



High-Quality Camera, High- Resolution Images

Weatherproof for outdoor
observation and surveillance

Overview

The CC5MPX is a high-quality, high-resolution digital network video camera specifically designed for remote outdoor observation applications. The camera consumes low power, making it ideal for outdoor observation in remote locations using a solar-power battery. The camera can also operate with ac power where ac is available. It has a high-quality and very rugged environmental case that enables its outdoor use in extremes of temperature. It is compatible with Campbell Scientific data loggers. The camera's capture and retrieval modes are highly configurable; camera settings are adjusted through an easy-to-use web interface.

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, or external triggers such as data logger control, motion detection, and web page control, making it an ideal camera for a wide variety of outdoor observation and surveillance applications. An outdoor-rated SD memory card for image storage is available as an option.

The camera can send images and video directly to your desktop or publish them to the web via 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. You can configure the camera to act as a webcam that publishes images and video directly to a website using various communications devices.

The CC5MPX is suitable for the following outdoor observation and surveillance applications:

- › Weather stations
- › Water movement and level
- › Weather forecasting and cloud monitoring
- › Dam safety
- › Construction sites and empty buildings
- › Asset monitoring
- › Flood forecasting
- › Winter resort snow conditions
- › Energy generation and distribution network
- › Infrastructure
- › Iceberg and glacier monitoring
- › Avalanche monitoring
- › Point of interest and learning centers
- › Forest canopy monitoring
- › Public places and special events
- › Solar and wind farms
- › Air quality
- › Forest fire detection
- › Seismic and vibration monitoring
- › Snow monitoring

Benefits and Features

- › High-quality; designed for outdoor observation in remote locations
- › Low power consumption
- › Operates with AC power or solar power battery if AC is unavailable
- › Can be controlled by internal timer or by external controls: motion detector, web page, data logger
- › Various communications options available; can publish images and video directly to the web or send images to your desktop
- › Designed to work in harsh environments, this camera operates at temperatures as low as -40°C and as high as 60°C
- › Type 3 anodization for improved performance in corrosive environments

Specifications

Operating Power	9 to 30 Vdc
Operating Temperature Range	-40° to +60°C
Clock Accuracy	±2 minutes per year (-40° to +60°C)
Photo or Video Capture Triggers	Two independent self timers, external trigger, motion detection, web page control
Programmable Still Image Resolutions	<ul style="list-style-type: none"> › 2592 x 1944 (JPEG) › 1280 x 960 (JPEG) › 1280 x 720 (JPEG) › 640 x 480 (JPEG) › 640 x 352 (JPEG) › 320 x 240 (JPEG) › 320 x 176 (JPEG)
Video	Capable of up to 720P for the following: <ul style="list-style-type: none"> › 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)
Communication Interfaces	RS-232 port, RS-485 port, Ethernet 10/100
Communications Protocols	PakBus, FTP, email, web page interface via web browser
Maximum Baud Rate	115.2 kbps (for RS-232 and RS-485 only)
Diameter	9.3 cm (3.7 in.)
Length	22 cm (8.7 in.)
Weight	1.06 kg (2.34 lb)

Communication Switched Power Output

Maximum Output Current 750 mA

Current Drain

Maximum 250 mA (at 12 Vdc)
 Quiescent ≤ 1 mA (off power mode)

Lens

Mount C-type
 IRIS DC compatible
 Standard Lens 4 to 12 mm, 27° to 80° FOV

External Input Signal

Logic Low Level 0.65 Vdc (-20 Vdc absolute minimum)
 Logic High Level > 2.0 Vdc (+20 Vdc absolute maximum)
 Minimum Pulse Width 10 ms

Memory Card Interface

Type Secure Digital (SD)
 File System FAT32
 File Type JPEG (image), AVI (video)
 Size 16 GB or less

Photo Capture Time

-NOTE- Time is from wake-up to start of capture.

Fully On < 1 s (5 MP images take longer.)
 Partially On 10 s
 Deep Sleep 15 s
 Off State 90 s

For comprehensive details, visit: www.campbellsci.com/cc5mpx 