

GBTimelapseEOS – Release Notes

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Known Issues

- Can't use AutoRamp feature with multiple cameras
- AutoRamp not working correctly when saving images to both camera and computer
- SessionLog may not be saved when saving images to camera

3.3.24

- Fixed: Added the ability to recover from a 5DMk II camera bug that could cause a time-lapse session to hang. Sometimes a 5DMk II would fail to capture an image in bulb mode when the time-lapse interval was too short (shorter than the bulb time plus the image download time). GBT now recovers from the camera error and continues the time-lapse session.
- Changed: The AutoRamp time-lapse interval maximum daytime sun angle has been changed from 0° to 4°. This allows you to begin ramping the interval before the sun sets.

3.3.23

- Added: A new option to “don't save ImageLog.xml files”. Some long term site monitoring applications don't need this file. Since the file can be quite large, this option was added to disable saving it on disk.

3.3.22

- Fixed: Sunrise/sunset times were incorrect for Nepal and other locations in time zones between +5 and +6 hours of GMT.
- Added: Options to enable/disable recording email and ftp events in the session log.
- Fixed: Attaching images to email notifications sometimes failed when the attachment was a GBTimelapse screen shot

3.3.21

- Changed: If the Trial or Product licenses are not valid, JPG images are saved with a watermark and RAW images are not saved.

3.3.19

- Fixed: Time-lapse interval controls were sometimes disabled when not necessary.

3.3.18

- Fixed: HDR Shutter action was not being updated from Project Settings Shutter tab settings.
- Fixed: Lens calibration no longer skips some steps in the sequence

3.3.17

- Fixed: Sometimes lens calibration would fail with a message saying it needed at least 16 values at f/16.
- Added: A new option in Tools/Options under the Files tab to make JPG preview files of captured RAW images.

3.3.16

- Added: AutoRamp script following (Beta). See Tools/Options to enable.
- Added: AutoRamp HDR capture . See Tools/Options to enable.
- Added: Added an ISO calibration table for the 7D. See Tools/Options to enable use of this table.
- Fixed: T3i was very slow to initialize settings
- Fixed: f-stop lens calibration sometimes returned a value of f/16 instead of the correct value
- Change: Increased the maximum bulb time during lens calibration from 120 seconds to 300 seconds.

3.2.34

- Added: Added an ISO calibration table for the 5DMkII. See Tools/Options to enable use of this table.

3.2.32

- Fixed: 1D Mk IV, default camera settings did not allow bulb mode shooting
- Change: Maximum ND filter value has been increased from 9.9 to 12.0 to allow use of 10-stop filters.
- Added: In the Camera/Profile menu, under the advanced tab, you can specify the default f-stop value when using the lens twist method.
- Added: Added an ISO calibration table for the 7D. See Tools/Options to enable use of this table.

3.2.22

- New: MX2 Dolly can now be controlled by direct connection by USB cable. No need for a USB relay. Requires MX2 firmware release 0.91. Other Dolly systems can still be controlled using a USB relay
- New: AutoRamp Plan, see documentation
- Changed: When Av value cannot be read (such as when using “Lens Twist”), it will use the last known Av value instead. So capture an image before twisting the lens.

- Added: More lens calibration files
- Added: AutoRamp can now change the ISO in 1/3 stop steps if supported by the camera
- Added: AutoRamp now will reduce the ISO, if possible, when a ND filter is added (or increase ISO, if possible when ND filter is added). This is useful for ND filters greater than 3-stops.

3.1.56

- Changed: When multiple cameras are connected, AutoRamp panel is disabled.
- Fixed: Errors in T3i lens calibration files

3.1.54

- Fixed: There was a bug in 3.1.5 and 3.1.53 that caused an “Object not set...” exception

3.1.53

- NEW FREE TRIAL PERIOD: If your free trial has expired, you can begin a new free trial period with this release.
- Improved: Project Settings/AutoRamp parameters have been reorganized and the default values have been changed.

3.1.51

- Fixed: Was not reading or writing lens calibration tables correctly when running on systems in some other cultures (where comma was used as a decimal point).
- Changed: Now checks for conflicts among AutoRamp settings and warns you if any are detected.

3.1.49

- Fixed: Added a more accurate bulb exposure timer.
- Added: The ability to control the Dynamic Perception Motion Control dolly.

3.1.42

- Fixed: Occasionally a camera will report an incorrect value for Av. This caused a jump in the bulb time during AutoRamp. This error is now detected and ignored.

3.1.41

- Fixed: Can check and uncheck AutoRamp while time-lapse program is running.
- Changed: Current location and sunrise/sunset times are shown in main window title bar
- Fixed: History graph is displayed correctly when saving images to camera

3.1.39

- Fixed: Can check and uncheck AutoRamp while time-lapse program is running.

- Changed: Av f-stop values are now shown correctly as positive numbers in the ImageLog.xml file.
- Changed: AutoRamp now has separate shift times for Av and ISO

3.1.37

- Fixed: AutoRamp f-stop script would start at f/2.8. Now it will allow f-stops as low as f/1.

3.1.36

- Added: AutoRamp can optionally ramp the white balance color temperature between daylight and night values, if the camera model has a color temperature setting.
- Changed: The AutoRamp sensitivity is automatically set to 0.9 when doing a lens f-stop calibration
- Changed: After running a lens calibration f-stop script, the lens correction data is automatically saved in a data file

3.1.33

- Changed: GBTimelapse will no longer quit, if “Auto Exit on Program end” is checked and you manually end a time-lapse program
- Changed: Set the T3 to require UI lock like the T3i
- Fixed: The histogram in the History panel was not correct when the Monitoring the latest image.
- Changed: If using AutoRamp, the image bulb duration is shown in large block letters in the Image panel. This makes it easier to see when it is time to change a ND filter.
- Fixed: Occasional Av property read errors on the 60D, resulting in a spike in luminance during AutoRamp. Not sure if this also happened on other camera models.
- Changed: If following an f-stop script to calibrate a lens, AutoRamp will ignore setting to adjust Av or ISO, will also ignore Sunrise/Sunset compensation, and will ignore the maximum Tv value
- Fixed: The Canon T3i would sometimes not respond to a setting change command

3.1.28

- Changed: AutoRamp min and max sun angles can no longer be changed through the user interface.
- Changed: The AutoRamp luminance and interval ramping now ramp between 0 and -10 degrees of sun angle.

3.1.27

- New: Fresh free trial. If you previous free trial has expired, you can activate a new free trial period.
- Added: AutoRamp option to smoothly ramp the target luminance to a lower level at night
- Added: AutoRamp option to smoothly ramp from a daylight time-lapse interval to a night time-lapse interval

- Changed: If a ND filter is changed during AutoRamp, the time-lapse is automatically paused and waits for user to resume
- Added: More lens calibration tables
- Changed: Corrected display of TEV to account for ND filter and added display of ND filter value

3.1.20

- Fixed: Sometimes a bulb start error would cause timelapse to stop
- Fixed: The automatic f-stop calibration script would include too many steps if the f-stop series ended with a comma
- Added: More lens calibration tables and moved lens calibration to a “Lenses” folder

3.1.19

- Fixed: A bulbStart error during timelapse could cause image capture to stop
- Fixed: Some camera settings (Tv, Av, ISO) were not being saved if the camera AEMode was set to bulb
- Fixed: Some camera errors (such as bulbStart) were not being reported in the session log

3.1.18

- Fixed: Changed the initial default bulb switch time for some camera models

3.1.17

- Added: Default bulb switch time to camera profile. When AutoRamp Reset button is clicked, the “Switch to bulb” value will be set to the camera’s “Default bulb switch time”.

3.1.16

- Added: If SuperUser, Tools/Resize menu options is available to set main window size to 1280x720 for 720p screen capture.

3.1.15

- Changed: Increased AutoRamp Tv range maximum value to 120 seconds.

3.1.14

- Changed: When running a lens calibration f-stop script, the timelapse interval is set to the bulb duration plus 4 seconds.
- Fixed: It was not possible to turn off the f-stop lens calibration script after turning it on.

3.1.13

- Added: AutoRamp capture out of beta testing and now available

- Fixed: Some 7D settings were incorrect. Now can override the manual AEMode dial
- Added: Major changes to the User's Guide with much new material about flicker and methods of operation

3.0.23

- Changed: FTP message in the session log now shows the full path and file name

3.0.22

- Changed: Change the product name to "GBTimelapse 3" and the version number to 3.0 to better reflect the actual product history

1.1.21

- Changed: Default project settings, Capture tab: Create new session subfolder every day is false
- Changed: Default project settings, Setup tab: Initialize camera settings from last session is true

1.1.19

- Removed: Temporarily removed AutoRamp until beta testing is completed

1.1.18

- Added: Checkbox to display histogram on a logarithmic scale
- Added: Histogram shows percentage of pixels being clipped
- Change: Default AutoRamp luminance value is 110, reduces the chance of clipping

1.1.15

- Fixed: Timelapse interval could gradually increase during autoramp with bulb mode

1.1.14

- Fixed: Mean luminance value was incorrect for an all black image
- Changed: Now uses 24-hour time when naming images with the date/time.
- Fixed: bulbStart error would sometimes cause the camera to hang
- Added: Email notification if camera error occurs during Program timelapse

1.1.11

- Fixed: Entering the Project Settings dialog while a timelapse program was running would cause a new session to begin in a new folder. Now it will begin a new session only if you have changed the name or location of the capture folder.
- Changed: AutoRamp now optionally uses "Sunrise/Sunset compensation" to help track rapid changes in light

1.1.5

- Fixed: When AutoRamp'ing, if mode was switched from Manual to Bulb, the Av was not set correctly.
- Fixed: If shooter was using the "lens twist" method to manual force a fixed Av value, the Av value was unreadable and the AutoRamp algorithm would fail. Now if the Av is unreadable, the most recent Av value is used instead.

1.1.4

- Fixed: Connecting a camera to a project expecting a different model would not initialize camera to SaveTo the computer.
- Fixed: When low on memory, "Image not available" is displayed; but images are still captured correctly.
- Added Auto Ramping
- Added Graph option to History Tab
- Added support for Rebel T3i/600D/Kiss X5 and Rebel T3/1100D/Kiss X50

1.0.10

- Changed: Increased the precision of the bulb duration. Instead of multiple of one second, it can now be specified to the hundredth of a second.
- Added: An option to override the camera AEMode dial. Most camera models have an AEMode dial to manually change the mode: Program, Tv, Av, Manual... etc. On some models the dial can be overridden and controlled remotely.

1.0.9

- Fixed: A problem in the 1.07 installer caused an error on startup
- Added: Option to override the camera's orientation sensor

1.0.7

- Fixed: 40D, the Tv and Av drop down lists were not updated correctly when the AEMode was changed
- Added a guide overlay to aid in composition
- Fixed: 40D, single release HDR did not capture all images in the sequence
- Fixed: Live View zoom was not working correctly while Group set to 1
- Fixed: Some European models were not recognized because of name differences

1.0.6

- Added Ftp upload capability

1.0.5

- Histogram red and blue channels were reversed

1.0.4 - 2/25/2011

- Verified the 7D
- Email notification requires the Pro version

1.0.2

- Verified the 40D

1.0.1

- Added some more project notification options for including session log and attaching screen shot or newest preview image.

0.9.80

- Verified the 1D Mark III and 1D Mark IV
- HDR shutter action now works correctly when the timelapse interval is shorter than the time it takes to capture the HDR sequence.
- Deinterleave check box is not enabled in Movie Preview tab
- "Movie Preview" changed to "History"

0.9.79

- Verified the 30D

0.9.78

- Initial beta release

Known Issues

- Unverified Models: 1D Mark IIN, 1Ds Mark III, 50D
- Minimum live view capture interval depends on the speed of your computer, shorter intervals are not uniform
- Occasional “**downloadImage**” errors. This happens more frequently when the timelapse interval is very short and the movie preview is running.
- Camera may hang if using non-canon AC adapter and user does not choose “Ok” when camera presents request to ignore “non-communication with battery”
- Windows XP –running two projects simultaneously with specific camera ids may depend on the order in which they are run. If project2 will not connect after project1 is running, try running them in reverse order.
- Rude cameras: some older models misbehave in multi-camera environments, 1D Mark II, 1Ds Mark II, 5D, 20D, and 350D/XT
- Pro Version has not been tested with more than four cameras connected simultaneously.
- XS and Xsi do not support auto focus in live view, because of an error in the Canon SDK (returns Not Supported).

Camera Verification

We control Canon cameras using Canon’s API provided by their Software Development Kit (SDK). The SDK provides a protocol for controlling all of their EOS cameras, regardless of model. We carefully follow the protocol, but because of cost we are unable to verify correct operation with every model. We have personally verified most models, but at this time there are few that still need verification.

If you have an unverified model, it should work fine. But, you will need to change the camera’s AEMode and Drive Mode manually. We could use your help with verification.

GBTimelapse is designed to run with all compatible EOS cameras; however, we may not have tested your particular model. If that is true you will see the Untested Camera Warning when the camera is connected.

To avoid any potential problems with camera control, the ImageQuality and DriveMode controls are set to read/only.

Here’s how you can help test the camera. With GBTimelapse running and connected to your camera, follow these steps. This short video demonstrates the process

<http://www.youtube.com/watch?v=Oar7Uqpwc6A>

- 1) Press the camera’s menu button.
- 2) Go to the Quality setting.

- 3) Manually cycle through and select each Image Quality setting. As you do this you should see the ImageQuality value change in Camera Settings Setup tab. GBTimelapse will save all these values in the camera's profile data file.
- 4) Select Custom Functions on the camera menu and find the setting for Exposure Level Increments.
- 5) Select each of the two values ½ stop and 1/3 stop. GBTimelapse will record the settings.
- 6) Turn off the camera menu and turn on the camera's Display
- 7) Select the Drive Mode (Single, Continuous, Self timer etc.) and manually cycle through and select each Drive Mode. Again, GBTimelapse will save each value.
- 8) If your camera can perform Live View, go to GBTimelapse Live View tab in the Camera Capture group and start live view. GBTimelapse will record the size of the live view image.
- 9) Stop Live View.
- 10) Close GBTimelapse and find the .xml data file for your camera. On Windows 7 it is in "Libraries/Documents/GBTimelapseEOS/EOSCameraProfiles". On Windows XP it is in "MyDocuments/GBTimelapseEOS/EOSCameraProfiles".
- 11) Send an email to me at questions@granitebaysoftware.com. If I don't have a profile for your camera yet, I will ask you to email that file to me. Thank you!