The introduction of Dual Pixel CMOS AF technology enhances autofocus (AF) performance on the EOS C100 for smoother and accurate autofocusing results.

A Canon service center installed upgrade is now available for the EOS C100 that offers an autofocus mode to achieve sharp focus and smooth focus transitions. The upgrade enables a new Continuous AF Function for all Canon EF autofocus lenses, using Dual Pixel CMOS AF technology. A new AF Lock setting also gives you the freedom to change image framing while maintaining a chosen focus point. These precise focusing capabilities eliminate the chances of out-of-focus video while rendering a smoother focus transitions, providing greater assistance to users working with smaller crews.

The upgraded EOS C100 cameras are perfect for professionals in the field of electronic newsgathering, sports productions, documentary film-making, wedding videography and similar special events, nature and wildlife programs, and many others.

**WHAT IS DUAL PIXEL CMOS AF TECHNOLOGY?**

The EOS C100 camera with Dual Pixel CMOS AF upgrade optimizes performance of its CMOS sensor, which holds an array of pixels, each featuring two separate photodiodes. By continuously comparing their outputs during AF mode, phase-difference autofocus helps ensure non-blurred images and smooth focus transitions even when the subject and/or the camera are moving. The new feature places high priority on maintaining sharp focus while providing a natural, smooth autofocus movement with select Canon EF lenses – including newer-generation STM lenses – which offer even smoother and quieter operation.

With the upgrade, the Continuous AF area on the EOS C100 represents 20% vertically and 25% horizontally of the image center – resulting in a wide AF zone. The AF Lock function complements the Continuous AF mode by allowing a selected focus point to be set and maintained, even when framing is changed.

**HOW DOES DUAL PIXEL CMOS AF BENEFIT VIDEO-SHOOTING?**

*Fast, Smooth AF During Video Capture*

An upgraded EOS C100’s set-up menu will show two AF mode options – One-Shot AF and Continuous AF. The AF Lock function can be toggled on and off easily by setting the function to one of the camera’s assignable buttons. During video capture, simply engage the AF Lock to prevent Continuous AF from changing focus, and pressing the button again to re-enable it.
Faster One-Shot AF Mode

Contrast AF and phase-difference detection on the Dual Pixel CMOS AF work together to ensure that the AF system initially drives the lens in the correct direction to achieve faster focus. The upgraded EOS C100 will now obtain precise focus faster than an unmodified camera by nearly twice the speed, and with a more natural look without focus overshooting. Because the current One-Shot AF mode uses only Contrast AF, focusing may sometimes be jerky with overshoot errors.

Compatibility with EF Lenses

Dual Pixel CMOS AF emphasizes on image quality, and its superior AF speed and precision enables smooth and hunt-free focusing with Canon EF lenses, excluding non-AF lenses. This technology provides continuous AF with any EF lens, spanning the EF and EF-S range, while One-Shot AF mode is supported by 104 EF lenses listed below:

As of November 7th, 2013.