

## FCC INFORMATION

This device complies with part 15 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/Monitor 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/Monitor 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.
- Remove the batteries when cleaning the unit.
- Remove the batteries before storing the unit for a long time.
- When necessary, REPLACE ALL FOUR BATTERIES in this unit with new ones.
- Use only the size and type of battery specified.
- Be sure to install the battery with the correct polarity as indicated in the battery compartment.

### EU Environmental Protection

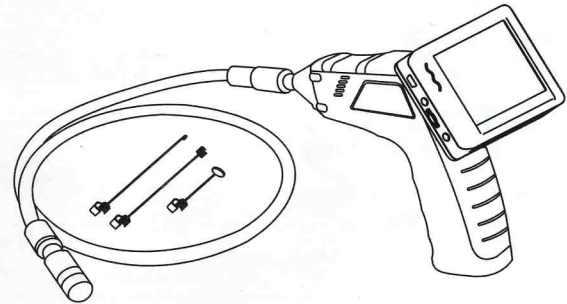
Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.



# User Manual

## Inspection Camera with recording LCD Monitor

Model No.: 8802AL



Version No.: 1.1

Please read this user Manual carefully before using this product!

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\* 8802AL means GB8802(camera) + GB7307(monitor)

# WELCOME

Thanks you for choosing our inspection video camera and recordable LCD monitor. Please read the User Manual carefully before using this product.

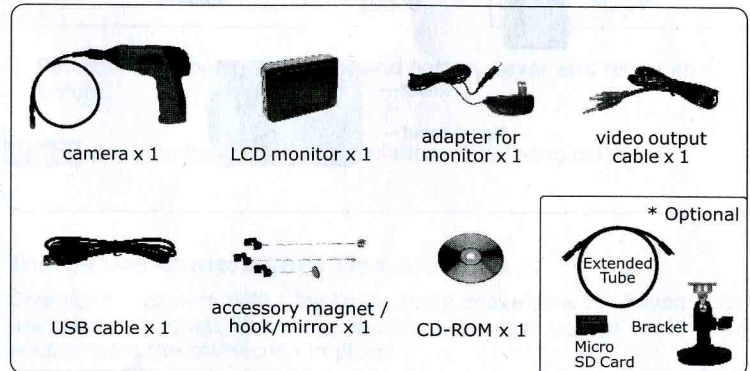
The product is designed as a remote inspection device. It can be used to look into tight spots and beam back real-time video to monitor and record video/take pictures.

Typical applications might include HVAC inspection, automotive inspection, cable routing, automotive/boat/aircraft inspection, etc.

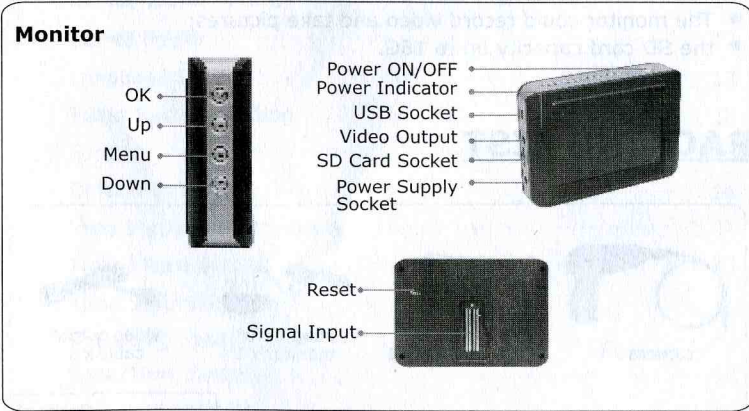
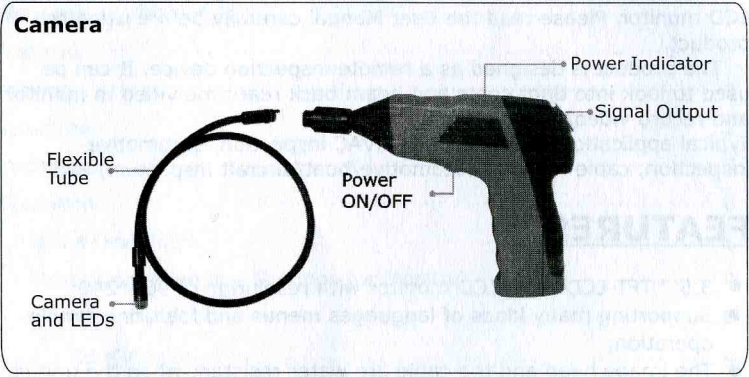
# FEATURES

- 3.5 " TFT-LCD palm LCD monitor with resolution of 960\*240;
- Supporting many kinds of languages menus and featuring simple operation;
- The image head and the cable are water resistant when the unit is fully assembled, but the monitor and camera is not;
- Wired and Wireless function Compatible;
- The monitor could record video and take pictures;
- the SD card capacity up to 16G.

# PACKING LIST



# STRUCTURE

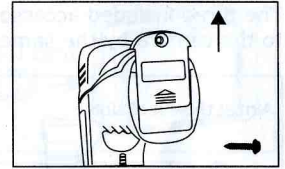
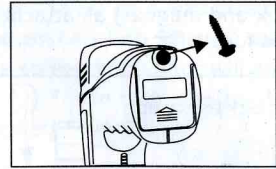


# INSTALLATION

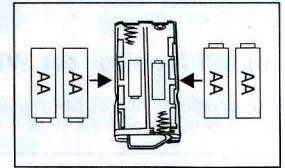
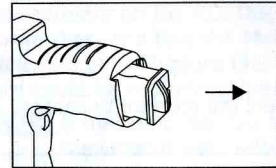
Please install the batteries, tube and insert the SD card first before using product, and choose the accessory according to actual situation. Steps of installation as following:

## Install Batteries

1. Using a screwdriver, remove screw and cover.



2. Remove battery compartment and insert four new AA batteries into the proper slots in the battery compartment. Proper battery orientation is indicated on the battery compartment.

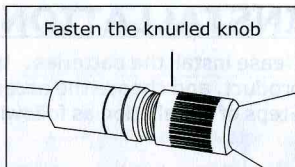
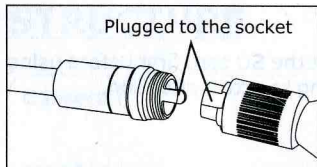


3. Reinstall battery compartment and battery cover and screw as before.

**NOTE!** Dry your hands before installation or replacing batteries.

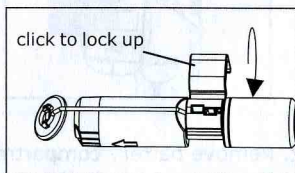
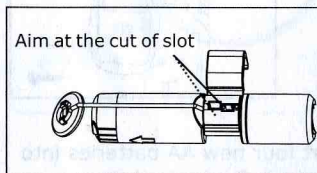
## Install the Camera with Flexible Tube

Connect the camera with tube to the body, make sure the keyed ends are properly aligned. Once they are aligned, finger tighten the knurled knob to hold the connection in place.



## Install Accessory

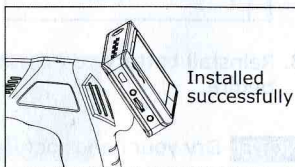
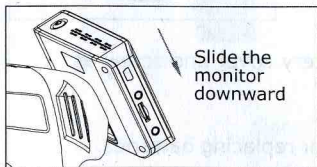
The three included accessories, (mirror, hook and magnet) all attached to the camera by the same way. To install as following:



Make sure the stem placed at side face from the arrow mark, and finger tighten to secure the accessories in place.

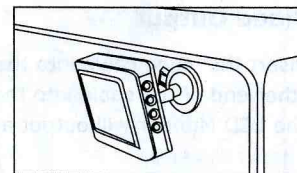
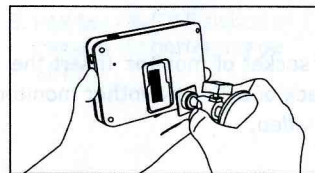
## Install Monitor for Wired Use

The product also supports wired use by connect the monitor to camera.



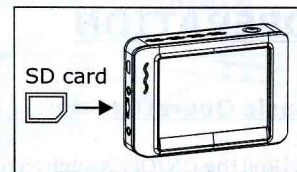
## Install the Bracket of Monitor

The bracket with a magnet, it can absorption on any iron objects. Install it to monitor as following diagram:



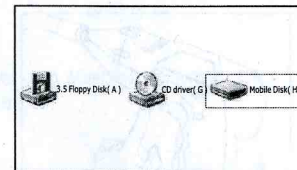
## Insert SD Card

After the SD card was inserted successfully into SD card socket, the screen of monitor will appear “ □ ” icon ; otherwise, it will appear “ ⊗ ” icon.



## Connect USB Cable

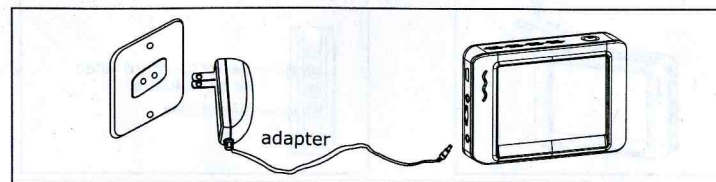
Use the USB cable to connect the monitor to a PC. The USB online icon appears on the PC. Open **My Computer**, and find the **Mobile Disk**, the video/picture files in SD card could be copied/cut/palyback .



**NOTE!** If the computer can not play the video files normally, please install the video player software in the CD-ROM.

## Connect Monitor Power

Connect the adapter to monitor, the power indicator will lights on red or the battery capacity icon on LCD of monitor will twinkle which indicates being charging, and will turn off after a full charge:



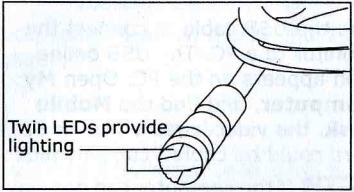
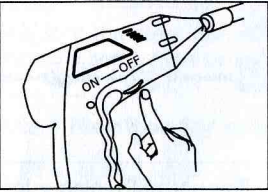
## Video Output



Insert the video cable into the VIDEO OUT socket of monitor. Insert the other end of the cable into the VIDEO IN jack of a TV or another monitor. The LCD Monitor will output a high quality video.

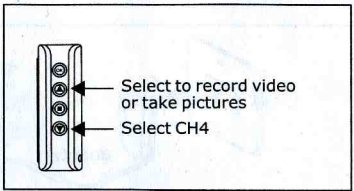
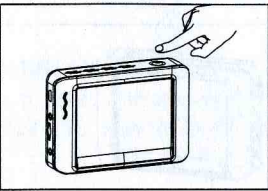
## OPERATION

### Basic Operation

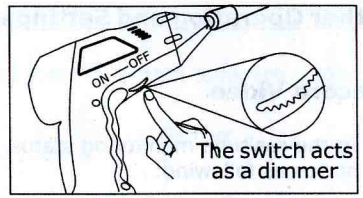
1. Roll the ON/OFF switch to turn ON the camera, and the power indicator will light up, The switch then acts as a dimmer for the twin LEDs that surround the camera on the imager head and provide lighting.



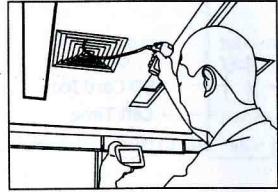
2. Press and hold on the Power ON/OFF button of monitor for 2 seconds, and power indicator will be green, then press  button to select the **CH4 (channel 4)** and the picture will display on LCD of monitor and press  button to select recording video or take pictures status:



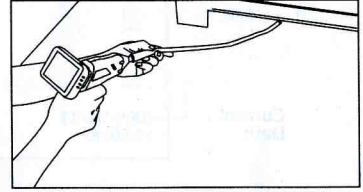
3. Roll the ON/OFF switch of camera for better image effect.



4. When in use, the tube should easily maneuver itself into position going forward.



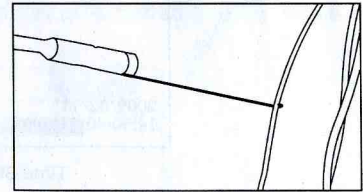
wireless



wired

**TIP!** The flexible tube can be bent into a certain shape. This may help you explore the tube into narrow areas.

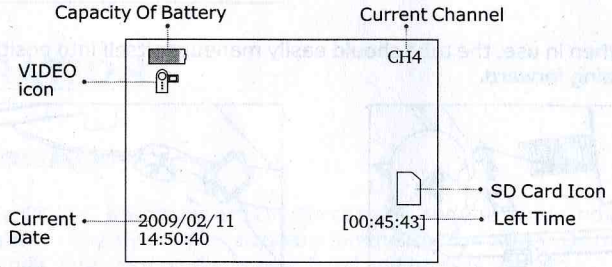
5. The accessories of Handhold Inspection Camera can be used to retrieve small items like dropped rings or screws.



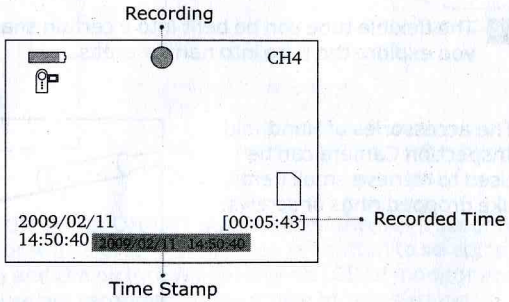
**Other Operation and Settings for Monitor**

**Record Video**

1. In the realtime monitoring status, press **⏏** button to enter VIDEO status as following:



2. Press OK button to record as following:



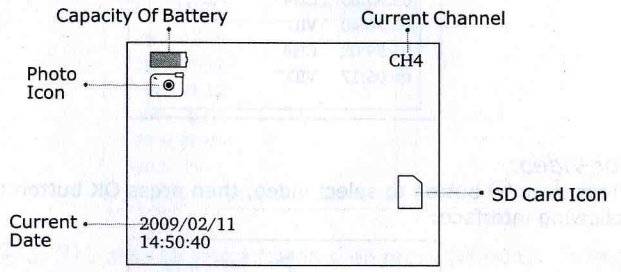
3. Press OK button again to stop recording.

**Notice!**

- \* The Video will be automatically saved as a file every 30 minutes.
- \* SD card is full when the SD card icon change to "F".

**Take photo**

1. In the realtime monitoring status, press **⏏** button to switch to photo taking status as following:



2. Press OK button to take photo.

**Notice!**

when the SD card icon change to "F" which means SD card is full.

**Play Video/Picture**

1. In the realtime monitoring status, press **⏏** button to enter into the following interface:

PLAYBACK	0001/0007
2009-01-10	
2009-01-11	
2009-01-12	
2009-02-05	
2009-02-09	
2009-02-11	

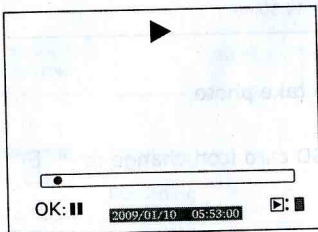
2. Press **⏏** or **⏏** button to select folder, then press OK button to enter into it:

2009-01-10	0002/0005
05:53:00	CH4
05:53:00	CH4"
05:53:03	CH4
05:56:40	VID
05:59:03	CH4"
06:05:17	VID"

mean video file  
mean picture file

### 3. For Video:

Press ▲ or ▼ button to select video, then press OK button to play as following interface:



Pause: press OK button in playing status to pause;  
press again to resume;  
Fast Forward: press ▲ button in playing status;  
Fast Backward: press ▼ button in playing status;  
Stop/Exit: press ⏹ button.

### For Picture:

Press ▲ or ▼ button to select picture, then press OK button to display, press OK button again to exit.

## Delete Video/Picture

1. In the realtime monitoring status, press ⏻ button once to enter into the following interface :

PLAYBACK	0001/0007
2009-01-10	
2009-01-11	
2009-01-12	
2009-02-05	
2009-02-09	
2009-02-11	

2. Press ▲ or ▼ button to select folder, then press OK button to enter into the following interface:

2009-01-10	0002/0005
05:53:00	CH4"
05:53:00	CH4
05:53:03	CH4
05:56:40	VID
05:59:03	CH4"
06:05:17	VID"

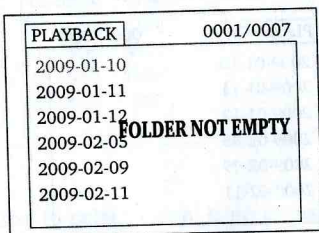
3. Press ▲ or ▼ button to select file, press and hold on ⏻ button for 2 seconds will enter the following interface:

2009-01-10	0002/0005
<b>DELETE CURRENT FILE?</b>	
05:53:03	CH5 <input type="radio"/> NO
05:56:40	CH5 <input type="radio"/> YES
05:59:03	CH5
06:05:17	CH5

4. Press ▲ or ▼ button to select "YES", then press OK button will be deleted has been selected by the file; "NO" will be exit.

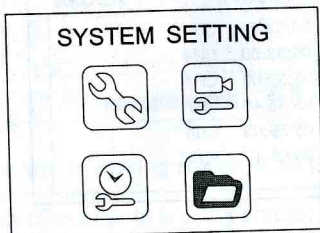
## Delete Folder

Delete folder is same as delete file ,but make sure the folder is empty, otherwise not delete it and appear a warning interface:



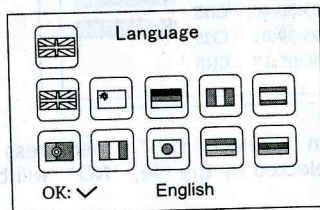
## How to enter the Setting Mode

In the realtime monitoring status, press and hold on  $\ominus$  button for about 1~2 seconds to enter into the setting interface as follows:



## Language Setting

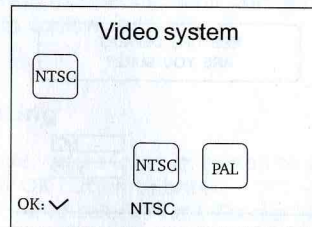
1. In the setting mode, press  $\uparrow$  or  $\downarrow$  button to select "SYSTEM SETTING", press OK button to enter;
2. Press  $\uparrow$  or  $\downarrow$  button to select "Language", press the OK button to enter into the following interface:



3. Press  $\uparrow$  or  $\downarrow$  button to select a suitable language;
4. Press OK button to confirm and exit.

## Video System Setting

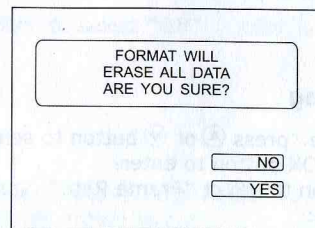
1. In the setting mode, press  $\uparrow$  or  $\downarrow$  button to select "SYSTEM SETTING", press OK button to enter;
2. Press  $\uparrow$  or  $\downarrow$  button to select "Video System", press OK button to enter into the following interface:



3. Press  $\uparrow$  or  $\downarrow$  button to select right type, press OK button to confirm and exit.

## Format

1. In the setting mode, press  $\uparrow$  or  $\downarrow$  button to select "SYSTEM SETTING", press OK button to enter;
2. Press  $\uparrow$  or  $\downarrow$  button to select "Format", press OK button to enter into the following interface;

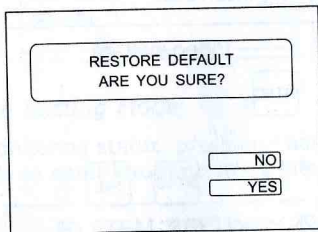




3. Press ▲ or ▼ button to select “YES”, then press OK button will erase all data; “NO” will be exit.

## Default Setup

1. In the setting mode, press ▲ or ▼ button to select “SYSTEM SETTING”, press OK button to enter;
2. Press ▲ or ▼ button to select “Default Setup”, press OK button to enter into the following interface:



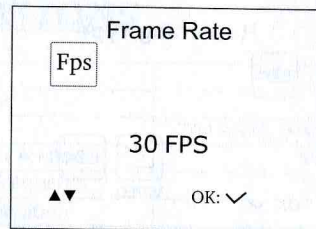
3. Press ▲ or ▼ button to select “YES”, then press OK button will restore default; “NO” will be exit.

## View Version Information

1. In the setting mode, press ▲ or ▼ button to select “SYSTEM SETTING”, then press OK button to enter;
2. Press ▲ or ▼ button to select “Version”, press OK button to enter and view the version of product.

## Frame Rate Setting

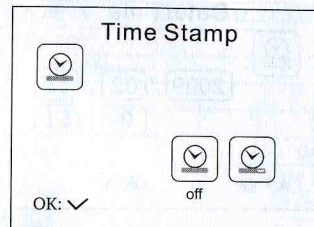
1. In the setting mode, press ▲ or ▼ button to select “RECORDER SETTING”, press OK button to enter;
2. Press ▲ or ▼ button to select “Frame Rate”, press OK button to enter into interface:



3. Press ▲ or ▼ button to select suitable frame rate;
4. Press OK button to confirm and exit.

## Time Stamp Setting

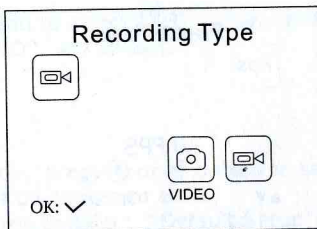
1. In the setting mode, press ▲ or ▼ button to select “RECORDER SETTING”, press OK button to enter;
2. Press ▲ or ▼ button to select “Time Stamp”, press OK button to enter into the following interface:



3. Press ▲ or ▼ button to select “Off”、“On”, press OK button to confirm and exit.

## Recording Type

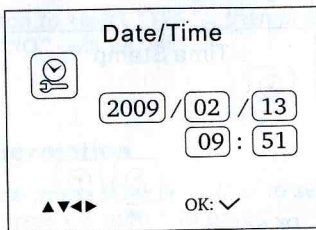
1. In the setting mode, press ▲ or ▼ button to select “RECORDER SETTING”, press OK button to enter;
2. Press ▲ or ▼ button to select “Recording Type”, press OK button to enter into the following interface:



3. Press ▲ or ▼ button to select “STILL”、 “VIDEO”， press OK button to confirm and exit.

## Date/Time Setting

1. In the setting mode, press ▲ or ▼ button to select “Date/Time”， press OK button to enter into the following interface:



2. Press OK button to select Date or Time; press ▲ or ▼ button to modify; press Ⓚ button to confirm and exit.

## EVENT PLAYBACK

1. In the setting mode, press ▲ or ▼ button to select “EVENT PLAYBACK”， press OK button to enter;  
 2. Other operation see “Play Video/Picture”、 “Delete Video/Picture”、 “Delete Folder” section.

## SPECIFICATIONS

camera	Mode No.	GB8802
	Imaging Sensor	CMOS
	Total Pixels	704×576 (PAL); 712×486(NTSC)
	Horizontal View Angle	50 degree
	Transmission Frequency	2468MHz
	Minimum Illumination	0 Lux
	Modulation Type	FM
	Bandwidth	18MHz
	Power Supply	4 x AA batteries
	Unobstructed Effective Range	10m
	Waterproof Capacity	IP67(only for imager head)
	Dimensions(W×D×H)	186 x 145 x 41(mm) (Exclude Flexible Tube)
Weight(about)	530g	
monitor	Mode No.	GB7307
	LCD Screen Type	3.5" TFT-LCD
	Effective Pixels	320(R.G.B.) × 240
	Video System	PAL/NTSC
	Transmission Frequency	2414MHz,2432MHz,2450MHz,2468MHz
	Exterior Supply Voltage	5V <sub>DC</sub>
	Consumption Current (Max.)	500mA
	Charge Time	3 hours
	Work Time	2 hours
	Picture/Video Pixels	640 x 480
	Video Size	27M byte/minute
	Frame Rate	30 frame/second
	Video Output Level	0.9-1.3V <sub>p-p</sub> @75ohm
	Receiving Sensitivity	≤ -85dBm
	Dimensions(W x D x H)	100 x 70 x 25(mm)
Weight(About)	140g	
Operating Temperature	-10°C~+50°C/+14°F~+122°F	
Operating Humidity	15%~85%RH	

- \* 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.