Vividia™ Telescopic Pole Video Inspection System W/ DVR Function

User's Manual
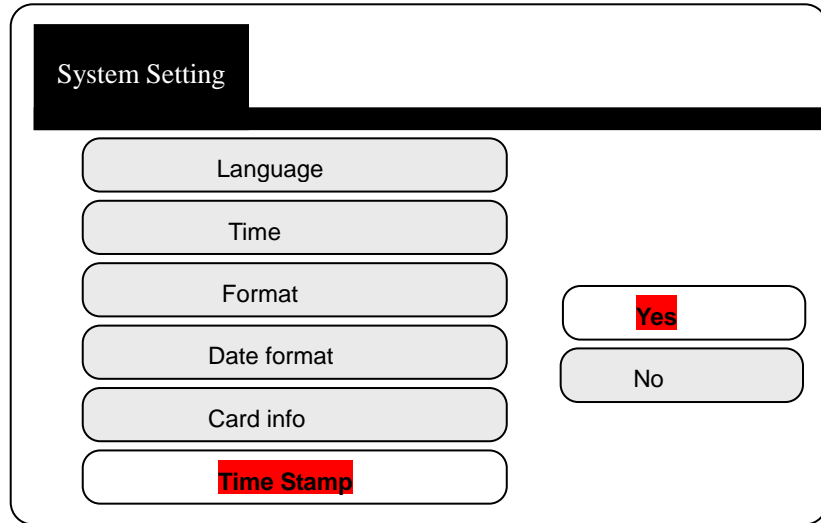## Model: TVS-300DVR & TVS-500DVR

Oasis Scientific Inc.

Read these instructions completely before operating the device
PLEASE CHARGER BATTERY FIRST BEFORE USE

Time Stamp Setting

```
System Setting

    Language

    Time

    Format                      Yes

    Date format                 No

    Card info

    Time Stamp
```

FAQ

Question1：All parts assembled together, turn on the button, there is no image on monitor

Answer: Check all parts whether they were assembled well and Li-ion battery fully charged

Question 2: The device can't record

Answer： Check the "DVR on/off" red button, press the button to turn on DVR function

Question 3：After recording, there is no file in the memory card

Answer： 1、Check the SD card is locked or not, and insert it in the right way

2、Check the DVR control box can read SD card

Question 4：There is no sound in a video

Answer：Make sure to press the "MIC on/off button" to turn it on and use a right earphone

Question 5：The system is crashed when one is recording a video.

Answer：Please do not remove the SD card when one is recording a video.

Table of Contents

Technical Specification

Camera	
Camera head	1/4 CMOS
Pixel	0.3 Mega Pixels
LED lights	12pcs white LED lights
Camera length	320mm
Camera diameter	23mm
Monitor	
LCD screen	5.0 inch LCD
Resolution	800*480
Monitor size	130*80*10mm
Telescopic Pole	
Max Length	2.3m
Min length	0.9m
Battery	
Battery capacity	1500mAh
Output voltage	DC 12V
Charger adaptor	
Input voltage	AC 100-240V 50/60HZ
Output voltage	DC-12V 500mA
DVR	
PAL output	704X576(PAL)
Video format	MPEG-4
Recording format	ASF
SD card	2GB-32GB
Complete Set	
Length	Max length 3m
Working voltage	DC 12V
Working and storage temperature	-20℃ to 50℃

Card info

Total Size：7598MB

Usage Size：0.1％

Remain Size：99.9％

Date Format

Time and date setting save

```
Time Setting

              △
Date Time      2016/10/05        11:06
              ▽
```
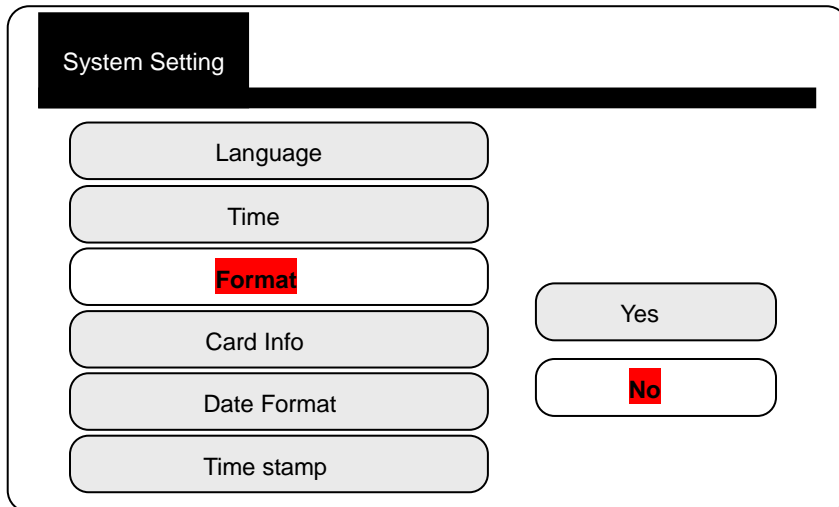
Press left/right button to move the cursor,

Press up/down button to set the time

Press "OK" button to save the setting

Format

```
System Setting

        Language

        Time

        Format

        Card Info          Yes

        Date Format        No

        Time stamp
```

Choose "Yes", then format the SD card

Note: "Format" will delete all files in SD card (All files will lost and cannot get them back)

**Check the SD card capacity**

Save this manual

Attention

1. Read this manual carefully before using this system.
2. Do not drop or press hard on the device.
3. Please screw the camera tightly if using it under the water
4. Do not turn too hard when adjusting the monitor's direction, especially if the angle is less than 30° from left to right and 90° up.
5. Please inset the SD card in a right direction, otherwise it will damage the DVR.
6. Please using DVR to format the SD card if needed
7. Do not remove the SD card during recording.
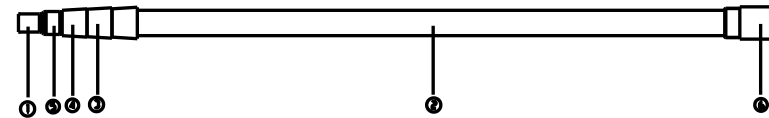8. Please use the original charger adaptor to charge batteries.

Know your device
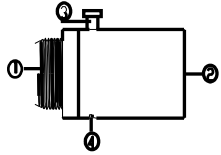
Camera head and flexible part
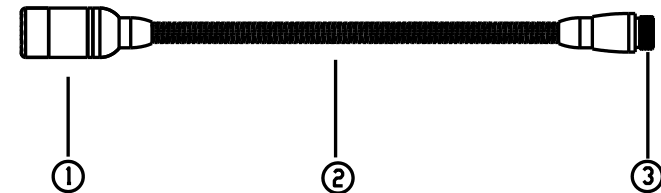
1. Camera head
2. Flexible part
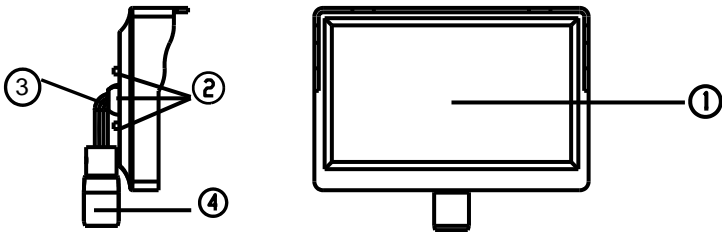3. Gold pins connector

Telescopic pole

1. Connector to camera
2. First telescopic shaft
3. Second telescopic shaft
4. Third telescopic shaft
5. Fourth telescopic shaft
6. Controller connector
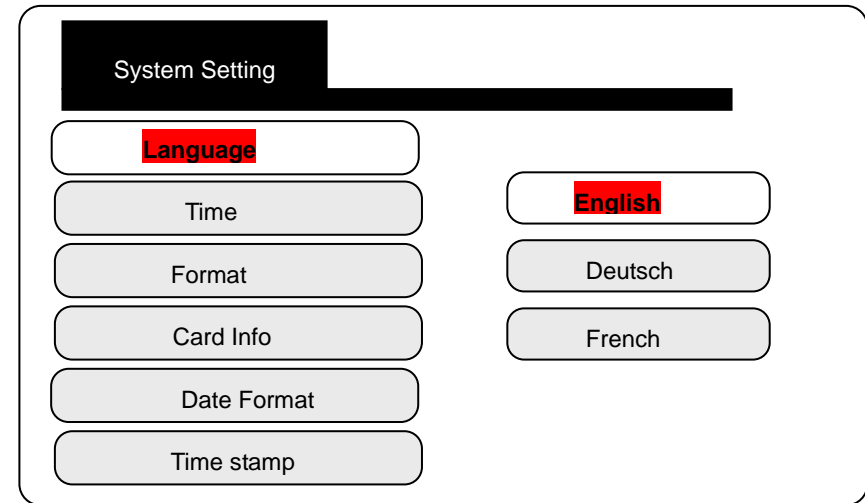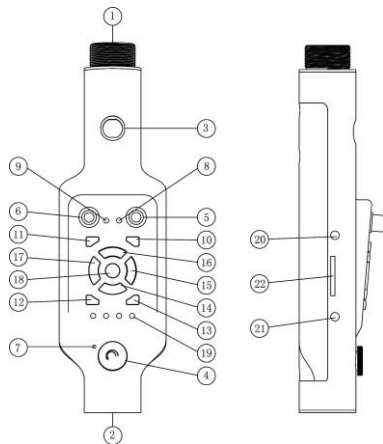
Rotating joint

1. Connector to telescopic pole
2. Connector to DVR control box
3. Rotating setting screw
4. Allen screw (Please do not screw it)

5" Digital LCD Monitor

1. TFT screen
2. Control buttons
3. The rotating part and bracket
4. Monitor female plug and fixed nut

Control Box

System Setting

- **Language**
- Time
- Format
- Card Info
- Date Format
- Time stamp

- **English**
- Deutsch
- French

Choose the suitable language to meet your need

Time and Date Setting

System Setting

- Language
- **Time**
- Format
- Card Info
- Date Format
- Time stamp
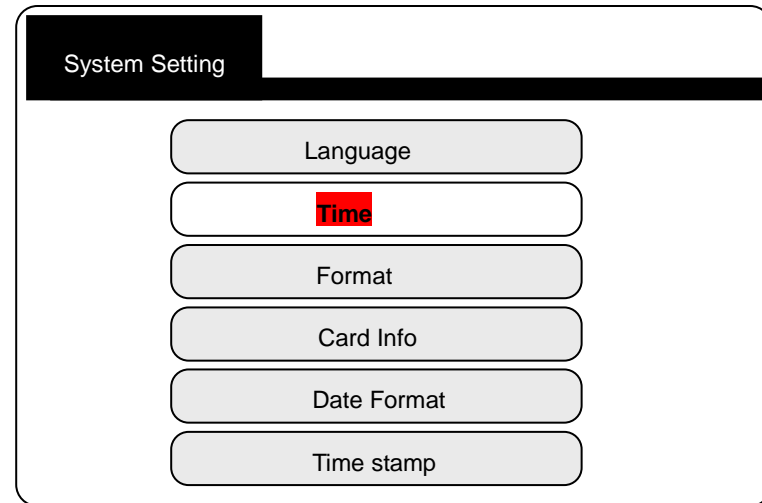
Save time and date setting

Delete：

A   Press up/down button to choose the file

B   Press "P / P" Button to delete

Playback：

A   Press up/down button to choose the file, then press "ok" button

B   Press "P/P "Button to playback

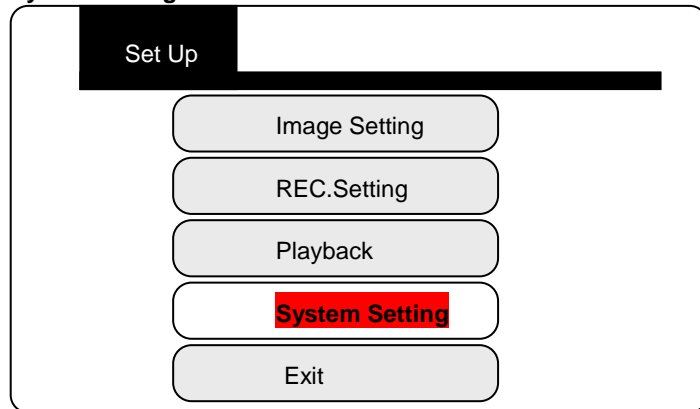**Video forward/backward：**（2、4、8、16times playback speed for choose ）

When playback the video，press left/right button to choose backward/forward

Volume adjust： When playback the video, press up/down button to adjust the volume。8 is the highest value，0 is the lowest value.

Pause： When plackback the video, press "P/P" button to pause the video；press it again, play the video

Stop： When playback the video, press "SOTP" button to stop to play the video

**Exit the playback model：** Press "ESC" button to back to REC files list

System Setting

```
┌─────────────────────────────────────┐
│  ███████████                         │
│    Set Up   █                        │
│  ██████████████████████████████      │
│                                      │
│         ╭──────────────────╮         │
│         │  Image Setting    │        │
│         ╰──────────────────╯         │
│         ╭──────────────────╮         │
│         │   REC.Setting     │        │
│         ╰──────────────────╯         │
│         ╭──────────────────╮         │
│         │    Playback       │        │
│         ╰──────────────────╯         │
│         ╭──────────────────╮         │
│         │  System Setting   │        │
│         ╰──────────────────╯         │
│         ╭──────────────────╮         │
│         │      Exit         │        │
│         ╰──────────────────╯         │
└─────────────────────────────────────┘
```

Press "OK" button to enter the setting

Language Setting

| No	Button	Function
1	Connector	Male connector
2	Connector	Connect with hand
3	Male plug	To monitor
4	Knob On/Off	Off/on/LED Brightness
5	DVR button	DVR on/off
6	MIC button	MIC on/off
7	MIC recording	Recording port
8	DVR indicator light	Working/on
9	MIC indicator light	MIC/on
10	ESC	Exit/Playback
11	MENU	Main menu
12	P/P button	Photograph/playback/pause/delete file
13	STOP	stop
14	▲	up/increase volume
15	▼	down/reduce volume
16	◀	left/backward
17	▶	right/forward
18	OK	Confirm
19	Battery indicator	Battery level
20	VIDEO port	Connect with other monitor
21	Earphone jack	Connect to earphone
22	SD card slot	Inset SD card heads

Hand Handle
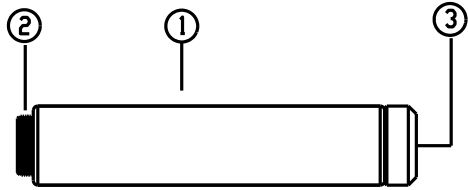
1. Holding Position
2. Connector to the control box
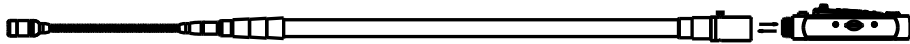3.12V charger port

Assembly

1. Take off the protectors of components.

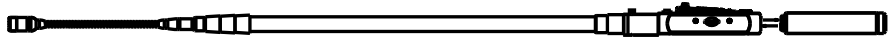2. Screw the camera head to the telescopic shaft connector
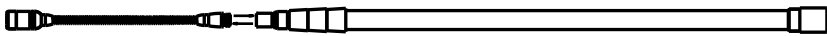
3. Screw the rotating joint to another connector of the telescopic pole
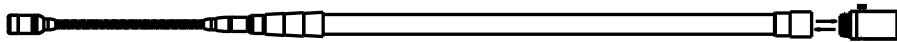
4. Screw the DVR control box to the connector of the rotating joint.

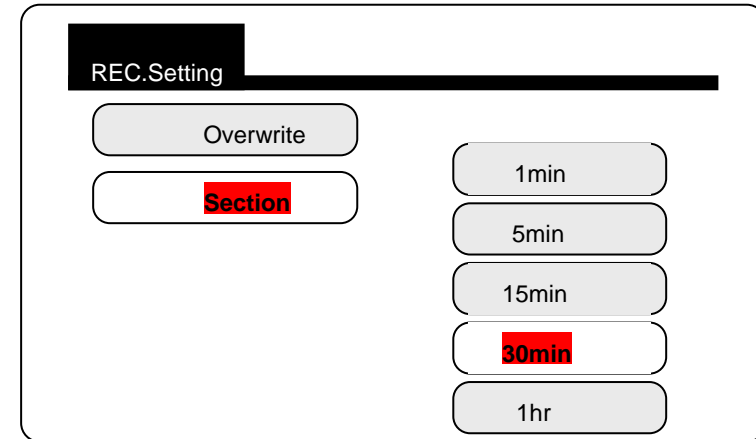5. Screw the hand handle to the DVR control box connector

6. Insert the LCD monitor to female plug into the DVR control box, and then screw the nut tightly.
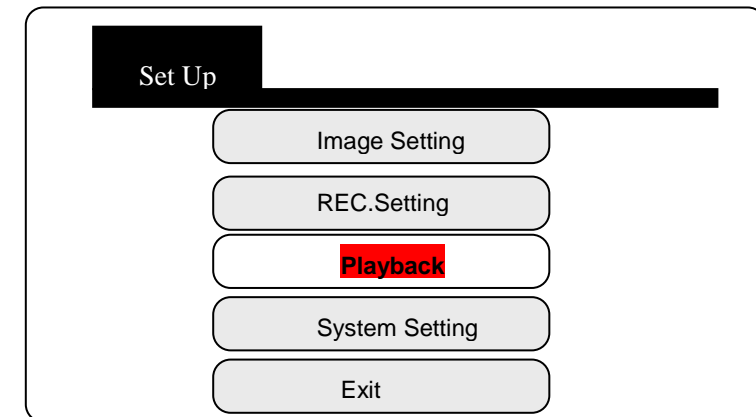
Note: If the SD card capacity is full, the DVR will delete the earliest 300MB file , then will start to record new file

Section

REC.Setting
Overwrite
Section
1min
5min
15min
30min
1hr

Playback and delete the video file

Set Up
Image Setting
REC.Setting
Playback
System Setting
Exit

Press "OK" Button, the video file list will show up

Playback the video in the file list

	File Name	Date	Start Time
ASF	00000001	2014/4/14	05 : 06 : 50
ASF	00000002	2014/4/14	05 : 56 : 02
ASF	00000003	2014/4/14	00 : 32 : 55
ASF	00000004	2014/4/14	11 : 14 : 05
			Page 01 / 14

Image Setting

Quality

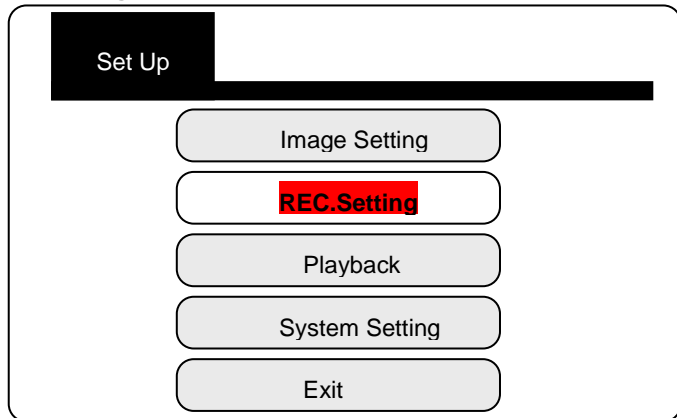Frame Rate   **D1**
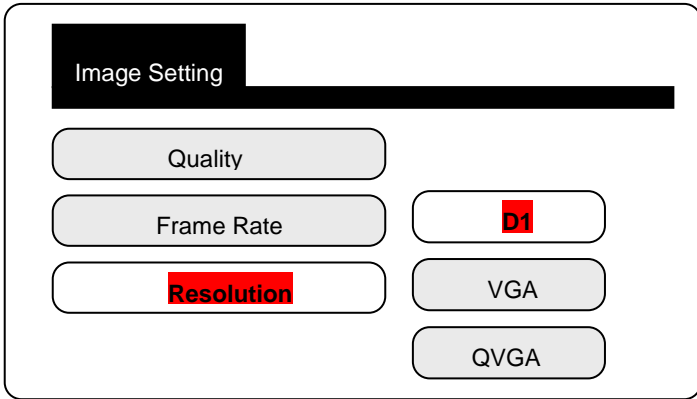
Resolution   VGA

QVGA

D1: 704×576
VGA: 640×576
QVGA: 320×288
Note: Lower the resolution, longer the possible total recording time

REC. Setting

Set Up

Image Setting

REC.Setting

Playback

System Setting

Exit

Press "MENU" enter in the main menu

Overwrite

REC.Setting

Overwrite   **Yes**
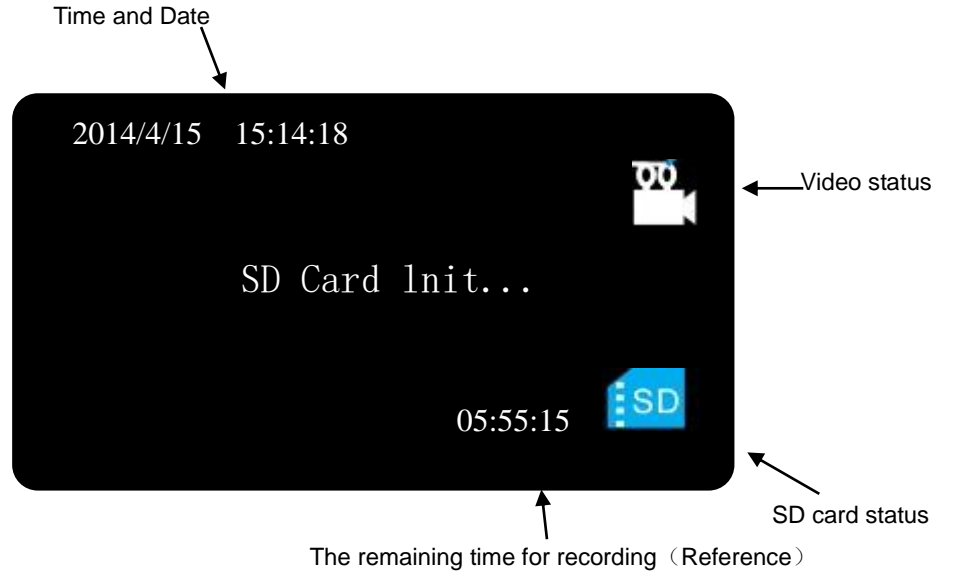
Section   No
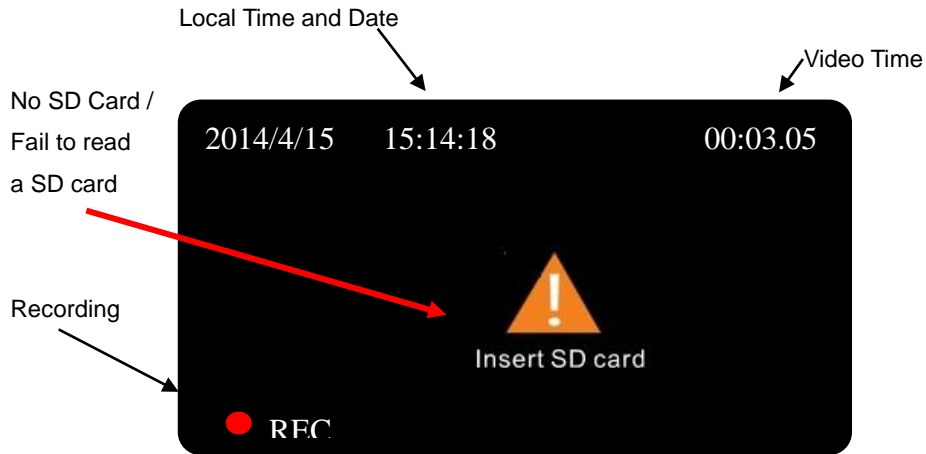
10
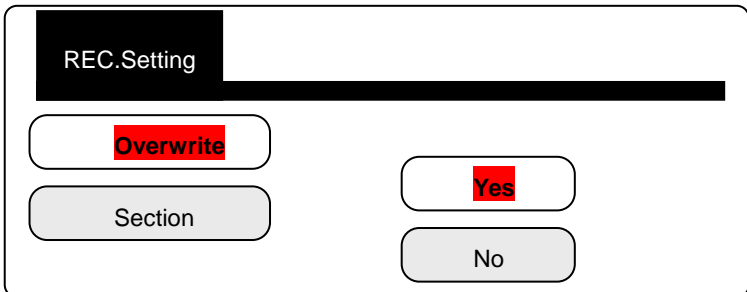
Operating Instruction

1. Turn the knob clockwise to turn on the LED lights and adjust the brightness
2. Adjust direction and angle of the monitor to view the images on different positions.
3. Stretch the second and third telescopic shaft to adjust the total length, do not forget to screw the knob tightly, otherwise they will retract. Pushing back the telescopic shaft when you want to inspect in a short length.
4. The camera flexible part can be bended to a suitable position for easy inspection and suitable for different viewing situations.
5. Using rotating joint to adjust the camera direction.
6. Pay attention to the power level indicator of the battery, the system will be automatically power off when power is too low. You can change to a fully charged spare battery.
7. Use the 12V power adaptor to charge battery. There is no power output during charging.
8. If you don't need to use DVR function, please shut off the DVR power to use less power .
9. Inset the SD card in right side up.
10. In standby mode, press "p/p" button, take a photo. The photos are saved automatically on the SD card.
11. In preview standby mode, press "OK" button, start to record video.
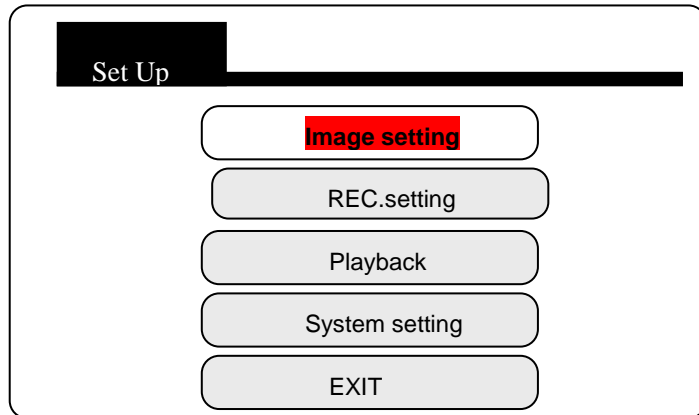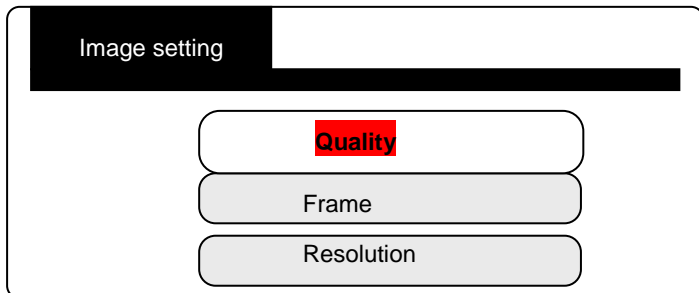
Icons on screen

Standby Model

Time and Date

2014/4/15   15:14:18

Video status

SD Card Init...

05:55:15   SD

SD card status

The remaining time for recording（Reference）

Recording Model

Local Time and Date

Video Time

No SD Card /
Fail to read
a SD card

2014/4/15   15:14:18   00:03.05

Insert SD card

Recording

● REC

DVR Setting

Image setting

Image quality setting

Set Up

Image setting

REC.setting

Playback

System setting

EXIT

Press "MENU" Button, enter the main Menu

Image setting

Quality

Frame

Resolution
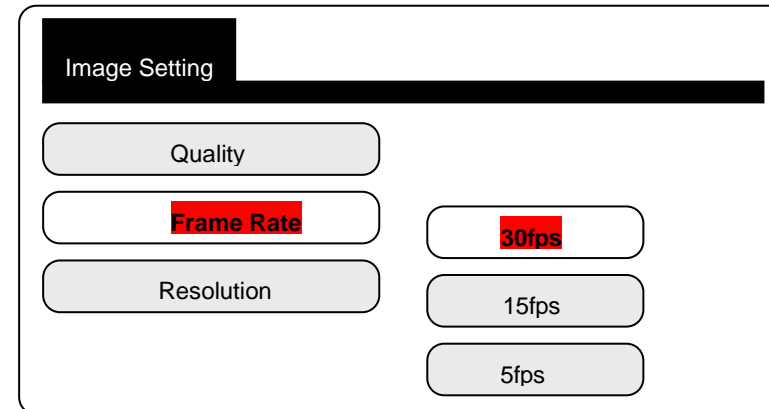
Image Setting

Quality

Frame Rate

H

M

L

H：high quality image

M：middle quality image

L：Low quality image

Note: The image quality is lower, the recording time is longer

Frame Rate Setting

Image Setting

Quality

Frame Rate

30fps

Resolution

15fps

5fps

30fps: very smooth image video

15fps: smooth (OK) video image

5fps: intermittent image

Note: Lower the frame rate, longer the total recording time

Resolution Setting

Vividia™ TVS-300DVR System parts list

PART NO.	DESCRIPTION	
1	Camera head and flexible part	1pcs
2	LCD monitor	1pcs
3	Telescopic pole	1pcs
4	Rotating joint	1pcs
5	Earphone	1pcs
6	8GB SD CARD	1pcs
7	Li-ion battery	2pcs
8	DVR control Box	1pcs
9	Charger adaptor	1pcs
10	User manual	1pcs

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