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 intial discussions we will identify the best camera fitting your project.

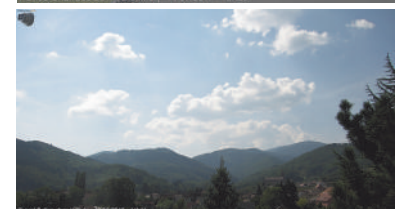Webcampak is provided with an outdoor heated and ventilated enclosure.

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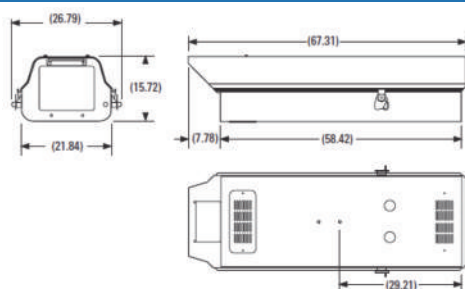
Webcampak can accomodate various network topologies (xDSL, Wi-Fi, 3G, ...) and can be easily connected to your existing network infrastructure.

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 (DLSR 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.