Solmeta®

Geotag your world

GMAX

GPS Geotagger

INSTRUCTION MANUAL
Version 1.0

Camera Geotagger
For Nikon or Canon
GPS plus Beidou
Barometric altimeter
Position Tracing Logger
Shutter Release Remoter
LCD display
Bluetooth technology
GPS

Contents

Introduction

Thank you for your purchase of a Solmeta GPS receiver GMAX. The GMAX Receiver can geotag your shots and record the routes of your travel. Easy to use!
Be sure to read this manual thoroughly before use.

Highlights

- GPS/BDS information can be checked in LCD screen in real time, especially the signal strength and the number of the satellites can be displayed.
- GPS plus Beidou (BDS), double mode positioning, acquire GPS/BDS signal faster, positioning more quickly, more accurate.
- Triaxial geomagnetic sensor and triaxial acceleration sensor used to calculate direction.
- Atmospheric pressure sensor ensures accurate altitude, the altitude can be calibrated.
- Built-in high-capacity lithium rechargeable battery, a full charge supports 18 hours continuous work on the condition of the backlight and indicators all are off.
- The receiver will automatically switch to use the camera's power when the internal battery reaches a low level.
- " Indoor location" function, re-use the last received GPS/BDS information when there is no GPS/BDS signal. Or, Indoor location can be disabled.
- In Auto working mode, the GMAX is on or off following the connected camera's on or off.
- Detachable connecting cable allows different cable to use with different Nikon camera models.
- 4GB memory keeps a record of location information along the traveled route.
- The receiver is equipped with Bluetooth. While a " GMAX-Remoter " APP installed in your mobile phone, the receiver can communicate with the APP and used as a wireless remoter to realize the focus and shutter release on the camera.

Features

Geotagging Images and Adding the Shooting Direction
When the receiver is attached to the camera, the location information (latitude, longitude, elevation) and shooting time (UTC, Coordinated Universal Time) can be added to the images as they are taken.

Images can also be tagged with the shooting direction by using the receiver's digital compass.

GPS/BDS logger
The receiver can be used as a tracing logger which keeps a record of location information along the route traveled.
Build in 4GB memory card, the user no longer worry whether the storage space is enough or not. The 4GB memory supports more than 170 days continuous log record at the interval of 1 sec.

Using as an accuracy clock
The receiver can be used as an accuracy clock. The accuracy is based on the time which could be adjusted by GPS/BDS intermittently.

Timer release
The receiver can be used as an external timer release device when it connected to a camera.
You can set the shooting start time, shooting end time and the interval via the custom setting.

Wireless remoter
While a Solmeta " GMAX-Remoter " APP installed in your mobile phone, the GMAX and your mobile phone can be used together as a wireless remoter.

Packinglist

Confirm that the package contains the following items
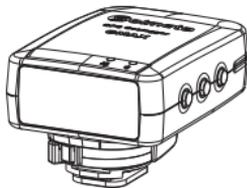

GMAX

Storage bag

Manual
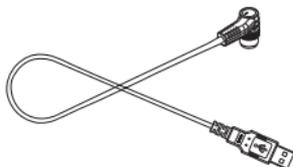
USB cable for charging & downloading logging data

Data cables (Connecting cables)
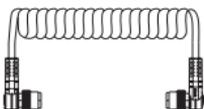
Cable-GD for Ten-pin remote terminal
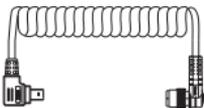

Cable-GE for Nikon D90
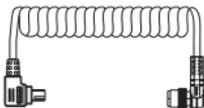
Cable-GF for Accessory terminal

Note
There is only one data cable in the standard package.

Nomenclature

▽ Down Key
⇔ Enter Key
△ Up Key
✳ Bluetooth/Log indicator
📡 GPS/BDS acquisition indicator

⏻ Power/Home Key

Data/USB Terminal

Mounting foot locking lever
Release button
Contacts
Mounting foot locking pin
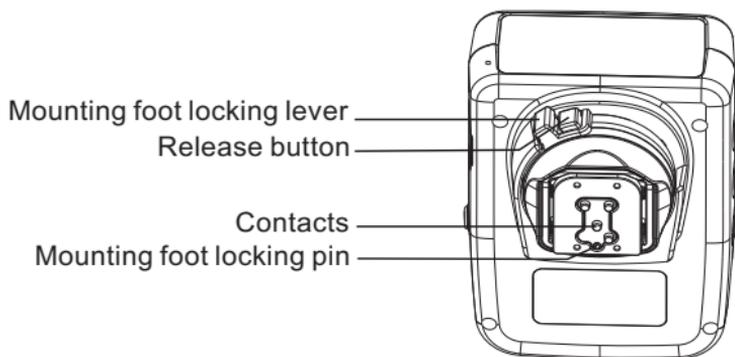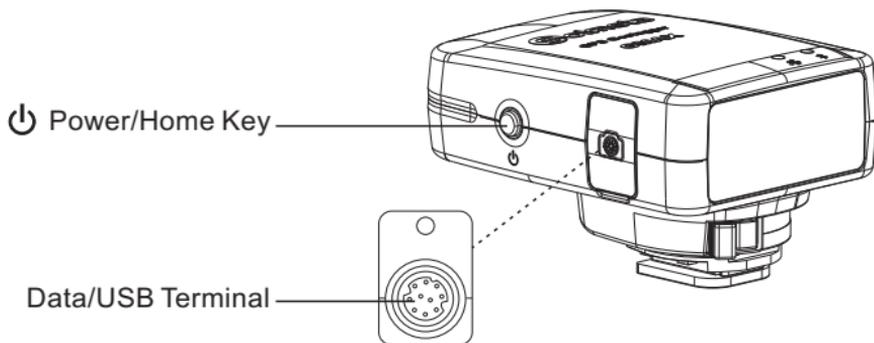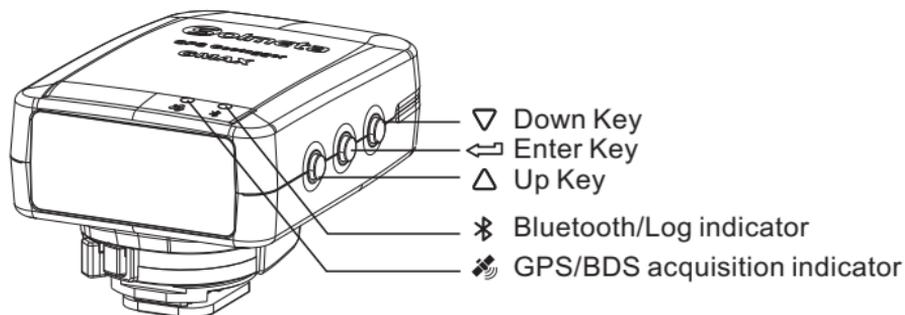
Charging

The receiver is equipped a high-capacity lithium rechargeable battery, a full charge supports more than 18 hours of continuous work. The receiver can be charged by using any USB port that provides standard 5 volts.

Note
- 3-4 hours for a full charge. The battery icon 🔋 in the LCD shows the battery level.
- The current voltage of battery can be checked anytime in custom setting.
- When the power close to run out, the battery icon 🔋 will flash. After about 10 minutes, the receiver will automatically switch to use the camera's power and the battery icon will not be displayed in the LCD.

Turning the Receiver On

To turn on the receiver, press ⏻ for more than 3 seconds until the LCD shows

The firmware version will be displayed first, and then the latitude and longitude will be displayed in the LCD.

Turning the receiver off

1.Short press ⏻ ,the LCD shows a flashing ON $?$
2.Short press △ or ▽ until the LCD shows a flashing OFF $?$, and then short press ⟸ to turn off the receiver.
3.In some special situations, such as the receiver is software frozen and it cannot be turned off via upon procedure. In this case, the receiver can be forced off by pressing ⏻ and ⟸ together.

Acquiring GPS/BDS signals

To acquire GPS/BDS signals, bring the receiver outdoors where the sky is unobstructed and aim it up. Turn on the receiver to start automatic GPS/BDS signal acquisition. To check the acquisition status, watch the GPS/BDS indicator.
Fast red blinking: Signal not acquired
Slow green blinking: Signal acquired, 2D positioning fixed
Stable green: Signal acquired, 3D positioning fixed
When the receiver is searching the signal, a flashing 🛰 is displayed in the LCD. Once the signal acquired, the 🛰 will be stable and the latitude, longitude will be displayed in the LCD accordingly. The number in the top left indicates how many satellites are used.

Geotagging Image as you shoot

Connect the GPS/BDS signal acquired receiver to a compatible camera. Take photo as usual, the images will be geotagged as you shoot. The images can also be tagged with the shooting direction.

1. Turn off the camera.
2. Inset the receiver's mounting foot fully into the accessory shoe. Secure the receiver.
3. Connect the receiver to the camera via the data cable. Plug one end into the receiver's terminal and secure the connection. Plug other end into the camera's Ten-pin remote terminal or Accessory terminal.
4. Turn on the camera, a stable GPS icon or other signal icon will be displayed in the camera's monitor or control panel.
5. Take photo and images is automatically geotagged.

LATITUDE	:N
	:22° 31.0786'
LONGITUDE	:E
	:113° 55.1056'
ALTITUDE	:79m
TIME(UTC)	:2015/10/06
	:08:30:25
HEADING	:260.10°

The GPS/BDS data and heading viewed on the camera
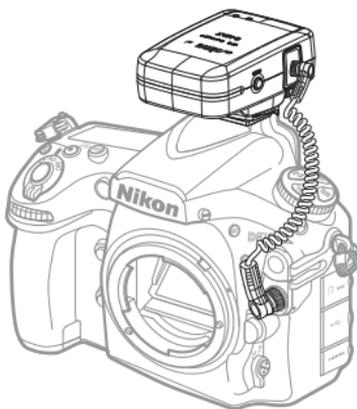
The GMAX is connected to the Ten-pin terminal camera

The GMAX is connected to the Accessory termainal camera

Note

- Since each camera's GPS application is different, the user must refer to the camera's manual to know the detail of how to use the GPS unit.

- 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 receiver's "indoor location" function, which is enabled by default, will reuse the last known position for subsequent image.

- Following with each shutter release, the image's GPS information also is recorded in the log file and the data is marked a " *Flash* " to indicate.

Auto working mode
You can choose Auto working mode in your photography day.
When choosing Auto working mode, the receiver is on or off following the connected camera's on or off. This ensures the receiver drains the power less and acquires the GPS signal quickly.
The receiver is always on standby in Auto working mode. You can set the GPS working frequency and the working time of each time in Auto working mode. (See page 29)

How to start the Auto working mode?
1. While the receiver is on, press ⏻ and the LCD shows a flashing $-ON\ 2-$
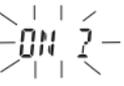
2.Press △ or ▽ until a flashing $-AUTO\ 2-$ shown, and then

press ⇐, a stable $STANdb\ !$ will be displayed. The Auto working mode is activated.

10

GPS/BDS logger

The GMAX can be used as a data logger. When the GMAX is GPS/BDS signal fixed, location information can be automatically recorded on the receiver itself along the route traveled. (There is no need to connect the receiver to the camera.)

The recorded location information can be viewed on a virtual map. Logs can also be used to geotag images at a later time.

Location information is recorded at regular intervals with the receiver. You can specify the positioning interval via the custom setting. The default is every 10 seconds. For how to set the interval see page 31. The GMAX supports more than 170 days continuous log record at the interval of 1 sec.

To check the logging record status, watch the logging indicator and the MEM icon on the LCD.

Red blinking: The logging indicator will blink once while the location information recorded.
MEM icon also will blink once while the location information recorded.

The flash memory can be easily read by the computer via USB connection. Just like a "U flash driver", no software needed. Log file can be saved or deleted on the computer.

The file system supports FAT32 format.

The main menu display

When the receiver is GPS/BDS signal fixed, you can check the GPS/BDS information, compass data and other information in the LCD. Press △ or ▽, the following 6 different displays will be shown in the LCD, one by one.

LCD	Description
N 22. 31.0786 E 113 55.1056	**The char in the up indicate the latitude. The char on the bottom represent the longitude.**
260 N MN --00 --00°	**The char in the up indicate the direction. The char on the bottom represent the pitch and roll.**
70 MILE 66 FT	**The char in the up indicate the current speed. The char on the bottom represent the altitude.**
70 MILE 85° HEAd	**The char in the up indicate the current speed. The char on the bottom represent the course over ground.**
U 09:33:28.1 10. 06. 2015	**The char in the up indicate the time (UTC or Local time). The char on the bottom represent the date. Note: Once the TIM displayed, it means the time is accurate as 1/10 seconds and the signal is 3D fixed.**
93.5 °F 14.767 PSI	**The char in the up indicate the internal temperature inside the receiver. The char on the bottom represent the air pressure.**
-SET 2-	**This is the custom setting.**

Custom setting

You can customize the following features to suit your preference.

1. Which positioning system to be used, GPS, Beidou, or GPS+Beidou. The default is GPS+Beidou double positioning.

2. The display format of latitude and longitude

　　　.. .. ..° .. ..'   or   .. .. ..° .. ..' .. .."

3. Enable the "Indoor fixing" or disable it. Indoor fixing means when you are into a place where is no a GPS signal, the receiver is able to provide the last GPS information.

4. The backlight of the LCD is on or off.

5. Signal acquisition indicator and Bluetoot/Log indicator are on or off.

6. The "beep" voice is on or off while pressing the button.

7. Enable the compass function or disable it.

8. Compass calibration.

9. Which direction data displayed, the data is based on true north or magnetic north.

10. Level calibration.

11. Select the speed unit, Mile, Kilometer or Knots.

12. Select the altitude unit, meter or feet.
    Select which altitude data to be displayed, the data is from GPS/BDS or atmospheric pressure.

13. What kind of time to be shown on the LCD, UTC or Local time. The local time can be set.

14. The date display format, DD. MM. YYYY, MM. DD.YYYY, or YYYY. MM. DD

15. The temperature unit, Fahrenheit or Centigrade. The temperature is the temperature inside of the receiver.

16. The air pressure unit: psi, hpa, or bar.

17. GPS/BDS working frequency and the working time of each time in Auto mode.

18. GPS/BDS working frequency and the working time of each time in Clock mode. (The time can be adjusted by GPS/BDS, which make the time accurate).

19. Check the available memory for logging. Set the logging interval, or turn off logging. The interval can be set as 1s, 5s, 10s, 15s, 30s, 1min, 2min, 5min, 10min, 20min or 30min. 10 seconds is the default.
20. Turn on the bluetooth or turn it off.
21. Timer release setting.
22. Restore the receiver.

The following information can be checked in the custom setting

1. The battery's current voltage.
2. The GPS/BDS chip's firmware version and the Blue-tooth chip's version.

Access the custom setting

1. When the receiver is on, press △ or ▽ until the LCD shows

```
[08  ⚡30📶          ⎍
        -SET ?-
```

2. To access the custom setting, press ⇔ and the first setting of choosing the positioning system will be activated simultaneously

```
[08  ⚡30📶          ⎍
        SAT
          GPS bdS
```
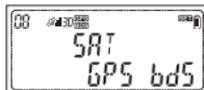
3. To access other setting, press △ or ▽. To exit the custom setting and back to the main menu display, press ⏻

Custom setting introduction

Menu Item	Option Item	Description
SAT	GPS bdS GPS bdS	Which positioning system to be used, GPS+Beidou, GPS or Beidou, GPS BDS: GPS plus Beidou, double position system GPS: Global Position System BDS: Beidou Position System
GEO dISP	···˙ ··-··-··˙ ···˙ ··˙ ··-··˙	The display format of latitude and longitude.
INdOOR	LOCK UNLOCK	Enable the "Indoor fixing" or disable it. LOCK means Indoor fixing. When you are into a place where is no a GPS signal, the receiver is able to provide the last GPS information. UNLOCK means does not use the GPS information.

15

bACK LEd	ON → H IGH L IGHT M Id L IGHT LOW L IGHT dELAY → I M IN 2 M IN 3 M IN 4 M IN 5 M IN OFF	The LCD backlight is on, off or delay off. ON means the backlight is always on. OFF means the backlight is always off. Delay means the backlight will be automatically off a few minutes later. When choosing on, 3 kind of different brightness can be selected, low light, middle light or high light. When choosing delay off, the time can be set as 1min. 2min. 3min. 4min or 5min.
STATE LEd	ON OFF	The indicators of the GPS/BDS signal acquisition and the Blue tooth/Log are on or off.
bEEP	ON OFF	The "beep" voice is on or off while pressing the button.
d IR	ON OFF	Enable the compass function or disable it.
MAGNET CAL.	[_____]	Compass calibration
Direction data	MN TN	Direction is based on the data of true north or magnetic north. MN means the direction is based on magnetic north. TN means the direction is based on true north.

GPA CAL.	--00° --00°	Level calibration
SPEEd	*MILE* *KNOT* *KM*	The speed unit. Mile, Kilometer or Knots.
ALT	*GPS-ALT* *AIR-ALT* *FT* *m*	The altitude unit, meter or feet. Which altitude data to be shown, the data from GPS/BDS or atmospheric pressure. The altitude data can be calibrated when choosing the atmospheric pressure data.
U or *L*	*U* *L*	What kind of time to be shown in the LCD, UTC or Local time. L means Local time, U means UTC.
MM dd. YYYY	*MM dd. YYYY* *dd MM. YYYY* *YYYY.MM.dd*	The date display format.
F or *C*	*F* *C*	The temperature unit. F means Fahrenheit. C means Centigrade.
PSI *bAR* *HPA*	*PSI* *bAR* *HPA* → *CAL.*	The air pressure unit. PSI means Pounds per Square Inch. 1bar=1000HPA The pressure value can be calibrated when choosing HPA.

AUTO SET	*FRE* *CON*	GPS/BDS working frequency and the working time of each time in Auto mode. FRE is the frequency. 10min, 15min, 30min, 60min, or 90min can be selected. CON is the working time. 1min, 3min, or 5min can be selected.
CLOCK SET	*FRE* *CON*	GPS/BDS working frequency and the working time of each time in Clock mode. FRE is the frequency. 1H, 2H, 4H, 8H, 24H, 48H, or 96H can be selected. CON is the working time. 1min, 3min, or 5min can be selected.
FAT3773Mb	*00:00:01* *00:00:05* *00:00:10* *00:00:15* *00:30:00* *dISAbLE*	The number following the FAT is the available memory for logging. Set the logging interval, or turn off logging. The interval can be set as 1sec, 5sec, 10sec, 15sec, 30sec, 1min., 2min, 5min, 10min, 20min and 30min. Disable means turn off the logging. 10 sec. is the default.

18

SET bLE	OFF ON → CH GMAX**-00	Turn on the Bluetooth connection or turn it off. CH GMAX ** means the name of the device. The name can be set as 00, 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, and 15.
	Shooting start time Shooting end time STEP	Timer release setting. S means set the shooting start time. E means set the shooting end time. STEP means the interval
bAT	bAT 4.15 V	The number following the bAT is the current voltage of the battery.
SAT bLE	SAT V01 bLE V1-2-1	The number following the SAT is the firmware version of the GPS/BDS chip. The number following the bLE is the version of the Bluetooth.
SET RESTORE ?	FINISH SHUT dOWN	Restore the receiver to factory settings.

How to do the custom setting?

When the receiver is custom setting accessed, press △ or ▽ is to access next setting or change the option. Press ⇐ is to activate current setting or complete the setting.

Note
To exit the current setting and return to the main menu display, press ⏻ .

Set the positioning system

1. While the LCD shows [display: `SAT GPS bdS`] press ⇐ and the option menu will flash.

2. Press △ or ▽ to change the option

[display: `SAT GPS bdS`] [display: `SAT GPS`] [display: `SAT bdS`]

3. While your preferred positioning system appears, press ⇐ to confirm your selection.

Set the display format of latitude and longitude

1. While the LCD shows [display: `GEO dISP`] press and the option menu will flash.

2. Press △ or ▽ to change the option [display: `GEO dISP`] [display: `GEO dISP`]
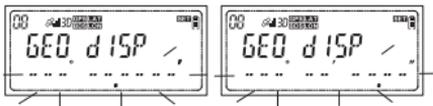
3. While your preferred display format appears, press ⇐ to confirm your selection.

Enable the "Indoor fixing" or disable it

1. While the LCD shows [INdOOR LOCK] press ⇐ and the option menu will flash.

2. Press △ or ▽ to change the option

[INdOOR LOCK]   [INdOOR UNLOCK]
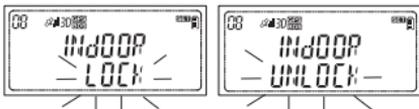
3. While your preferred option appears, press ⇐ to confirm your selection.

Set the LCD backlight on, off or delay off

1. While the LCD shows [bACK LEd ON] press ⇐ and the option menu will flash.

2. Press △ or ▽ to change the option

[bACK LEd ON]   [bACK LEd dELAY]   [bACK LEd OFF]

3.1 If you prefer ON, press ⇐ while a flashing ON displayed, and the secondary option will flash.
    Press △ or ▽ to change the option

[bACK LEd HIGH LIGHT]   [bACK LEd MId LIGHT]   [bACK LEd LOW LIGHT]
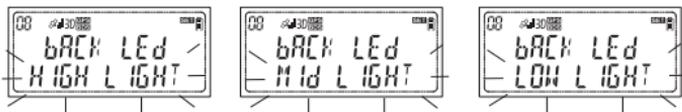
    While your preferred brightness appears, press ⇐ to confirm your selection.

3.2 If you prefer Delay Off, press ⇐ while a flashing dELAY displayed, and the secondary option will flash.
   Press △ or ▽ to change the option, 1min, 2min, 3min, 4min or 5 min.
    While your preferred time appears, press ⇐ to confirm your selection.

3.3 If you prefer OFF, press ⇐ while a flashing OFF displayed and the backlight will be always off.

Set the indicators of the GPS signal acquisition, logging and the Bluetooth are on or off

1. While the LCD shows [STATE LEd ON] press ⇐ and the option menu will flash.

2. Press △ or ▽ to change the option [STATE LEd −ON] [STATE LEd −OFF]
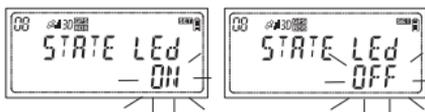
3. While your preferred option appears, press ⇐ to confirm your selection.

Set the "beep" voice on or off while pressing the button.

1. While the LCD shows [bEEP ON] press ⇐ and the option menu will flash.

2. Press △ or ▽ to change the option [bEEP −ON−] [bEEP −OFF−]
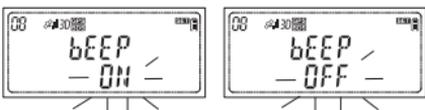
3. While your preferred option appears, press ⇐ to confirm your selection.

Enable the compass function or disable it.

1. While the LCD shows [d IP ON] press ⇐ and the option menu will flash.

2. Press △ or ▽ to change the option

```
┌──────────────┐   ┌──────────────┐
│ 08 ▲30▦  ▭▭  │   │ 08 ▲30▦  ▭▭  │
│    d IP      │   │    d IP      │
│   _ ON _     │   │   _ OFF _    │
└──────────────┘   └──────────────┘
```
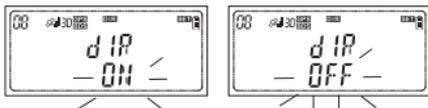
3. While your preferred option appears, press ⇐ to confirm your selection.

Doing the 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 accurate, there is no need to perform the calibration)

How to calibrate?

1. While the LCD shows

```
┌──────────────┐
│ 08 ▲30▦  ▭▭  │
│  MAGNET CAL. │
└──────────────┘
```

Press ⇐ and the LCD shows

```
┌──────────────┐
│          ▭▭  │
│    CAL.      │
│  [_____] │
└──────────────┘
```

23
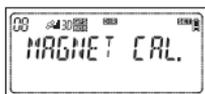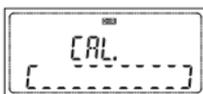
2.Perform the follow operation

Around X-axis   Around Y-axis   Around Z-axis
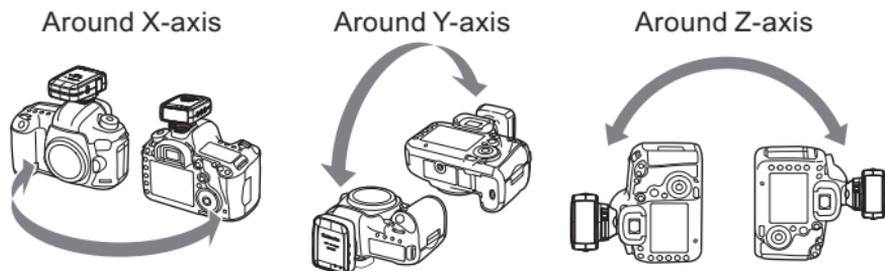
Hold the receiver, and rotate it slowly around the X-axis, Y-axis, and Z-axis, each axis done twice. Please do try to keep a constant speed of rotation, and each rotation takes almost 10 seconds.

3.After doing the rotation in each axis, press ⇐ to complete the calibration.

Select your preferred direction data, the data is based on true north or magnetic north.

1.While the LCD shows ⟦26 ↑ MN⟧ press ⇐ and the option menu will flash.

2.Press △ or ▽ to change the option ⟦MN⟧ ⟦TN⟧

3.1 If you prefer MN press ⇐ while the LCD shows a flashing — MN —

and the LCD will show ⟦dEV IRT CAL. 002 N MN⟧ It means the calibration mode is activated.

24

To do the calibration, press ⟸ while pointing the receiver to the magnetic north. (You should find the magnetic north in your location with help of other accurate compass.)

3.2 If you prefer TN press ⟸ while the LCD shows a flashing TN

and the LCD will show [display: VAP IRT CAL. 005 E TN] It means the calibration mode is activated.

To do the calibration, press ⟸ while pointing the receiver to the true north. (You should find the true north in your location with help of map or others)

Level calibration

1. While the LCD shows [display: GPA CAL. --00 --00] press ⟸ the pitch and the roll on the bottom will flash.

2. To do the level calibration, let the receiver in a horizontal position and then press ⟸ the flashing pith and roll will be stable. The calibration is completed.

Set the speed unit

1. While the LCD shows [display: SPEEd 0 MILE] press ⟸ and the option menu will flash.

2. Press △ or ▽ to change the option

[display: SPEEd 0 MILE]   [display: SPEEd 0 KNOT]   [display: SPEEd 0 - KM]

3. While your preferred unit appears, press ⟸ to confirm your selection.

Select your preferred altitude unit, and select the altitude data is from GPS or atmospheric pressure

1. While the LCD shows [display: `AIR-ALT 258 FT`] press ⟸ and the option menu will flash.

2. Press △ or ▽ to change the option [display: `AIR-ALT 258 — FT`] [display: `AIR-ALT 79 — m`]
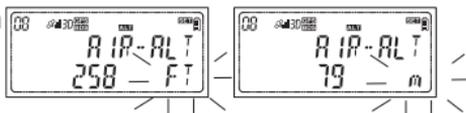
3. While your preferred unit appears, press ⟸ to confirm your selection and the secondary option will flash. The secondary option is to select which altitude to be shown.

4. Press △ or ▽ to change the option $GPS-ALT$ or $AIR-ALT$

4.1 If you prefer the altitude from GPS, press ⟸ while a flashing $GPS-ALT$ displayed and the LCD will show [display: `GPS-ALT OK`] press ⟸ again to complete the setting.

4.2 If you prefer the altitude from atmospheric pressure, while a flashing $AIR-ALT$ displayed, press ⟸ and the LCD will show [display: `AIR-ALT OK`]

   Press ⟸ again and the third option will flash, the third option is to do the altitude calibration in different way.

   Press △ or ▽ to change the option

   $AUTO-CAL. by$ $MANU-CAL. by$ $SEA-LEV CAL$
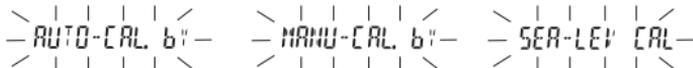
4.2.1 If you prefer using the GPS data as the reference to do the calibration, while the LCD shows [display: `AUTO-CAL. by GPS-ALT`] press ⟸ and the LCD will show [display: `AUTO-CAL. OK`] press ⟸ again to complete the calibration.

4.2.2 If you prefer using the sea level pressure as the reference to do
the calibration, while the LCD shows

```
┌─────────────────┐
│ 88  ▨▨▨▨    ▨▨▨ │
│  SEA-LEV  CAL   │
│    101986 PA    │
└─────────────────┘
```
press ⇐ and

the value on the bottom will flash. Press △ or ▽ and ⇐ to adjust the
value. While the value is adjusted to the sea-level pressure issued
by the local observatory, press ⇐ and the LCD will show

```
┌─────────────────┐
│ 88  ▨▨▨▨    ▨▨▨ │
│  SEA-LEV        │
│    OK           │
└─────────────────┘
```
press ⇐ again to complete the calibration.

4.2.3 If you prefer using the altitude as the reference to do the calibration,
while the LCD shows

```
┌─────────────────┐
│ 88  ▨▨▨▨    ▨▨▨ │
│  MANU-CAL  b    │
│    +00 103FT    │
└─────────────────┘
```
press ⇐ and the value on

the bottom will flash. Press △ or ▽ and ⇐ to adjust the value. While the
value adjusted to the altitude of your location which is known in
advance, press ⇐ to complete the calibration.

Set what kind of time to be shown on the LCD, UTC or Local time

1. While the LCD shows

```
┌─────────────────┐
│ 88  ▨▨▨▨    ▨▨▨ │
│  U    09:58:39.3 │
└─────────────────┘
```
press ⇐ and the option menu
will flash.

2. Press △ or ▽ to change the option

```
┌─────────────────┐   ┌─────────────────┐
│ 88  ▨▨▨▨    ▨▨▨ │   │ 88  ▨▨▨▨    ▨▨▨ │
│  U    09:58:39.3 │   │  L    10:08:35.2 │
│                 │   │  L  ↓  8   10   │
└─────────────────┘   └─────────────────┘
```

3.1 If you prefer the UTC, while a flashing

```
┌─────────────────┐
│ 88  ▨▨▨▨    ▨▨▨ │
│  U    09:58:39.3 │
└─────────────────┘
```
displayed,
press ⇐ to confirm your selection.

3.2 If you prefer the local time, press ⇐ while a flashing

```
┌─────────────────┐
│ 88  ▨▨▨▨    ▨▨▨ │
│  L    10:08:35.2 │
│  L  ↓  8   10   │
└─────────────────┘
```

displayed, and the secondary setting option on the bottom will flash

 The secondary setting is to set the local time.

Press △ or ▽ to add or reduce the time zone and the time will be changed accordingly. While the local time is adjusted to the current local time, press ⇐ again to complete the setting and the LCD will show the local time.

Set the date display format

1. While the LCD shows press ⇐ and the option menu will flash.
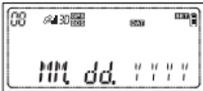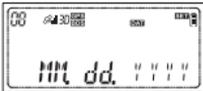
2. Press △ or ▽ to change the option
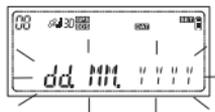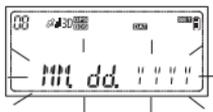
3. While your preferred display format appears, press ⇐ to confirm your selection.

Set the temperature unit

1. While the LCD shows press ⇐ and the option menu will flash.
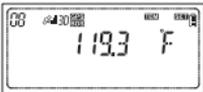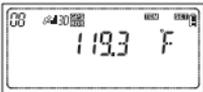
2. Press △ or ▽ to change the option

3. While your preferred unit appears, press ⇐ to confirm your selection.

28

Set the air pressure unit

1. While the LCD shows [LCD: 14750 PSI] press ⟸ and the option menu will flash.

2. Press △ or ▽ to change the option

[LCD: 14750-PSI] [LCD: 1017.0-bAR] [LCD: 1017.0-HPA]

3.1 If you prefer the unit as PSI, press ⟸ while a blinking −PSI− displayed and the flashing char will be stable.

3.2 If you prefer the unit as bar, press ⟸ while a flashing −bAR− displayed and the flashing char will be stable.

3.3 If you prefer the unit as HPA, press ⟸ while a flashing −HPA−

displayed and the LCD will show [LCD: 1017.0 HPA CAL.−+00−] it means the calibration mode is activated.

To do the calibration, press △ or ▽ to adjust the value. While the value is adjusted to the reference value of your location, press ⟸ to complete the calibration.

Note
The calibration value is default by factory. You can only do the calibration when the reference value of your local observatory issued is available. The factory default cannot be changed even perform the restore setting.

Set GPS/BDS working frequency and the working time of each time in Auto mode

1. While the LCD shows [LCD: AUTO SET] press ⟸ and the LCD

will show [LCD: AUTO SET FRE 10 MIN]

Press ⬅ again and the option will flash

```
88 ⩘⩘30▦          ▨▨▨▨▨▨
   AUTO SET
   FRE—10 MIN
```

2. Press △ or ▽ to change the option, the option is the GPS working frequency.10min, 15min, 30min, 60min, or 90min can be selected.
3. While your preferred frequency appears, press ⬅ and the LCD will show as

```
88 ⩘⩘30▦          ▨▨▨▨▨▨
   AUTO SET
   CON  1 MIN
```

4. Press ⬅ again and the option will flash

```
88 ⩘⩘30▦          ▨▨▨▨▨▨
   AUTO SET
   CON—1 MIN
```

5. Press △ or ▽ to change the option, the option is the GPS working time of each time. 1min, 3min, or 5min can be selected.
6. While your preferred working time appears, press ⬅ to confirm your selection.

Set GPS/BDS working frequency and the working time of each time in Clock mode

1. While the LCD shows

```
88 ⩘⩘30▦          ▨▨▨▨▨
   CLOCK SET
```

press ⬅ and the LCD will show as

```
88 ⩘⩘30▦          ▨▨▨▨▨
   CLOCK SET
   FRE  1 H
```
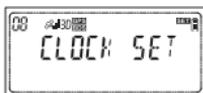
2. Press ⬅ again and the option will flash

```
88 ⩘⩘30▦          ▨▨▨▨▨
   CLOCK SET
   FRE—1 H
```

3. Press △ or ▽ to change the option, the option is the GPS working frequency. 1hr, 2hr, 4hr, 8hr, 24hr, 48hr, or 96hr can be selected.
4. Press ⬅ while your preferred frequency, and the LCD will show

```
88 ⩘⩘30▦          ▨▨▨▨▨
   CLOCK SET
   CON  1 MIN
```

5.Press ⇐ again and the option will flash

```
[00  ⊿30▦      ▦▩]
    CLOCK SET
    CON-1 MIN
```

6.Press △ or ▽ to change the option, the option is the GPS working
   time of each time. 1min, 3min, or 5min can be selected.
7.While your preferred working time appears, press ⇐ to confirm your
   selection.

Set the regular interval of logging the travel routes

1.While the LCD shows
```
[00  ⊿30▦      ▦▩]
    FAT3773Mb
```
press ⇐ and the LCD will
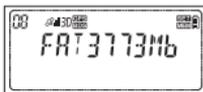
show
```
[00  ⊿30▦      ▦▩]
    00:00:01
```

2. Press ⇐ again and the option menu will flash
```
[00  ⊿30▦   |  |  ╱▦▩]
    -00:00:01-
    ╱  |  |  ╲
```

3. Press △ or ▽ to change the option, the option is the interval.
   1sec, 5sec, 10sec, 15sec, 30sec, 1min, 2min, 5min, 10min, 20min.
   30min or disable can be selected. Disable means turn off the logging.
4.While your preferred interval appears, press ⇐ to confirm your
   selection.

Turn on the Bluetooth or turn it off

1.While the LCD shows
```
[00  ⊿30▦      ▦▩]
    SET bLE
    OFF
```
press ⇐ and the option menu
   will flash.

2.Press △ or ▽ to change the option
```
[00  ⊿30▦      ▦▩]     [00  ⊿30▦      ▦▩]
    SET bLE              SET bLE
    -OFF-               - ON -
    ╱ | ╲               ╱ | ╲
```
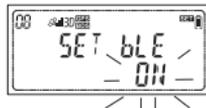
3.1 To turn on the Bluetooth, press ⇐ while the LCD shows
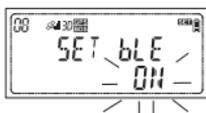
and the LCD will show

it is to set the device name.

Press △ or ▽ to choose your wanted name, the name can be set as 00, 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, and 15. While your preferred name appears, press ⇐ to confirm your selection.

3.2 To turn off the bluetooth, press ⇐ while the LCD shows

The default is turn off.

Timer release setting

Restore the receiver
1. While the LCD shows [SET RESTORE ?] press ⇐ and the LCD

will show [SET RESTORE ?]

2. Press ⇐ again and the receiver will automatically turn off. The receiver is restored.

Other applications

Timer release

The receiver can be used as an external timer release device when it is connected to the camera. You can specify the shooting start time, shooting end time and the interval according to your wanted via the custom setting.

How to set the timer release?

1. When the receiver is custom setting accessed and the LCD shows press ⇐ and the shooting starting time option

   will flash

2. Press △ or ▽ and ⇐ to set the starting time as you wanted.

3. While the LCD shows it is to set the shoot ending

   time. Press △ or ▽ and ⇐ to set the ending time as you wanted.

4. While the LCD shows it is to set the interval.

   Press △ or ▽ and ⇐ to set the interval time as you wanted.
   After completing the timer release setting, connect the receiver to your camera via the data cable and the camera can be timer released as you wanted.

Wireless remoter

To use the GMAX as a camera wireless remoter, a " GMAX-Remoter " APP should be installed in your mobile phone in advance. The APP is a wireless remoter software. It can communicate with the GMAX receiver via the Bluetooth, and then to realize the focus and shutter release on the camera. (At the time of writing, the GMAX only supports iPhone iOS.)

1. Download and install the Solmeta APP in your mobile phone. The Solmeta APP can be searched in the "App Store" by inputting the key words of " GMAX-Remoter " .

2. Ensure that the Bluetooth of your GMAX and your cellphone are on and the GMAX has been connected to the camera properly.
   The Bluetooth is off and the channel (device name) is GMAX00 by default.

3. Running the "GMAX-Remoter" APP on your mobile phone. The APP will communicate with the GMAX. If the communicate is successful, the Bluetooth indicator on the receiver will green light up.

4. Use the APP as a remoter to realize the focus and shutter release on the camera.
   For how to use the APP please refer to the "About" in the APP.

An accuracy clock
The receiver can be used as an accuracy clock. The time can be adjusted by GPS/BDS. You can set the GPS working frequency in custom setting. See page 30

How to run the clock mode?
1.While the receiver is on, press (¹) and the LCD shows a flashing $ON\ ?$
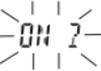
2.Press △or ▽until a flashing $CLOCK\ ?$ Shown, and then press ⇐

The clock mode is activated and the LCD only shows the time information.

3.To exit the clock mode, press (¹)

Note
● The last char in the LCD is fast running

```
U    09:33:28.()
    10. 06. 2015
```

press ⇐ can get the char stable.

● If you prefer the local time shown in the clock, you can do the setting in custom setting. See page 27

Specifications

Compatible cameras	Nikon DSLR cameras
	∗Cameras equipped Ten-pin remote terminal or Accessory terminal for GPS unit.
	* Cameras doesn't support GPS unit **<LOG>** mode available
Geotagging Images	Latitude, longitude, elevation, direction, time (UTC)
Internal memory	4 GB
Reception frequency	L1, 1575.42 MHz B1, 1561.098MHz
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	1900 mAh Li-ion
Dimensions	55 x 75 x 45 mm /2.2 x 3. 0 x1. 8 in. (W x H x D)
Weight	Approx. 110 g / 3. 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.

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.

Precautions for use

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.

A note on electronic devices: In extremely rare instances, a strong external static charge may cause the device to stop functioning. Turn the camera off and disconnect and reconnect the GMAX In the event of continued malfunction, contact your retailer or Solmeta-authorized service representative.

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.

Solmeta®

Geotag your world

PRINTED IN CHINA