Solmeta®
Geotag your world

GEOTAGGER N3

User Manual (V2.1)

Solmeta Technology Co., Ltd

Copyright ©2017 Solmeta Technology Co., Ltd. All Rights Reserved

Contents

Introduction

Thank you for your purchase of a Solmeta Geotagger N3 receiver. The receiver can geotag your shots .Easy to use!
Be sure to read this manual thoroughly before use.

Features:

- The real time geographical information is recorded to the EXIF metadata of the image file.
- Tri-axial geomagnetic sensor and tri-axial acceleration sensor used to calculate direction. The compass can be calibrated.
- High sensitivity, capture the GPS signal quickly.
- Power from camera directly, very low power consumption. A special work mode applied for low power consumption and also keeps capturing GPS signal quickly.
- "Indoor fixed", automatically re-use the last received GPS information when there is no GPS signal.
- Shutter release socket, allows you to use the remote trigger when the remote terminal is used by Geotagger N3. A remote cord for remote shutter release is free provided.
- Even through the cable is fixed design, but it can be changed very easily. If you update your camera model in future, the receiver can also be updated to the compatible mode accordingly.

Packing list

Thank you for purchasing the Geotagger N3. Before you start, make sure that the following items are included in your package. If any of these items are missing, please contact us.

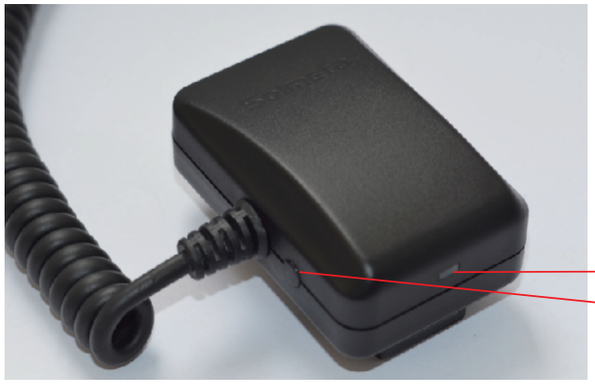
- Geotagger N3 receiver
- Camera strap adapter (holds the receiver on camera strap when the hot shoe is not available)
- Manual
- Storage bag
- Remote cord

The illustration shows the itmes of one package of the Geotagger N3-A

Product view

Connector

Shutter release socket



GPS signal acquisition indicator

Compass Calibration button

Hot shoe connector

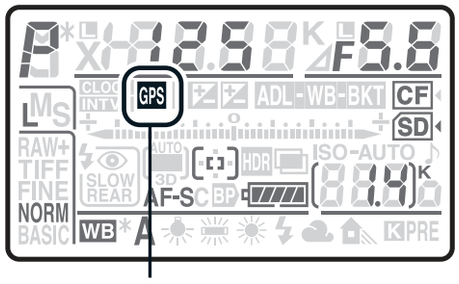
Geotagging Image as You Shoot

1. Connect the Geotagger N3 to a Compatible DSLR Camera, check the connection

- Turn the camera off.
- Mount the receiver on the camera by sliding its base into the flash hot shoe or by using the supplied strap adapter to attach it to the camera strap. Then insert the connector to the camera's GPS terminal.
- Turn the camera on, the GPS signal acquisition indicator will fast red blink and a blinking GPS icon will be displayed in the camera's control panel or LCD monitor.

2. Obtain a GPS fix

To acquire GPS signals, bring the receiver and connected camera outdoors where the sky is unobstructed and aim it up.10-30 seconds later, the GPS signal acquisition indicator will slow blink green or green light up. Meanwhile, the binking GPS ICON in the camera's control panel or LCD monitor will be steady. This means the receiver is GPS signal fixed and ready to provide the current GPS data to the camera.



GPS icon illustration shows
control panel for the carema

3. Take photo as normal and images will be automatically geotagged.

Since the receiver has one built-in electronic compass which can provide the direction, the images can also be tagged with the shooting direction if your camera support heading recorded.

LATITUDE	:N : 35° 35. 971'
LONGITUDE	:E :139° 43. 696'
ALTITUDE	:35m
TIME (UTC)	:10/01/2012 :01:15:00
HEADING	:105. 17

Note

- The application of GPS is a little different from each model of Nikon camera, the user must refer to the camera's manual to know the detail of how to use the GPS unit.

- The receiver is powered from the camera and it is only on when it is connected to the camera.
  The receiver is totally off when the cable connecting to the camera is disconnected.
  Or, even though keep the cable connected to the camera, the receiver will be off when the camera has been off for 3 hours. During the 3 hours, the receiver runs a "wake up and sleep" working mode which can avoid drains camera power more and also keeps capturing GPS signal quickly. You will no longer worry the power consumption in your photographic day and always keep the receiver stays connected to the camera while you are not using it.

- Indoor fixed
  If you wish to take geotagged photos in situations where the GPS signal is lost after it was acquired, such as when going indoors to continue shooting, the "Indoor fixed" function, will automatically reuse the last known position for subsequent images. Under the circumstances, the GPS icon in the camera's control panel is steady but the GPS signal capture indicator on the receiver is traffic lights blink. Only when the new acquisition is available, the receiver will immediately report the updated GPS data to the camera.

- GPS signal acquisition indicator
  The receiver has a single multi-colored LED that changes color to signify different operating conditions.

LED color	LED status	Description
Red	Blinking	The N3 is searching for GPS signals.
Green	Slowly blinking	The N3 is searching for GPS signals and has obtained 2D fixed.
	Light up	The N3 is signal fixed and ready to provide GPS data to camera.
	Slowly blinking when the camera is off	Wake up for searching GPS signals when camera is off.
Green and red	Alternate blinking	Indoor fixed
Orange	Blinking	Compass calibration mode

Compass calibration

Why calibrate?

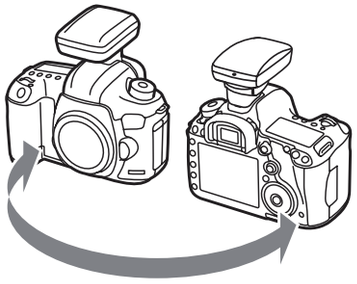
The compass in the receiver is sensitive to nearby magnetic objects that could cause measuring error. To compensate for this error it is sometime necessary to perform a calibration. If the compass is not accurate, please do the calibration first.

How to calibrate?

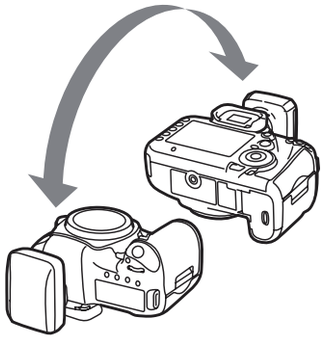
1. Mount the receiver on the camera's hot shoe and cable connected to the camera, turn the camera on, the GPS signal LED indicator on the receiver will blink red.
2. Press the calibration button to prepare calibration, and the LED turns orange blinking.
3. Rotate the camera

   Step1. Rote the camera laterally in at least a 180° arc.
   Step2. Rote the camera up and down in at least a 180° arc.
   Step3. Rote the camera in at least a 180° arc as it faces the same direction.
   Step 1, 2, and 3 can be done in any order. Please do try to keep a constant speed of rotation, and each rotation takes almost 10 seconds.

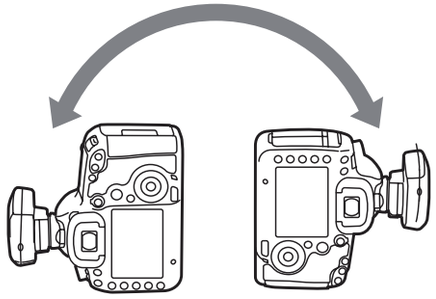
Step1



Step2



Step3



4. After doing the rotation upon, press the calibration button again to complete the calibration. The LED indicator will blink red.

Note

- Magnetic sensors are very sensitive to nearby magnetic objects, which can cause calibration errors and misreading. Please keep the receiver away from magnetic source when perform a calibration.
- If the compass is not accurate after the calibration, please repeat above operations.

Specifications

Compatible cameras	Nikon DSLR cameras *Cameras with GPS function
Geotagging Images	Latitude, longitude, elevation, direction, time (UTC)
Reception frequency	1575.42 MHz (L1 band)
Data format	NMEA-0813
Data update rate	One time per second
Digital compass	Tri-axial geomagnetic sensor and tri-axial acceleration sensor used to calculate direction
Power supply	Charge from the connected camera
Dimensions	56 x 36 x 19 mm /2.2 x 1.4 x0.7 in. (W x H x D)
Weight	Approx. 50 g / 1.8 oz.
Operating temperature	-40°C to +80°C /-40° F to 176° F
Operating humidity	5% to 95%, Non condensing

- Receiver specifications and appearance are subject to change without notice.

Mounting illustration

The Geotagger N3 connected to Nikon D300

The Geotagger N3 connected to Nikon D5300

Warranty

- Solmeta Technology Co., Limited guarantees its product from manufacturing defects and workmanship for a period of **two-year** from the date of original purchase. During the two-year warranty, Solmeta Technology will repair or replace the product free of charge. Please keep your original invoice as proof of purchase.

- Customers who have products covered under the warranty are required to contact Solmeta Technology by e-mail (service@solmeta.com) for troubleshooting issues before returning the product.

- Customers are responsible for shipping and insurance charges for returning the product to Solmeta Technology.

- Charges will be imposed for repairing product, which is out of warranty coverage or invalid warranty.

- The guarantee is not valid if defect is due to damage caused by incorrect use, poor maintenance or if persons not authorized by Solmeta Technology have carried out alterations or repairs.

  For the device to be used correctly, the user should strictly adhere to all instructions included in the user guide and should abstain from any actions or uses that are described as undesired or which are warned against in the user guide.

Safety Precautions

To prevent damage to the GPS unit or injury to you or to others, please read the following safety instructions before using this equipment.

Do not drop
The product may malfunction if subjected to strong shocks or vibration.

Keep dry
This product is not waterproof, and may malfunction if immersed in or exposed to water.

Avoid sudden changes in temperature
Sudden changes in temperature, such as occur when entering or leaving a heated building on a cold day, can cause condensation inside the device. To prevent condensation, place the device in a carrying case or plastic bag before exposing it to sudden changes in temperature.

Keep away from strong magnetic fields
Do not use or store this device in the vicinity of equipment that generates strong electromagnetic radiation or magnetic fields. Strong static charges or the magnetic fields produced by equipment such as radio transmitters could affect the product's internal circuitry.

Information in this document is subject to change without notice. Solmeta Technology reserves the right to change or improve their products and to make changes in the content without obligation to notify any person or organization of such changes or improvements.

Contact/Service

If you have any questions or need help with our products please do not hesitate to get in touch with our Technical Service. You can reach our service people by phone under the telephone number indicated below from Monday through Friday from 9:00 am to 5:00 pm. Independently of these service times you can also get in touch by e-mail;

Solmeta Technology
Tel: +86 755 26969187
E-mail: service@solmeta.com
www.solmeta.com

PRINTED IN CHINA

Shenzhen Solmeta Technology Company

Add: Room 327, Building 5, Zhong Xing Industrial Town,
Chuang Ye Road, Nan Shan district, Shenzhen,
518054,China
Tel: +86-755-26969187 Fax: +86-755-26969187
E-Mail: service@solmeta.com
Web: www.solmeta.com