



# 18x Optical Zoom, Auto Focus, Pan & Tilt

Multiple lens positions available  
for each capture event

## Overview

The CCFC Field Camera is a high-quality, high-resolution camera with zoom and optional pan/tilt functionality specifically designed for remote outdoor applications. It captures high-quality photos and video in wide-angle under all light conditions.

### Wi-Fi Camera Access

The camera's Wi-Fi access can be controlled using a smartphone from the safety of the ground. The CCFC features a web interface that makes setup and configuration easy. The interface works on any desktop or mobile browser and contains built-in tips. The camera capture and retrieval modes are highly configurable, enabling even the most advanced users complete control of settings.

### High-Quality Still Images and Video

The camera can produce still images of up to 5 megapixels and video up to 720p. The camera's image and video capture trigger modes include two independent self timers, as well as external triggers, such as datalogger control, motion detection, and web page control. This flexibility makes the CCFC an ideal camera for a wide variety of outdoor observation and surveillance

applications. The camera has a 16 GB outdoor-rated internal memory.

### Zoom, Auto Focus, and Optional Pan/Tilt,

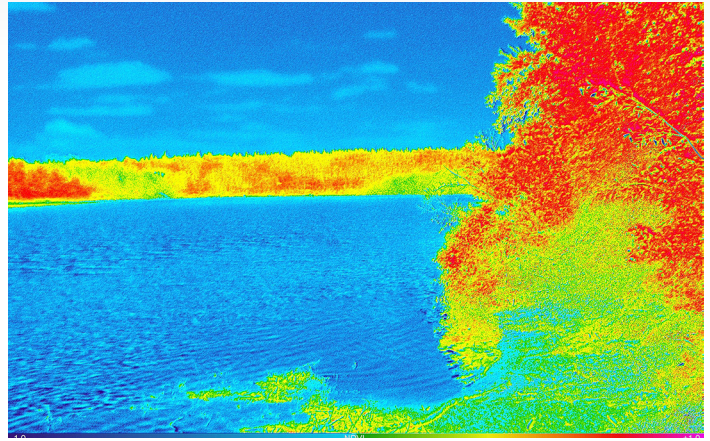
The CCFC comes with a high-quality 18x optical zoom lens and an upgraded image sensor (when compared to the CC5MPX field camera). Users can designate up to 15 pre-set lens positions to capture images or video from different zoom lengths for each capture event. The camera's auto focus feature enables it to automatically re-focus at each zoom length so each trigger event captures a collection of clear photos and video. The CCFC also has optional pan/tilt capabilities for a full survey of your environment.

### Getting Images and Video

The camera can send images and video directly to a desktop or the images can be published to the web using various communications options. Images and video taken by the camera can be delivered to you from remote locations via cellular modem, Ethernet 10/100, RS-232, RS-485, satellite, and PakBus. The camera can be configured to act a webcam that publishes images and video directly to a website using various communications devices. The CCFC comes with 16 GB of internal memory to store captured media.

## Benefits and Features

- › 18x optical zoom lens
- › Auto focus lens
- › Optional pan/tilt
- › New, easy-to-use web interface
- › Up to 15 preset lens positions
- › Infrared LEDs for night photos (captures images under almost any lighting conditions)
- › Normalized difference vegetation index (NDVI) capabilities
- › Controlled by internal timer, motion detector, web page, or datalogger
- › Window defroster
- › Type 3 anodized camera body that allows use in corrosive environments
- › Wide temperature range (-40° to +60°C)



The CCFC is now equipped with normalized difference vegetation index (NDVI) capabilities. This feature uses infrared data to produce a visualization of live green vegetation in the image.

## Specifications

- › Operating Temperature: -40° to +60°C
- › Weight: 2.38 kg (5.25 lb)
- › Length: 28.4 cm (11.2 in)
- › Height: 13.0 cm (5.1 in)
- › Width: 13.2 cm (5.2 in)
- › Clock Accuracy: ±2 min/year (-40° to +60°C)
- › Ingress Protected (IP) 67
- › View EU Declaration of Conformity documentation at: [www.campbellsci.ca/ccfc](http://www.campbellsci.ca/ccfc)
- › CCFC accessories: [www.campbellsci.ca/order/ccfc](http://www.campbellsci.ca/order/ccfc)

### Maximum Recommended Cable Length

- › Power and I/O Cable: 20 m (65 ft)
- › Ethernet Cable: 70 m (230 ft)

### Lens

- › Focal Length: 4.70 to 64.6 mm
- › Field of View: 4° to 67.3°
- › Zoom ratio: 18x

### Power

- › Operating Power: 9 to 30 Vdc
- › Current Drain  
Maximum (at 12 Vdc): 250 mA  
Quiescent: ≤1 mA (off power mode)

### Media Capture (photo and video)

- › Image or Video Capture Triggers: Two independent self timers; external trigger; motion detection; web page control
- › Programmable Still Image Resolutions (JPEG): 2592 x 1944; 1280 x 960; 1280 x 720; 640 x 480; 640 x 352; 320 x 240; 320 x 176
- › Video: Capable of up to 720P for 1280 x 720 (MPEG4), 640 x 480 (MJPEG), 320 x 240 (MPEG4)
- › Video Frame Rate Options: 30, 15, and 7.5 FPS (frames per second)
- › Photo and Video Capture Time From Wake  
Partially On and Deep Sleep Modes: 10 s  
Off Mode: 90 s

