1

INSTALL PHOTOWARP

Insert the PhotoWarp CD into your computer and run the installer. If you are on PC with Windows XP, you may need to install .NET Framework and QuickTime which are on this CD. When Installation is done, please restart your computer.

PhotoWarp Installer

2

PRINT THE QUICK START USER MANUAL

On your PhotoWarp CD, there is a QuickStart User Manual. Please print this out and keep it next to your Mac or PC as it will guide you through the steps necessary to use your GoPano or Kaidan 360 One VR Optic.

QuickStart Guide.pdf

3

TUTORIAL CD with VIDEO

Disc Two of your PhotoWarp package is a Tutorial CD. On this CD you have a folder called Sample Images. Drag this folder to the desktop of your Mac or PC. These images will be needed to teach you how PhotoWarp works.

Sample Images

PhotoWarp Video Tutorials

QuickStart Guide for the GoPano 360° Optic.

A

SET THE FOCUS TO MACRO
(A) See the close up flower icon? Press this until you see the Flower Icon on the back of your camera. This sets the camera to focus on the mirror.

Turn VR OFF.
VR (Vibration Reduction) is a feature available on a lot of cameras but is incompatible with the GoPano optic.

B

FLASH. Turn OFF.
You will see a circle icon with a LIGHTNING bolt in the center.

C

Turn DIAL to M for Manual.

D

F-Stop for Point & Shoot Cameras
Use an F-stop between F6.1 and F7.4

F-Stop for SLR Cameras
Use an F-stop of F22 or higher.

E

Choose Close Up or Macro Mode
If your point and shoot camera has a Macro close up mode (Flower or Face icon), use it to focus on the mirror.

F

Shutter Speed
Set this to the desired setting that works with your indoor or out door lighting.

Typically indoor settings will be*

1
1/15
1/30
1/60

Outdoor Settings will be*

1/125
1/250
1/300

*Experiment and write down the settings that work best for you. Lighting will always play a big role in how good your images come out. Practice will pay off with great looking panoramas.

IMPORTANT NOTE
If your camera has a close up mode (Flower or Face icon) use it to focus on your mirror. Press the shutter lightly to get it to focus on the mirror. Your image should be clean and sharp like the example above - not blurry.

TIP# 1 • The Perfect GoPano (Donut Image)

SHUTTERBUG SAM SAYS:
If your circular donut images are not coming out right, 90% of the problems can all be attributed to one problem that's so easy to resolve. You are simply ZOOMING in too much, or NOT zooming OUT enough. Below are visual examples of two problems and the ideal (correct) image. Please follow the GOOD example for zooming out and your results will be a whole lot better.

Your camera make and model will vary but this is what you are aiming for when using your GoPano optic. Try to make your circular image like the first camera below.

PICTURE PERFECT!
You need to ZOOM out a few click stops so your donut image kisses the top and bottom. If you exceed the top and bottom a hair, that's ok, just don't go TOO big.

WAY TOO SMALL!
If you don't make your GoPano circular image big enough, you'll have poor resolution or a "funky" looking panorama.

WAY TOO BIG!
You'll lose field of view with images that are zoomed out too big like this.

TIP# 2 • GoPano Focus. Turn On Close Up (Flower or Face icon)

SHUTTERBUG SAM SAYS:
Your point and shoot camera has to be set to a CLOSE UP icon (Nikon, Sony, Olympus, Kodak, Minolta, Panasonic Lumix, Canon G6 or G9, etc.) Find the Tulip (Flower) or the Face (Close Up) icon on your camera and make SURE this is turned on.

See below. The top camera is circle is perfect, but the image seems blurry. F-stop is good, other settings are good you just forgot one tiny step.

TURN THE CLOSE UP SETTING ON.

Note the bottom donut image looks perfect, sharp and clear. This is your goal.

BLURRY. NOT GOOD.
NOT having your Flower or Close Up Face icon turned ON is the reason why your image will look like the example here. Your camera needs to focus on the mirror which is 170mm away from the lens.

PERFECT & CRISP
Most every camera has the Close Up Macro setting. It is either a Flower or a Face icon. Make sure yours is turned on. When you barely press the shutter, the image will be crisp and focused like this.

TIP# 3 • GoPano Exposure Control Best Practices.

SHUTTERBUG SAM SAYS:
The BEST way to get the most out of your GoPano one shot system is to set your camera (regardless of make or model) to M for manual. Then adjust the Shutter Speed to the desired setting that is optimum for INSIDE and OUTSIDE photography.

✖ TOO DARK. YUK!
The F-stop is fine, the Close Up is on. But the image is too dark. The reason: The Shutter speed is too fast. This image was taken at 1/250th of a second which is why the image is a bit dark.

✖ A BIT BETTER, BUT STILL TOO DARK
You can see a bit more detail but this image is still a bit too dark. The Shutter speed was reduced to 1/60th of a second, but as you clearly see, this needs to be a longer exposure, not a shorter one.

✖ OOPS! TOO MUCH. OVER-EXPOSED
This is a full second and is resulting in the room being over exposed. In some rooms, 1 second will be perfect, but for this shot, 1 second is just too much. Reduce your shutter speed a bit if you see over exposed donut images like this.

✔ PERFECT!
The shutter speed was reduced to 1/15th of a second and for the light in this room, it resulted in a picture perfect shot. You will need to experiment and write down settings that work for you for both inside and outside shots.
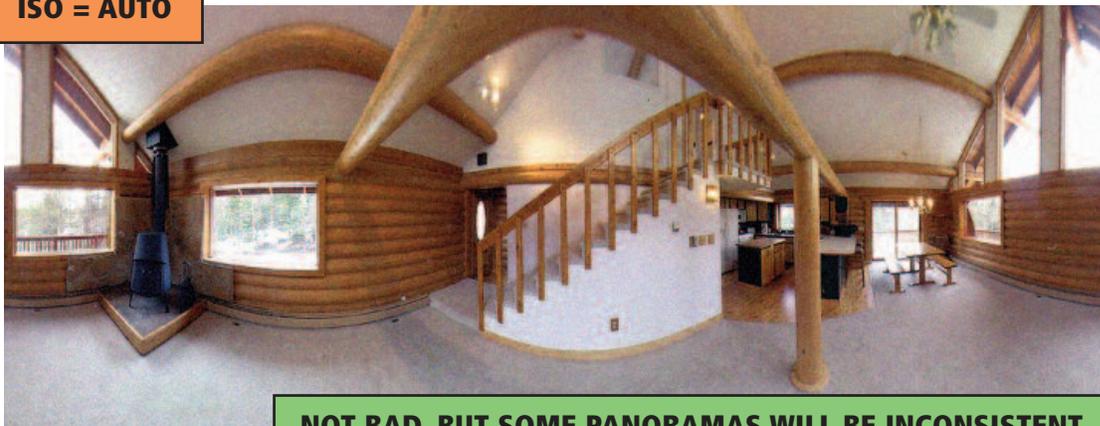
TIP# 4 • Fixing Noisy or Grainy Panoramas.

SHUTTERBUG SAM SAYS:
The single biggest problem in seeing noise or grain in your panoramic images is the fact that your ISO (Film Speed) is set to AUTO or the wrong setting. ISO on digital cameras simulates film speed. So for fast action shots, you would normally choose film rated at ISO 400 or even 800. But for panoramas and the GoPano, you want the lowest film speed (ISO) possible. We like 64 or 100. NEVER set your ISO to AUTO.
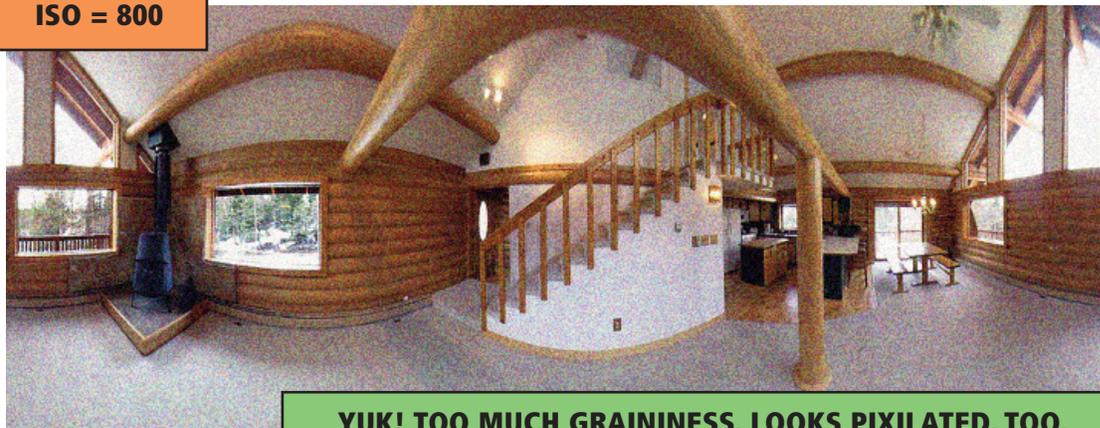
ISO = AUTO

NOT BAD, BUT SOME PANORAMAS WILL BE INCONSISTENT.

ISO = 800

YUK! TOO MUCH GRAININESS. LOOKS PIXILATED, TOO.

ISO = 100

PERFECT PANORAMA. SEE THE DIFFERENCE? THIS IS ISO=100.