

FANOTEC

Nodal Ninja Ultimate R1 Ring Mount Pano Head

Quick Reference Guide



revised: July 16 2009

©2009 Nodal Ninja

For added support visit:
www.nodalninja.com/forum
For videos visit:
youtube.com/nodalninja



Loosen the knob on the outer ring until slit of outer ring is about 6mm wide. Squeeze the inner ring to remove it from the outer ring.



Inner ring denotes the lens type. The arrow should point away from camera.

In many cases, the focusing scale will be hidden by the lens ring mount. It is recommended to tape the focusing ring at predetermined focus distance at the beginning. Most frequently used distance is 0.5-1 meter using an aperture of F8-F13.



Stretch and slide the inner ring to the anchor point on the lens body. The anchor point of each lens is shown in the Appendix.



Align the opening of the inner ring to the left of camera .



Press the inner ring against the lens body firmly. Tape it and push it against the anchor point.

3



Align the outer ring to the opening of inner ring as shown at the left. Insert the outer ring. Tighten its knob slightly. Rotate the outer ring so that it snaps to the inner ring.



Look for features such as marks and focusing switch that point to top, bottom, left or right of camera. Align the outer ring to the desired roll angle using these features. Tighten the knob fully.

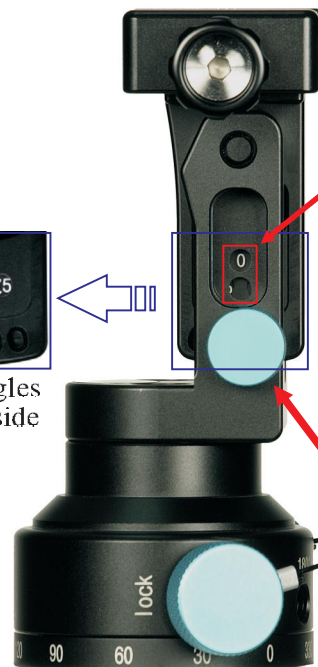


Images at the left show some examples of these features. If no such feature exists. A mark or label can be added to lens body.

4



Tilt angles at left side



Tilt angle indicating windows.



Tilt angles at right side

Blue tilt knob can be used on either side to give different tilt angles.

Loosen the tilt knob by 2 turns. Tilt the quick release (QR) clamp up to expose the tilt angle markings. Switch the tilt knob to the side with desired tilt angle. Tilt the QR clamp down until desired tilt angle aligns with one of the indicating windows. 0° tilt is selected in image shown above.

5



Mount the lens on the camera. Mount lens ring on QR clamp. Tighten the clamp slightly. Slide the lens ring plate to the NPP setting. There are 3 lines marked on the QR clamp. Use the center line for distance reading. Other lines are 1.5mm apart from the center line. Use them to assist reading to an accuracy of 0.5mm. The image above shows a reading of 2.55cm.

Some known NPP settings are listed in appendix.

Follow this calibration guide if NPP is unknown for the lens in use.

<http://www.johnhpanos.com/epcalib.htm>

6



D4 Rotator with 4 selectable click stops

60° = 6 stops around
90° = 4 stops around
120° = 3 stops around
180° = 2 stops around

Select the shooting interval and screw the detent plunger to the corresponding socket. Take one row of images.



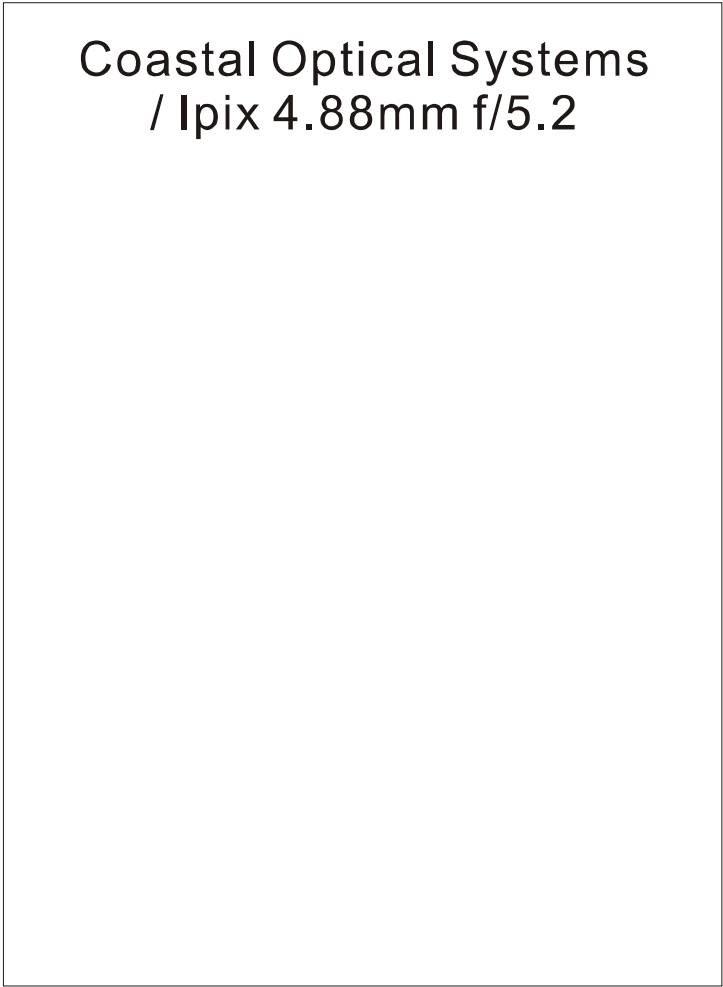
Loosen the tilt knob by 2 turns. Tilt the camera up and down to take the zenith and nadir shots.

Appendix Anchor Point For Lenses

Canon EF 15mm f/2.8



Coastal Optical Systems
/ Ipix 4.88mm f/5.2



Minolta AF 16mm f/2.8



Nikon 10.5mm f/2.8 DX



Appendix Anchor Point For Lenses

Nikon AF 16mm f/2.8 D



Olympus Zuiko Digital
8mm f/3.5



Peleng 8mm f/3.5

Pentax DA 10-17mm
f/3.5-4.5



Appendix Anchor Point For Lenses

Sigma 4.5mm f/2.8 DC
for Canon



Sigma 4.5mm f/2.8 DC
for Nikon



Sigma 8mm f/3.5 DG
for Canon



Sigma 8mm f/3.5 DG
for Nikon



Appendix Anchor Point For Lenses

Sigma 8mm f/4 DG
for Canon



Sigma 8mm f/4 DG
for Nikon

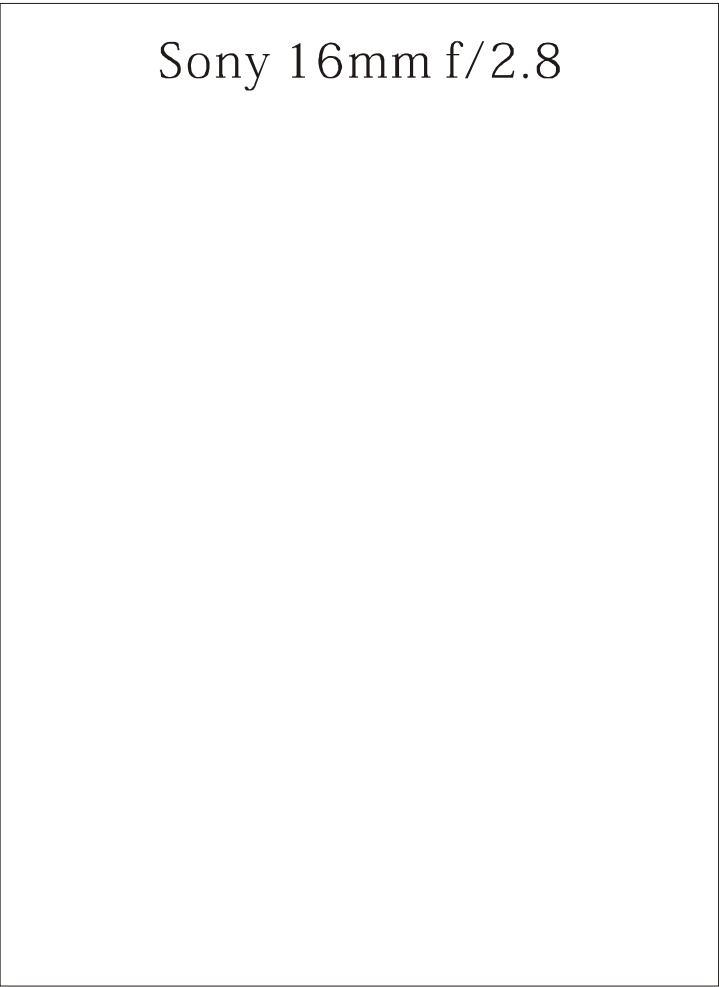


Sigma 10mm f/2.8 DC
for Canon



Sigma 10mm f/2.8 DC
for Nikon

Appendix Anchor Point For Lenses



Appendix Anchor Point For Lenses

Tokina 10-17mm f/3.5-4.5 DX
for Canon and Nikon



Zenitar 16mm f/2.8
for Canon

Nikon 10.5mm f/2.8 DX

3 shots around (shaved lens on full frame sensor)

Tilt angle	NPP value
+5°	1.45
0°	2.00
-2.5°	2.30

Nikon 10.5mm f/2.8 DX

4 shots around (shaved lens on full frame sensor)

Tilt angle	NPP value
+5°	1.10
0°	1.85
-2.5°	2.05

Nikon 10.5mm f/2.8 DX

6 shots around

Tilt angle	NPP value
+7.5°	0.80
0°	1.65
-7.5°	2.65
-10°	2.85

Sigma 4.5mm f/2.8 DC for Canon

2 shots around

Tilt angle	NPP value
0°	3.85

Sigma 4.5mm f/2.8 DC for Canon

3 shots around

Tilt angle	NPP value
+5°	2.70
0°	3.40
-2.5°	3.70

Sigma 4.5mm f/2.8 DC for for Nikon

2 shots around

Tilt angle	NPP value
0°	3.55

Sigma 4.5mm f/2.8 DC for for Nikon

3 shots around

Tilt angle	NPP value
+7.5°	2.05
+5°	2.40
0°	3.05
-2.5°	2.40
-7.5°	4.05

Sigma 4.5mm f/2.8 DC for for Nikon

4 shots around

Tilt angle	NPP value
+7.5°	1.90
+5°	2.25
0°	2.9
-2.5°	3.25
-7.5°	3.95

Sigma 8mm f/3.5 DG for Canon

4 shots around

Tilt angle	NPP value
+12.5°	1.00
+7.5°	1.65
+5°	1.95
0°	2.65
-2.5°	2.95
-7.5°	3.60

Sigma 8mm f/3.5 DG for Nikon

2 shots around (on full frame sensor)

Tilt angle	NPP value
0°	2.35

Sigma 8mm f/3.5 DG for Nikon

3 shots around (on full frame sensor or APS sensor with 60° roll)

Tilt angle	NPP value
+7.5°	0.50
+5°	0.80
0°	1.50
-2.5°	1.75
-7.5°	2.40

Sigma 8mm f/3.5 DG for Nikon

4 shots around

Tilt angle	NPP value
+7.5°	0.15
+5°	0.5
0°	1.2
-2.5°	1.5
-7.5°	2.2

Sigma 8mm f/3.5 DG for Nikon

6 shots around

Tilt angle	NPP value
+7.5°	0.05
+5°	0.4
0°	1.1
-2.5°	1.4
-7.5°	2.1

Sigma 10mm f/2.8 DC for Canon

3 shots around (shaved lens on full frame sensor)

Tilt angle	NPP value
+7.5°	2.05
+5°	2.35
0°	3.00
-2.5°	3.35
-7.5°	4.00

Sigma 10mm f/2.8 DC for Canon

4 shots around (shaved lens on full frame sensor)

Tilt angle	NPP value
+7.5°	1.85
+5°	2.2
0°	2.85
-2.5°	3.2
-7.5°	3.9

Sigma 10mm f/2.8 DC for Canon

6 shots around

Tilt angle	NPP value
+7.5°	1.80
+5°	2.10
0°	2.75
-2.5°	3.10
-7.5°	3.75
-10°	4.10

Sunex 5.6mm f/5.6 for Canon and Nikon

2 shots around

Tilt angle	NPP value
0°	3.05

Sunex 5.6mm f/5.6 for Canon and Nikon

3 shots around

Tilt angle	NPP value
+7.5°	1.45
+5°	1.70
0°	2.35
-2.5°	2.70
-7.5°	3.30

Sunex 5.6mm f/5.6 for Canon and Nikon

4 shots around

Tilt angle	NPP value
+7.5°	1.15
+5°	1.5
0°	2.15
-2.5°	2.5
-7.5°	3.1

Tokina 10-17mm f/3.5-4.5 DX for Canon and Nikon

3 shots around at 10mm (shaved lens on full frame sensor)

Tilt angle	NPP value
+5°	2.55
0°	2.80
-2.5°	3.15

Tokina 10-17mm f/3.5-4.5 DX for Canon and Nikon

4 shots around at 12mm (shaved lens on full frame sensor)

Tilt angle	NPP value
+7.5°	1.55
+5°	1.90
0°	2.55
-2.5°	2.90
-7.5°	3.55