

# **NIKON D7200**

## **[W/SOLMETA GMAX GPS]**

### **ADVANCED CHECKLIST**



# NIKON D7200 ADVANCED SETUP CHECKLIST

The following FULL sequential setup checklist is appropriate for Civil Air Patrol daytime aerial photos using the Nikon D7200 DSLR with a Sigma (or Nikon) 200mm zoom lens and a Solmeta GMAX GPS. [Aircraft track can be captured can by the Bad Elf GPS or the Solmeta GMAX GPS]. Items noted as **[ADVANCED]** are **OPTIONAL**, but recommended.

## 1-CHARGE AND/OR CHANGE THE BATTERIES FOR

- Camera-EN-EL15 Battery
- Battery Pack MB D-15-EN-EL15 Battery and/or AA Alkaline (if used)
- [See **Note 1** if non-Alkaline batteries are used]
- GMAX GPS (Internal battery)
- Bad Elf GPS (Internal battery), if used.

## 2-ASSEMBLE (AND CLEAN IF REQUIRED) ALL THE PARTS

- Camera Body
- Neck strap
- MB-D15 Multi Power Battery Pack (if used)
- Lens (or lenses)
- Lens UV Filter
- Lens Cap(s)
- SD Media Cards-1 for each slot (2 total)
- Solmeta GMAX GPS
- GPS to Camera Cable (secure with **blue painters' tape** if required)
- NO** lens hood (For aerial work)
- Bad Elf Tracker, if used

## 3-SET THE SWITCHES ON CAMERA BODY AND LENS

- A) Set Camera Body switches including
- Focus selector lock**-White dot on **L**
  - Live view selector**-White dot on **still camera** position
  - Focus Mode selector**-White line on **AF** position

B) Set Lens Switches

- Lock switch** to **Unlock**
- AF/M switch** to **AF** (autofocus)
- OS switch** to **ON** (vibration reduction)
- Normal/Active switch** to **Active** (if Nikon lens)

## 4-TURN CAMERA POWER SWITCH TO **ON**

## 5-SET UP CAMERA VIEWFINDER (DIOPTER)

- A) Use **diopter adjustment control** for your eye
- B) Press **shutter button** to check for focus point [REVIEW]

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## 6-SET CAMERA ITEMS NOT AFFECTED BY DEFAULTS - Use **A, B, C OR D**

**A)** Rotate **Exposure Mode Dial** to **S** (Shutter Priority)

**B)** Rotate **Main Command Dial** to **2500** to set shutter speed to 1/2500. **[OPTIONAL]** Put **blue tape** over dial to hold dial in place. If low light, see **Note 2**.

**C)** Rotate **Release Mode Dial** to **S** (single frame). For continuous release see **Note 3**.

**D)** Check/Set Playback Display

[Menu→Playback Display Option→Check/Set **Focus Point, None** and **Overview**. All others are unchecked. Note that the GPS screen will appear automatically with GPS attached.

## 7-SET CAMERA DEFAULTS (3 TOTAL)

**A)**-Set Two Button Defaults

[Simultaneously press and hold **Two Green Buttons** until monitor flashes]

**B)** Set Shooting Menu Defaults

[Menu→Shooting Menu→**Reset Shooting Menu**→OK→Yes→OK]

**C)** Set Custom Settings Defaults

[Menu→Custom Settings Menu→**Reset Custom Settings** →OK→Yes→OK]

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## 8-CHANGE CERTAIN CAMERA DEFAULTS

A) **[ADVANCED]** Change autofocus mode to AF-C (Continuous Focus) and AF-Area to D9 (Nine center clustered focus points),

[Press **autofocus button** on front left of camera body. While holding button down, rotate **Main Command Dial** (back) until **AF-C** appears in top screen. **Rotate Sub Command Dial** (front) until **D-9** appears. Remove/replace blue painters' tape as required]



B) Change Image Quality to JPEG Fine

[Menu→Photo Shooting Menu→Image Quality→OK→**JPEG Fine**→OK [See Note 4 if Client requests RAW images]

C) **[ADVANCED]** Change JPEG Compression to Optimum

[Menu→Photo Shooting Menu→JPEG Compression→OK→**Optimal Quality**→OK]

D) Change ISO Sensitivity to ON, with certain settings

[Menu→Photo Shooting Menu→ISO Sensitivity Settings→OK→Auto ISO Sensitivity→Auto]

E) Change Monitor Off Delay to 5 Minutes

[Menu→Custom Settings Menu→C4 Monitor Off Delay→Menus→OK→**5 min**→OK]

F) **[ADVANCED]** Show Viewfinder Grid

[Menu→Custom Settings Menu→D7 Viewfinder Grid Display→OK]

## 9-FORMAT THE CAMERA MEDIA CARDS (2 TOTAL)

A) Format Card #1

[Menu→Setup Menu→Format Memory Card→OK→Slot 1→OK→**Yes**→OK]

B) Ditto for Card #2

## 10-SOLMETA GMAX SETTINGS AND CALIBRATION (IF REQUIRED)

[See Note 5]

## 11-BAD ELF SETTINGS AND CALIBRATION (IF REQUIRED)

[See Note 5]

## 12-CHECK SETTINGS AND OPERATIONS/TEST SHOTS

A) Go outside and check for proper exposure (check exposure bar and histogram), focusing (white dot) and GPS acquisition (check for GPS screen with data).

**IF OK, SETUP IS COMPLETE**

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## NOTES

**NOTE 1**-If using non-Alkaline batteries with the MB-D15 Battery Pack, the following setting changes are required.

- 1) Change Custom Setting D12 to **HR6** (AA Ni-MH) or **FR6** (AA Lithium) as applicable. Change as part of Section 8 of the checklist.

**NOTE 2**-If low light prevents proper exposure, a shutter speed as low as **1/1000** may be used. Use appropriate techniques to minimize motion and vibration blur. OK to adjust in flight.

**NOTE 3**-Continuous release **CL or CH** may be appropriate for certain targets. OK to adjust in flight.

**NOTE 4**-If the Client requests RAW images to allow for post processing, make the following changes.

- 1) Change Shooting Menu item **Role played by card in Slot 2** to **RAW Slot 1+JPEG Slot 2** [REVIEW IF THIS HAPPENS AUTOMATICALLY]
- 2) Change Shooting Menu item **Image Quality** to **NEF (RAW)+JPEG Fine**
- 3) Change Shooting Menu item **Color Space** to **Adobe RGB**

**NOTE 5**-See User manuals for both the Solmeta and Bad Elf GPS. If resetting the Solmeta GMAX, use defaults. There is an APP for the Bad Elf. [NEED MORE DETAILS IN THIS NOTE]

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