Model# COVERT II

INSRTUCTION MANUAL

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CONTENTS

1 Introduction

1.1 General Description

The *DLC COVERT II* is a digital scouting camera, which can triggered by any movement of animals or humans. Detected by a highly sensitive Passive Infra-Red (PIR) motion sensor and takes high quality pictures (up to 5 mega pixels) or video clips.

The *DLC COVERT II* consumes very little power (less than 300µA) during stand-by mode. This means it can have up to six months stand-by operation time when the device is powered by eight AA alkaline batteries. Once motion is detected, the digital camera unit will wake up, (Usually within one second) and then automatically take pictures or videos according to the programmed settings. *DLC COVERT II* is equipped with built-in infrared LEDs (no flash), so that it delivers clear pictures or videos (in black & white) at night. The *DLC COVERT II* is designed for outdoor use and is weather resistant.

1.2 Application

The *DLC COVERT II* can be used as a trail camera in hunting for monitoring of wildlife. It can be also be used as a surveillance camera.

1.3 Parts

The *DLC COVERT II* has the following interfaces: USB port, SD card holder, TV out, external DC power. *Fig. 1 shows the front view of the DLC COVERT II and its functional parts.*

Figure 1: Front view of the *DLC COVERT II*

Fig. 2 shows all the buttons of the remote control keypad and icons in the screen when it is turned off.

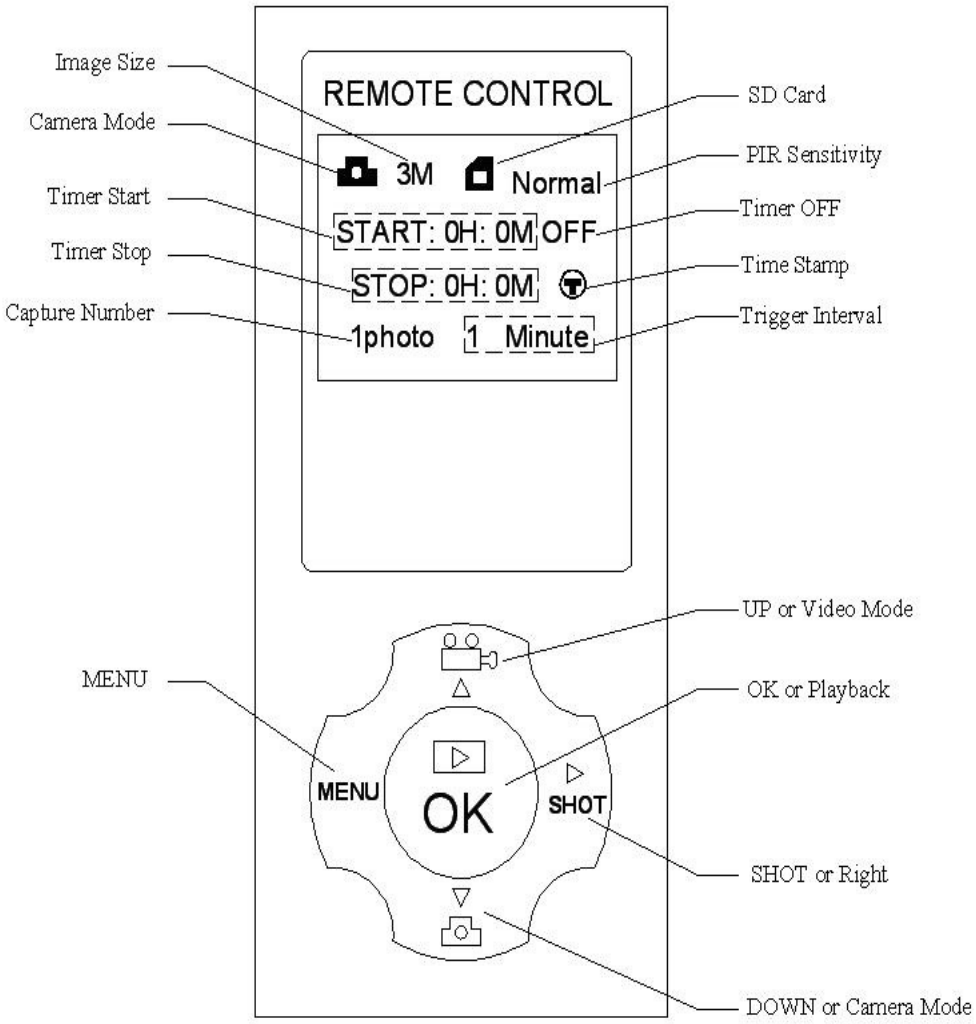

Figure 2: Buttons of the remote control keyboard and icons in the screen

The remote control keypad is an input device of the DLC COVERT II and is primarily used to set operational functions and parameters. As shown in Fig. 2, there are five keys: UP, DOWN, RIGHT, MENU (in place of "LEFT") and OK. Except the "MENU" key that is used for entering or exiting the menu, all other four keys have another function (for short–cut operations) besides their original function "up, down, right and ok" The "DOWN" key is also used to set "(still) camera mode" while the "UP" key to set "video" mode. The "RIGHT" key also serves as the shutter ("SHOT") key of the camera and the "OK" key sets the "Playback" mode.

Fig. 3 shows how to connect the remote control keypad to the DLC COVERT II camera

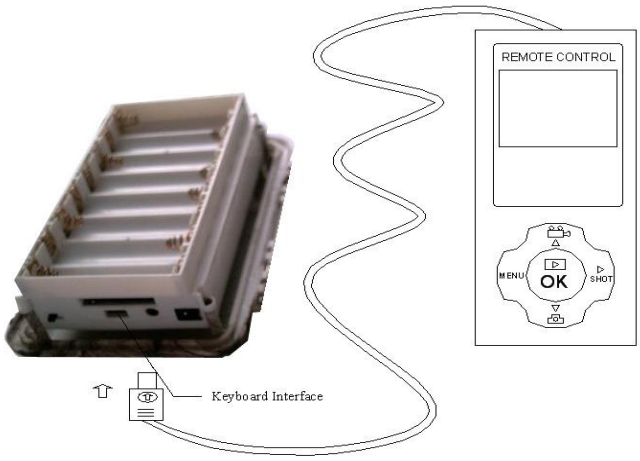

Figure 3: Connect remote control keypad

1.4 Saving Images or Videos

The DLC COVERT II uses a secure digital memory card (SD card) to save images (in .jpg format) and videos (in .avi format). Before inserting the SD card into the card slot by opening the front cover, please make sure that the write-protect switch on the side of the SD card is in the "Unlocked" position.

The supported card size of your DLC COVERT II is between 8MB and 2GB.

The following shows you how to insert and remove the SD card.

- When inserting the SD card, please open the front cover, then insert the SD card into the card slot with unmarked side upwards. You should hear a slight clicking sound. That indicates the card is inserted successfully. The SD card can only be inserted in one direction without forcing it.
- To remove the SD card, gently push in on the card. The card is released from the slot when you hear a slight clicking sound.

2 Cautions

★ The working voltage of the DLC COVERT II is 6V. Your DLC COVERT II will operate with either 4 or 8 AA batteries, or using an external 6V DC power supply (inside +, and outside -).

★ Please insert batteries with shown polarity.

★ Please make sure that the write-protect switch on the side of the SD card is in the "Unlocked" position.

★ The DLC COVERT II has no internal memory for images or videos. Thus please insert an SD card with the power OFF before testing the camera. Otherwise, the camera can't save images and videos. If there isn't an SD-card inserted or the write-protect of the SD card is not in the "Unlocked" position, the camera will shut down automatically after a long beep.

★ Don't insert or remove the SD card when the power switch is in the ON position.

★ The DLC COVERT II will be in USB mode when connected to a USB port of a computer. In this case the SD-card functions as a removable disk, regardless of the power switch being in the ON or OFF position.

★ It is recommended to format the SD card with the DLC COVERT II before using it for the first time.

★ Turning the power ON will force the DLC COVERT II into setup mode only when the remote control keypad is connected to the camera, otherwise, the DLC COVERT II enters into the Live mode automatically.

★ In the setup mode the DLC COVERT II will shut down automatically after 3.5 minutes if no key is pressed. Please turn on the power again if you want to continue to work with the remote control keypad.

3 Basic Operation

If you are not familiar with the basic operation of the *DLC COVERT II*, the following instructions will help you get a quick overview. Before doing any operation, please make sure you have correctly loaded the batteries into the *DLC COVERT II* and inserted an SD card into the card slot. If the SD card is not installed correctly or it's write-protect is "locked", the device will give an alarm with a long beep and then turns off automatically. The following gives you detailed instructions of different operations.

3.1 Loading Batteries

The first thing to do with a *DLC COVERT II* is to load the batteries. In fact, there are two methods to supply power for the device: one is to use eight AA batteries and the other is to use an external DC power supply. It is recommended to use eight new high-performance alkaline or lithium AA batteries. Internally the batteries are divided into two paralleled groups; each group contains 4 batteries and can supply power for the *DLC COVERT II* alone (with shorter battery life time). The device has eight battery slots, as shown in Fig. 4. Slots 1, 2, 3 and 4 form one group, while slots 5, 6, 7 and 8 form the other group. .

Figure 4: Loading batteries

NiMH rechargeable batteries can also be used, but they might have a shorter life span due to their bigger capacity leakage with the time and low temperature. Hence, it is recommended to use high performance alkaline or lithium AA batteries or lead-acid secondary cell with 6V output.

3.2 Connection of an External Power

Optionally you can connect an external 6V DC power source to the DLC COVERT II. It is recommended to use a power source with a current capability greater than 1000mA. However, under sufficient daylight the DLC COVERT II can work with much less current (>400mA). Please use the power source cable (Optional) to connect the external DC power source and insert it into the power jack of the DLC COVERT II, ***be sure that the polarity is correct.***

If both external power source and batteries are connected, the DLC COVERT II will be powered by the external power source.

When the batteries are low the low-battery indication (blue LED) will be lighted. Please change the batteries at this time.

3.3 Inserting the SD-card

Next please insert a SD-card into the card slot. Please refer to 1.4 for detailed instructions.

3.4 Powering on and Entering into the LIVE Mode

Now you can switch on the power after inserting the SD card. The DLC COVERT II has three basic operation modes:

a. OFF mode: Power switch at OFF position.

b. LIVE mode: Power switch at ON position and the remote control keypad is NOT connected.

c. SETUP mode: Power switch at ON position and the remote control keypad is connected.

In the above three modes the OFF mode is the specified safe mode when any actions must be taken, e.g., replacing the SD card or batteries, or transporting the device.

- **Entering into the LIVE mode**: After turning on the DLC COVERT II (power switch at ON position) it will enter into the LIVE mode. The motion indication LED (red) will blink for about 10s. This time interval is for you to make the DLC COVERT II ready for operation, e.g., to close the front cover, to lock it and to walk away. After entering into the LIVE mode, no manual controls are needed. The DLC COVERT II will take pictures or videos automatically according to the programmed settings, when motion is detected into the monitoring region.

  If the device is previously in the Setup mode, you just need to disconnect the remote control keypad from the camera in order to let the camera enter into the LIVE mode.

3.5 Connecting the Remote Control Keypad and Entering into the SETUP Mode

- **Entering into the SETUP mode:** Anytime in the LIVE mode, the SETUP mode is activated when inserting the remote control keypad into the keyboard interface of the *DLC COVERT II* (If a picture or a video has just being taken, this action will be finished first).

  In OFF mode you just need to connect the remote control keypad into the keyboard interface of the *DLC COVERT II* and power on the *DLC COVERT II* if the SETUP mode is needed.

  Under the SETUP mode you can change the settings on the *DLC COVERT II* manually or set operational parameters with the help of a display, i.e., the built-in LCD or an external TV monitor.

3.6 Manual Capture

Under the SETUP mode, you just need to aim at the object, and then press the SHOT key. A few seconds later, you'll get a picture saved in the SD card. The number of pictures and video clips at the bottom of the LCD will increase by one.

3.7 Default Settings and Live Monitoring

When the *DLC COVERT II* leaves the factory, most parameters are set as default. Please refer to table 1.

Parameter name	*Default*	*Other settings*
Camera Mode	Camera	Video
Image Size	3M Pixel	5M Pixel
Video Size	640×480	320x240
Capture Number	1 Photo	2 Photo, 3 Photo
Video Length	Avi 10 Second	1-60 seconds
Interval	1 Minute	0-59 seconds, 1-60 minutes
Sense Level	Normal	High, Low
Time Stamp	On	Off
Timer Switch	Off	On (00:00 – 23:59)

Table 1: Default settings of the *DLC COVERT II*

In the LIVE mode the DLC COVERT II is ready for motion detection. After having entered into the LIVE mode, the DLC COVERT II will take pictures or videos automatically according to the settings when it is triggered by detection of activity. The pictures or videos are saved on the SD card. Every picture or video has its own file name.

Before entering into the LIVE mode please pay attention to the following:

（1） The polarities of the power are correct and the power is sufficient.
（2） The SD card has sufficient space and its write-protection is “Unlocked”.
（3） Power switch at ON position.
（4） Remote Control Keypad is disconnected.
（5） Avoiding temperature and motion disturbances in front of the camera such as heat sources, tree branches, tall grass and others to prevent false triggering.
（6） The height away from ground for placing the device should vary with the object size appropriately. In general, three to six feet is preferred.

3.8 Reviewing Pictures or Videos

There are two ways to review pictures or videos captured:

a. Use a computer (or a SD card reader with a USB port)
b. Use a TV monitor (or a SD card reader with a TV-in jack)

- Using a PC: When using a PC to view images (or video clips), first connect the camera to the PC with a USB extension cable. And then run a commercial program with an image browser or an image browser built in the operating system to view images saved on the SD card under the directory of \DCIM\100EK113.

- Using a TV: First connect a TV monitor to the DLC COVERT II to review by TV. Next enter into the SETUP mode. The last picture will be shown on the TV monitor after pressing the OK key. Press the UP key for the previous picture and the DOWN key for the next one. The index of the picture and the total number is shown on the monitor when reviewing. At any time pressing the OK key again will return to the SETUP mode.

3.9 Powering Off

Turn the power switch to the OFF position when you don’t need to use it. Please note that even in the OFF mode the DLC COVERT II still consumes power but at a very low level. Therefore, be sure to remove the batteries if the device will not be used for a long time.

4 Advanced Operations

After you're familiar with the basic operations of the *DLC COVERT II*, you are now ready for advanced operations. In principle, the advanced operations in this chapter are very similar to the basic operations, only that the options and parameters of the *DLC COVERT II* are explained in more detail.

4.1 Parameters Setting and Operations

In order to change a parameter setting you must enter into the SETUP mode. Parameter setting starts with pressing the MENU key in the SETUP mode (called MENU state in this document). In the course of parameter some guide information will be shown on the LCD. So it is easy to do the next step according to this information. Generally speaking, certain icons, which indicate which value is going to be changed, will be shown on the LCD. Except for date and time setting, pressing the UP or DOWN key enters into the previous or the next menu (UP key for the previous menu and DOWN key for the next menu), pressing the RIGHT key alters the value of that specific parameter.

When possible, using a TV makes setup convenient. Otherwise, you may set parameters with the guide information shown on the LCD step by step. For your convenience two methods of parameter settings are introduced. In the first case we number the setting processes with small letters, while Roman numerals are used for the second case.

4.1.1 Setting the Camera Mode

Two ways are available for setting this parameter. One is to use the shortcut key and the other is through the MENU. With the shortcut key, you can set camera mode to "video" by pressing the UP key and set camera mode as "camera" by pressing the DOWN key in SETUP mode.

The following shows you how to set camera mode to "video", provided that the previous value is "camera":

a) In MENU state its initial state is shown in Fig. 5(a) and 5(1). The value of "camera" is highlighted.

Figure 5 (a)

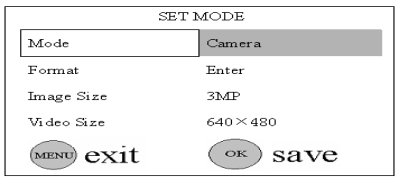

Figure 5 (1)

b) This parameter has two values: “camera” and “video”. Pressing RIGHT key can switch between these two parameters. In this example, after pressing RIGHT key, “video” will be highlighted, shown in Fig. 5(b) and 5(2).

Figure 5 (b)

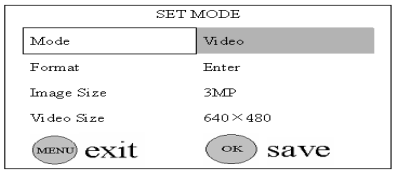

Figure 5 (2)

c) Press the OK key to save the current setting or MENU key for canceling the setting operation and exiting. Please note, the parameter will not be saved, and no parameter is changed if you press the MENU key at any time before pressing OK key. After pressing OK key, the guide information is shown in Fig. 5(c) and 5(3).

Figure 5 (c)

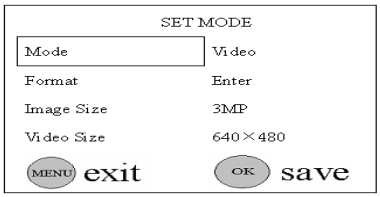

Figure 5 (3)

4.1.2 Formatting the SD Card

a) The system will delete all files stored in the SD card after formatting. Therefore you should make sure that you have made a backup of images or videos on the SD card. In MENU state press UP or DOWN key until the system enters into the format menu, shown in the Fig. 6(a) and 6(1).

Figure 6(a)

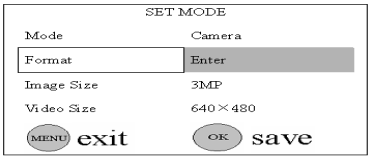

Figure 6(1)

b) Push the OK key. Then the system will ask you to decide whether to format the SD card or not, shown in the Fig. 6(b) and 6(2).

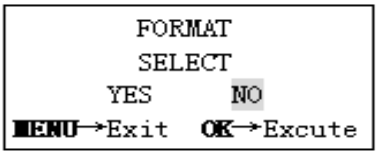

Figure 6(b)

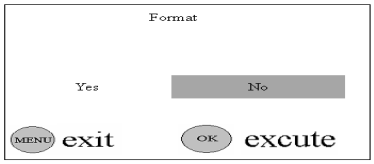

Figure 6(2)

c) If you want to proceed the formatting process, push the RIGHT key to change the value to 『YES』. 『YES』 will be highlighted, shown in the Fig. 6(c) and 6(3).

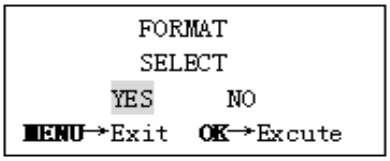

Figure 6(c)

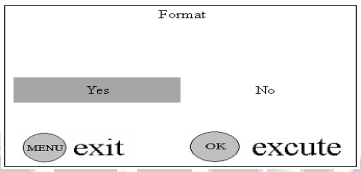

Figure 6(3)

d) Push the OK key to start formatting the SD card. During formatting the guide information will be changed, shown in the Fig. 6(d) and 6(4). Please note, you'll quit the parameter setting without any saving and no parameter is changed if you press the MENU key at any time before pressing OK key in step d. After formatting, you can push the UP or DOWN key to set another parameter, or push the MENU key for leaving the MENU state.

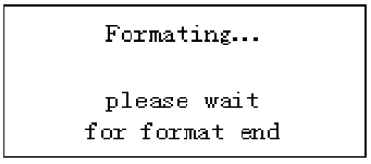

Figure 6(d)

Figure 6(4)

4.1.3 Setting Image Size

This parameter has two values: 5 mega pixels (5M Pixel or 5MP) and 3 mega pixels (3M Pixel or 3MP). The default value is 3 mega pixels. The following shows you how to set pixel size as "3M Pixel" provided that the previous value is "5M Pixel" at MENU state:

a) Push the UP or DOWN key till the parameter “Image Size” appears, shown in the Fig. 7(a) and 7(1).

Figure 7(a)

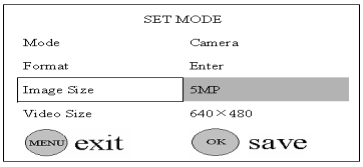

Figure 7(1)

b) Push the RIGHT key, the value will be changed to “3M Pixel”, shown in the Fig. 7(b) and 7(2). The value “3M Pixel” is highlighted.

Figure 7(b)

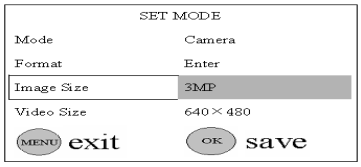

Figure 7(2)

c) Press OK key to save the current setting or MENU key for canceling the setting and quitting. After pressing the OK key the selected value will be no more highlighted, shown in the Fig. 7(c) and 7(3).

Figure 7(c)

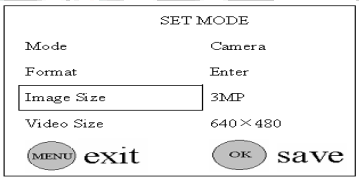

Figure 7(3)

4.1.4 Setting Video Size

This parameter also has two values: VGA (640×480）and QVGA (320×240）. The default value is “640x480” (VGA). The following shows you how to set video size as “320×240” provided that the previous value is at “640x480”:

Push the UP or DOWN key till the parameter “Video Size” appears, shown in the Fig. 8(a) and 8(1).

Figure 8(a)

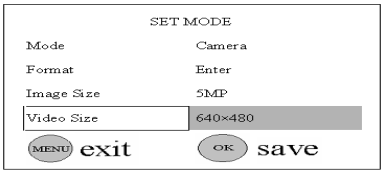

Figure 8(1)

a) Push the RIGHT key, the value of the parameter will be changed to "320x240", shown in the Fig. 8(b) and 8(2).

Figure 8(b)

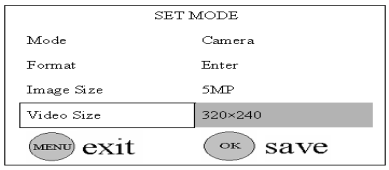

Figure 8(2)

b) Press OK key to save the current setting or MENU key for canceling setting and exiting. After pressing OK key the selected value will be no more highlighted, shown in the Fig. 8(c) and 8(3).

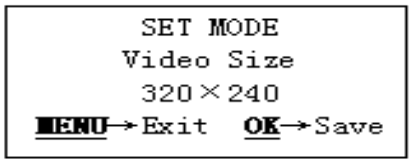

Figure 8(c)

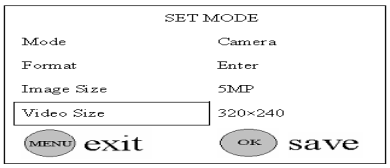

Figure 8(3)

4.1.5 Setting Date and Time

You can change the date and time of the camera by setting this parameter when necessary, e.g., after every battery change. It must be pointed out that the function of some keys is not the same as previous, such as UP/DOWN key is used for changing the value of date/ time and RIGHT key is used for jumping to the next setting menu. The format of the date is month/day/year while the time format is hour:minute:second. And the valid value for year is between 2006 and 2031. Provided that the date and time are needed to be set to November the fifteenth 2007 and half past ten, in MENU state the steps are as following:

Push the UP or DOWN key till the parameter "Set Clock" appears, shown in the Fig. 9(a) and 9(1).

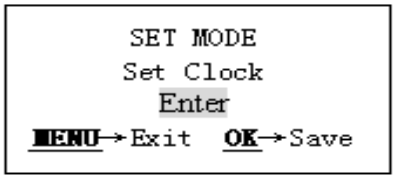

Figure 9 (a)

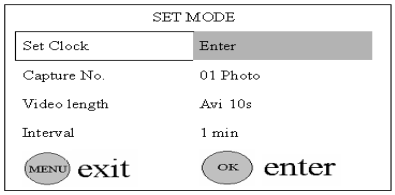

Figure 9 (1)

a) Push the OK key to start to set the month. Then the current date and time will be shown with the first item month highlighted, shown in the Fig. 9(b) and 9(2).

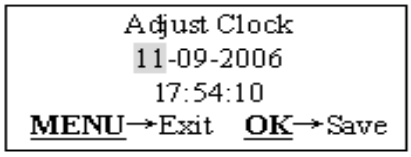

Figure 9 (b)

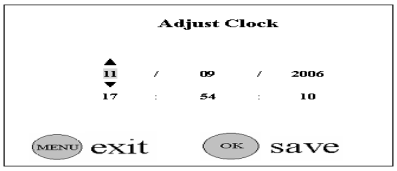

Figure 9 (2)

b) It doesn't need to set the month because the current showing month is the same as the desired setting month 11. So directly push the RIGHT key to enter into the day setting as shown in the Fig. 9(c) and 9(3).

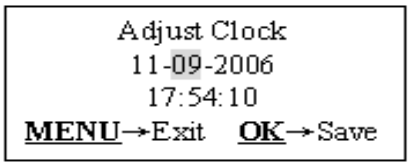

Figure 9 (c)

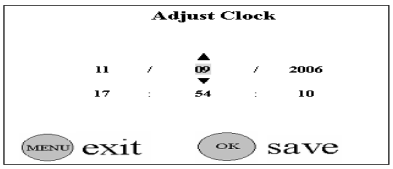

Figure 9 (3)

c) Press the UP or DOWN key till the day changes to 15 as shown in the Fig. 9(d) and 9(4).

Figure 9 (d)

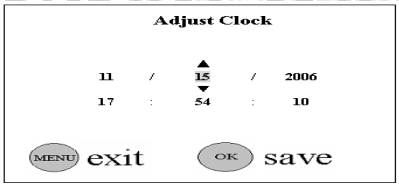

Figure 9 (4)

d) Press the RIGHT key to enter into the year setting as shown in the Fig. 9(e) and 9(5).

Figure 9 (e)

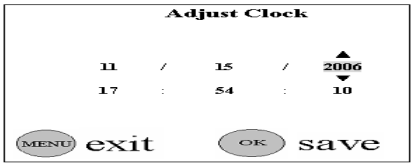

Figure 9 (5)

e) Press the UP or DOWN key till the year changes to 2007 as shown in the Fig. 9(f) and 9(6).

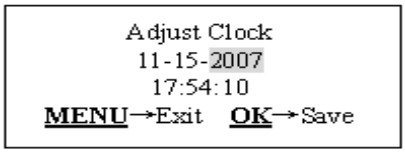

Figure 9 (f)

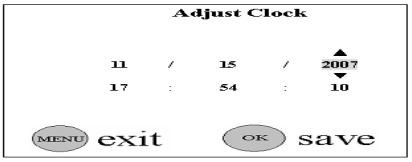

Figure 9 (6)

f) Press the RIGHT key to enter into the hour setting as shown in the Fig. 9(g) and 9(7).

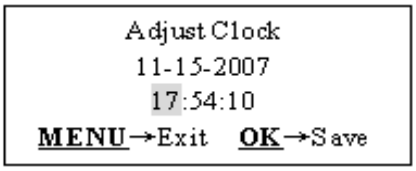

Figure 9 (g)

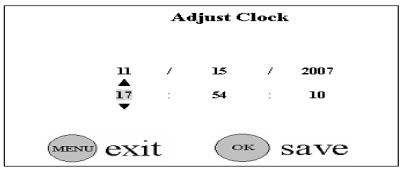

Figure 9 (7)

g) Press the UP or DOWN key till the hour changes to 10 as shown in the Fig. 9(h) and 9(8).

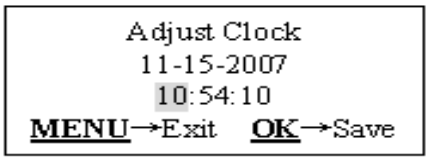

Figure 9 (h)

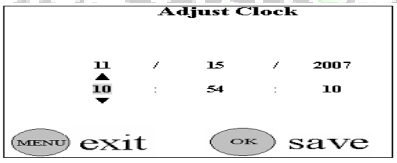

Figure 9 (8)

h) Press the RIGHT key to enter into the minute setting as shown in the Fig. 9(i) and 9(9).

Figure 9 (i)

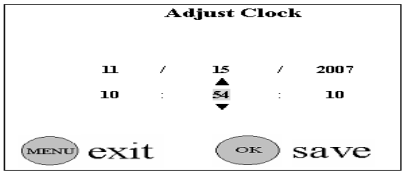

Figure 9 (9)

i) Press the UP or DOWN key till the minute changes to 30 as shown in the Fig. 9(j) and 9(10).

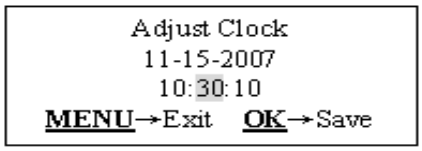

Figure 9 (j)

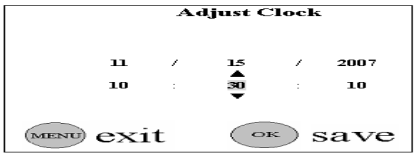

Figure 9 (10)

j) Press the RIGHT key to enter into the second setting as shown in the Fig. 9(k) and 9(11).

Figure 9 (k)

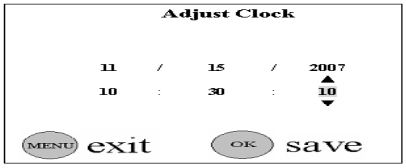

Figure 9 (11)

k) After the settings of the date and time are all finished, push the OK key to save them. Please note, you'll quit the parameter setting without any saving and no parameter is changed if you press the MENU key at any time only

4.1.6 Setting Photo Burst

This parameter affects the number of pictures taken for each triggering in the camera mode and is effective and can be adjusted only when the device is set to the LIVE mode. It has three values: "1 Photo" (take 1 picture after triggered) and "2 Photo" (take 2 pictures with a certain interval after each triggering) and "3 Photo" (take 3 pictures with a certain interval after each triggering). Its default value is "1 Photo". The following shows you how to set shooting numbers as "3 Photo" provided that the previous value is "1 Photo" in MENU state:

In MENU state push the UP or DOWN key till the parameter "Capture Number" appears as shown in the Fig. 10(a) and 10(1).

Figure 10(a）

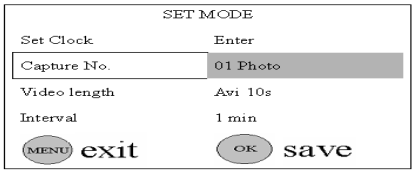

Figure 10(1)

a) Push the RIGHT key for two times. The value of this parameter will be changed to “3 Photo” and the value “3 Photo” is highlighted as shown in the Fig. 10(b) and 10(2).

Figure 10(b）

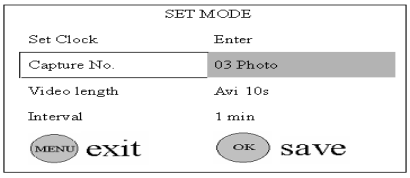

Figure 10(2)

b) Press OK key for saving setting or MENU key for canceling operation and exiting. After pressing OK key the selected value will no longer be highlighted, shown in the Fig. 10(c) and 10(3).

Figure 10(c）

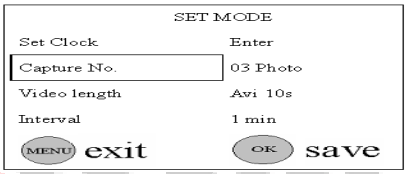

Figure 10(3)

4.1.7 Setting Video Length

This parameter is effective and can be adjusted only when the device in the video mode for the LIVE mode. Its value extends from 1 to 60 seconds with a step of one second. The default value is 10 seconds. During adjusting (by the UP or Down key), there is a accelerating function for the RIGHT key: pressing the RIGHT key steadily for a few seconds, the step length will increase to 5 seconds first, and then to 10 seconds per step a few seconds later.

The following shows you how to set video length to “Avi 5 Second” provided that the previous value is “Avi 10 Second” in MENU state:

a) Push the UP or DOWN key till the parameter “Video Length” appears as shown in the Fig. 11(a) and 11(1).

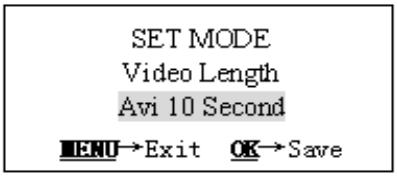

Figure 11(a）

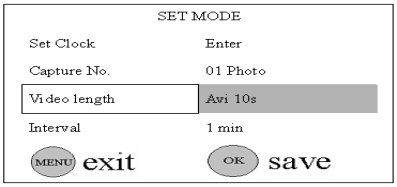

Figure 11 (1)

b) Push the RIGHT key till the value changes to “Avi 5 Second” as shown in the Fig.11(b) and 11(2).

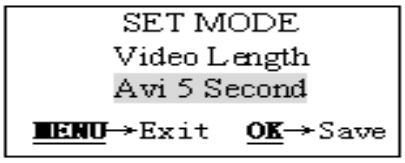

Figure 11(b）

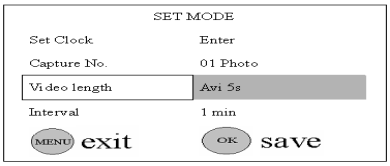

Figure 11 (2)

c) Press OK key for saving setting or MENU key for canceling operation and exiting. After pressing OK key the selected value will no longer be

Figure 11(c）

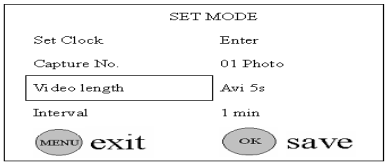

Figure 11 (3)

4.1.8 Setting Triggering Interval Time

This parameter is only effective in the LIVE mode. It means how long the PIR will be disabled after each triggering in the LIVE mode. During this time the PIR will not react to motion. This parameter has 120 values, ranging from 0 to 59 seconds (with a step of 1 second) and from 1 to 60 minutes (with a step of 1 minute). The default value is 1 minute. During setting the RIGHT key can also be used as an acceleration key in the same way described in 4.1.7.

The following shows you how to set triggering interval time to “5 Minute” provided that the previous value is “1 Minute” in MENU state:

a) Push the UP or DOWN key till the parameter “Interval” appears as shown in the Fig. 12(a) and 12(1).

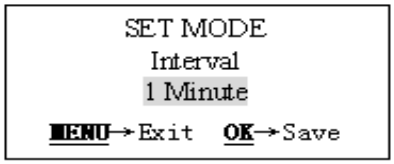

Figure 12 (a)

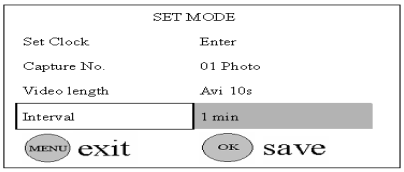

Figure 12 (1)

b) Push the RIGHT key till the value changes to “5 Minute” as shown in the Fig. 12(b) and 12(2).

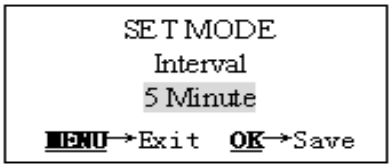

Figure 12 (b)

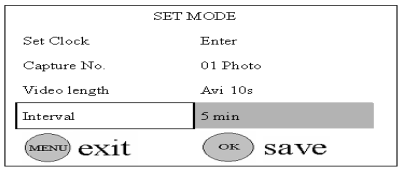

Figure 12 (2)

c) Press OK key for saving setting or MENU key for canceling operation and exiting. After pressing OK key the selected value will be no more highlighted, shown in the Fig. 12(c) and 12(3).

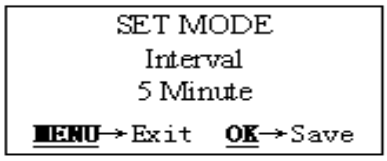

Figure 12 (c)

Figure 12 (3)

4.1.9 Setting PIR Sensitivity

This parameter defines the sensitivity of the PIR. There are three degrees: High, Normal and Low with default value “Normal”. The higher degree indicates that the DLC COVERT II is more easily to be triggered by motion, taking more pictures or recording more videos. The sensitivity of the PIR is strongly related to the temperature. Higher temperature leads to lower sensitivity. Therefore it is suggested to set a higher sensitivity for high temperature environments and a lower sensitivity for low temperature environments.

The following shows you how to set PIR sensitivity as “Low” provided that the previous value is “Normal” in MENU state:

Push the UP or DOWN key till the parameter “Sensor Level” appears as shown in the Fig. 13(a) and 13(1).

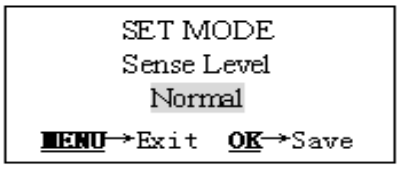

Figure 13(a)

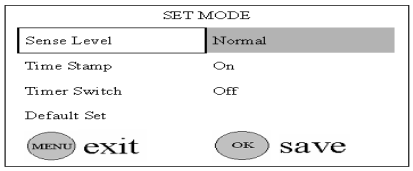

Figure 13(1)

a) Push the RIGHT key till the value changes to “Low” as shown in the Fig. 13(b) and 13(2).

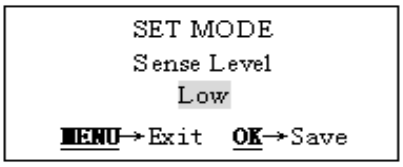

Figure 13(b)

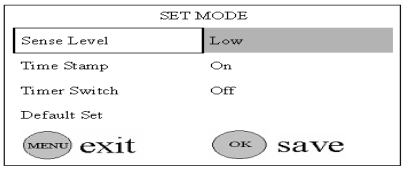

Figure 13(2)

b) Press OK key for saving setting or MENU key for canceling operation and exiting. After pressing OK key the selected value will be no more highlighted, shown in the Fig. 13(c) and 13(3).

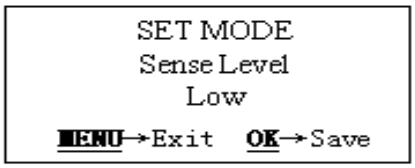

Figure 13(c)

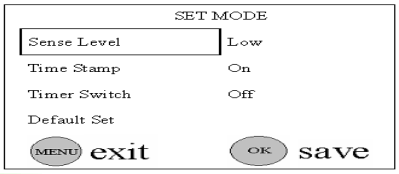

Figure 13(3)

4.1.10 Setting Time Stamp

This parameter defines whether the time should be stamped in the pictures and video clips or not. The following shows you how to set time stamp as “Off” provided that the previous value is “On” in MENU state:

Push the UP or DOWN key till the parameter “Time Stamp” appears as shown in the Fig. 14(a) and 14(1).

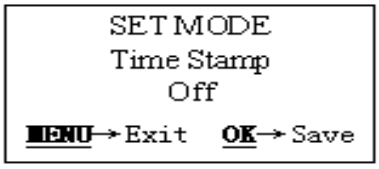

Figure 14(c)

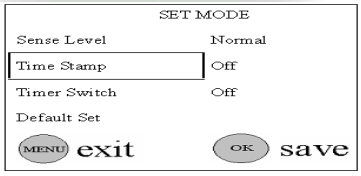

Figure 14(3)

a) Push the RIGHT key, the value of the parameter will be changed to “Off” as shown in the Fig. 14(b) and 14(2). The value “Off” is highlighted.

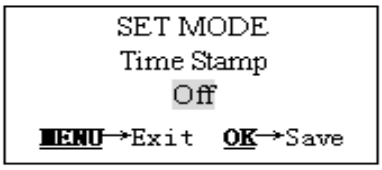

Figure 14(b)

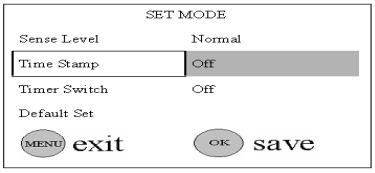

Figure 14(2)

b) Press OK key for saving setting or MENU key for canceling operation and exiting. After pressing OK key the selected value will no longer be highlighted, shown in the Fig. 14(c) and 14(3).

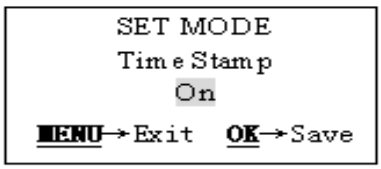

Figure 14(a)

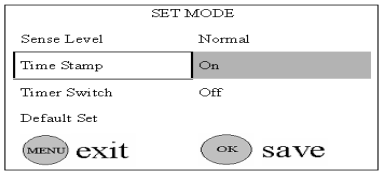

Figure 14(1)

4.1.11 Setting Timer

This parameter is only valid in the LIVE mode and defines a certain time lapse in a day when the DLC COVERT II can be triggered. In the rest of the time the device is shut off. The effective value of the hour ranges from 0 to 23 while the minute ranges from 0 to 59. The setting of this parameter is similar to that of date and time.

Please note that the start and stop time can only be effective when the timer is set to the value of "On". Provided that the device should work from eight clock a.m. to five clock p.m., in MENU state detailed operations are as following:

In MENU state push the UP or DOWN key till the parameter "Timer Switch" appears as shown in the Fig. 15(a) and 15(1).

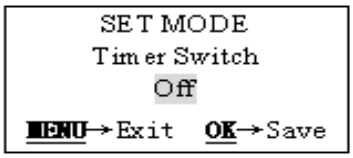

Figure 15 (a)

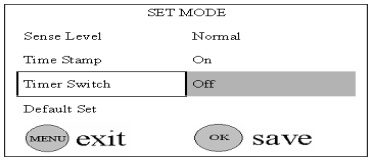

Figure 15 (1)

a) Push the RIGHT key at first. Then the value of this parameter will be changed to "On", shown in the Fig. 15(b) and 15(2).

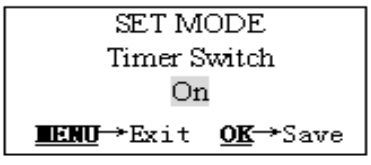

Figure 15 (b)

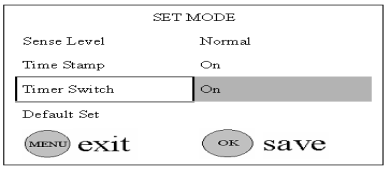

Figure 15 (2)

b) Push the OK key to enter into setting start time. Then the hour of start time can be set as shown in the Fig. 15(c) and 14(3).

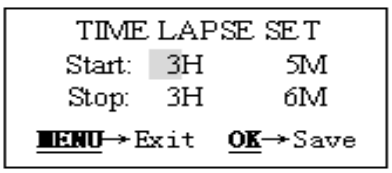

Figure 15 (c)

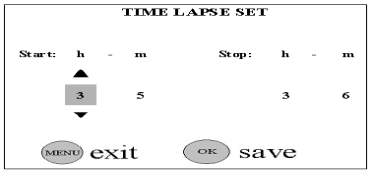

Figure 15 (3)

c) Push the UP or DOWN key till the hour of start time changes to 8 as shown in the Fig.15(d) and 15(4).

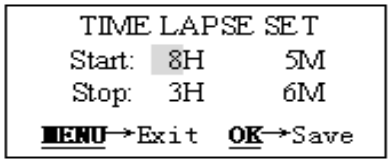

Figure 15 (d)

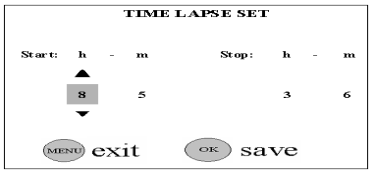

Figure 15 (4)

d) Press the RIGHT key to set minute of start time as shown in the Fig. 15(e) and 15(5).

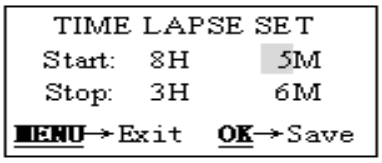

Figure 15 (e)

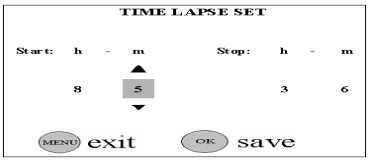

Figure 15 (5)

e) Push the UP or DOWN key till the minute of start time changes to 0 as shown in the Fig. 15(f) and 15(6).

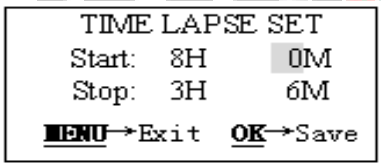

Figure 15 (f)

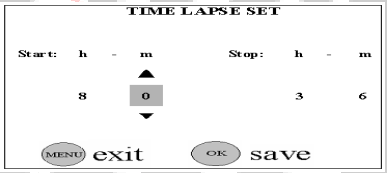

Figure 15 (6)

f) Press the RIGHT key to set hour of stop time as shown in the Fig. 15(g) and 15(7).

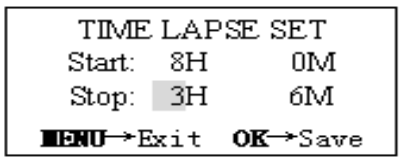

Figure 15 (g)

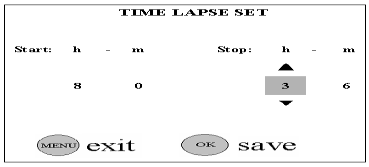

Figure 15 (7)

g) Push the UP or DOWN key till the hour of stop time changes to 17 as shown in the Fig. 15(h) and 15(8).

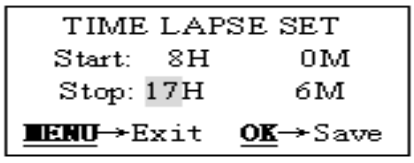

Figure 15 (h)

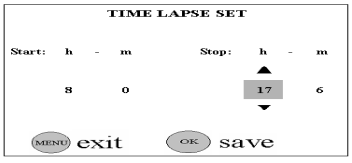

Figure 15 (8)

h) Press the RIGHT key to set minute of stop time as shown in the Fig. 15(i) and 15(9).

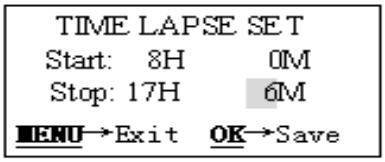

Figure 15 (i)

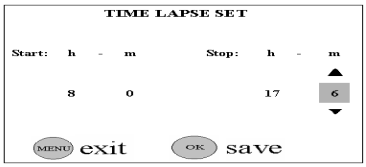

Figure 15 (9)

i) Push the UP or DOWN key till the minute of stop time changes to 0 as shown in the Fig. 15(j) and 15(10).

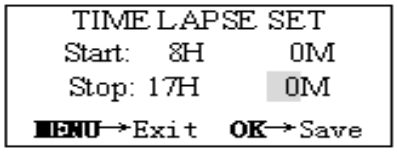

Figure 15 (j)

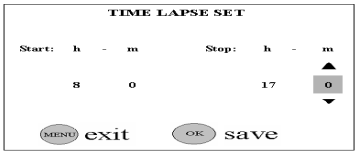

Figure 15 (10)

j) Press OK key for saving timer setting or MENU key for canceling operation and exiting. After pressing OK key the selected value will no longer be highlighted, shown in the Fig. 15(k) and 15(11). Next press MENU key to return to preview state.

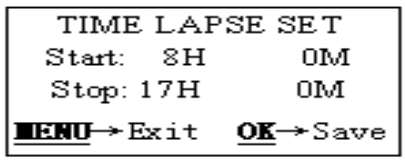

Figure 15 (k)

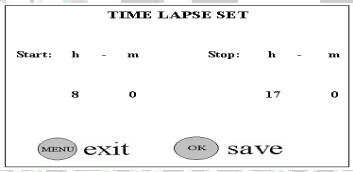

Figure 15 (11)

4.1.12 Resetting to Default Settings

Sometimes it is very helpful to load the default settings. This can be simply done according to the following steps:

In MENU state press the UP or DOWN key till the parameter “Default Set” appears as shown in the Fig. 16(a) and 16(1).

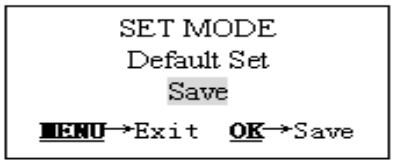

Figure 16 (a)

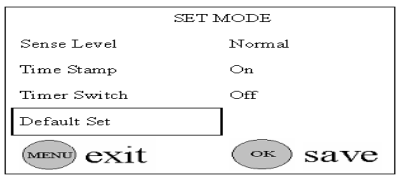

Figure 16 (1)

a) Push the OK key to load default settings or MENU key to cancel this operation. After pressing OK key related parameters are set to default values (see Table 1). And then the system enters into preview state and some icons shows in the LCD as illustrated in Fig. 16(b).

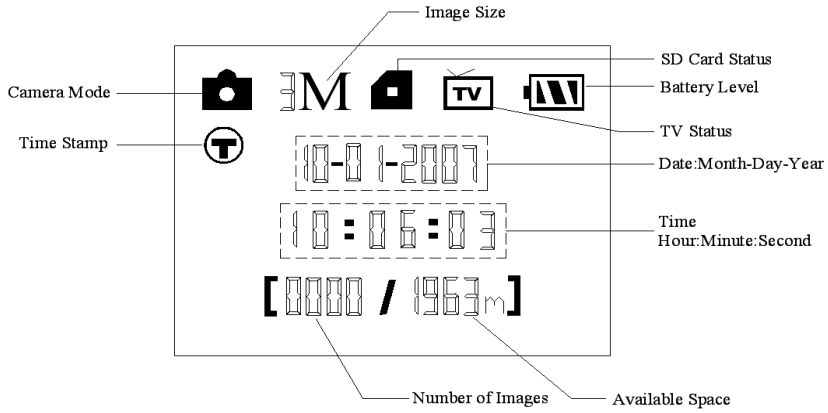

Figure 16 (b)

4.2 Playing back and Deleting Operations

Note that stand-alone operations of playback and deleting can only be done in the SETUP mode.

4.2.1 Stand-alone Playback

a) A TV monitor can also be used to play back pictures (or videos). To do this, connect a TV monitor that has a TV-in(video-in) interface to the DLC COVERT II by the video cable (included).
b) Enter into the SETUP mode.
c) Push the OK key. Then the latest picture (or video) will be displayed on the TV. For video clips, press the SHOT key to start, press the SHOT key again to stop the video. When viewing images, the total number of all images in the SD card and the index of the displaying image are shown in the center of LCD and at the bottom of TV monitor respectively.
d) Push the UP key for the previous picture (or video) and the DOWN key for the next one.
e) Push the OK key to return to preview state when playback is finished.

4.2.2 Deleting Operations (Stand-alone)

a) First find the image (or video) which is going to be deleted.
b) Push the MENU key. Then 【Del Image One】 will be displayed in the middle of LCD.
c) If you only want to delete the current one, just skip this step. If all images and videos in the SD card should be deleted, push the RIGHT key and then the LCD will show 【Del Image All】.
d) Pressing the OK key will inform you again whether to perform the operation with "No" (default prompt). Press the RIGHT key to change the value to "Yes" and then 【Yes】 highlighted will display in the middle of LCD.
e) Press the OK key to delete and MENU key to exit to step a).

Please Note, after deleting a picture or a video file, the deleted files can't be restored!

4.3 LIVE Monitoring

In the SETUP mode you should set the necessary operational parameters of the DLC COVERT II, such as camera mode and triggering interval time. Next, switch to the LIVE mode. And then the device starts monitoring automatically.

By entering into the LIVE mode, the motion indication LED (red) will blink for about 10s. This time lets you make preparation for monitoring. For example, you can mount and lock the front cover, fix the DLC COVERT II and then walk away. In this waiting time, the PIR indication light (RED) will blink continuously. After the light is put off, the PIR starts to work.

When activity is present, the PIR will detect it and then the DLC COVERT II will start to take picture(s) or video as programmed. According to the pre-defined triggering interval time the PIR can be reactivated after this time lapse is over. Next, the DLC COVERT II will repeat this process. Please note, the PIR is strongly sensitive to the temperature. When the temperature difference between environment and object goes larger, the sensing distance is farther. The farthest distance that the PIR can monitor is up to 65ft at 32°F while it can only reach to 19ft at 89.6°F.

4.4 Sensible Angle and Distance Test

When you want to know whether the DLC COVERT II can monitor a certain position, this operation is needed. You can learn that the sensible angle and monitoring distance of the DLC COVERT II by this operation. To start the test: switch the DLC COVERT II to the SETUP mode, and then make movements nearby in front of the camera. If the PIR indication light blinks, it indicates that position can be sensed. Otherwise, that place is out of the sensing area. You can do a series tests to determine positions being monitored and not being monitored, and then you can estimate the sensible angle of the DLC COVERT II.

4.5 File System

This *DLC COVERT II* supports two kinds of file system format: FAT12 and FAT16. The default value is FAT16 to save pictures and videos. Here are some important notices.

1) You don't need to concern about the file system format of the *DLC COVERT II* unless you have problems with reading the SD card by your equipment. If this happens, please format the SD card in the *DLC COVERT II* or in a computer and then insert the card into your camera to make a try.
2) The default file system format of the *DLC COVERT II* is FAT16.
3) Most computers can read data from the SD card with format FAT16.
4) When you format a SD card in your computer, you should to choose the file system format as FAT16. Normally FAT16 is recommended unless your other image viewer is equipped with FAT12 format.

4.6 File Format

This *DLC COVERT II* uses a SD card to save images and videos in the pre-named folder \DCIM\100EK113. Each new image or video will be numbered incrementally by shooting time. The saving name likes IM000001.JPG or IM000001.AVI. Through the suffix you can distinguish whether the file is an image (with suffix .jpg) or a video (with suffix .avi).

4.7 Factory Default

When leaving the factory, most commonly used parameters usually have their default for the product. These values are all optimal or commonly used. The predetermined values of primary parameters for the *DLC COVERT II* are:

Parameter name	***Default***	***Other settings***
Camera Mode	Camera	Video
Image Size	3M Pixel	5M Pixel
Video Size	640×480	320x240
Capture Number	1 Photo	2 Photo, 3 Photo
Video Length	Avi 10 Second	1-60 seconds
Interval	1 Minute	0-59 seconds, 1-60 minutes
Sense Level	Normal	High, Low
Time Stamp	On	Off
Timer Switch	Off	On (00:00 – 23:59)

Default settings of the *DLC COVERT II*

5 Mounting the DLC COVERT II

When you want to use the LIVE mode of the DLC COVERT II in the outdoors, you must mount the device on a certain place properly. It is recommended to mount the DLC COVERT II on a tree whose diameter is at least 8in. To get the optimal picture quality, the tree should be 10-16ft. away from the place to be monitored, and at a height of 3-6 ft. The aiming direction of lens and the movement direction of the object should be orthogonal.

There are two ways to mount the DLC COVERT II: using the included strap, or the bottom screw.

- **Using the strap:** To use the strap to mount the DLC COVERT II on a tree is illustrated in Fig. 17. Take the strap ends and go through the two back holes of the DLC COVERT II and wrap around the tree fastening the buckle.

Figure 17: Fixing the DLC COVERT II with belt

- **Using Bottom screw**: The DLC COVERT II has a socket on the bottom of the camera that you can mount on a tripod.

Appendix Ⅰ: Technical Specifications

Image Sensor	5 Mega Pixels
Maximum Pixel Size	2560x1920
Lens	F=3.1; FOV=40°; Auto IR-Cut-Remove (at night)
IR-Flash Range	39' – 49'
Display Screen	1.7"
Memory Card	SD card up to 2GB
Picture Size	3MP = 2048x1536 ; 5MP = 2560x1920
Video Size	640x480: 16fps; 320x240: 20fps
PIR sensitivity	3 sensitivity level's: High/Normal/Low
Operation	Day/Night
Trigger Time	1s
Triggering Interval	0sec. - 60min. programmable
Shooting Numbers	1~3 programmable
Video Length	1-60sec. programmable
Timer Switch	On /Off Time Lapse programmable
Power Supply	8xAA recommended, 4xAA as emergency power
Stand-by Current	< 0.3mA(<7mAh/day)
Power Consumption	150mA (+450mA when IR-LED lighted)
User Interface	LCD display
Interface	TV out (NTSC); USB; SD card holder; 6V DC external
Security	Strap,
Operation Temperature	-20 - 60℃ (Storage temperature: -30 - 70℃)
Operation Humidity	5% - 90%
Security authentication	FCC

Contact Us

Thank you for purchasing the *DLC COVERT II* digital scouting camera. If you need technical support or have problems with this product, please visit www.dlccovert.com/FAQ or Email us at support@dlccovert.com as always you can call us (877) 462-1799

If your product is out of the initial one year warranty period, you can still receive repair service from DLC for a fee.

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