EXPLORER DELUXE ™

INSPECTION TOOL
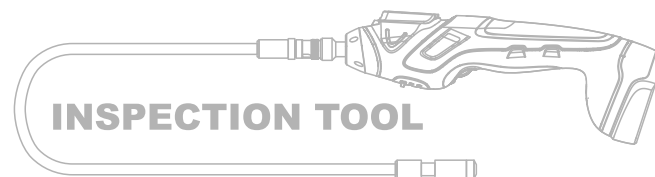
EU Environmental Protection

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.

22 PAP

EXPLORER DELUXE ™

USER MANUAL

Wireless Inspection Camera with Recordable Monitor

INSPECTION TOOL

CONTENTS

※ 8842AU = GB8842(camera) + GB7316(monitor); 8843AU = GB8843(camera) + GB7316(monitor)
8846AU = GB8846(camera) + GB7316(monitor); 8847AU = GB8847(camera) + GB7316(monitor)
8849AU = GB8849(camera) + GB7316(monitor)

GENERAL SAFETY INFORMATION

WARNING! Read and understand all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or serious personal injury.

SAVE THESE INSTRUCTIONS!

※ Prevent object and liquid entry. Never spill liquid of any kind on the video display unit. Liquid increases the risk of electrical shock and damage to the product.

※ The unit is not shock-resistant. Do not use Explorer Standard as a hammer and avoid high impact resultant from things such as dropping the unit from height

※ Do not immerse camera handle or monitor in water. Avoid moisture, and store product in a dry place. Such measures reduce the risk of electric shock and damage. **The lens and the tube are water resistant when the unit is fully assembled, but the monitor and handle are not.**

※ Do not use the camera if condensation forms inside the lens. Let the water evaporate before using again.

※ Turn off the system if it is not in use.

※ This product can only be completely disconnected for from its power source by unplugging the power adapter.

※ Do not cut the DC power cable of provided with this product to fit with another power source.

※ Attention should be given to the environmental 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 (4) BATTERIES in this unit with new ones, not one (1) or two (2) batteries at a time.

※ 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.

※ Properly dispose of batteries. Exposure to high temperatures can cause batteries to explode, so do not dispose of in a fire. Place tape over the terminals to prevent direct contact with other objects.

※ Some countries have regulations concerning battery disposal. Please follow all applicable regulations.

WELCOME

Congratulations on your purchase of our inspection video camera with recordable color LCD monitor, the EXPLORER DELUXE. Please read the user manual carefully before using this product. These products are designed as a remote inspection device, capable of recording video/taking pictures. Appropriate for use in surveying pipes or other hard-to-reach places, equipment or furnishing installation, car repair, etc. Features include waterproof LED lens, real-time recording, and micro SD card storage.

FEATURES

- Allows for easy surveying of small, hard-to-reach places;
- Mini water-proof camera with 1m (3ft.) flexible extended tube;
- Increase visibility with 3×zoom capability;
- Manufactured and tested to IP67 waterproof standard;
- 3.5" TFT-LCD detachable/mountable monitor, built-in rechargeable Li-battery;
- Video recording capability, supports up to 32GB micro SD card;
- Adjustable brightness on lens-mounted LED light;
- Lightweight, handheld design, flexible and convenient to use.

PACKING LIST

Flexible Tube with Lens x 1

Handle x 1

LCD Monitor x 1

Power Adapter x 1

(Optional)
Extension Tube
Micro SD Card

17mm Camera — for 8842AU
9mm Camera — for 8843AU
4.5mm Camera — for 8847AU
5.5mm Camera — for 8849AU
17mm Side Camera — for 8846AU

Only for 8842AU

Hook x 1   Magnet x 1   Mirror x 1

Only for 8843AU

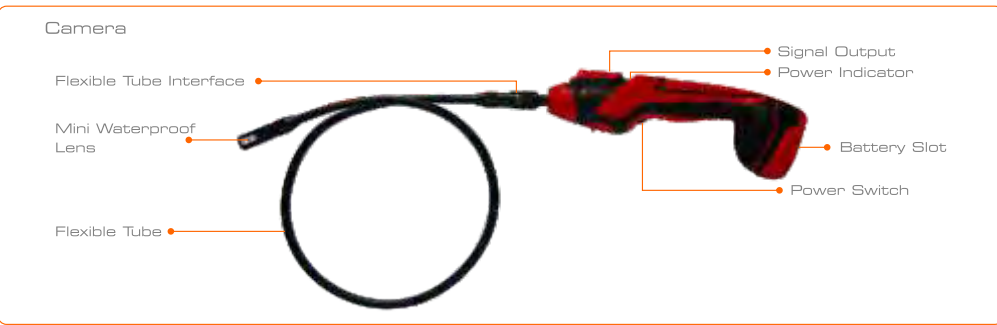Hook x 1   Magnet x 1   Mirror x 1   Rubber ring x 1

Note: 8842AU=GB8842+GB7316; 8843AU=GB8843+GB7316; 8846AU=GB8846+GB7316
8847AU=GB8847+GB7316; 8849AU=GB8849+GB7316

STRUCTURE

Camera

- Flexible Tube Interface
- Mini Waterproof Lens
- Flexible Tube
- Signal Output
- Power Indicator
- Battery Slot
- Power Switch

Monitor

- Delete file
- zoom in picture
- Power Switch
- Play back
- Record video
- Take photo
- Color TFT-LCD Monitor
- Menu
- Left OK
- Right
- Micro SD card socket
- Power supply socket
- Reset
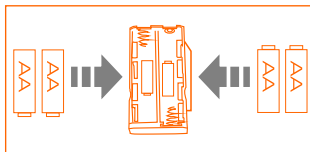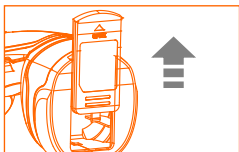- Fixed socket
- Signal Input

◼◼◼ INSTALLATION

To Install Batteries (Dry your hands before installation or replacing batteries.)
1. Remove the battery cover as illustrated below:

2. Remove battery compartment and insert four (4) AA batteries into their appropriate slots, with proper orientation, as indicated on the battery compartment.
3. Reinstall battery compartment and replace battery cover.

### To Attach Flexible Tube with Handle

To connect the flexible tube camera with control handle, first make sure that the keyed end of the tube is aligned with the slot in the handle, then use slight force to push them together. Once properly aligned, twist the treaded knob clockwise until the connection is securely in place.

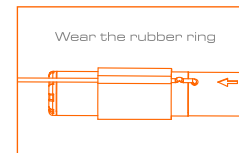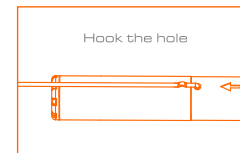Keyed end plugs into socket

Fasten the treaded knob
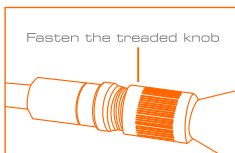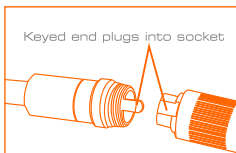
To Install Accessories

The three (3) included accessories (mirror, hook and magnet) are all attached to the camera in the same way as illustrated below:

For 8842AU

For 8843AU

Aim at the cut of slot

Click to lock up

Hook the hole

Wear the rubber ring
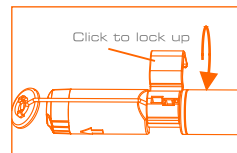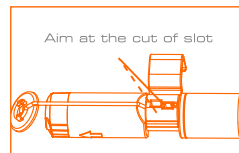
For 8842AU: to prepare accessory for installation, push down on stem-side of black interface while pulling away from adjacent side. This will open the base of the accessory. Next, align inside of stem-side to either treaded surface at the base of camera head. Tighten to secure the accessory in place.

To Install Monitor for Wired Use

EXPLORER DELUXE supports wired use by connecting the monitor to the camera handle.

Slide the monitor

Installed successfully
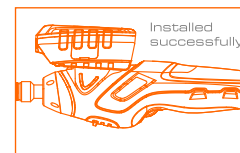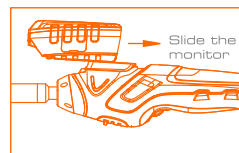
To Install Extension Tube

To connect the extension tube, first align the keyed end with the slot in the handle. Use slight force to push them together. Once properly aligned, twist the treaded knob clockwise until the connection is securely in place. Repeat this process to connect the other end of extension tube to flexible camera tube.

To Insert SD Card

After SD card is inserted into SD card slot successfully, an SD card ▦ icon will appear on the LCD screen; otherwise, the 'no SD card' ⊠ icon will show.


SD card
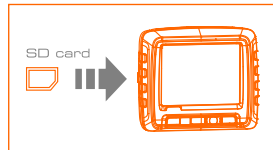
To Connect Monitor Power

Connect the monitor to an appropriate (100-240V ~ 50/60Hz) power source with the provided adapter to charge and the charging icon ▮▮▯ will flash on the LCD screen. Turned off, the charge without any prompt, but the monitor is charging.


power source
adapter
monitor
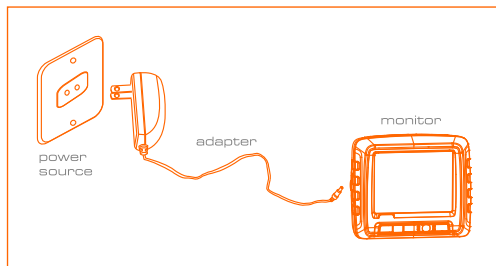
▮▮▮ OPERATION

Basic Operation

1. As you roll the power switch to turn on the camera, the power indicator on the camera handle will light. The rolling switch then acts as a dimmer for the twin LEDs that surround the camera on the end of the flexible tube.
2. Press and hold the ⏻ button on the top of the monitor for 2 seconds or until the picture from the lens is displayed on the monitor.

Twin LEDs provide lighting
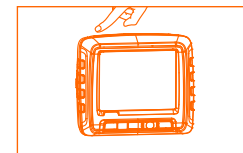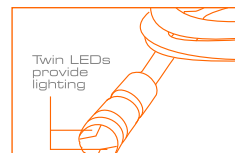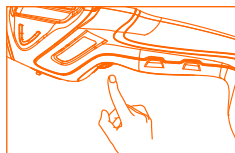
3. You can be real-time detection, recording or taking pictures, and other set operations. Only for 8846AU: The lens and the detection of the best distance is 6 cm, If too close or too far can cause objects not clear.

Lens
Detection (Pipe Wall)
6 cm
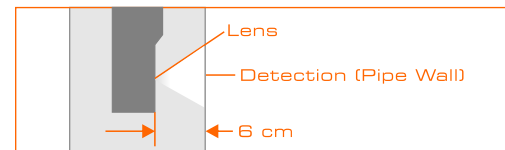
Note:
* When in use, the tube should easily maneuver itself into position. Do not apply excessive force.

TIP!
* The flexible tube can be bent into numerous shapes that may help you explore areas you otherwise thought were impossible to see.
* The accessories included with EXPLORER DELUXE can be used to retrieve small items like dropped rings or screws. (only for 8842AU, 8843AU)

Recording Video

1. In real-time monitoring mode, press the 📷 button on top of the monitor to begin recording.
2. Press again to stop recording.

* The video will be automatically saved as an individual file every 30 minutes.
* In real-time monitoring mode only, Video recording can be conducted by 📷 button.
* "Memory Full!" appears on the LCD screen indicates that the SD card memory is full.
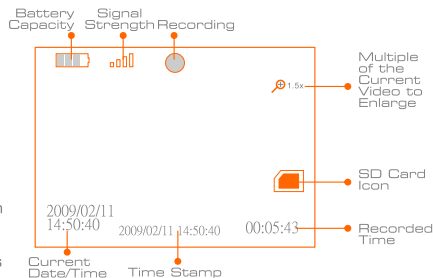
Taking photos

In real-time monitoring mode, press the 📷 button to take a photo.

* In real-time monitoring mode only, taking photos can be conducted by 📷 button.
* "Memory Full!" appears on the LCD screen indicates that the SD card memory is full.

Playback Video/Picture

1. In real-time monitoring mode, press the ▶ button to toggle to the video/picture folder.
2. Press the ◀ and ▶ buttons on bottom of the monitor to select your desired folder, and then press the OK button to toggle to the right interface.

Battery Capacity   Signal Strength   Recording

Multiple of the Current Video to Enlarge

1.5x

SD Card Icon

2009/02/11 14:50:40

2009/02/11 14:50:40   00:05:43

Current Date/Time   Time Stamp   Recorded Time

20110127	0001/0006
15:53:00	CH2
15:53:00	CH2
15:53:03	CH2
15:56:40	CH2
15:59:03	CH2
16:05:17	CH2

Indicates video file

Indicates picture file

* Mark 📹 next to a file name indicates that the file is a video. mark 🖼 next to a file indicates that the file is a picture.

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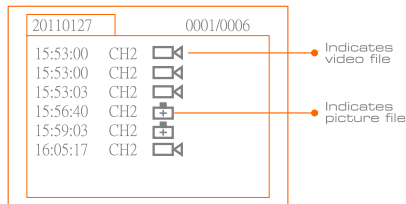
3. **for playback video:**

Press the ◀ or ▶ button to select your desired video, and then press OK button to playback.
Pause: press the OK button once to pause, press again to resume play;
Fast Forward: press and hold on the ▶ button for about 2 seconds;
Rewind: press and hold on the ◀ button for about 2 seconds;
[In the fast-forward or rewind mode, press the OK button to return to normal play mode.]
Stop/Exit: press the MENU button.

for view pictures:

Press the ◀ or ▶ button to select your desired video, press OK button to view and press again to exit.
* In the real-time monitoring mode only, playback can be conducted by ▶ button.

00:00:04 ▶▶   ▶   ◀◀ 00:03:50

2010/04/27   15:35:23
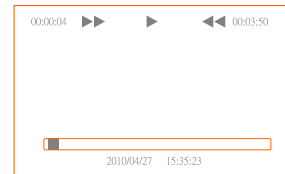
Deleting Video/Picture

1. In real-time monitoring mode, press the ▶ button to toggle to the video/picture folder.
2. Press the ◀ or ▶ button to select your desired folder, and then press OK button.
3. Press the ◀ or ▶ button to select your desired file, and then press 🗑 button on the top of the monitor.
4. Press the ◀ or ▶ button to toggle between ❌ and ✅ , that is, to cancel or delete. Once you have highlighted your desired selection, press the OK button.
* In real-time monitoring mode only, deleting video/picture can be conducted by 🗑 button.

20110127	0001/0006
15:53:00 CH2	📹
15:53:00 CH2	📹
15:53:03 CH2	📹
15:56:40 CH2	🖼
15:59:03 CH2	🖼
16:05:17 CH2	📹
🗑 ?	❌ ✅
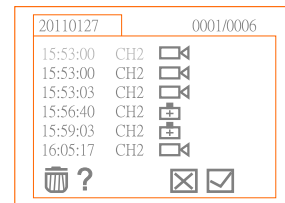
Deleting Folder

Deleting a folder is done in the same way as deleting a single file.

PLAYBACK	0001/0002
2010-04-26	📁
2010-04-26	📁
🗑 ?	❌ ✅
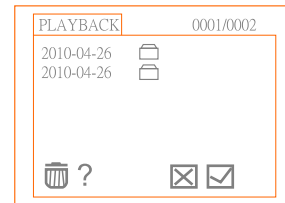
How to enter the Setting Mode

In real-time monitoring mode, press the MENU button.

SYSTEM SETTING

Language Setting

1. In the setting mode, press the ◀ or ▶ button to select 'SYSTEM SETTING', and then press OK button.
2. Press the ◀ or ▶ button to select 'Language', and then press OK button, the following interface will appear:
3. Press the ◀ or ▶ button to select your desired language.
4. Press OK button to confirm and exit.

Language

English   ◀ OK ▶
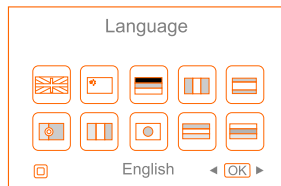
Formating

1. In the setting mode, press the ◀ or ▶ button to select 'SYSTEM SETTING', and then press OK button.
2. Press the ◀ or ▶ button to select 'Format', and then press OK button.
3. Press the ◀ or ▶ button to toggle between YES and NO, that is, to format or cancel. Once you have highlighted your desired selection, press the OK button.

Default Setup

1. In the setting mode, press the ◀ or ▶ button to select 'SYSTEM SETTING', and then press OK button.
2. Press the ◀ or ▶ button to select 'Default Setup' and then press OK button.
3. Press the ◀ or ▶ button to toggle between YES and NO, that is to restore default or cancel. Once you have highlighted your desired selection, press the OK button.
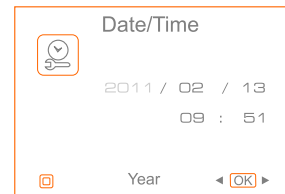
View Version Information

1. In the setting mode, press the ◀ or ▶ button to select 'SYSTEM SETTING', and then press OK button.
2. Press the ◀ or ▶ button to select 'Version' and then press OK button. You will now be able to view the version details of your product.

Date/Time Setting

1. In the setting mode, press the ◀ or ▶ button to select 'Date/Time' and then press OK button, The right interface will appear:
2. Press OK button to select Date or Time;
   Press the ◀ or ▶ button to adjust selection;
   Press the MENU button to confirm and exit.

Date/Time

2011 / 02 / 13
09 : 51

Year   ◀ OK ▶

Frame Rate Setting

1. In the setting mode, press the ◀ or ▶ button to select 'RECORDER SETTING', and then press OK button.
2. Press the ◀ or ▶ button to select 'Frame Rate' and then press OK button.
3. Press the ◀ or ▶ button to toggle between different frame rates. Once your desired rate is selected, press OK button to confirm and exit.

Time Stamp Setting

1. In the setting mode, press the ◀ or ▶ button to select 'RECORDER SETTING', and then press OK button.
2. Press the ◀ or ▶ button to select 'Time Stamp' and then press OK button.
3. Press the ◀ and ▶ buttons to toggle between On and Off. Once your desired selection is made, press OK button to confirm and exit.

Event Playback

1. In the setting mode, press the ◀ or ▶ button to select 'EVENT PLAYBACK', and then press OK button.
2. Refer to user manual instructions on Playback of Video/Picture, Deleting Video/Picture, and Deleting Folder for guidance.

Model No.	6642AU	6643AU	6646AU	6647AU	6649AU
Imaging Sensor	CMOS				
Total Pixels	704 x 576 (PAL) 712 x 486(NTSC)	640 x 480 (PAL) 640 x 480 (NTSC)	640 x 480	320 x 240	720 x 525 (NTSC) 720 x 625 (PAL)
Horizontal Viewing Angle	50°	36°	35°	83°	60°
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 (for lens/tube only)				
Tube Diameter	17mm	9mm	17mm	4.5mm	5.5mm
Dimensions (W x D x H)	260 x 108 x 71(mm) (Excluding Flexible Tube)				
Approx. Weight	540g	476g	538g	288g	366g
LCD Screen Type	3.5" TFT-LCD				
Effective Pixels	320(R.G.B) x 240				
Video System	PAL/NTSC				
RECEIVER FREQUENCY	2468MHz				
Exterior Supply Voltage	5VDC				
Consumption Current (Max.)	500mA				
Charging Time	2.5 hours				
Working Time	2 hours				
Picture/Video Pixels	640 x 480				
Video Format	.AVI				
Picture Format	.JPG				
Frame Rate	30 frame/second				
Receiving Sensitivity	≤-85dBm				
Dimensions (W x D x H)	108 x 66 x 37 (mm)				
Approx. Weight	232g				
Operating Temperature	-10°C~50°C/14°F~122°F				
Operating Humidity (Max.)	15~85%RH				

(Camera) — rows from Imaging Sensor through Approx. Weight
(Monitor) — rows from LCD Screen Type through Operating Humidity

* Actual transmission range of wireless monitoring may vary according to the weather, location, interference or building construction.
* All specifications are subject to minor change without prior notice.

Problem	Possible Causes	Likely Solutions
Tool will not start	1. monitor not charged. 2. batteries need charging.	1. charge monitor 2. replace batteries in control handle 3. press the reset button to start
Monitor will not charge	1. adapter cable not attached properly 2. adapter not connected to power	1. make sure adapter cable is connected between monitor and adapter. 2. make sure adapter is securely plugged into wall socket.
Image too dark or light	1. LEDs near camera need adjustment 2. monitor display needs adjustment	1. use dial on control handle to adjust brightness of LEDs. 2. use contrast and brightness buttons on monitor to adjust image.

⚠️ Follow all safety precautions whenever diagnosing or servicing the tool. Disconnect power supply before service.

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.

The graphics included in this user manual are subject to minor change without notice.