



Restart a paused exposure.



Switches on and off the red (safe) light of the LED cold light source.

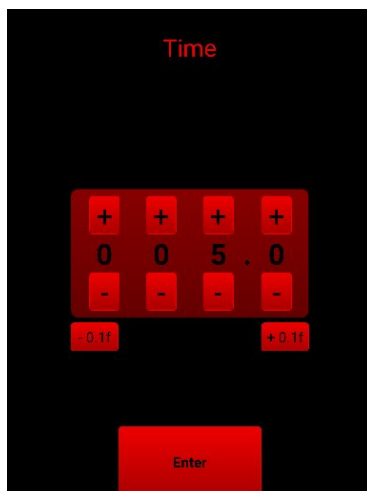


Switches on and off the white (focus) light of the LED cold light source.


Edit Values



Please click the according symbol. A setup menu appears.

With the buttons “+” and “-” you may edit the value. The buttons ‘-0.1f’ and ‘+01f’ enable changing the exposure time in the f-stop mode.



Start Exposure

Select the exposure time by the cursor buttons or click direct to the text 'Main' or 'Burn x'. Finally press .

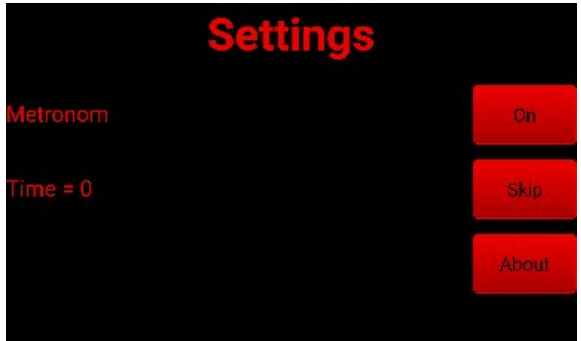
If you want to pause the exposure press . To resume press .

A paused exposure might be canceled by holding  for three seconds.

Settings

In the Settings Menu you can turn on and off the metronome function.

If the application detects a time set to zero, you may choose if that time should be skipped or the app restarts the exposure list by returning to 'Main' exposure. Latter event is indicated by a long beep.



Stop working

As all other apps the 'LED Remote control' continues to run in background mode, if it is closed. In order to terminate the app, please use the task manager.

Terminating is also necessary, if you like to change the address of the LED remote control device or pair another LED remote control device to the Android device.

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