

# User Manual

Compact Geotagging Unit for Nikon DSLR Cameras

## Power

Built-in rechargeable battery (M1, M2)  
From camera(M0)

## Connector

Direct connect to Nikon D2x, D2Hs, D2Xs, D3, D3x, D3s, D200, D300, D300s, D700, and Fujifilm S5 Pro(via accessory cable C10), Nikon D90 (via accessory cable C90) and Nikon D3100, D5000, D5100, D7000(via accessory cable C50).

## Physical Characteristics

Dimension 50mm\*44mm\*19mm  
Weight: 50g  
Operating Temperature -20 to +60 Degrees Celsius  
Operating Humidity: 5% to 90%, No Condensing

## Warranty:

METAGPS Inc. provides 1 year limited warranty for our products. We will repair or exchange the product free of charge within one year from the purchase date. Please contact us for troubleshooting before returning products.

This GPS unit is designed for Nikon DSLR (Digital Single Lense Reflex) cameras. It acquires longitude, altitude, elevation, UTC (Coordinated Universal Time) and heading information to be embedded into RAW and JPEG images. Users can look up the exact location where the pictures are taken with software such as Google Map.

## Unique Selling Points:

- Built-in GPS chipset and antenna;
- Built-in electronic compass (M2);
- Connect directly to Nikon DSLR cameras without MC-35;
- Internal rechargeable battery (M1 and M2);
- Can draw power from camera when internal rechargeable battery runs low;
- Built-in 2.5mm jack for external remote shutter release connection;
- Small and compact.

## Compatible camera models:

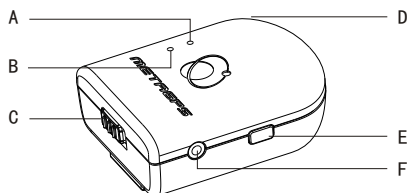
Nikon D2x, D2Hs, D2Xs, D3, D3x, D3s, D200, D300, D300s, D700, and Fujifilm S5 Pro (via accessory cable C10), Nikon D90 (via accessory cable C90) and Nikon D3100, D5000, D5100, D7000 (via accessory cable C50).

**Note:** Nikon D200 camera will display GPS coordinates but not heading.

## MetaGPS line of products:

- |   |           |
|---|-----------|
| <ul style="list-style-type: none"> <li>• Built-in GPS chipset and antenna</li> <li>• Connect to Nikon DSLR without MC-35</li> <li>• Built-in 2.5mm jack for remote shutter release</li> </ul>   | <b>M0</b> |
| <ul style="list-style-type: none"> <li>• Built-in GPS chipset and antenna</li> <li>• Connect to Nikon DSLR without MC-35</li> <li>• Built-in 2.5mm jack for remote shutter release</li> <li>• Internal rechargeable battery</li> </ul>  | <b>M1</b> |
| <ul style="list-style-type: none"> <li>• Built-in GPS chipset and antenna</li> <li>• Connect to Nikon DSLR without MC-35</li> <li>• Built-in 2.5mm jack for remote shutter release</li> <li>• Internal rechargeable battery</li> <li>• Built-in electronic compass</li> </ul> | <b>M2</b> |

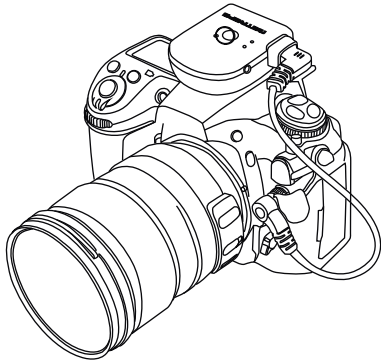
## User manual:



- A—GPS Indicator
- B—Internal Battery Indicator (M1 and M2)
- C—Power Switch
- D—Electrical Charger Connector
- E—Electronic Compass Reset
- F—2.5mm Remote Shutter Release Jack

## Operation Manual:

- 1、 Turn off camera power;
- 2、 Connect METAGPS to camera with supplied cable;
- 3、 Switch METAGPS power switch to "ON";
- 4、 Switch camera power switch to "ON".

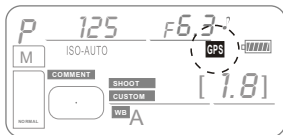


## GPS indicator in DSLR: (please refer to Nikon DSLR User Manual)

If METAGPS is connected properly to a camera, the camera will display the GPS icon. In open sky, it usually takes about 1 minute for METAGPS to acquire the initial location.

Note: After acquiring the initial location, METAGPS will enter sleep mode when the camera is power off. METAGPS will auto start when the camera is turned on again and will acquire new location in 3-5 seconds.

Camera Indicator	Working Status
No GPS indicator	Camera is not connected to GPS
GPS blinking	GPS is searching for signal
GPS light on	GPS location is acquired



METAGPS indicators	Indicator Lights	Working Status
	Off	GPS Off
GPS Indicator (Blue Light)	Quick blinking (once every second)	GPS is searching for signal and GPS data not recorded
	Slow blinking (once every three second)	GPS location is acquired
Battery Indicator (M1 and M2) (Red Light)	Off	Battery is in normal working condition
	Solid	Battery low

## Internal Rechargeable Battery:

METAGPS products M1 and M2 come with internal rechargeable battery.

Before using it for the first time, please charge the battery to full. When internal battery is low, the battery indicator will turn on. The unit will then draw power from the camera. If you do not wish to power the unit from the camera battery, you shall recharge it as soon as possible. A complete recharge takes about 3 hours.

## Electronic Compass:

METAGPS product M2 comes with built-in electronic compass which will record heading information. Please point the camera and the unit in the same direction by mounting METAGPS on the camera flash accessory shoe.

## Strap Adapter:

You can attach the METAGPS unit to the strap of the camera with the supplied strap adapter.

## Inside the Package:

- 1、 METAGPS unit
- 2、 Connection cable
- 3、 Battery charger ( M1 and M2 )
- 4、 User Manual
- 5、 Strap Adapter

## Specifications:

### General

Chipset: Low Power Single Chip SiRF Star III  
 Frequency: L1, 1575.42 ±1.023MHz  
 Sensitivity: -159 dBm  
 Accuracy: (Open Sky) Position 10 meters

### Datum

WGS-84  
 Output message: NMEA 0183  
 Data rate: 4,800 Baud

### Acquisition Time (Open sky, stationary requirements)

Hot start: 5 sec., average  
 Cold start: 45 sec., average

### Electronic Compass

Magnetic Field Range: 50A/m  
 Heading Range: 0 - 359°  
 Accuracy: +/-5°  
 Sensitivity: 1°