Operation Guide

2.4GHz Wireless SDR
Motion Detection Recording System
Model: 811BF/812BF
817BF/901BF

CONTENTS

* 811BF means GP-811T + GB7301
* 812BF means GP-812T + GB7301
* 817BF means GP-817T + GB7301
* 901BF means GP-901T + GB7301

1. Overview

The wireless SDR harddisk recorder is a general harddisk recorder launched for civil security market. Designed with such new technologies as wireless transmission, motion detection, and SD card recording. It is one of the most advanced harddisk recording systems on the market. Provided with such features as high integration, complete auxiliary products, ease of use, high security, and competitive price. It is an ideal choice for families, department stores, warehouses, parking lots, office building, and other places where the monitoring is required.

In general, the security monitoring system is expensive and has to be installed and operated by trained personnel. However, the wireless SDR harddisk recorder is easy to install and use, can be used once the power is connected, featuring a set of true DIY security monitoring equipment. It is the most suitable security equipment for civil use.

2. Features

- Wireless transmission to enhance monitoring security
- Ease to install and use. With high integration, complete auxiliary products
- Motion detection. Adopting highly inteligent technology, the recorder can automatically detects image change and start recording, which prevents invalid recording
- Harddisk recording with SD card. Supporting both AVI recording and JPEG shooting to different working environments application
- 4 channels optional to avoid short-distance
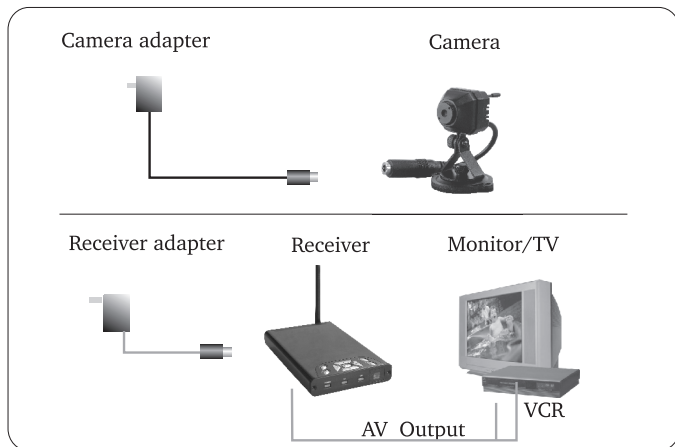- Up to 100m(330ft.) Transmission range in open space

3. Packing List

① ② ③ ④ ⑤ ⑥
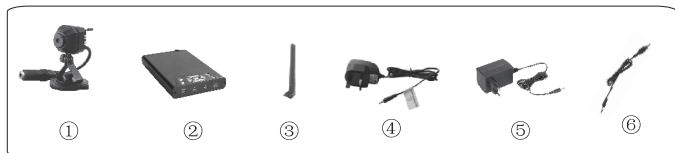
* Only one camera included in the packing list.

① 2.4GHz Wireless Camera × 1

② 2.4GHz Wireless Receiver × 1

③ Antenna for Receiver × 1

④ Adapter for Receiver × 1
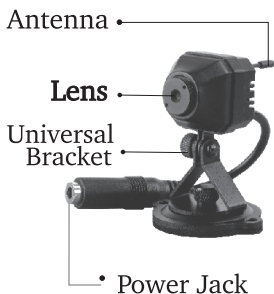
⑤ Adapter for Camera × 1

⑥ AV Cable × 1

Camera Series

GP-811T GP-812T

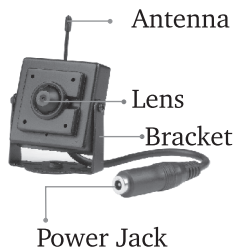GP-817T GP-901T

4. Connection Diagram

Camera adapter   Camera

Receiver adapter   Receiver   Monitor/TV

VCR

AV Output

5. Structure

5.1 Camera Sturcture

GP-811T

Antenna

Lens

Universal
Bracket

Power Jack

GP-901T

Antenna

Lens

Bracket

Power Jack

GP-812T

Antenna

Infrared Lights

Lens

Universal Bracket

Power Jack

GP-817T

Antenna

IR LED

Camera lens

Channel Switch

Universal Bracket

Power jack

5.2 Receiver Sturcture

Antenna

Up Button

Ok Button

Down Button

Left Button

Right Button

Menu Button

Channel Switch

Play Button

Record Button

Channel Indicator

Automatic Detection
/Recording Indicator

Power Indicator

Power Socket
Power ON/Off
SD Card Slot
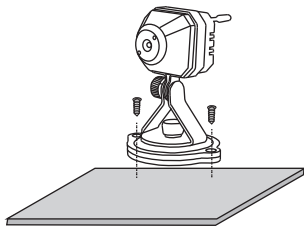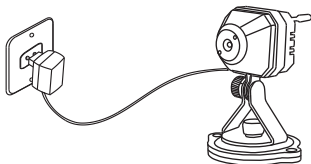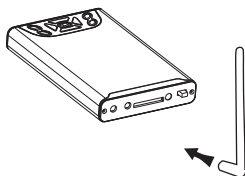AV Out

6. Installation

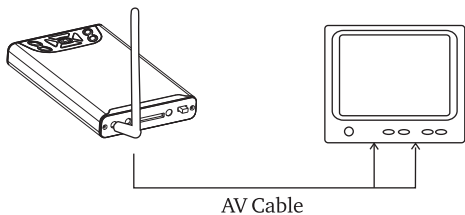1. Locate the camera to a specific position and then adjust it to a suitable angle.

2. Connect the adapter to the camera.

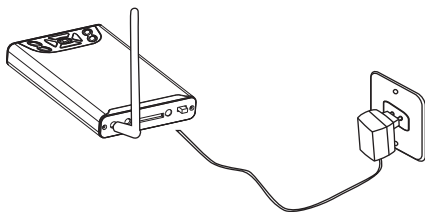3. Connect the antenna to the receiver.

4. Connect the receiver to a monitor/TV with AV cable.

AV Cable

5. Connect the adapter for receiver to the receiver.

6. Please insert SD Card to SD Card Slot of receiver.

Usable capacity:32M-2G
1G-2G recommended
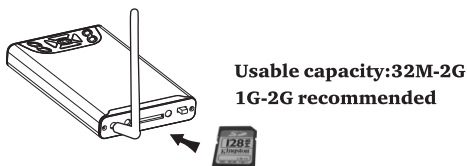
Must insert SD Card before Power on the receiver.
If the SD Card is inserted incorrectly or is not inserted, the monitor
will display no picture or black screen.

Notes :

* Make sure the protection switch on SD Card is turned on.
* Never touch the metal part of the SD Card with bare hands for static
  electricity of human body may cause permanent damage to the SD Card.
* Insert or pull out the SD Card only when the equipment is turned off.

7. Pull the power switch to ON position and the power indicator lights up..
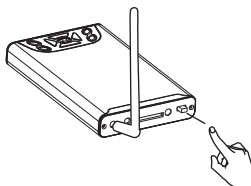
8. Power on the monitor/TV and select AV mode.

9. Set the channel of receiver same as that of camera by pressing the channel button continuously, and the pictures are displayed on the monitor/TV.
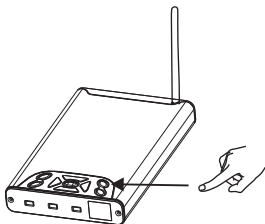
Press Channel Button continuously, the Channel Indicator lights up. If the Channel Indicator flashes once, the channel is channel 1. If the Channel Indicator flashes twice continuously, the channel is channel 2. If the Channel Indicator flashes three times continuously, the channel is channel 3. If the Channel Indicator flashes four times continuously, the channel is channel 4.
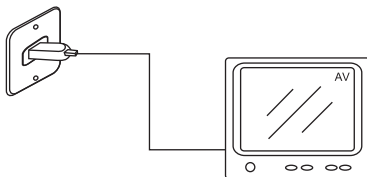
10. Rotate the lens by the focus tuner to adjust the focus for the better display effect .
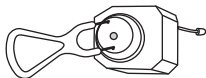
Note: The focus of the camera was set clearly as default.

11. Adjust the brightness, contrast and color of the monitor/TV for the perfect effect.

7. Receiver Operation

1. Menu Key Operation

You are recommended to press menu key to set before its first use.
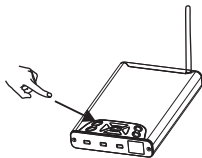
Monitor/AV displays picture as follows: Press <Left/Right> key to select and press OK key to enter setting.
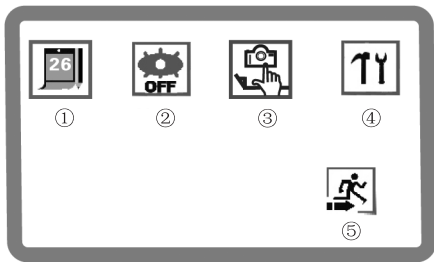
① **Date/Time set up:** Press the <Left/Right> and <Up/Down> keys to set the date and time of the equipment.

② **Motion Detect ON/OFF set up:** Press OK key to change the setting. If you choose ON , the receiver can automatic motion record or capture photo, if you choose OFF, the receiver is only monitoring status.

③ **Capture Format AV/Photo set up:** Press the OK key to change the setting. If you choose capture format AV, motion detection is only recording video, can not capture photos. If you choose capture format Photo, motion detection can only capture pictures,can not record video.

④ **Advanced setup:** Picture displays as follows, Press <Left/Right> key to select and press OK key to enter setting.
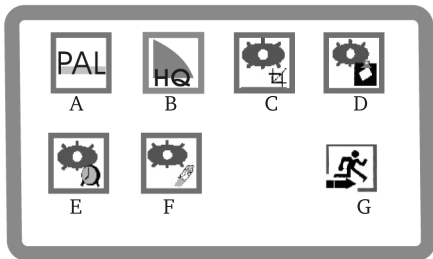
A. TV setup: Press OK key choose PAL or NTSC.

B. Quality setup: Press OK key to choose High or Low. Recommend to select High (high quality).

C. Motion Detect Area setup: Press OK key to enter the detection area modification window, and press the Left or Right key to modify the value. After pressing OK key, the system enters detection location modification windows.

D. Motion Detect Count setup: Press OK key select count 1 or 3 or 5 separability, which can capture 1 photo or 3 photos or 5 photos every interval time.

E. Motion Detect Interval setup: Press OK key select 1 or 3 or 5 second(s) separability, which can capture photos every 1 second or 3 seconds or 5 seconds.

F. Motion Detect sensitivity setup: Press Up or Down key to modify the value and press OK key to exit.

G: Exit: Press OK key to return.

⑤ **Exit:** Press OK key to return.

2. Monitoring /Motion Detection Mode

 4 icons displaying on the monitor/AV, There are SD Card, Motion Detection ON, Record/Shooting, date/time.

Press **Up** key: Enables or disables automatically Motion Detection.

Press **Down** key: Switches between shooting and recording mode.

Press **Record** key : Captures motion pictures or records motion video clip according to setup. Recording 5-10 seconds continuously, it returns to monitoring status. After 2-3 seconds, if motion detection is still running, it enters into record motion detection video again, and video save a new video file.

3. Play mode

Press **Play** key to play a video or pictures. Press **play** key again to enter the monitoring mode.

After entering to play mode, Press **Down** directly to play a latest video or picture.

After entering to play mode, Press **Left/Right** to select folder, and press **Down** to play.

After entering to play mode, Press **OK** key enter/exit the folder selection window, there are six-lattice mode every interface, Press L**eft/Right** key to select file with capturing video/photo date and time indication , press **Down** to play.

Press **Menu** key to delete when you select a file, there are 4 icons.

| Delete file | Delete all | Format | Exit |

Delete file: Delete a single picture or video.

Delete all: Delete all pictures and videos.

Format: Format SD Card.

Exit: Press to return.

SPECIFICATIONS

	Items	GP-811T	GP-901T
CAMERA	Imaging Sensor	CMOS	CCD
	Total Pixels	720×576(PAL) 720×480(NTSC)	512×582 P(PAL) 512×492 (NTSC)
	Transmission Frequency	ISM 2,400~2,483MHz	
	Transmission Power	2mW/FCC,10wm/CE	
	Minimum Illumination	0.3 Lux	5 Lux
	Modulation Type	FM	
	Bandwidth	18MHz	
	Power Supply	+8V$_{DC}$	+12V$_{DC}$
	Consumption Current(Max.)	160mA	120mA
	Dimensions(W x D x H)	24×25×24(mm)	36×26×45(mm)
	Weight（about)	14g	65g
RECEIVER	Antenna	50 ohm SMA	
	Intermediate Frequency	480MHz	
	Transmission Frequency	ISM 2,400~2,483MHz	
	Video Output Signal Level	1.1Vpp±0.2Vpp@75 ohm, S/N >38dM	
	Storage Media	SD Card	
	Storage Monitoring videos	3-6 days by 2G	
	Storage Monitoring pictures	15 days by 2G	
	SD Card Usable Capacity	32M-2G(1G~2G recommended)	
	Received Sensitivity	≤-85dBm	
	Consumption Current (Max.)	600mA	
	Unobstructed Effective Range(Min.)	100m	
	Dimensions(W×D×H)	80 ×131×18(mm)	
	Weight（About)	178g	
	Power Supply Voltage	5V$_{DC}$	
	Operating Temperature	-10℃~+50℃/+14℉~+122℉	
	Operating Humidity（Max.)	85%RH	

* Channel Frequency: CH1=2,414MHz; CH2=2,432MHz; CH3=2,450MHz;
　　　　　CH4=2,468MHz
* Actual transmission range may vary according to the weather, location,
  interference and building construction.
* All the specifications are subject to minor change without prior notice.

SPECIFICATIONS

	Items	GP-812T	GP-817T
CAMERA	Imaging Sensor	CMOS	
	Total Pixels	720x576(PAL); 720x480(NTSC)	
	Modulation Type	FM	
	Transmission Frequency	ISM 2,400~2,483MHz	
	Transmission Power	2mW/FCC; 10wm/CE	
	Night Vision range	7m	3m
	Bandwidth	18MHz	
	Power Supply	+8V$_{DC}$	
	Consumption Current (Max.)	175mA (IR OFF) 250mA(IR ON)	170mA
	Dimensions (W x D x H)	45×78×83(mm)	46×42×57(mm)
	Weight (about)	217 g	89g
RECEIVER	Antenna	50 ohm SMA	
	Intermediate Frequency	480MHz	
	Transmission Frequency	ISM 2,400~2,483MHz	
	Video Output Signal Level	1.1Vpp±0.2Vpp@75 ohm, S/N >38dM	
	Storage Media	SD Card	
	Storage Monitoring videos	3-6 days by 2G	
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* Channel Frequency: CH1=2,414MHz; CH2=2,432MHz; CH3=2,450MHz; CH4=2,468MHz
* Actual transmission range may vary according to the weather, location, interference and building construction.
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FCC information

This device complies with part15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference,

(2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CAUTIONS

- The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.
- Turn off the Camera/Receiver if the system is not in use.
- The adapter is used as the disconnect device from the mains. The adapter shall remain readily operable.
- The Camera/Receiver can only be completely disconnected from the mains by unplug the adapter.
- Do not cut the DC power cable of the apparatus to fit with another power source.
- Attention should be drawn to the environment aspects of battery disposal.

EU Environmental Protection

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.

The graphics included are subject to minor change without notice.