"Wasia B7 firmware" for the Canon Digital Rebel (300D)
Released June 1, 2004

All enhancements

- Custom function menu found on the last page in the menu
- Ability to define how the SET button behaves (same menu found on the 10D - refer to the 10D manual for full explanation of these new enhancements)
- Exposure level increments either 1/2 or 1/3-stop
- Option to enable 1/200th flash speed sync in AV mode
- Ability to change the JPG size when shooting in RAW mode
- Shutter release with or without CF card
- FEC adjustment via the JUMP button, use the dial to adjust as shown on the LCD
- ISO3200 now available, and is represented by an "H" in the LCD - same as how the 10D shows this
- Mirror lockup available via enabling the option in the custom function, works by pressing the shutter button which flips the mirror up, then the shutter opens about 1-1.5 seconds after MLU - note that this is different than how it is implemented on the 10D where you press once to flip the mirror and press again to open the shutter
- Immediately pressing the ERASE button after taking a photo, you can delete the photo by pressing the ERASE button again instead of selecting Ok previously, to not delete the photo press any other key
- Left button changes the focus mode and is displayed on the LCD as follows:
    - PA-0   Lens set to manual focus
    - PA-1   One shot
    - PA-2   AI-Servo (selectable but cannot take a photo - one workaround, hold the shutter button all the way down then switch the lens to manual focus)
    - PA-3   AI-Focus (first takes one shot then the camera may switch to AI-servo depending on what you are focussing on)
- Right button is for changing something (believe it's metering) but this does not do anything - so ignore (values if you're curious are PA-0, PA-1 and PA-2)

Custom Function Menu

For further explanations on these custom functions please refer to the 10D manual.

CF1	SET button func. when shooting (works)
0	Default (no function)
1	Change quality
2	Change parameters
3	Menu display
4	Image replay
CF2	Shutter release w/o CF card (works)
0	Possible without CF card
1	Not possible
CF3	Flash Sync speed in Av mode (works)
0	Auto
1	1/200sec (fixed)
CF4	Shutter button / AE lock button
0	AF/AE Lock
1	AE Lock/AF
2	AF/AF lock, no AE lock
3	AE/AF, no lock
CF5	AF-Assist Beam / Flash firing
0	Emits/Fires
1	Does not emit/Fires
2	Only ext. flash emits/Fires
3	Emits/does not fire
CF6	Exposure level increments: (works)
0	1/2-stop
1	1/3 stop
CF8	RAW+JPEG rec. (works)
0	RAW+Small Normal
1	RAW+Small Fine
2	RAW+Medium Normal
3	RAW+Medium Fine
4	RAW+Large Normal
5	RAW+Large Fine

CF9	Bracket. sequence/auto cancel
0	0,-,+/enable (300D default)
1	0,-,+/disable
2	-,0,+/enable
3	-,0,+/disable
CF10	Superimposed display
0	on
1	off
CF11	Menu button display position
0	previous(top if powered off)
1	previous
2	top
CF12	Mirror lockup (works)
0	disable (300D default)
1	enable
CF14	Auto reduction of fill flash
0	enable (300D default)
1	disable
CF15	Shutter curtain sync [NO]
0	1st curtain sync
1	2nd curtain sync
CF16	Safety shift in av or tv
0	disable
1	enable
CF17	Lens af stop button function
0	af stop
1	af start
2	ae lock while metering
3	af point: m->auto/auto-ctr.
4	one shot -> <- ai servo
5	IS start

Watchouts

- Camera may lock up if you attempt to change the language, maybe possible to change the language but must be done on the original Canon 300D 1.1.1 firmware
- Some features may not work correctly if you are using another language - use English as a workaround
- If you upgrade and some of the things don't seem to work properly, set the settings in the Custom Function back to the original values (see below) and install the original 1.1.1 firmware, then upgrade to the new firmware
- Change the SET button to something other than FEC before upgrading to this version
- When the MLU is enabled and using the self timer, the timer will countdown and beep for 2 seconds then pause another 7-10 seconds with no countdown in the LCD or beep.
- Names for modes via left/right button will be updated to something more meaningful
- MLU does not work properly when using a flash – flash will fire when the mirror is lifted – not when the shutter opens

Revertng back to the original version

- Reset all the Custom Function values to the original 300D settings. Note, you cannot use the Reset option in the menu, it does not affect these values. Below is a list of default binary values from left to right (the bottom numbers in the CF menu):
  0,0,0,0,0,1,0,11,0,0,0,0,0,0,0,0,0
- Flash back to 1.1.1.

Web Resources

- *Yahoo group*
  http://groups.yahoo.com/group/canondigicamhacking
- *DPreview Canon 300D forum*
  http://forums.dpreview.com/forums/forum.asp?forum=1031
- *Canon EOS 300D Digital Rebel Tips and Tricks*
  http://www.bahneman.com/liem/photos/tricks/digital-rebel-tricks.html
- *Canon 300D Firmware 1.1.1*
  http://web.canon.jp/Imaging/eosdigital/E3kr_firmware-e.html
- *Canon10D manual (PDF)*
  http://www.powershot.com/powershot2/customer/pdf/EOS_10D_E.pdf
- *Canon 300D manual (PDF)*
  http://www.canoneos.com/digitalrebel/download/manual.pdf