

## DK-CS1B ( pin-hole lens)

## DK-CS2B ( fish-eye lens)

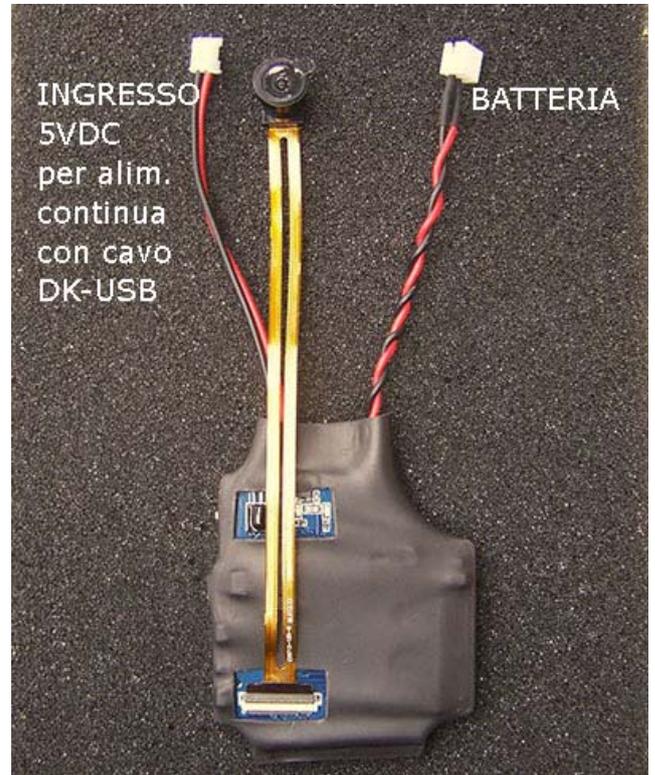
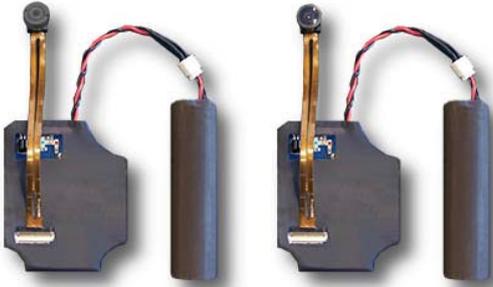
The latest versions of the product are supplied with 2 connection cables with different connector. One of these cables is used to connect the battery (see figure). The second cable serves as external power supply for powering the camera using the DK-USB cable to be purchased separately as will be explained later.

### Camera with video recorder for concealment

#### Product description

DK-CS1B / DK-CS2B is a VCR equipped with a built-in camera provided on board, without container so as to facilitate the insertion into objects. The card is protected by a black heat shrinkable tube in such a way that it can be handled without damaging the components. The two-DK and DK-CS2B CS1B versions differ in the lens:

DK-CS1B pin-hole lens for concealment DK-CS2B fisheye lens minilente



WARNING - If you bought the charger to 220V DK-BCL1 just connect it to the battery for charging. Do not connect the entrance 5VDC camera although the connector so permits.

#### Battery Connection

The camera is able to operate with only the power of its own battery. There are 3 different battery options with different governments.

<p><b>DK-BL1</b> Autonomy 2 hours</p>	
<p><b>DK-BL2</b> Autonomy 12 hours</p>	
<p><b>DK-BL3</b> Battery life about 24 hours</p>	

Together the apparatus is provided with a DK-BL2 battery, additional batteries can be ordered separately. The standard battery provides about 12 hours of recording. This reference

autonomy should be considered necessarily indicative since it may vary depending on the state of battery charge and operation in the DVR recording.

To use the machine is necessary to connect the battery to the white plug.

#### Movie Store

The video files are stored on a micro SD card (not included) into AVI format. The movies have HD 1280x720 resolution at 30 f / sec.

E 'can use any brand of microSD up to 32 GB capacity. A 32GB SD card can hold about 7 hours of recording.

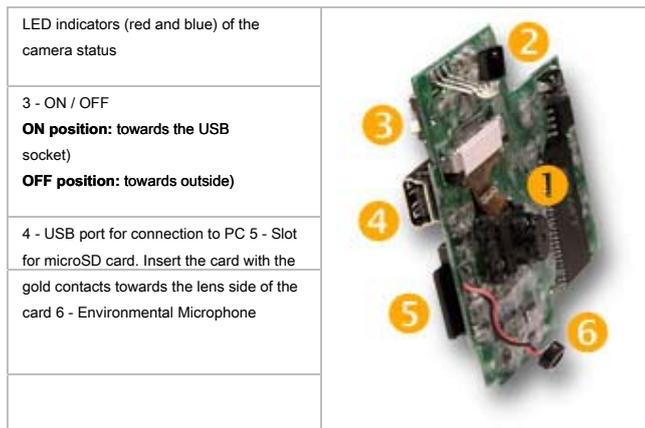
Once exhausted the capacity of the DK-CS1B memory is able to continue recording over the oldest files.

In the continuous recording the movie is divided into files for 3 minutes. In the motion recording any intrusion creates a video file of a minute.

#### Product Composition

- DVR Card Camera Battery DK-BL2
- USB cable for connection to PC with video output Infrared remote control
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<p>1 - Purpose (DK-CS1B pin-hole DK-CS2B minilente fish-eye) 2 - Remote Control Receiver IR. Alongside there are also the two</p>	
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### Insert the SD Card

The first thing to do is to insert the micro SD card slot. The package does not include the SD card that must be purchased separately.

E 'can use any micro SD. Attention to the sense of inserting the SD card that will slide gently in its seat only with the gold contacts facing toward the lens. Gently press the card until you hear the latch. To remove gently to release the retainer and pull it out.

### Charging the battery

Before using the equipment it is advisable to fully charge the battery. To do this connect the USB port to your computer with the cable provided. After a short start-up the blue LED will flash. Once charging is complete the blue LED turns off.

E 'can also charge the battery by connecting the device to a' USB network adapter like RE-AL4USB (sold separately).

It 'also available as an optional accessory self DK-BCL1 charger that can recharge the battery without being attached to the DVR. Complete recharging takes several hours depending on the type of battery and the state of the initial charge.

### TV remote

The video recording functions are controlled using the remote control. (Remove the insulator tab from the battery before using it). The remote sensor should be pointed toward the receiver of the card and also acts in several meters away as long as there are no intervening obstacles. Please note that the remote control is not used to control the DVR when it is hidden, but only for commands before it is hidden on the board as there are no buttons



1 - Power button 2 - Start / Stop recording continues 3 - Not used 4 - Start / Stop recording sound only 5 - Start / Stop motion detection recording 6 - Trip photography

### mounting

DK-CS1B is a DVR from concealment. E 'expected to be positioned behind a masking surface in which is practiced a hole recovery of at least 1 mm. in diameter. In DK-CS2B model the cloaking hole must be at least 1 cm. To which can not be made completely invisible.

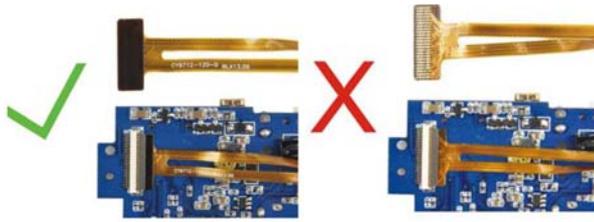
Once recording has started is the DVR position behind the mask surface. Note that once concealed the DVR is not able to receive remote control commands.

E 'can hide the DVR in any container, such as a pack of cigarettes, an ornament, etc. If the masking surface should be translucent and not perfectly opaque, it may be advisable to mask the operation LED does not reveal the presence of the DVR.

Note that the correct position of recovery is achieved by placing the card in such a way that the receptor IR both downwards, under the objective.

The goal of flat cable is already connected to the card and should be handled with care as damage to the flat cable during use is not covered by warranty.

You can buy replacement objectives. To install open the lever of the connector and gently insert the flat cable adhere to the correct direction of the connector as in the figure.



**RCA video output**

DK-CS1B / 2B has RCA video output that can be useful to check the framing.

The RCA video output is present in the included USB cable and can be connected to a monitor, TV or an external VCR.

The RCA video output can also be used during recording.

The RCA video output can not be used to back recorded video clips but only to display the image taken by the camera in real time.

**Switching on the DVR**

Turn on the DK-CS1B / 2B by moving the switch to ON (position towards the USB socket), in this way the DVR does not start but waits for the remote control commands. Take this remote control in the box and press the red button on / off. The DK-CS1B performs a quick boot of a few seconds in which it is not able to receive commands, then present the BLUE LED lit fixed to the edge of the tab.

**The blue LED indicates that the device is able to access stand-by and it waits for the operating controls.** CAUTION - In the latest versions, at the request of some departments

police have entered  
**automatically start recording in motion, so you'll see the flashing red and blue LED**  
 simultaneously. This means that  
 the unit has entered in  
 recording motion (see below). For  
 arrested the moment the motion recording by pressing  
 the button recording of motion  
 remote control in order to bring the DVR in standby position with the blue LED lit.

From the standby position, with the blue LED on steady you can start all the recording modes which are described below. In the absence of commands for a few minutes, the unit turns off automatically.

**LED indications**

Red + Blue 1 sec 7 sec.	Switching on the DVR
Red 4 flashes	DVR Shutdown
Blue 4 flashes	Start continuous recording
Red 4 flashes	Start audio recording
Blue + Red 4 flashes	Start recording motion
Blue + Red fixed	motion detection Anticipation
Blue + Red 1 flash	Saving image
Blue fixed access	Stand-by waiting for commands
Blue-Red flashing continuous	SD card not present or not supported

**Video recording continues**

From the position of stand-by, press the start / stop button, marked with a small video camera, the LED BLU takes to blink for a few seconds to start video recording

video continues, then goes out to not report the presence of the current recording. To stop recording, press the start / stop recording, the file is saved automatically. The device returns to stand-by.

**registration audio**

From the position of stand-by, press the button start / stop audio recording marked with a small microphone on the device's remote control to start recording. The RED LED will blink a few times to signal the start of the only audio recording then go off while recording is in progress. Re-press Audio button to stop recording and return to stand-by. The audio file will be automatically saved in WAV format in the device memory.

**Photo**

From the position of stand-by with the blue LED lights you can take pictures by simply pressing the button with a small camera on the remote device. The red LED lights for a few seconds and the picture is saved in memory in JPG format with 1600x1200 resolution.

**Registration Motion**

E 'can start recording in motion mode to record video only when there is movement in front of the lens. From the position of stand-by, press the button marked with a little man flanked by a small camera. The device will start recording only in case of intrusion. The unit will record a file of duration 1 minutes and then will return to the idle state until the next intrusion.

After starting the motion recording the RED AND BLUE LED will flash simultaneously to indicate the recording start in motion condition before it goes out during recording. In the motion detection operation in the blue and red LED remain lighted steadily during the waiting condition of movement. Upon the occurrence of a movement blink a few times and then goes off during recording (duration 1 minute) The DVR recording automatically enter into motion after start-up, so if you want this recording mode is not necessary expressly to start it, simply press the power button .

**Connection to PC**

To view the files saved in the DVR must connect the unit to a PC via the supplied USB cable.

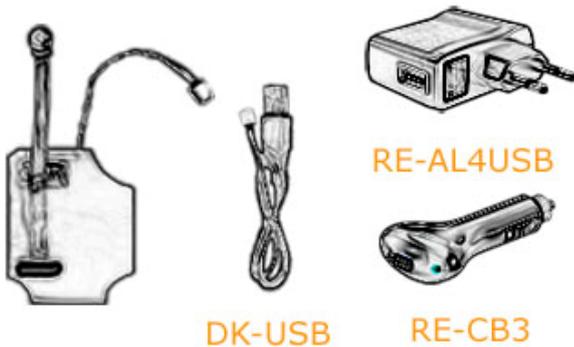
By connecting the DK-CS1B / 2B to the PC it is possible to use the device as a removable disk for managing files stored in memory.

Use Windows Explorer to browse the contents of memory.

The video and audio can be played with common media players like Windows Media Player, VLC etc. E 'can play files directly from microSD memory group to view a preview of the content, but for perfect playback of audio / video screen you must save the file on the hard disk of the computer.

## external power supply

DK-CS1B / 2B can also be operated without a battery, powered by an external power source. In addition the connection cable to the battery is in fact present for a power connection cable 5VDC to which they can connect the DK-USB adapter cable to be purchased separately as an accessory. The DK-USB cable you can connect to the USB port of a PC to draw the power, or the power supply camera RE-RE-CB3 AL4USB or car.



## Main technical features

pixel	CMOS HD720P
View angle	60 ° (DK-CS1B) 140 ° (DK-CS2B)
minimum Illumination	1 lux
video Resolution	HD 1280X720
Frames per second	30
photo resolution	1600x1200 pixels
battery size	Standard 2400 mA
battery Life	About 12 hours with standard battery
Temperature Function.	- 10 ° + 60 ° C
Memory	MicroSD - max. 32 GB
video Format	AVI
Operating system	2000 / XP / Vista / 7/8
memory consumption	1 minute video: Max. 80 MB
Maximum continuous recording capacity	More than 7 hours of SD 32GB
Overwriting files	Yes
Weight	50g
measurement	47x50x15 mm

With these accessories you can also record without connecting the battery to the DVR and no problems of autonomy. To facilitate use in this mode, the DVR automatically starts recording in motion detection in the moment in which it is fed without requiring the operator's commands.

## Change the DATE and TIME

The DVR sovraimprime date and time registration. The date stamp and time can not be excluded. To change the date and time, proceed as follows:

- Connect your device to PC
- Insert this CD included with your device, and then explore the files stored on it
- Start the program WRITETIME.EXE
- UPDATE Press and confirm by checking that the device directory is correct.
- The program will synchronize the date and time of the DVR with the PC.
- Exit program
- Unplug the device and start

An alternative to using the Write Time program you can do the following:

- Create a TXT file with a text editor such as NOTEPAD and name **time.txt**
- In the file write the date and time in the way indicated in following example:  
**09.19.2013 11:29:00**  
We should respect the exact syntax and start writing the upper left corner.
- Copy the time.txt file you just created in the root of the memory of the device (next to the DCIM folder).
- Disconnect the device from your PC and start. It will be stored in the new date.

