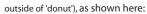
0-360 Panoramic Optic Setup

- 1) Mount Camera to tripod, securely, with lens pointing vertically.
- 2) Thread Optic (with lens adapter, if required) to camera. (Do not overtighten.)
- 3) Adjust tripod until Optic is vertical (refer to bubble level on top of unit).
- 4) Set shooting Mode to 'Aperture Priority' ('Av' or 'A') and turn Power on.
- 5) Set Aperture to F8.0 (F16 or F22 on SLR cameras)
- 6) Set ISO to 100 (200 for SLR cameras)
- 7) Set Image Size to as large as possible (Large, maximum image dimensions)
- 8) Set Image Quality as high as possible ('Fine' or 'Superfine')
- 9) Adjust zoom until 'donut' is as large as possible, without running off frame:
- 10a) Adjust Manual Focus until the horizon in your scene (halfway between inside and outside of 'donut') is in focus:



10b) Alternatively, some cameras will get good focus in Auto Focus mode. To test, turn Macro Focus on (), and press the shutter button halfway down to get the camera to focus, then press fully to take the image. If your camera has the ability to move the focus point away from center, move it to the horizon in the image (halfway between inside and



11) Turn Timer on (\$\infty)

12) Turn Flash off





13) If your camera has the ability to store the settings, do so now. While it is a good idea to check the settings and focus before each shot, this will save you time in entering the settings each time.

14) Press the shutter release. You have 10 seconds to hide!

Not Zoomed in enough!

'Donut' doesn't fill frame







Quick Start Guide

ITNATAO9MI

Please read the Care Instructions on back page.

most cameras

Instructions for use with

A note about Aperture, Depth of Field, and Field of View

Aperture- a mechanism behind the camera lens similar to the iris of your eye, opening and closing to adjust the amount of light entering the camera. The aperture opening also determines the Depth of Field of the image.

Depth of Field- describes the objects in the image which are in focus, in terms of their distance from the camera. For example, a camera focused at 30m, with a Depth of Field of 8m, will have objects from 26-34m from the camera in focus. Objects closer than 26m or further than 34m will start to become blurry.

Field of View- the vertical Field of View (vFOV) of the 0-360 attachment. The 0-360 has a vFOV of 115 degrees, meaning it will "see" from 52.5° above the horizon to 62.5° below the horizon.

A smaller Aperture opening (higher F-Stop number) allows less light to enter the camera, but yields a higher Depth of Field. With a high F-Stop, the shutter speed needs to be slowed down to allow more light (else a dark photo), but will have more Depth of Field in focus.

A larger Aperture opening (lower F-Stop number) allows more light to enter the camera, but a lower Depth of Field. This means the shutter speed can be faster, but fewer objects will be in focus. (With slower shutter speeds, moving objects may

The 0-360 is designed to operate with a camera F-Stop of F8.0 or higher. This provides a high enough Depth of Field to allow the entire mirror to be in focus. With lower F-stops, the shutter speed can be increased, but the upper or lower portions (or both) of the mirror may not be entirely in focus. This means the image far above or far below the horizon may not be sharply focused. This may not be a problem, as many times the sky or the ground may not need to be sharply focused.

With the right camera and lens, you should be abe to achieve good focus across the entire image.

For best results, shoot a well-lit scene! With high F-Stops, you need good lighting, or longer exposure times.

> moo.03E-0@sells 2483 Simons Ct. Carson City, NV 89703 div. of Bellissimo, Inc.

360° Panoramic Photos, Just One Click!"

ENJOY!

only. This warranty supersedes all other warranties, express or implied. freight prepaid. 0-360.com's liability is limited to repair or replacement of the Optic Return Authorization from 0-360.com, and return the unit properly packaged and its option, repair or replace the Optic free of charge. Purchaser must first obtain a mirror surface. If a defect in workmanship or material is discovered, 0-360.com will, at caused by accident, abuse, misuse, exposure to the elements, or scratches to the for a period of one year from date of purchase. This warranty does not cover damage The 0-360 Panoramic Optic is warranted against defects in material and workmanship

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4) Use care in threading the Optic into your camera, avoiding cross-threading.

cool, dry environment. 3) Store the unit in its carrying case when not in use, in an upright position and in a 2) Avoid dropping or mishandling the unit, as it is a sensitive glass optical device. absolutely necessary, and rub gently. NEVER use a paper towel or other material to clean. provided to remove dust before shooting. Use lens cleaning paper or lens cloth only if coating, touching or rubbing on its surface can cause scratches. Use the dust blower 1) Do not touch, handle, or polish the mirror! While the mirror does have a protective

the Optic should give you years of service. Here are a few important handling Thank you for purchasing the 0-360 Panoramic Optic! With proper care and handling,

> Care Instructions **ITNATAO9MI**

