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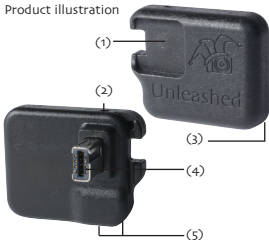
GPS / Geotagging

Unleashed

D90

Instruction Manual

Product illustration



- (1) Cavity for storing rubber flap
- (2) Attachment for leash
- (3) LED
- (4) Plug for Nikon D90
- (5) Socket for MC-DC2 remote release

First use

The Unleashed is designed to stay on the camera at all times. It has intelligent power-management features, and will not drain your battery while the camera is not used.

Unlike the Unleashed D200+, the Unleashed D90 behaves optimally when the "Auto meter off" feature in your cameras setup menu under "GPS" is ENABLED.

If you purchased a pre-paired bundle, please skip the following initial pairing routine.

Initial pairing with a new GPS receiver

- To carry out the pairing procedure, please turn off all bluetooth devices, to avoid interferences.
- Turn on the GPS - it does not necessarily need to have a fix yet.
- Connect the MC-DC2 (or compatible) remote release to the Unleashed, then fully press its shutter button and keep it pressed.
- Insert the Unleashed into the GPS/remote port on your Nikon D90 and keep the shutter pressed for 10 seconds. The LED will blink red slowly for 5s, then quicker for 5s.
- As soon as the LED starts to blink green, let go of the shutter within 5s. The LED will light up green for 5s and the automatic pairing routine will begin.

The Unleashed will search all Bluetooth devices in the vicinity (slow alternate blinking for up to 10s), then connect to each found device in turn and check for GPS data (fast alternate blinking). If it finds a GPS, it will store its address, and automatically connect to this GPS from that point on. To show success, the LED will light up green for 5 seconds. If no GPS is found, the LED will light up red for 5s. In this case, please repeat the procedure.

Normal use

Turn on your GPS and your camera. The Unleashed will automatically connect to your GPS. The closer the GPS is to the Unleashed, the faster it will connect and the more reliable the connection will be.

If the GPS has a fix, the Unleashed will send the GPS data to the camera. If you tap your shutter button, the GPS icon on the top LCD of your camera will show.

As soon as you take a photo, the GPS data will now be embedded in the EXIF metadata.

LED indicator during normal use

- Alternating blinking:
Establishing Bluetooth connection to GPS.
- Green blinking once per second:
Bluetooth connection to GPS established,
GPS has no fix,
last known position has expired,
no GPS data is sent to camera.

- Green blinking once every 2.5 seconds:
Bluetooth connection to GPS established,
GPS has no fix,
last known position is sent to camera.
- Red blinking once per second:
Bluetooth connection could not be
established,
last known position has expired,
no GPS data is sent to camera.
- Red blinking once every 2.5 seconds:
Bluetooth connection could not be
established,
last known position is sent to camera.
- LED off:
Normal Operation:
Bluetooth connection to GPS established,
GPS has a fix,
current position is sent to camera
OR
Unleashed is in powersaving mode.

Detailed functionality

The Unleashed will try to connect to your GPS 5 times, for 5 seconds each time. The LED will alternately blink red and green while trying to connect. Whenever you tap the shutter button, the number of retries will be reset to 5, which will be indicated by faster blinking for 2 seconds.

If the connection is lost, the Unleashed keeps sending the last known position to the camera while reconnecting to the GPS. The camera is therefore never without a GPS position. After 30 minutes of a lost connection or receiving invalid GPS data, the Unleashed will stop sending the last known position, so that no out-of-date position is written to the files (e.g. if the GPS battery is empty, and you are moving. It is better not to have a position written to the files than to have a wrong one).

Whenever your camera is inactive or off for 15 minutes, the Unleashed will drop the Bluetooth connection to the GPS and will go into a power-saving mode. As soon as you turn the camera on or activate it again, it will reestablish the connection, while already sending the last known position to the camera.

After 45 minutes of inactivity (the 15 minutes mentioned + 30 minutes expiry time of the last known position), the Unleashed goes into deep sleep. In this mode it uses so little power, that it would take almost 2 years to drain your camera battery. It is therefore completely safe to leave the Unleashed on your camera at all times. Again, as soon as you activate your camera, it will reconnect to your GPS. Since the last known position has expired, it will not send any GPS data to the camera, so you must wait a few seconds, until the connection is established before shooting, so that your photos will be geotagged. If you shoot immediately after turning on the camera after a long period of inactivity, it might occur that the first few frames are not geotagged.

Troubleshooting

The closer the GPS is to the Unleashed, the faster it will connect, and the more reliable the connection will be. It is therefore recommended to keep your GPS in your shirt-pocket, on a lanyard around your neck, or in a pocket on the front of your photographers vest. Usually even the backpack will work, this depends on your GPS. For further troubleshooting, please see

www.foolography.com/support/unleashed/ .

Firmware updates

Instructions for firmware updates will come with each firmware update. Please check

www.foolography.com/support/unleashed/

to see if a new firmware update is available for your Unleashed.



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