

ProScope HR software guide - v1.2

The ProScope HR software for Mac and Windows is included with the ProScope **HR** and **HR2** USB handheld microscopes. Refer to the ProScope HR QuickStart guide for minimum system requirements and installation instructions. It's a good idea to check www.proscopehr.com to make sure you are always using the latest version.

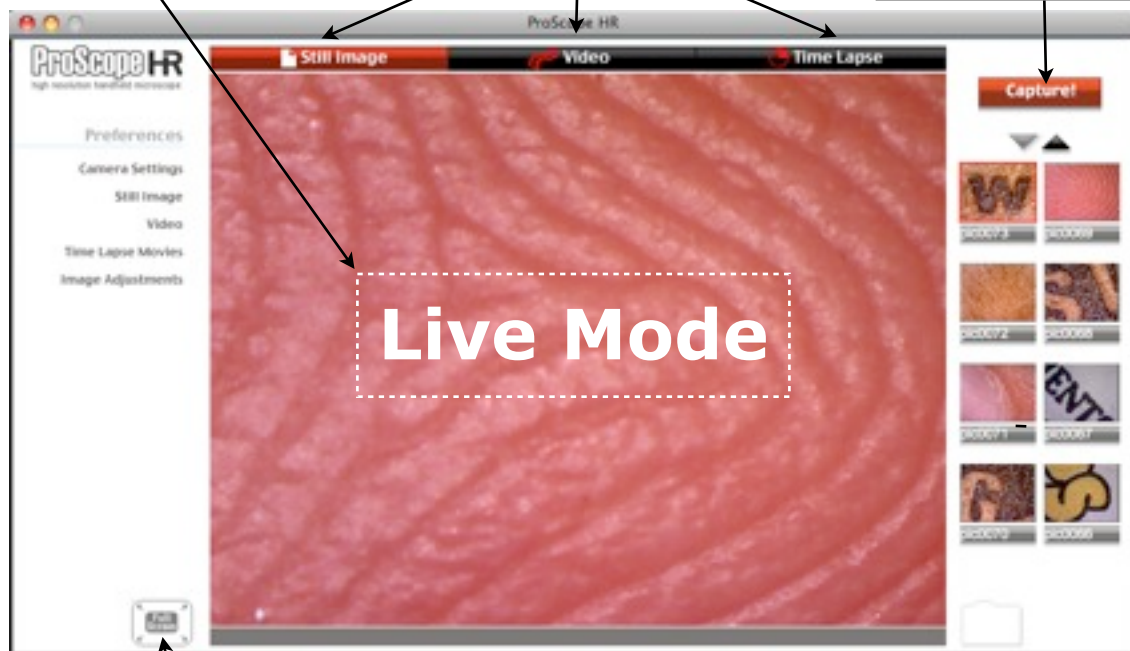
The ProScope HR software has two main modes of operation, **Live Mode** and **Preview Mode**. Live Mode is used to display a live image from your ProScope when capturing still images, video, and time lapse video. Preview Mode allows you to view previously captured still images, video, and time lapse video. Both Live and Preview Mode have a Full Screen display option. The ProScope HR software functions are described in detail below.

- Live Mode -

Live Mode - View live images from the ProScope microscope. Click inside window or a Capture Mode button to make Live Mode active.

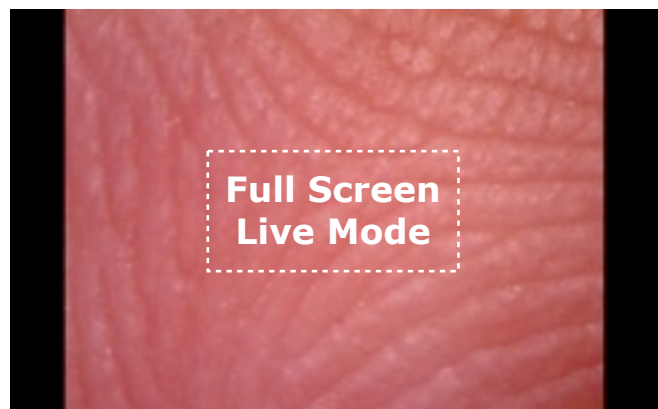
Capture Mode - Click Still Image, Video, or Time Lapse to set mode.

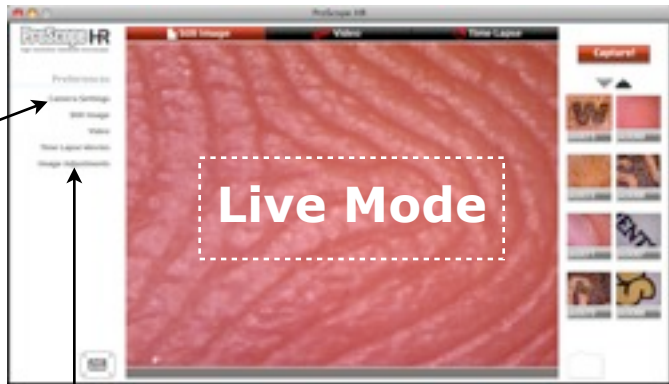
Capture Button - Click to start and stop Still Image, Video, and Time Lapse capture. Or, press the ProScope hardware capture button.



Full Screen - Live Mode

Click the Full Screen icon or press F8 to enter FSM. Live image resizes to fill screen maintaining aspect ratio. To capture an image in FSM, left-click your mouse or press the ProScope hardware capture button. Only Still Image capture is available in FSM. Exit FSM by pressing any key (except Up/Down arrow keys).





Camera Settings - Live Mode

Resolution:

- 1600x1200 @ 2.5 frames per second - **HR2 ONLY**
- 1280x1024 @ 3.75 frames per second
- 640x480 @ 15 frames per second
- 320x240 @ 30 frames per second

Light Source:

- ProScope HR LED - default setting for use with 30Nx, 50x, 100x, 200x, and 400x ProScope HR lenses.
- Incandescent - home lighting
- Florescent - office lighting
- Daylight - outdoors
- Auto - auto adjusts white balance

OK/Cancel:

- Click to confirm or cancel preference changes and to return to Live or Preview Mode.

ProScope HR2 image adjustments



ProScope HR image adjustments



Image Adjustments - Live Mode

Brightness: Moving the slider affects the level of brightness of the live image. Note - this slider has no affect when in manual exposure mode (Auto unchecked), see Exposure.

Contrast: Moving the slider enhances or subdues the difference between dark and light areas of the live image.

Saturation: Moving the slider affects the intensity of colors of the live image. Moving the slider all the way left will result in a black and white image.

Sharpness: Moving the slider enhances or subdues the detail edges of the live image.

White Balance: Moving the slider switches between 5 color balance presets - (1) PSHR LED, (2) Incandescent, (3) Fluorescent, (4) Daylight, and (5) Auto.

WB Red: Moving the slider adjusts the component red value of the current White Balance preset except when set to preset (5) Auto.

WB Green: Moving the slider adjusts the component green value of the current White Balance preset except when set to preset (5) Auto. **HR2 only.**

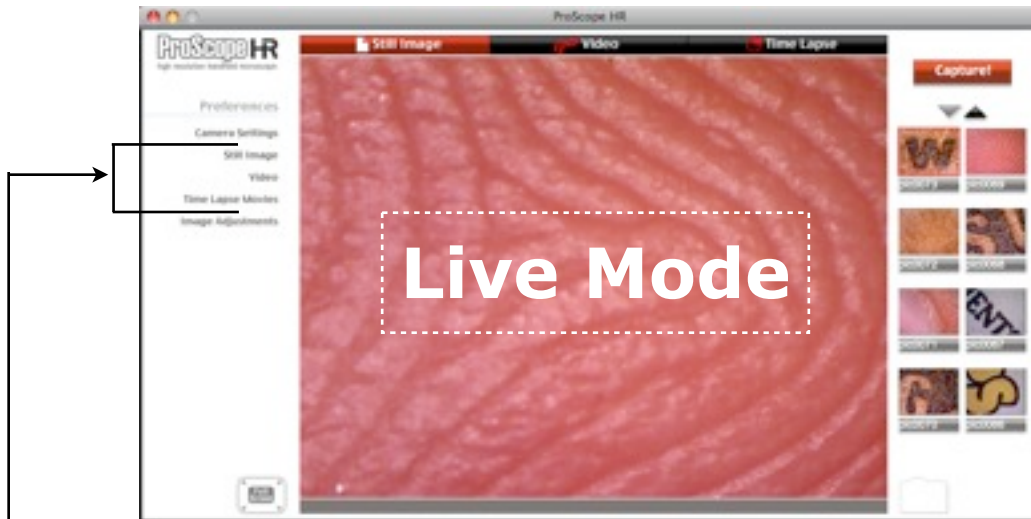
WB Blue: Moving the slider adjusts the component blue value of the current White Balance preset except when set to preset (5) Auto.

Exposure: Moving the slider adjusts the amount of time the imager is exposed to the light source. Moving the slider left will make the image darker (less exposed) and moving right will make the image brighter (more exposed). When the Auto white balance box is checked, the imager automatically controls the exposure time so moving the slider will have no effect.

LED Intensity: Moving the slider adjusts the LED light output from full output (all the way right) to off (all the way left). **HR2 only.**

Flip/Mirror: Checking the Flip box rotates the live image from top to bottom. Checking the Mirror box rotates the live image from left to right.

Power Frequency: Anti-flicker setting. Choose 60Hz for North America or 50Hz for the rest of the world. **HR only.** Note - the HR2 has an auto anti-flicker feature and therefore has no user setting.



Still Image Capture Settings - Live Mode

File Type:

- JPG - compressed file
- BMP/PIC - uncompressed file

Filename Prefix:

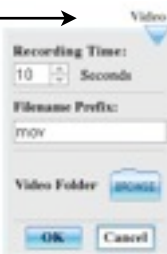
- Default prefix for captured still image file names.

Still Images Folder:

- Click BROWSE icon to browse/set default storage folder. Program default storage can be found in ProScope HR sub folder of user's pictures folder.

OK/Cancel:

- Click to confirm or cancel preference changes and to return to Live or Preview Mode.



Video Capture Settings - Live Mode

Recording Time:

- Adjusts default movie recording time from 2 to 999 seconds. Software and hardware capture buttons will override this setting.

Filename Prefix:

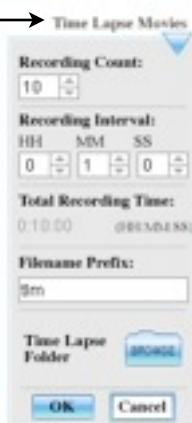
- Default prefix for captured movie file names.

Video Folder:

- Click BROWSE icon to browse/set default storage folder. Program default storage can be found in ProScope HR sub folder of user's movies folder.

OK/Cancel:

- Click to confirm or cancel preference changes and to return to Live or Preview Mode.



Time Lapse Capture Settings - Live Mode

Recording Count:

- Adjusts default number of captured time lapse movie frames from 3 to 999. Software and hardware capture buttons will override this setting.

Recording Interval:

- Adjusts the time between captured frames from approx. 1 second up to 25 hours. Total record time up to 2.85 yrs.

Filename Prefix:

- Default prefix for captured time lapse movie file names.

Time Lapse Folder:

- Click BROWSE icon to browse/set default storage folder. Program default storage can be found in ProScope HR sub folder of user's movies folder.

OK/Cancel:

- Click to confirm or cancel preference changes and to return to Live or Preview Mode.

- Preview Mode -

Preview Mode - Click on a thumbnail from the Library Strip to preview. Clicking inside window will return you to Live Mode if the ProScope microscope is connected. If no camera is connected, you will remain in Preview Mode.

Click to select Still Image, Video, or Time Lapse Library Strip.

Library Strip

Click up or down arrow or press Up/Down arrow keys on keyboard to view all thumbnails in library.

Captured image/movie thumbnail. Click to preview.

Image/movie file name. Click to edit.

Click folder icon to rename, delete, or to save a copy of the selected image to a different location.



Full Screen - Preview Mode
Click the Full Screen icon or press F8 to enter FSM. Preview image resizes to fill screen maintaining aspect ratio. Press Up or Down arrow keys on keyboard to navigate Still Image library. Only Still Image viewing is available in FSM. Exit FSM by pressing any key (except Up/Down arrow keys).

