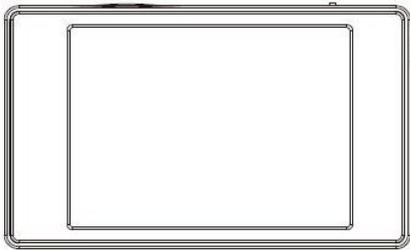


HD Portable Digital Video Recorder



Product description

The DK-PV500E product is a portable video recorder miniature pocket-size. It goes well with any

analog camera but it is advisable use with the DSE cameras RE-TCN9XH / CH / LH to which is also able to supply the power. Combined with the special digital camera RE-TCN9XD with RAW digital video signal enables HD recording high quality video. Among the main applications:

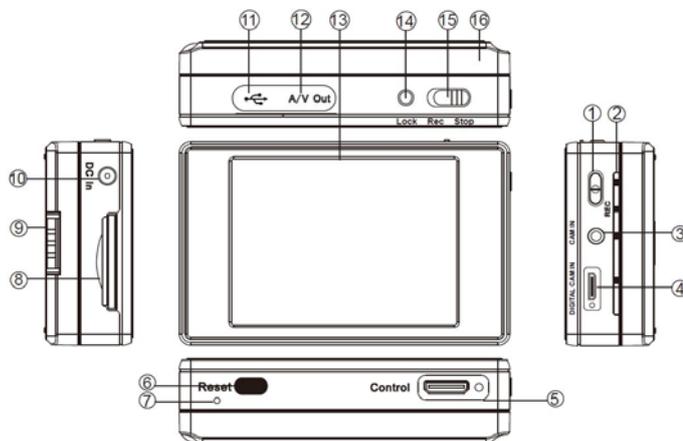
- **Cameras to wear.** It can be easily kept in a pocket and operated as needed. Among the cameras developed specifically for this product there are different models suitable to be worn
- **Hidden cameras.** It can be easily also hidden in narrow places and can monitor an environment for a long time if it is connected to the current. It 'also possible to feed it with its battery life of about three hours.
- **Shooting sports.** The minimum size and weight make it easy to wear for athletes for live performance (Cars, motorcycles, skiing, paragliding etc.)
- **Roll of media.** Insensitive to vibrations, it can be used on vehicles and vehicles. The TFT screen allows local viewing of images.

3 - 4 analog camera connection - connection digital camera (RE-TCN9XHD) 5 - Control connector for wired remote control 6 - infrared sensor for remote control 7 - Reset button

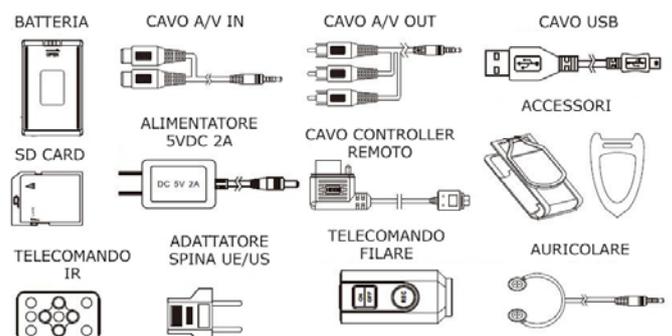
8 - SD card slot (or microSD with adapter supplied) 9 - battery release button 10 - AC adapter connector 5VDC 11 - USB2 port for PC connection 12 - AV output for TV connection 13 - LCD display with touchscreen 14 - Button reactivity block 15 touch screen - switch REC Record / Pause 16 - Battery

General characteristics

- **Compression H264** allows approximately 13 hours of recording time with 32 GB SD card.
- **Recording on Micro SD card or SD card capacity up to 32 GB, without the need for any prior formatting.** Insensitivity to vibration and shock
- **Management of 1 analog audio / video input**
- **A / V Input + 5V power supply for DSE analog cameras RE-TCN9XH / CH / LH**
- **Input A / V + 3.3V power supply for Digital Camera HD DSE RE-TCN9XHD**
- **A / V input for generic analog camera**
- **video Output for TV or external monitor**
- **built-in Monitor TFT 3 "touchscreen**
- **Programming Menu screen graphic**
- **Motion detection** to start recording only if clearly intrusion
- **Overwrite of memory.** It allows uninterrupted recording automatically delete the oldest files once exhausted the memory capacity
- **Lithium battery** capable of providing power to the video recorder and camera. about 200 minutes autonomy in continuous recording
- **High resolution video** up to 1280x960 pixels
- **acquisition capacity.** View and record real-time 25 f / sec
- **5VDC power supply.** 220V adapter supplied
- **Door USB for PC connection.** The files simply by browsing with Windows Explorer and reproduce with Windows Media Player or similar player like VLC etc.
- **TV remote infrared**
- **Saving AVI movie files**
- **miniature size 85x54x17 mm**
- **Low weight 71 grams.**



1 - Power ON / OFF 2 - LED status indicators on the DVR



Package Contents

- Video DK-PV500E
- Rechargeable lithium battery
- 220VAC / 5VDC Adapter
- Micro SD card 4GB with SD Adapter
- Infrared remote control
- wired Remote Control
- USB cable for PC connection
- stereo headphones
- AV OUT cable for connection to TV
- AV IN Cable for generic camera connection
- Belkin belt fabric

WARNING - Before use, remove the protective screen LCD and the insulation tab from the remote control battery.

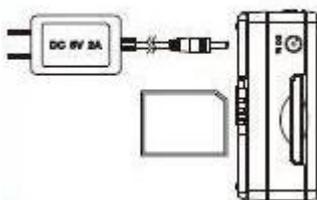
Connections

Insert battery - And if provided a battery that will fit on the back of the rear sliding it along the guides, and blocking it with the LOCK button.



Inserting SD card - The commissioning of the device, the first thing to do is to install the SD card. E comes with the product an SD card 4GB which allows over 1.5 hours of HD recording. Aside you can also buy memory card with different storage capacity as our DK-MSD32G (32 GB). E, however, use any SD-card without Brand limits or abilities and also microSD card using the adapter provided.

The SD card is inserted into the side. The insertion position is rendered unique by the shape of the card.



Charger - Before using the machine, you must charge the battery for a few hours. Connect the power supply to the DC input IN and verify that the charging LED below the ignition switch is lit in red color. The LED turns off when fully charged.

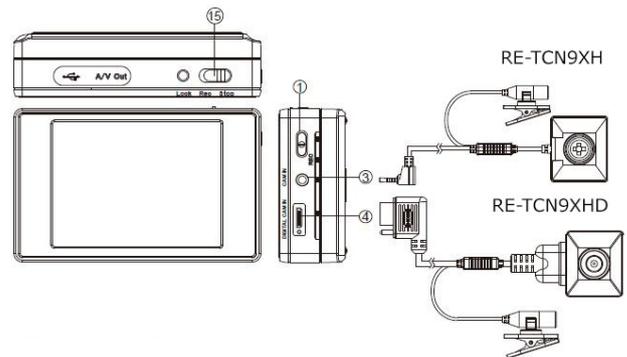
Connection with digital cameras DSE RE TCN9XHD - The digital video recorder DK-PV500E gives his best when used with a digital camera RE TCN9XHD, specifically designed for this DVR. This camera sends a digital signal to the DVR RAW that provides a definition video can not be achieved with other cameras.

The RE-TCN9XHD camera is equipped with a special HDMI connector to be connected to the input DIGITAL IN CAM.

In this way the DVR picks up the signal A / V digital camera and provides you with contextually power.

Connection with analog cameras DSE RE TCN9XH / CH / LH - The digital video recorder DK PV500E also accepts

the DSE cameras concealment RE-TCN9XH / LH / CH. In this case the camera is equipped with a mini-jack that is inserted directly into the socket CAM IN of the VCR. In this way the DVR picks up the signal of the camera A / V and provides you with contextually power.



Connecting to generic analog camera

IS' also possible connect the VCR to any analog camera via the supplied adapter cable with RCA white / yellow.



The minijack of the adapter cable is to be inserted into the socket LIVE IN VCR. On the other side there are two RCA audio connectors (white) and video (yellow). In this situation, the camera must be supplied separately via a network adapter or battery.

Connecting to other video sources - In addition to CCTV cameras can be connected to other composite video sources such as DVD players, VCRs and TV to record programs. It uses the same cable with RCA white and yellow. Depending on the connections of the device to be connected you may be required appropriate adapters in order to be able to insert the RCA female cable provided.

Built-in Monitor - The DVR is equipped with an LCD monitor 3 "where you can see the configuration options, the live images of the cameras and recorded video. The monitor is of type touch screen and it allows to control all

options DVR by pressing directly on-screen buttons.

Connection to TV, VCR or external monitor

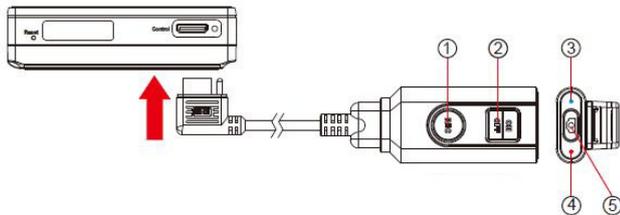
E can play the same images that appear on the LCD monitor to an external monitor or TV. You use the supplied adapter cable with RCA white / red / yellow. The miniplug side is inserted into the socket A / V OUT which is located on the upper side of the DVR, protected by the rubber cover. On the other side there are 3 connectors RCA stereo audio (white / red) and video (yellow) to connect to an external monitor. If you make the connection to a TV equipped with only one scart socket need a SCART RCA RE-SCART1 adapter (see



to side) to buy separately.

The remote control of the DVR has the LCD / TV button to switch the display

Remote Control - The DK-PV500E VCR is supplied with a wired remote control useful to turn on and turn off the DVR even if kept in your pocket or purse. The remote control is connected to the lower CONTROL connector.



The ON / OFF button (2) remote allows you to turn on the DVR when needed by pressing it for a few seconds. The DVR will turn on and the blue LED (3) lights up to confirm the switch. If the REC / STOP switch is held in the

DVR REC will start recording automatically. If the REC / STOP switch of the DVR is set to STOP the DVR will arise waiting for commands.

E can start recording by pressing the REC button (1) on the remote. The red LED (4) lights up during recording. To stop recording, press the REC button. Press ON / OFF to turn off the DVR.

During recording, you can take pictures by pressing the button on the top edge of the remote control between the two LED (5)

Using the remote control allows you to activate the DVR only when needed thus saving the battery and without arousing any suspicion.

CAUTION. The presence of the wired remote controller inhibits the switching on and off using the ON / OFF button on the DVR.

PC Connection - The DK-PV500E can be connected to PC so that movies and images saved on the SD card can be easily transferred to a PC. For connection to a PC using the supplied USB cable and the USB port on the device OUT. As soon as the device is connected to the PC operating system will recognize the device and install the driver in an automatic way. The VCR is seen from the PC as any external memory that can be browsed with EXPLORER.

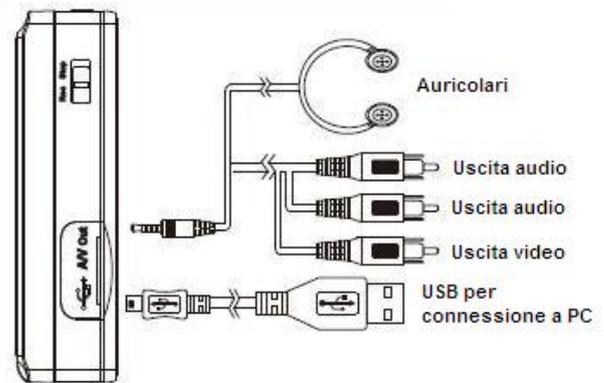
Alternatively you can also take out the SD card and connect to the PC via an external SD card reader.

--- IMPORTANT NOTE ---

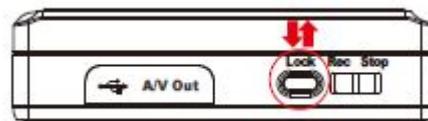
Although the files in the SD card video recorder are manageable with EXPLORER same way as Windows files, it is recommended limited to copying files from the SD card to the hard disk and vice versa. Other task of renaming and / or deleting files on the SD card with Windows Explorer and above

formatting, They can lead to malfunctions of the device.

Earphone Connection - DK-PV500L not have speakers. To hear audio headsets are provided to be included in the AV out jack.



LOCK button



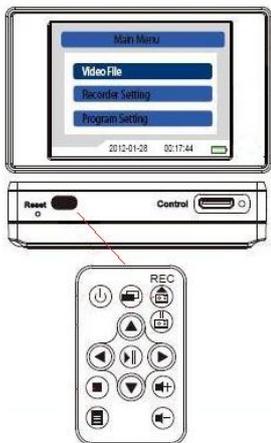
DK-PV500E has a LOCK button that serves to inhibit the touchscreen capabilities of the monitor in order to avoid inadvertent commands. Pressing the LOCK button displays a lock icon on the screen. Press again to unlock LOCK.

Switching on the DVR

To turn on and turn off the DVR hold for a few seconds the power ON / OFF button on the DVR. You can not power on with the remote control IR. If the wired remote control using the button on the remote control is incorporated in the ON / OFF button on the DVR is disabled.

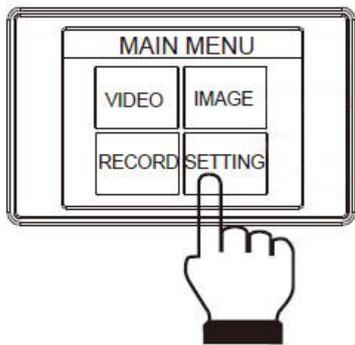
REC / STOP - On the top edge of the DVR is the REC / STOP selector that allows you to start and stop recording. This key also affects the startup behavior of the DVR. If the recording switch is set to REC after starting the DVR will automatically enter the recording. If the switch is set to STOP it is automatically shown the DVR configuration menu.

Control Menu - The Control menu allows you to configure the DVR to suit your needs. To move between the menu options you can act directly on the touchscreen or use the remote control by pointing it at the IR receiver on the lower edge of the machine. To navigate through the menu items, press the arrow buttons up / down and to confirm or enter the section of the desired menu, press the center button on the remote marked key PLAY / PAUSE.



The DVR control menu consists of 4 sections: SETTING - To configure options
RECORD - To record

VIDEO - To browse and play back movies IMAGE - To browse and play photos



registration

From main menu, press the RECORD button. DK-PV500E has 4 recording modes:

PREVIEW - Registration part in the drive exactly when the REC command

PRE-EVENT - The recording starts at the time of actuation of the REC command but also includes a period prior to the command of 5 or 15 seconds (programmable)

This function, that may not seem important, it's actually very important to make sure you do not miss important images because of a delay in the activation of the DVR.

MOTION - In the time of activation of the MOTION recording the DVR moves into the motion detection status. The actual recording starts at the moment when a movement occurs in the detection area. The recording will stop at the end of the time set in configuration (from 5 seconds to 3 minutes), and the VCR will return to stand-by waiting for a new intrusion.

Obviously the use of the MOTION DETECTION provides that the camera is absolutely still so it is not usable with cameras worn

PRE-MOTION - As the motion detection also including a period prior to the occurrence of the intrusion as already seen in the PRE-EVENT recording.

Start recording by touchscreen

To activate the recording just press the button on the touchscreen corresponding to the desired recording mode.

the live camera view is activated and you can change the volume of the microphone and the recording settings which, however, can also be set in menu

configuration such as It will be described detail later.

With the CAMERA button to take a picture, while the REC button starts recording.

The start of touch screen interaction recording is the one to choose choose each time mode recording.

When the recording is in progress lights up LED red next to the power button on the DVR.

Start recording with REC,

E 'can also activate the recording by pressing the REC button on the DVR. Pressing this button is possible to select the recording mode. In the DVR configuration it is possible to indicate

which

recording mode to use by default when the REC command is launched.

An interesting feature of this button is to be actually a selector (REC ON / OFF REC). If we set the switch to the REC position before turning on the DVR, it is sufficient to kindle

the device because it enters

automatically recording.

Start recording by IR remote control or wired remote control

E 'can also activate the recording acting as a wired remote control as described above or by the IR remote control by acting on the following buttons.



REC button - Start recording



PAUSE button - Stop recording momentarily. REC Press again to resume recording.



STOP button - End recording If the recording is started by remote control or wired remote control is not possible to specify the mode. In the DVR configuration it is possible to indicate which recording mode used by default when the REC command is launched.

Configuration options

From the screen of the main menu, press the SETTING button.

PREVIEW - Here you set the video options of the normal recording.

IS' possible setting up there

RESOLUTION from FullD1 (720x576) up to HD in 16: 9 (1280x720) and 4: 3 (1280x960). The parameter QUALITY 'adjusts the H264 compression, raising it reduces the compression and occupies more space in memory. The FRAME RATE defines the number of frames per second, the maximum is the Real-Time 25 f / sec .. E 'can also enable AUDIO recording. FRAME COUNTER STAMP enables the overlay of the frame counter, TIME STAMP enables stamping of date and time. DEVICE

STAMP ID skills there overlay

identifier of the DVR. DISPLAY lets you choose whether to play live images on-screen, TV output, or both. MICROPHONE SENSITIVITY adjusts the microphone sensitivity. OVERWRITE defines whether to overwrite the oldest video once run out of space in memory.

PRE-EVENT - In this section you set the recording options in the pre-event mode (see above) . - It is found the same as the preview mode options just described. In addition you can set the duration of the period of pre registration: 5 or 15 seconds

MOTION - In this section you set the recording options in the motion mode (see above). They find the same options in the preview mode. In addition it is possible to set the parameters related to the detection of the movement, namely:

- the duration of the registration period following the detected movement: 30 sec. 1 min. 3 min. 5 min. (DURATION)
- The detection sensitivity (LEVEL)
- The detection area (ZONE)

PRE-MOTION - In this section you set the recording options in the pre-motion mode (see above). They find the same mode of motion options. In addition you can set the duration of the period of pre registration: 5 or 15 seconds

DATE AND TIME - they set the date and time are important for the history of recordings.

DATE FORMAT - You set the date display format, in Italian as a rule choose DDMMYYYY

LANGUAGE - Available only English.

PRE-SET RECORDING MODE - You set the default recording method. The required recording method will be started automatically when the DVR. It will also be started when you press the REC command with the REC button on the DVR, the remote control or wired remote control.

RESUME TO PRESET DURATION - If you enable the options 15 or 30 seconds, after 15 or 30 seconds of operator inactivity the DVR will resume the registration default in the previous step.

TIMER RECORDING - IS' possible to define 4 automatic recording schedules by defining the date and time of start and end of recording. E 'can then leave off the DVR. The registration will take place in the pre-set time.

VIBRATION - It enables the vibration of the DVR indicating starting and recording.

OUT BACKLIGHT DURATION - It determines the idle time that determines the shutdown of backlight of the monitor to save battery. **DIGITAL CAM LOW LUX** - Enables the viewing with low light digital cameras RE-TCN9XHD **DIGITAL LIVE NTSC / PAL** - Sets the video standard to get from digital cameras RE-TCN9XHD **STORAGE OPTION - DK-PV500E** can only be recorded on your SD card .

STORAGE INFORMATION - Provides information on the capacity of the SD card and on the free space available. **MEMORY FORMAT** - Format the SD card

TV OUT SETTING - Sets the TV output video format. In Italy set PAL.

DISPLAY - Defines where to view images (LCD, TV output, or both).

VIDEO PLAYBACK - Defines whether to repeat playback or less at the end of the movie

VIDEO / IMAGE THUMBERNAIL - Enables the display with thumbnails in the list of files to be played. **START SLIDESHOW** - Displays images one after another while viewing

FIRMWARE UPGRADe - Firmware update should only be used on the advice of our technical support

RESTORE FACTORY SETTINGS - Restore factory settings

September POWER ON PASSWORD - Allows you to password protect the powered DVR

USB CONNECTION PASSWORD - Allows you to password protect USB connection with a computer **TOUCH PANEL CALIBRATION** - To adjust the touchscreen response

IMAGE REVERSE - Enable view mirror with rollover image

CREATE loggs - Enables the writing of the event memory useful to the police to know the usage history of the DVR.

VIEW LOG - Allows you to see the event memory **DEVICE INFO** - Display the version of the product.

playing files

Movies are recorded on the SD card in AVI format. For playback of Movies from the main menu select in the Video menu item. Recorded files are grouped into folders named with the date referenced recording. To start playing, tap the file on the touchscreen. To view photos in archives choose IMAGE and operate as described above for video.

And 'of course also possible to connect the DVR or soal SD card to a PC as described above and copy the recorded files to PC for playback using common player such as Windows Media Player, VLC etc.

Main technical features

video Inputs	1 analog - 1 Vp-p 75 Ohm 1 digital RAW data
TV Video Outputs	1 output 1 Vp-p 75 for TV or external monitor
video Connections	Minijack- RCA connector adapter provided
removable Memory	SD card or micro SD card - supplied adapter
SD Series card	Micro SD card 4GB
recording Capacity	About 25 minutes per GB capacity at max resolution
video Format	AVI
built-in Monitor	TFT LCD 3 "touchscreen
Battery	Lithium battery
battery Life	Approximately 200 minutes (including mini-camera RE-TCN9XH / D)
Supply	5VDC (power supply AC / DC included)
Consumption	600 mA
Weight	About 91g (including battery)
dimensions	80 (L) x52 (H) x22 (D) mm

