

June 2011

**Firmware 5.2.2 for Phase One P 65+ and P 40+ digital backs.**

Solves an issue where the digital back did not reconnect when the FireWire cable had been disconnected.

**Change history** (*previous firmware version 4.8.8 to 5.1.8*):

This new firmware version is highly recommended for all P 65+ and P 40+ digital back – this update has the following improvements and features:

1. Improved support for Mamiya RZ67 Pro II D camera – the Phase One P 65+ or P 40+ now has a menu option inside “Camera Mode” where you can select Mamiya RZ67 PRO II D for operation in normal latency with flash.
2. Zero latency warning - when you have set the camera back to Zero Latency you now get a warning when powering up the back – this to avoid excessive drain of battery power.
3. Improved digital back auto calibration – gives a better image quality under some extreme conditions of use.
4. Localization of new menus introduced in latest firmware versions.
5. Slightly Improved frame rate quality of Live Preview
6. Minor bug fixes and stability improvements between camera interface

**Updating requires firmware updater 3.0 or later:**

Firmware updater is available from [www.phaseone.com/download](http://www.phaseone.com/download)

**Change history** (*previous firmware version 4.8 to 4.8.8*):

1. Full support for 645DF camera including 1/1600s flash sync\* and control of camera custom functions from the digital back\*\*.
2. General stability improvements

For instructions on how to update your firmware, please refer to the FWUpdater.app ReadMe.pdf file included with the firmware updater application

\*Currently only available with Phase One P 65+ and P 40+ digital backs delivered new after January 1, 2010 or digital backs that have received the extended leaf shutter upgrade. Contact your Phase One partner if you are in doubt.

This example demonstrates how to set up custom functions from the P 65+ or P 40+ menu system\*\*. If you have another digital back – please skip this section and read the next about how to setup custom functions on the camera.

As an example we will setup the camera to have a thumb press focus button in place of the half pressed release button function that is available in the standard setting.

Many fashion photographers like this setting, as it gives better control of exactly when the camera refocuses, and when exactly the shot is fired.

To set the camera up we need to assigning the AF function to the AEL button (thumb position) and set the release button to only release (not focus on half pressed)

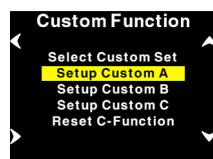
*\*\*Setting Custom functions from the digital back menu system is only available on P 40+ and P 65 + shipped after February 2009 and with firmware later than 4.8.8*



On the digital back select “Menu” and then select “645DF Setup”



Select “Custom Functions”



Select “Setup Custom A”



Scroll down to “AEL/AFL Button”.  
Set this option to “Switched Place”  
*Now you will have the Auto Focus lock on the AEL button.*

	<p>Next go one step back and scroll down to “Release Button”. Enter this menu and set it to “Only Release” <i>This way the camera will not refocus when release button is pressed, even though the camera or lens is set to auto focus.</i></p>
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	<p>Again – One step back, and scroll down to “AFL” Set AFL to “AF Operation” <i>This will set the AFL button to auto-focus when pressed</i></p>
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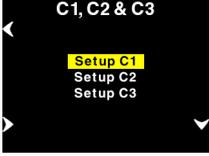
	<p>After this - One step back and scroll down to “AEL/AFL Button” Set this option to “Switched Place” <i>Now you will have the Auto Focus lock on the AEL button.</i></p>
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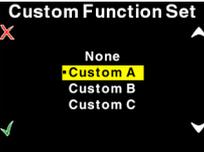
		<p>Finally you need to select the custom set you just made, and make it the active custom function set – the function set that is active whenever the Camera Mode dial is set to “CF”</p>
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	<p>To get the most responsive Fashion setup it is recommended to set the “AF Speed” to “Fast” <i>This will enable the fast AF functionality which is best for action type photography with moving objects</i></p>
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In addition to custom functions the 645DF also has 3 Custom Shooting Modes. These are available on the Camera Mode Dial and can also be setup from the P 65+/P 40+.

Here is a sample on how “C1” on the Camera Mode Dial can be setup to contain the above “Custom A” function in combination with X mode.

		<p>Go into the 645DF setup menu and select “C1, C2 &amp; C3” After this Select “Setup C1”</p>
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 <p>Setup C1</p> <p>Camera Mode</p> <p>AF Area</p> <p>Light Metering</p> <p>Custom Function Set</p>	 <p>Camera Mode</p> <p>P</p> <p>Av</p> <p>Tv</p> <p>M</p> <p>X</p>	<p>Inside "Setup C1" set the option to X</p>
 <p>Setup C1</p> <p>Camera Mode</p> <p>AF Area</p> <p>Light Metering</p> <p>Custom Function Set</p>	 <p>Custom Function Set</p> <p>None</p> <p>Custom A</p> <p>Custom B</p> <p>Custom C</p>	<p>Then Go back and select "Custom Function Set", and in the sub menu select "Custom A"</p>
<p>Now whenever you select C1 on the Camera Mode Dial you will have the camera setup to shoot in X mode with "Custom A" function set</p>		