

(Ra). The light also has a five stop variable power range from 20-80 watts. The Li-Ion battery pack provides a burn time of 50-200 minutes depending on the power output selected.

Because the Luna line of video lights are a modular design several different types of LED lighting modules can be interchanged. The Luna 8 line of video lights comes with a removable ninety degree wide beam diffuser that provides very soft speckle free light both on land and underwater.

There are no hot spots across the beam and the edges of the light are very soft. Because the ninety degree diffuser is modular and removable an accessory fifty degree diffusing reflector can be interchanged for shooting distant subjects or even macro. The LED modules are easily removable by taking the diffuser off and pushing the LED out with the reversed battery pack. Other LED modules like the high color temperature 80 watt cyan module, the royal blue 450 nm LED module, the UV fluorescence module and more can then be installed.

These LED modules will not break and have an almost unlimited lifespan when used properly. The Luna 8 CRI 4500 and Flex 6000 are very light at only 1.1 kg dry and 0.14 kg in the water when equipped with the 90 degree reflector.

The Luna line of lights also have overheating protection so they can be used as a lighting source above water. In the off position the on/off switch is locked so the light can not be turned on accidentally. To test the battery power you depress the locking button on the collar ring and turn the ring counter clockwise to view the glowing LED display on the rear of the battery pack.

To turn the light on simply depress the locking ring button then turn the collar clockwise until the light turns on. The further you turn the collar ring



the greater the intensity of light between 20 and 80 watts. Turning the collar ring counter clockwise to the off position will lock the spring loaded button back into place. All of the Luna lights also come with a mounting collar for the Sea & Sea YS-style mount that can be integrated into almost any arm system that uses a standard mounting ball or the Sea & Sea head.

The Keldan Luna 8 Flex 6000 lumen LED video light has many of the same features described above for the Luna 8 CRI. This light comes with a 6000 lumen, 5000 kelvin LED module. The ninety degree head has the same speckle free, soft beam pattern and a burn time of 50-200 minutes. It uses the same interchangeable battery pack and has the same interchangeable LED module capability.

The Keldan Luna 4 4000 lumen video light is about half the size of the Luna 8 video lights and has a very bright LED for its size with a 5000 kelvin color temperature. This light has a five power range from 11-45 watts and used the same on/off locking collar ring as the Luna 8 series. The Luna 4 has



a very soft speckle free 85 degree beam angle in water and a 110 degree beam in air. No other light on the market at this time is as powerful, small and light as the Luna 4.

At 0.7 kg air and 0.22 kg in water this is indeed a small package. The Luna 4 uses a smaller battery pack with the same power monitoring design as the Luna 8 lights. There are also accessory handle kit for Luna video lights so they can be used as a diving torch.

All of the Keldan video lights are made from hard anodized aluminum and come in the distinctive fuchsia color that has become synonymous with the Keldan brand of video lights.

The Luna 8 CRI 4500 lumen video light is \$2,199.95. The Luna 8 Flux 6000 lumen video light is \$2099.95. The Luna 4 4000 lumen video light is \$1399.95. The Keldan Luna 8 and Luna 4 line of video light are widely available through your local authorized Keldan dealer.

Phil Rudin

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Lightroom for the Underwater Photographer

by Doug and Lorenza Sloss

Review by Peter Rowlands

Starting to use a heavyweight programme such as Adobe Lightroom can be a daunting task especially when there are no printed manuals any more so, as a Lightroom virgin I was delighted to be offered a review copy of Doug and Lorenza Sloss's 'Lightroom 4/5 for the Underwater Photographer'. It's available as a digital download and the iBook format works on desktops, laptops and most usefully, iPads so long flight times can now be spent learning rather than playing Solitaire :-)

Up until now I have used iPhoto mainly and Aperture occasionally and was looking at alternatives because they have an annoying and an increasingly Apple attitude of having to do it their way. For instance once you have imported your images it is actually quite difficult to find the original files because they are kept in a folder which you can only open if you know how to! Lightroom and I got off to a very good start when Doug told me that I can store my images where I want them and Lightroom only refers to them rather than imprisons them.

The second good start was just a few minutes into Doug's presentation when he encouraged me to consider using an external hard drive so that I could easily switch from my desktop to my laptop and still have access to my complete library. At present the photo libraries on my desktop and laptop are not the

same because I use the laptop while travelling and desktop while at home. I'm sure there's a way of syncing them but I like Doug's suggestion because it makes me feel more in control.

Having learnt how to set up your files and scheduled a simple virtually foolproof back up system and imported your first batch of images it's time to move on to the 'Development' stage where Lightroom offers you the most amazing array of controls which, if Doug wasn't with you, could be way over the top. Fortunately Doug's calm presentation is paced just right to give you information you can remember without overload.

As a Photoshop user I'm fairly comfortable working with colour correction and enhancement but I still learnt a lot of new stuff watching the explanation of the multiple slider settings but it was in the Capture and Creative Sharpening that this app really shone out because it has always been a bit of a dark art to me and I have never really taken time to study it. Fortunately Doug was there to walk me through it and enlighten me about Sharpening, Radius, Detail and Masking followed by very useful guidance on how to reduce noise both colour and luminance. By the end of this 17 minute section I had had a whole new world opened up to me.

The beauty about this sort of presentation is that after such a full on learning curve you can



pause to make a cup of tea or do something else until you feel ready to learn more.

By the time I had got to the end of the Development Section I had been shown how to manipulate my images in any way whatsoever, should I want or need to. Even at this stage I felt that it was already worth the full asking price of \$108 (£66) (€79). (There is currently a Seasonal offer on but it may have expired by the time you read this). My confidence in how to achieve improvements quickly and efficiently was growing as was my enthusiasm to do so but I wasn't even half way through yet!

The best way I found to work with Doug's presentations was to have my trial version of Lightroom open so I could pause Doug and produce the same effect he had been talking about on one of my own images. This helped me get to know my way around Lightroom and it worked well for me.