

# Webcampak

Ultra-high definition automated capture appliance



- > Construction monitoring
- > Live view & remote access
- > Fully automated
- > Ultra high definition
- > Easy to use interface

Webcampak is a 24/7 remote monitoring appliance equipped high definition DSLR cameras. Webcampak will capture pictures during weeks or months and automatically manipulate them according to your exact requirements.

Webcampak is compatible with most Canon or Nikon DSLR cameras. During our initial discussions we will identify the best camera fitting your project.

Webcampak is provided with an outdoor heated and ventilated enclosure.

Capture frequency can be chosen between 20 seconds and 60 minutes. It can be limited to specific days and time (for example Monday-Friday 6:00am-8:00pm)

Webcampak can create, every night, a timelapse video of the day. Those videos will let you monitor easily progress of your project.

Webcampak interface let you browse within pictures and videos on your computer or tablet. Webcampak is equipped with a user management module to let you give access to dedicated portions of Webcampak interface to your customers or suppliers.

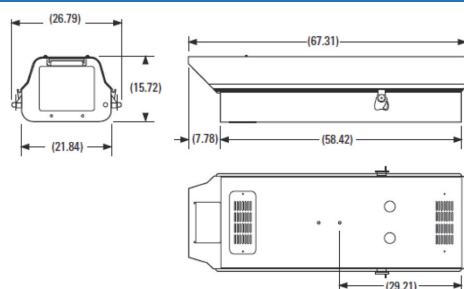
Webcampak can accommodate various network topologies (xDSL, Wi-Fi, 3G, ...) and can be easily connected to your existing network infrastructure.

Webcampak is provided with 230 GB of internal storage. In case of network failure pictures are kept on local hard disk.



# Technical specifications

## Size



\* in cm, excluding mount

## Electrical / Mechanical

|                                   |                       |
|-----------------------------------|-----------------------|
| Power input                       | 110-230 VAC, 50/60Hz  |
| Operating temperature (enclosure) | - 23°C to 49°C        |
| Material (enclosure)              | Aluminium (2mm)       |
| Power consumption                 | 80 W (with heater)    |
|                                   | 10 W (without heater) |
| Weight                            | 13 kg                 |

## Embedded computer

|           |                         |
|-----------|-------------------------|
| CPU       | Intel Atom Z530 1.6 Ghz |
| Memory    | 1 Go DDR2-533           |
| Storage   | 230 GB                  |
| Network   | 2x 1000 Base-T Ethernet |
| Auto boot | yes*                    |

\* Automatically (re)start Webcampak if power is cut during more than 10s

## DSLR Camera

DSLR camera selected and provided by customer, installed and connected to Webcampak within our premises.

|                     |   |
|---------------------|---|
| Compatible cameras* | Canon EOS 1000D (Rebel XS)** / 1100D (Rebel T3)   |
|                     | Canon EOS 550D (Rebel T2i)** / 600D** (Rebel T3i) |
|                     | Canon EOS 60D                                     |
|                     | Canon EOS 5D Mark II                              |

\*Non exhaustive list, only cameras with two stars (\*\*) have been extensively tested within our premises.

Eurotechnia and/or Infracom cannot be liable for any incident resulting of a failure of the capture device (DSLR camera).

## Pictures storage

The following storage options are available:

|                      |
|----------------------|
| Internal storage*    |
| Primary FTP backup   |
| Secondary FTP backup |

FTP backup (primary or secondary) can be performed on a local or remote (Internet) network.

\*It is strongly suggested to use at least one backup destination (FTP).

## Network protocols

|   |                |
|---|----------------|
| Webcampak interface:                    | HTTP / HTTPS   |
| Pictures / videos upload:               | FTP            |
| Pictures / videos download:             | FTP/HTTP/HTTPS |
| IP Cameras:                             | RTSP           |
| Email alerts:                           | SMTP (SSL)     |
| Remote maintenance (Webcampak support): | VPN, SSH       |

## Formats

|                      |                         |
|----------------------|-------------------------|
| Picture              |                         |
| Format               | JPEG                    |
| Definition           | depending of the camera |
| Video                |                         |
| Format               | H.264, MP4              |
| Definition (default) | 1080p, 720p, 480p       |
| Definition (custom)  | to be chosen            |
| Framerate            | from 1 to 30 fps        |

## Automated picture manipulations

|                        |     |
|------------------------|-----|
| Cropping               | yes |
| Insert legend and date | yes |
| Insert watermark       | yes |
| Privacy shading        | yes |
| Resize                 | yes |
| Create thumbnails      | yes |

## Video creation

Two modes (can be used simultaneously):

|  |
|--|
| Automatic video, started automatically every 24h00 |
| Custom interval, started manually                  |

|                    |             |
|--------------------|-------------|
| Add audio track    | MP3         |
| Multiple formats   | yes (4 max) |
| In-browser preview | yes         |

## Batch manipulations

|                         |     |
|-------------------------|-----|
| Cropping                | yes |
| Insert legend and date  | yes |
| Insert watermark        | yes |
| Privacy shading         | yes |
| Resize                  | yes |
| Embedded thumbnail      | yes |
| Progressive zoom effect | yes |
| Pan effect              | yes |

## Interface

Desktop interface

|                     |                   |
|---------------------|-------------------|
| Configure Webcampak | yes               |
| Display pictures    | yes               |
| Display videos      | yes               |
| Recommended browser | Google Chrome 10+ |

Mobile interface

|                    |                                     |
|--------------------|-------------------------------------|
| Display pictures   | yes                                 |
| Display videos     | soon                                |
| Recommended device |                                     |
|                    | Apple iOS 4+ devices (iPhone, iPad) |
|                    | Android 2.3+                        |

## Sources

Number of sources: 4  
Webcampak can control up to 4 different capture sources. A source can be a device (camera) or a file (a picture from another source). Multi-sources allow various manipulations and processing from one single picture.

Note: If using multiple cameras, installation and configuration of the system must be performed within our premises (it may be complex).

## Emails

Webcampak can be configured to send email automatically depending of some pre-configured events:

|                                      |
|--------------------------------------|
| capture error (offline source)       |
| capture success (source back online) |
| daily capture statistics             |
| video creation completed             |
| batch processing completed           |

## Options

- Webcampak Cloud
- Network storage (NAS)
- Wi-Fi connection (bridge)
- Remote VPN access
- Network firewall
- Sensors (temperature, pressure, humidity ...)
- Glass wiper (enclosure)
- Satellite Internet connection
- Solar power / wind turbine (currently being developped)

## Webcampak Cloud

Any Webcampak system can be connected to Webcampak Cloud, our inexpensive picture hosting solution.

With Webcampak Cloud your pictures and videos are stored on high speed servers hosted in secured datacenters. This is option is an interesting addition if multiple users want to view pictures and videos regularly during the project's lifetime.