

RELEASE NOTE

PHASEONE

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January, 2015

Firmware version 1.05 for IQ150, IQ250 and A-series IQ250

Firmware version 1.05 supports all CMOS sensor based digital backs IQ150, IQ250 and A-series IQ250.

New functionality include:

- Camera mode “A-series” has been added to appear on the IQ250 digital backs made for the A-series. On the A-series digital backs the Lens Menu offers a choice of “Alpa Lenses” and “Other Lens”.

Fixes with this firmware version:

- The default ISO value is now the lowest in the range.
- A potential problem with missing ISO sub menu has been fixed.

For instructions on how to use a set of specific features, please take the time to read the following pages of this document.

We are committed to ensure that your new IQ digital back/camera system will be working as the ultimate digital camera system for many years to come. Should you have any inquiries, please do not hesitate to contact your local Phase One representative.

Updated firmware and documentation is available at:

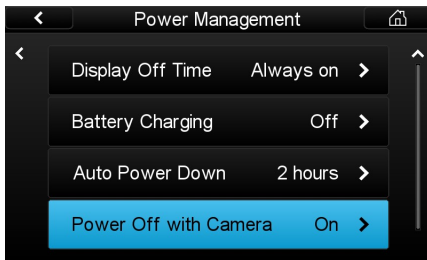
<http://www.phaseone.com/en/Downloads/Materials/Camera-Firmware.aspx>

Have fun with the unlimited creativity and world leading image quality at your fingertips

Best regards,

The Phase One Team

Quick Guide to features in the IQ150 and IQ250



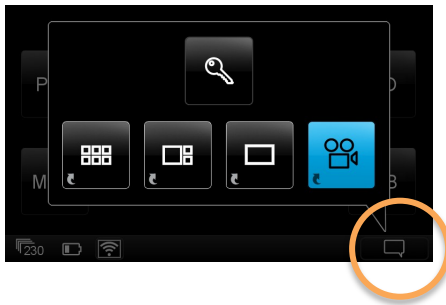
Power-Up and Down from the 645DF+ camera

1. Turn ON the 645DF+, and the IQ250 will automatically power up.
2. Turn OFF power on the 645DF+ and the IQ back will power down after 3 seconds, unless it is interrupted manually on the screen or by pushing a button.

This feature is not fail proof, and if operated quickly in sequence, the back may not power on or off properly.

If you want to disable this feature - this can be done in the Power Management menu.

Live View



Starting Live View

Live View on the 645DF+ is supported in Manual or Aperture Priority mode. Live View on X, Tv and P mode is not supported.

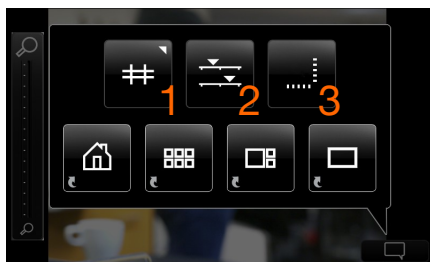
1. Live View is started from the Contextual menu pop-up in the lower right corner of the IQ back display
2. In the pop-up click on the camera icon.

If the IQ back is attached to a 645DF+ the camera automatically opens the shutter, and live view is displayed on the screen.

When you want to capture an image, you have to exit Live view first.

If attached to any other camera, then the shutter has to be manually or electronically opened to get a live view on the screen.

Tethered Live View is supported on USB2 and USB3 only.

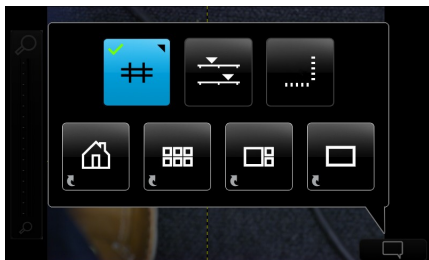


Contextual menu inside Live view

3 buttons are available in the top of the Contextual menu

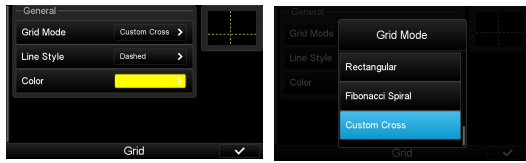
1. Grid
2. Lightness
3. Virtual Horizon

Please see description of each feature below



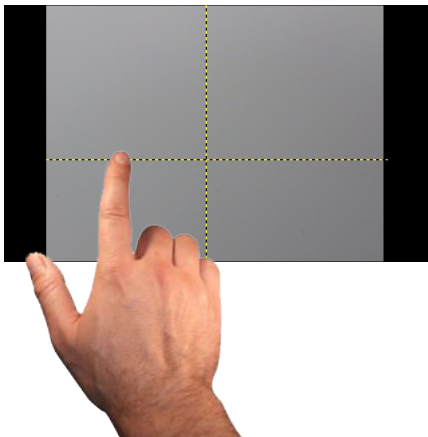
Turn on Grid inside Live view

1. In Live View select contextual menu pop-up from lower right corner
2. Long press on the grid button (the one that is blue here)



Select the new grid option “Custom Cross”

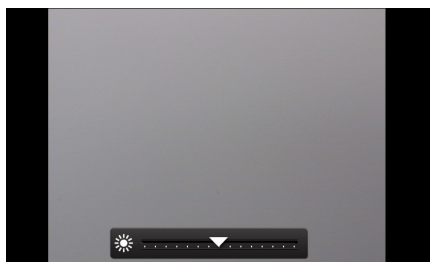
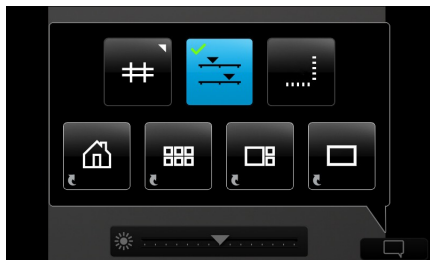
1. In the Grid Mode dialog scroll down and select “Custom Cross”



Moving Custom Cross lines

When Custom Cross is selected, the grid lines can be picked up and moved around

2. Long-press on the gridline you want to move (you will get a confirmation beep)
3. The flashing gridline can be moved around.
4. When you are finished setting the line, you tap on another area of the screen, and the line locks itself
5. Or if left without holding, the line will lock itself after a few seconds of inactivity.

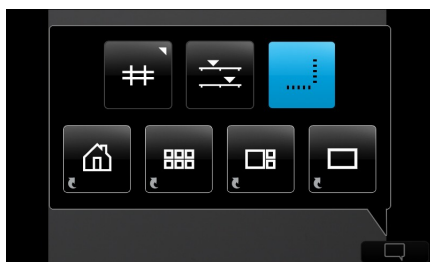


Light levels in Live View

The light levels is automatically adjusted to the screen. Even in low-light conditions, the level is adjusted to a usable level.

The Lightness of live view can be globally adjusted.

1. From Inside Live view, click on the contextual menu
2. Click on the top center button in the contextual pop-up
3. A Lightness slider will show in the bottom of the Live View.
4. Lightness can be adjusted by moving the indicator mark to the right or to the left on the slider

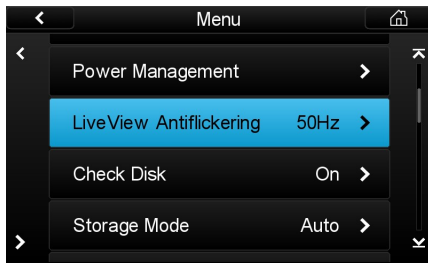


New Virtual Horizon Tool in Live View

1. From Inside Live View, click on the contextual menu
2. Click on the top right button in the contextual pop-up

This will bring up two bars, one below the Live View, and one to the right.

Now you can align both roll and pitch using the indication on the bars, and you will get a clear indication when things are level.



Live View Anti-flickering

Depending on where you are located in the world, the power outlet operates at different frequencies. In general it is either 50Hz (EUR) or 60Hz (US and parts of ASIA).

To minimize the amount of flickering when using Live View with artificial light, you can setup the screen redraw frequency to either 50Hz or 60Hz. This is setup in the menu "Live View Anti-flickering"

IQ250 digital backs only: Getting started with WiFi

Connect your IQ250 wirelessly with an iPad® or iPhone®
Download and install the Capture Pilot mobile app on your device from the Apple App Store

Connect directly to your IQ250 using Adhoc mode (recommended for ranges up to 8m/25ft)
Connect via your existing router using WPA/WPA2 or EAP security (up to 30m/100ft)



WiFi connecting to your IQ250 using the Adhoc mode:

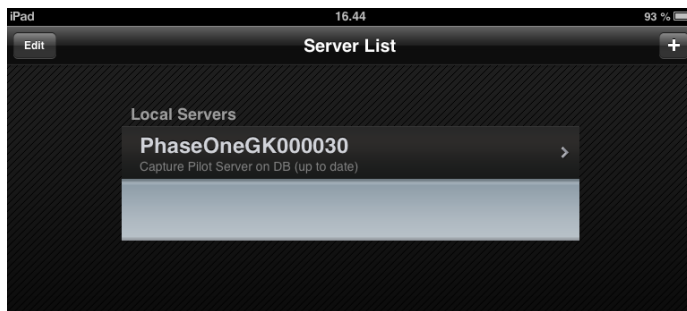
1. Select Adhoc on the IQ250:
Menu>WiFi>Mode>Adhoc – this will publish a network with default name “PhaseOne[serial number]”
2. From the iPad®/iPhone® select:
Settings>WiFi>Connect to network:
“PhaseOne[serial number]”
3. Start Capture Pilot and select the
“PhaseOne[serial number]” in the
Server List under Local Servers



Setting up your IQ250 for wireless connect via router

1. Turn on WiFi on the IQ250:
Menu>WiFi>Mode>On
2. Select network: Menu>WiFi>Select
Network

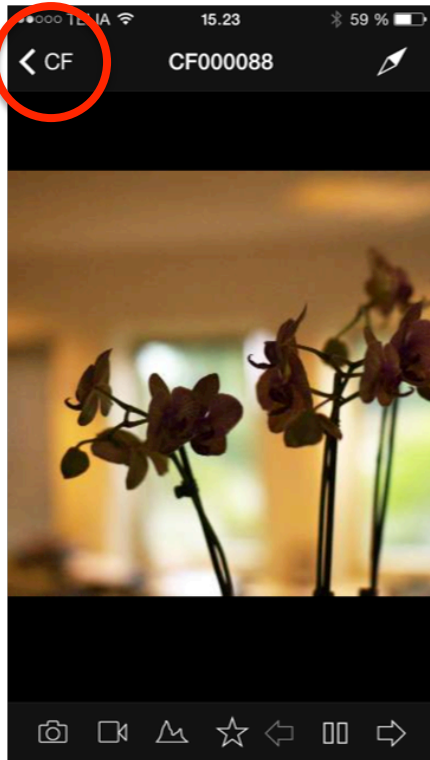
Type user name and password as prompted from the network.



Connecting Capture Pilot to your IQ250 using a router:

1. From General>WiFi: Select same
network as selected on IQ2
2. Open Capture Pilot
3. Select “PhaseOne[serial number]”
under Local Servers in Capture
Pilot.

IQ250 digital backs only: Live View on a mobile device using the Capture Pilot app



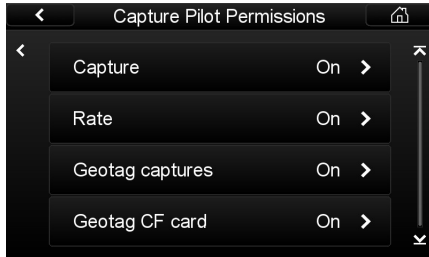
Live View in Capture Pilot

Live View is started from the Live View camera icon at the bottom of the Capture Pilot screen in both image browser view and single image view.

In Live View 100 zoom is available with a "double-click". Depending on the actual bandwidth choose Low Quality (LQ) or High Quality (HQ) for best live view result.

To return to single/browser view press the top left "CF"-icon on the top left of the Capture Pilot screen.

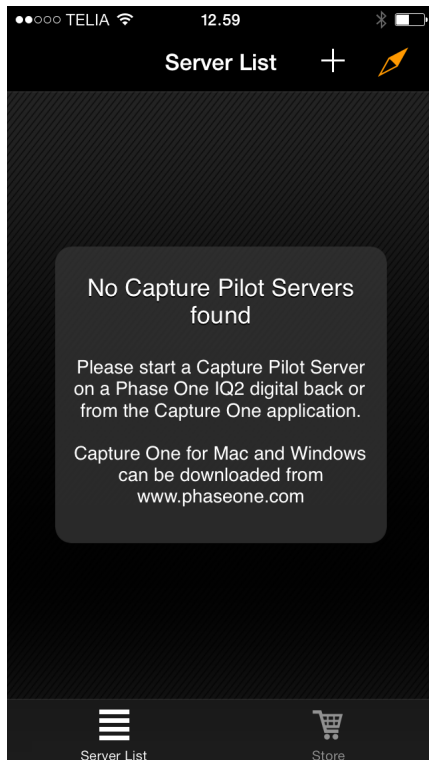
IQ250 digital backs only: Geo-tagging using Capture Pilot app



Enabling Geo-tagging with location data in Capture Pilot

Please Note: On the IQ250 the WiFi Mode must first be turned Off in order to change Settings. Geo-tagging is enabled inside the menu Wifi > Settings > Capture Pilot > Capture Permissions

1. Set the “Geo-tag captures” to “On”, to let the IQ250 geo-tag all images captured in a shooting session with the camera connected wirelessly to Capture Pilot.
2. Set the “Geo-tag CF card” to “On”, to let the IQ250 geo-tag all the images on the CF-card/cards inserted upon WiFi-connecting to Capture Pilot after a shoot.



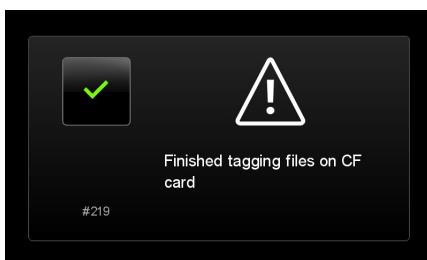
Geo-tagging files after a shoot, when connecting to Capture Pilot

With the “Geo-tag CF card” turned On as described above, Capture Pilot can run in the background on your iPhone/iPad and log location data paired with time, without being WiFi connected to the IQ250. After the shoot, you WiFi-connect the IQ250, and all the files on the CF-card/cards are tagged with the corresponding coordinates matched by the capture time.

To Geo-tag location data into your files after the shoot, please use the following procedure:

1. Before Shooting: start Capture Pilot and click on the compass needle in top right corner, so that it is enabled (orange).
2. Leave Capture Pilot running in the background until after the shoot.
3. Once you connect your IQ250 to Capture Pilot – the image files on the CF-card in the IQ250 will be Geo-tagged.
4. If you have captured to multiple cards, you can insert the cards one by one. Capture Pilot and the IQ250 will tag all the files for you.

In the mobile device Settings for the Capture Pilot app, the Geo-tagging can be turned off automatically after a certain interval to avoid unnecessary use of battery power.



Confirmation that the files on the CF-Card are tagged

You will see this dialog on the IQ250 when it is finished tagging the files

FCC Regulations:

§ 15.19 (a)(3)

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

§ 15.21

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

§ 15.105 (b)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
 - Increase the separation between the equipment and receiver.
 - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 - Consult the dealer or an experienced radio/TV technician for help.
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§ 15.407 (e)

Operation on the 5.15-5.25 GHz frequency band is restricted to indoor use only. The FCC requires indoor use for the 5.15-5.25 GHz band to reduce the potential for harmful interference to co-channel Mobile Satellite Systems.

§ 2.1093**RF Exposure Information (SAR)**

This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government. The exposure standard for wireless devices employs a unit of measurement known as the Specific Absorption Rate (SAR). The SAR limit adopted by the FCC is 1.6W/kg for an uncontrolled environment. Tests for SAR are conducted using standard operating positions accepted by the FCC with the device transmitting at its highest certified power level in all tested frequency bands. The FCC has granted an Equipment Authorization for this device with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines.

Although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. This is because the device is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.
