Side View
Rigid Inspection Camera

INSPECTION TOOL

Model: 4908AL

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.

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PAP

USER MANUAL

Side View
Rigid Inspection Camera

INSPECTION TOOL

Model: 4908AL

Version 1.0
Please read this user manual carefully before using this product.
Failure to understand operation procedures may result in injury.

CONTENTS

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 this camera 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 from its power source by unplugging the power adapter.
※ Do not cut the DC power cable off provided with this product to fit with another power source.
※ Use power adapters provided by vender only.

WELCOME

Thank you for purchasing our side view Rigid Inspection Camera. This product is specially designed for cavity wall inspection, wall tie and dry rot inspection, inspection of spaces under floors, above ceilings and behind panels and ducts, and many more where a rigid side view endoscope is required.

FEATURES

● 2.4Ghz wireless transmission between camera and monitor
● Mini stainless steel insertion tube, dia. 9mm
● Insertion tube length 300mm
● Side view camera head, 380TVL
● 2 high intensity LEDs on camera head, providing light up to 1.5 meters
● Video out function
● 3.5" TFT-LCD wireless monitor with SD card recording (Max. SD card: 32GB)
● Waterproof level: IP67 (camera tube only)
● Built-in Rechargeable Li-battery for both camera and monitor
● Multi-language support

PACKING LIST

1 x Camera Probe	1 x Monitor	1 x USB Cable	1 x Video Out Cable
1 x Magnet Stand for Monitor	1 x Power adapter for Monitor	1 x Power adapter for Camera	1 x Manual	1 x Case

STRUCTURE

Side View Camera
LEDs Lighting Distance Up To 1.5m

Stainless Steel Insertion Tube
Dia. 9mm
Lenth 300mm

On/Off Switch
LED Brightness Control

Video Out

Indicator

MAIN UNIT

Side View Camera

2 High Intensity LEDs
Lighting Distance: 1.5m

USB Charging

MONITOR

Power Switch
Power Indicator
USB Port
Video Output
MicroSD Card Slot
Power Jack

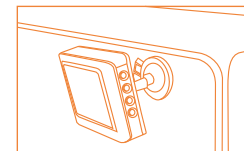Confirm
Toggle Up
Menu
Toggle Down

Reset Button

Magnet Stand Slot

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INSTALLATION

To Install Monitor Mounting Bracket

Attach the magnetic mounting bracket to the monitor.

Slide the bracket upward.
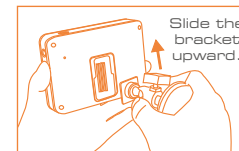
To Insert SD Card

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

SD card
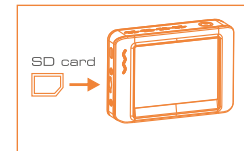
To Connect USB Cable

Use the provided USB cable to connect the monitor to any PC with a USB slot. Your computer should automatically recognize the new hardware, which you may browse by double-clicking on the My Computer icon on your desktop, and then navigating into the Mobile Disk directory.

3.5 Floppy Disk(A)   CD driver(G)   Mobile Disk(H)
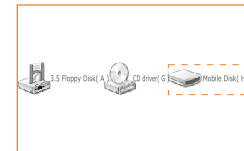
To Connect Monitor Power

Connect the monitor to an appropriate (100-240V ~ 50/60Hz) power source with the provided adapter. The power indicator LED will illuminate red and the battery capacity icon on the LCD will flicker, indicating that the battery is charging. When the red indicator light disappears, the battery has been fully charged.

monitor

adapter

power source

05
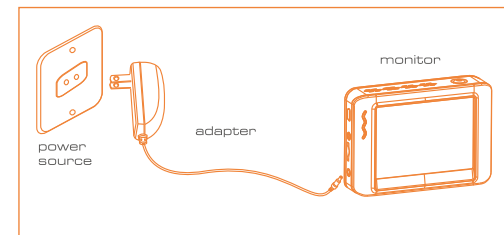
To Connect Camera Power

Plug the USB cable into the power adapter, and the other end into the camera to charge the camera.

Notice: You must use the original power adapters provided by the vender.

Video Output of Monitor

Insert video cable into the video out socket of the monitor, insert the other end of the cable into the video in jack of any compatible TV or display device. The LCD monitor is now capable of outputting high quality video to another display.
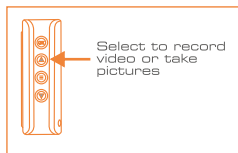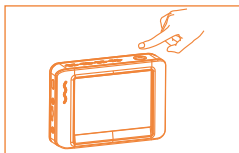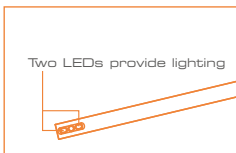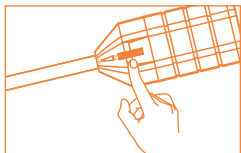
Video Output of Camera

Insert the video out cable to camera's video out port, and another end to a TV, The camera is now capable of outputting high quality video to another display.
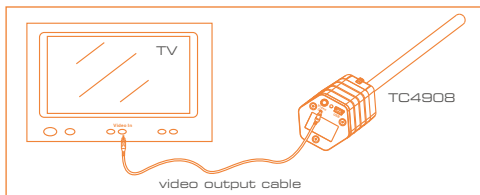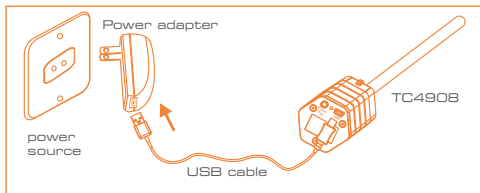
█████ OPERATION

Basic Operation

1. As you roll the power switch to turn on the camera, the power indicator on the camera handle will light RED. The rolling switch then acts as a dimmer for the LEDs that beside the camera on the end of the tube.
2. Press and hold the power switch for 2 seconds on the monitor until the power indicator illuminates green. when the picture from the lens is displayed on the monitor, press the ▲ button on the side of the monitor. To toggle between video recording and picture taking functions.

Power adapter

power source

USB cable

TC4908

TV

Video In

TC4908

video output cable

Two LEDs provide lighting

Select to record video or take pictures

Recording Video

1. In real-time monitoring mode, press the ▲ button to toggle to video recording mode.
2. Press the 'OK' button to begin recording:
3. Press again to stop recording.

Notice!

* The video will be automatically saved as an individual file every 30 minutes.
* In real-time monitoring mode, press the ▼ button to zoom interface.
* The F icon indicates that the SD card memory is full.

Battery Capacity   Recording

Video/Photo Icon / Photo Icon

SD Card Icon

1.0x   Image zoom

2013/03/21
13:50:40   [01:18:16]   SD Card capacity time

Current Date/Time

Taking photos

1. In real-time monitoring mode, press the ▲ button to toggle to photo capturing mode.
2. Press the 'OK' button to take a photo.

Notice!

The F icon indicates that the SD card memory is full.

Photo Icon

Playback Video/Picture

1. In real-time monitoring mode, press the ☰ button to toggle to the video/picture folder.
2. Press the ▲ or ▼ buttons to select your desired folder, and then the press 'OK' to toggle to the right interface:

Notice!

The JPG format file is a picture;
the MP4 format file is a video.

2013/03/21   0001/0005

13:54:15   JPG
14:12:19   MP4
14:17:34   MP4
14:36:40   JPG
15:09:03   MP4

Indicates picture file
Indicates video file
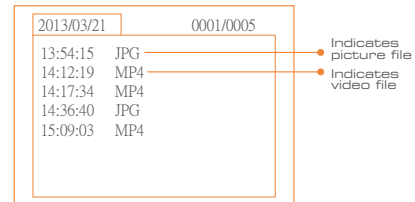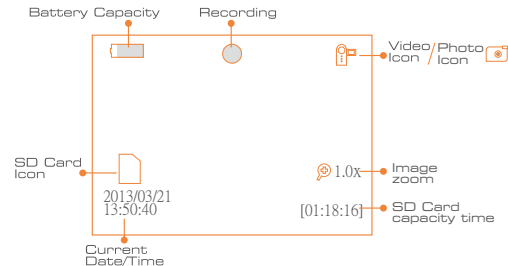
3. for playback video:
   Press the ⬆ or ⬇ button to select your desired video, and then press 'OK' to playback.
   Pause: press the 'OK' button once to pause, press again to resume play;
   Fast Forward: press the ⬆ button;
   Rewind: press the ⬇ button;
   Stop/Exit: press the ≡ button.

   for view pictures:
   Press the ⬆ or ⬇ button to select your desired photo, press 'OK' button to view and press the ≡ button to exit.

Deleting Video/Picture

1. In real-time monitoring mode, press the ≡ button to toggle to the video/picture folder.
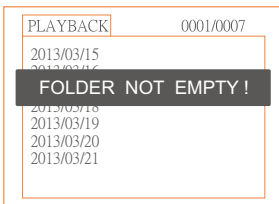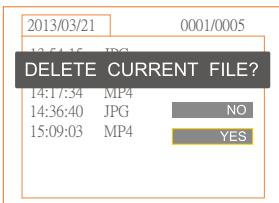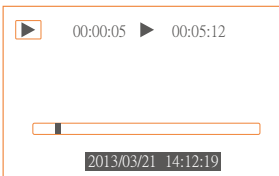2. Press the ⬆ or ⬇ button to select your desired folder, and then press 'OK' button.
3. Press the ⬆ or ⬇ button to select your desired file, and then press and hold the ≡ button for 2 seconds, or until the right interface appears:
4. Press the ⬆ or ⬇ button to toggle between YES and NO, that is, to delete or cancel. Once you have highlighted your desired selection, press the 'OK' button.

Deleting Folder

Deleting a folder is done in the same way as deleting a single file, however, make sure that the folder is empty first, otherwise the following error message will appear:

▶ 00:00:05 ▶ 00:05:12

2013/03/21 14:12:19

2013/03/21   0001/0005

DELETE CURRENT FILE?

14:17:34   MP4
14:36:40   JPG   NO
15:09:03   MP4   YES

PLAYBACK   0001/0007

2013/03/15
FOLDER NOT EMPTY !
2013/03/18
2013/03/19
2013/03/20
2013/03/21

How to enter the Setting Mode
In real-time monitoring mode, press and hold the ≡ button for 1~2 seconds, or until the right interface appears:

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

Video System 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 'Video System' and then press 'OK' button.
3. Press the ⬆ or ⬇ button to toggle between NTSC and PAL. Once your desired system is selected, press 'OK' button to confirm and exit.

Format
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.

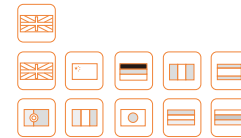**Default Setup**
1. In the setting mode, press the ⬆ or ⬇ button to select 'SYSTEM SETTING', and then press 'OK' button.
2. Press the ⬆ or ⬇ button to select 'Default Setup' and then press 'OK' button.
3. Press the ⬆ or ⬇ button to toggle between YES and NO, that is to restore default or cancel. Once 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', The right interface will appear:
2. Press 'OK' button to select Date or Time;
   Press the ⏶ or ⏷ button to adjust selection;
   Press the ☰ button to confirm and exit.

Date/Time

2013 / 03 / 21

09 : 51

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 ⏶ or ⏷ buttons to toggle between on and off. Once your desired selection is made, press 'OK' button to confirm and exit.

Recording Type

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 'Recording Type' and then press 'OK' button.
3. Press the ⏶ or ⏷ button to toggle between 'still' and 'video'. 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.

SPECIFICATIONS

Camera (Model No. TC4908)

Items	Specifications
Diam. of Insertion Tube	9mm
Insertion Tube Length	300mm
Overall Length	400mm
Tube Material	Stainless Steel
Light Source	2 high intensity LEDs for 1.5m lighting distance
Effective Pixels	768 x 494(NTSC) / 752 x 582(PAL)
Mains Battery Charger	Yes
Depth of Field (DOF)	6cm-infinite
Field of View (FOV)	55°
Water Proof	IP67 (Probe only)
Operation Temperature	-10ºC ~ 60ºC
Battery capacity	1500mAh
Work Time	4 hours
Charge time	5 hours

Monitor (Model No. GB7307)

Items	Specifications
Screen Size	3.5" TFT-LCD
Display Resolution	320(R.G.B.) x 240dot
Video Format	NTSC / PAL
Modulation Mode	FM
Receive Sensitivity	-85dBm (module)
Built-in Li-Battery Capacity	1100MAH/3.7V
Charge Time	3 hours
Work Time	3 hours
Consumption Current	500MA(MAX)
Memory	Micro SD Card
Picture Format	.JPG
Video Format	.AVI
Picture/Video Resolution	640x480
Frame Rate	30Frame/S
Operation Temperature	0~+45ºC
Storage Temperature	-20~+60ºC

* 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.

TROUBLESHOOTING

Problem	Possible Causes	Likely Solutions
Tool will not start	1. Camera not charged 2. monitor not charged	1. charge camera 2. charge monitor
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.