

600 Dekora Woods Blvd. Saukville, WI 53080, USA Fax: 262-268-9950 www.insightvisioncameras.com





IRIS MAINLINE CRAWLER Integrated Remote Inspection System



SEWER CAMERA MANUFACTURER

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## **General Overview:**

Thank you for purchasing the IRIS Mainline Crawler. Reading the documentation will help you make the most of your equipment.

The IRIS Integrated Remote Inspection System is a motorized robotic crawler with a motorized drum to rewind the cable. It has a 10.1" touch-screen which provides easy operation and multiple recording options.

## What's Included:

- USER MANUAL
- 600 FT. CABLE IN A MOTORIZED REEL (w/ extendable rear handle)
- CRAWLER WITH ADJUSTABLE HEIGHT PAN & TILT CAMERA
- 120V POWER CABLE
- CRAWLER CONTROLLER
- SMALL & MID WHEEL SET (installed)
- 3/32 ALLEN WRENCH (strain relief)
- RAIN COVER
- LCD SCREEN COVER
- CRAWLER HARD CASE

## **Optional Available Accessories:**

- PNEUMATIC WHEELS
- LOWERING HOOKS
- 512HZ SONDE

## **Additional Accessories:**

Poles

Lowering Hook – Easily lower the crawler into the hole. Top Hole Roller – Place over the manhole to smoothly guide the crawler cable. Down Hole Roller – Reduce drag down in the hole. Tiger Tail – For use when a down hole roller can't be used to reduce drag.





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## **General Safety Guidelines:**

#### WARNING:

Failure to follow the warnings and instructions may result in electrical shock, fire, serious injury or damage to equipment.

#### Work Area Safety Guide

Keep your work area clean and dry. Observe proper confined space safety regulations including using triple gas test devices. Do not operate equipment in explosive or flammable environments. Keep children away when operating the system.

#### **Electrical Safety Guide**



Do not expose equipment to rain or wet environment. Keep hands dry and all electrical connections dry. Ensure all power cord, connectors and wires are in good working condition. Always use with a ground fault protected AC source.

#### Personal Safety Guide

Be alert and aware of your environment. Be prepared and follow instructions. Use proper protective clothing when operating equipment.

#### **Use Equipment with Care**

Do not force the equipment. Do not allow inexperience operators to operate equipment. Maintain equipment and use only accessories that are recommended by the manufacturer.

#### For immediate assistance, contact Insight Vision.

Phone:	800-488-8177
Fax:	262-268-9952
Email Technical Service:	service@insightvisioncameras.com
Email Sales & Support:	sales@insightvisioncameras.com
Web Inquiry:	www.insightvisioncameras.com

#### Please complete the following information for future reference:

Serial Number:	
Date of Purchase: _	
Place of Purchase:	

The serial number is on the back of the unit. Please retain a copy of your manual and receipt of purchase, in the event of theft, fire or warranty service.



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## **Shutting Down Your IRIS:**



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## **Front Control Panel:**

- 1. ON/OFF Power Button Turn ON and OFF the system.
- 2. USB Crawler Controller Port To connect with the digital hand controller.
- **3.** USB Port To connect additional external device (e.g. headphone/microphone).
- 4. Reel Speed Control Knob Control the speed of the motorized reel drum.
  - Turning the knob right will increase the speed.
  - Turning the knob left will decrease the speed.

Notice: To bring the crawler back with the reel using the Controller, momentarily drive the crawler in reverse to dis-engage the clutch. Auto assist payout is not a synchronized action between the reel and crawler. When operating in auto payout mode adjust the reel speed to match the tractor speed.

- 5. Feed Direction Switch Forward Assist Out and backward Reel In including auto-rewind.
- 6. Emergency Stop Button Turn ON and Push to Shut OFF power to Crawler & Motorized Reel.
- 7. 10.1" Daylight Readable LCD Touch Screen
- 8. External Card Storage Bank USB 3.0, SD Card, Micro SD Card, XD Card, CF Card, MS Card.



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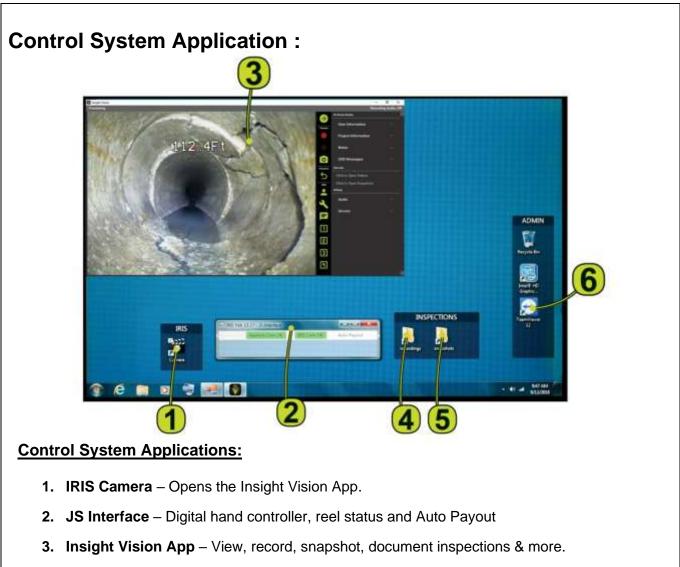


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- 4. Recordings Folder Default folder for saved video inspections.
- 5. Snapshots Folder Default folder for saved photos.
- 6. Team Viewer App Remote Desktop Support for Training.

### Notice:

You will see the window below when launching the IRIS Camera. It is required for the crawler operation, do not close out the pop-up window.

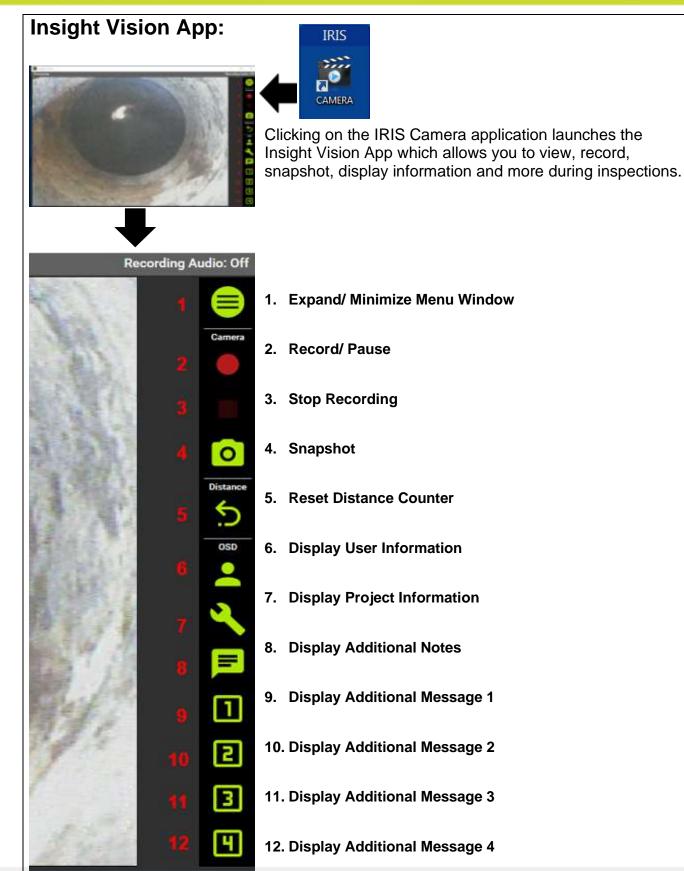




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# On Screen Display (Menu Window Expanded):

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## **User Information**

- Enter information about your business.
- Icon will display text on screen for about 10 seconds.
- "Clear User" to quickly erase all user information.
- Note: The user information will be auto saved until new changes are made.

FIELDS Company

Address Phone Contact

Email

Other

Other

#### **Project Information**

- Enter project information for each project.
- Icon will display text on screen for 10 seconds.
- Simply click on, "Clear Project" to quickly erase all project information.
- Note: The project information will be auto saved until new changes are made.

**FIELDS** 

Client Date Time Location Address Start Stop Direction Other Other

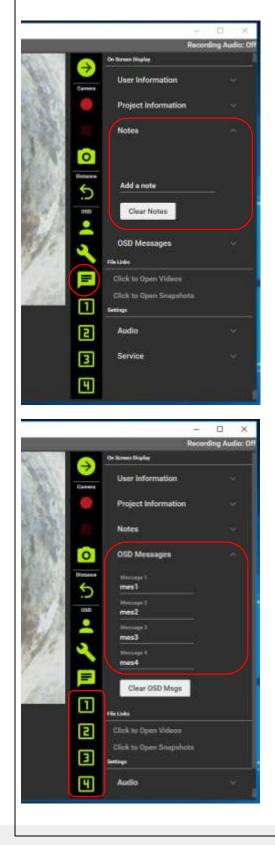
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# On Screen Display (OSD):



### Notes

- Enter notes about each project, hitting enter will create a new line.
- Icon will display text on screen for 10 seconds.
- Simply click on, "Clear Notes" to quickly erase all notes.
- Note: The notes will be auto saved until new changes are made.

## **FIELDS**

Add a note

## **OSD (On Screen Display) Messages**

- Enter up to 4 custom on screen messages.
- Icons will display them on screen for 10 seconds.
- Simply click on, "Clear OSD Msgs" to quickly erase the desired message.
- Note: The messages will be auto saved until new changes are made.

#### **FIELDS**

- Message 1
- Message 2
- Message 3
- Message 4

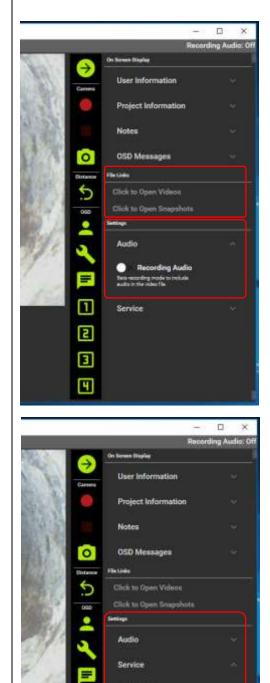


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# On Screen Display (OSD):



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### **File Links**

- To access recorded videos, press "Click to Open Videos"
- To access recorded pictures, press "Click to Open Snapshots"
- Notice: Videos can be played back using the system's media player (Windows Media Player).
   Pictures can be opened with the system's photo viewer.

## Settings

### Audio

 Turn On/Off audio recording, a USB headset with microphone(not included) required to record audio (see page 15).

## Settings

## Service

- Display Units: Change on-screen distance counter between feet and meters.
- Count Direction: Change the direction of the onscreen distance counter between Forward or Backward.
- Notice: Maintenance Mode is only used by the manufacturer or an authorized service center.

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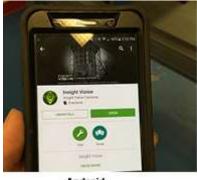
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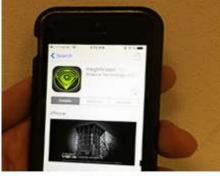
## **Insight Vision Mobile Application:**

Your IRIS mainline crawler inspection system has an integrated wireless module built into the reel to stream live video to a smart phone or tablet. The live streaming application is supported by Apple<sup>™</sup> and approved Android<sup>™</sup> mobile devices.

Directions -

- 1. Power up the system.
- 2. Download the Insight Vision application from your app store.
- 3. Connect to the Insight Vision Wi-Fi network.
- 4. Please input the default password to connect. The default password is 12345678.





Android

Apple

#### Notice:

It is not advised to change your SSID or password on the IRIS mainline crawler wireless module. The system will have to be sent in for a factory reset.

### The App is not covered under warranty.

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## **Mobile Application Controls:**

- 1. Record/Stop Use this function to record video and stop recording.
- 2. Snapshot- Use this function to take picture.
- 3. On Android<sup>™</sup> device this function is not active.

On Apple™ device this function stores your recorded inspection videos.

4. On approved Android<sup>™</sup> device this functions stores your recorded inspection videos and photos.

On Apple™ device this function stores your captured photos.

5. \*Settings\* Use with caution, changes to your Wi-Fi SSID and PASSWORD can't be undone.

Once changes are made, do not forget your password or you will have to send in your camera system for a factory reset. **NOTICE: THIS IS NOT Covered Under Warranty** 

6. Default password connection is 12345678



Android Interface



Apple Interface

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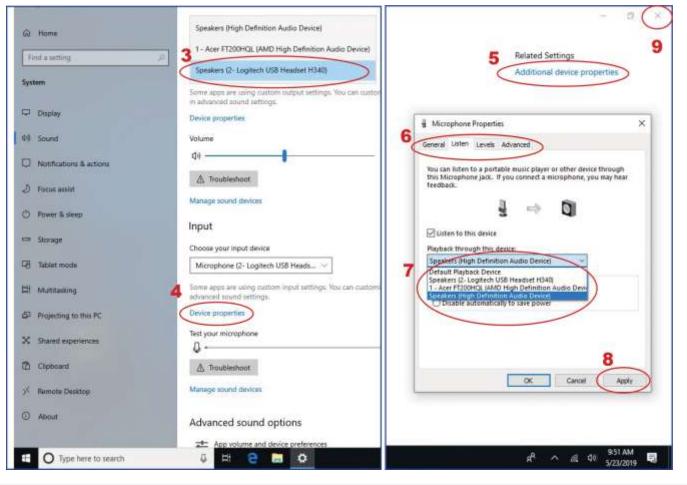
## **Connecting a USB Headset to IRIS**

Here is how to connect a USB headset to your IRIS so you can record audio over your inspection video. Note: This option may not work with 3rd party software. Please contact your 3rd party software vendor for further information.



#### Plug USB Headset in to one of the USB Ports on the IRIS

- 1. Right Click (long press if using the touch screen) the 
  Speaker Icon on bottom right of screen.
- 2. Select "Open Sound Settings".
- 3. Select the USB Headset.
- 4. Click on the Microphone "Device Properties".
- 5. Click on "Additional device properties".
- 6. A window will open. Click on the "Listen" Tab.
- 7. In the dropdown menu labeled "Playback through this device" select "Speakers (High Definiton Audio Device)".
- 8. Select "Apply" in the lower right of the window
- 9. "X" out of the settings to go back to the home screen.





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## **Specifications:**

### Transporter:

- Six-wheeled crawler with all-wheel drive
- Three available wheel sets for various pipe size ranges
- Pipe diameter 6" to 12" (Up to 18" with additional wheel set)
- High grip polymer tires for demanding conditions and terrain
- Leak/pressure test valve/port
- Hardened drive gears
- Easy/rapid wheel change with single retaining nut per wheel
- Weight of transporter is 35 lbs.
- Transporter dimensions is 19"L x 3.5"H x 5"W
- 9 LED lateral lights
- 4 Front LED lights

#### Motorized Cable Drum:

- Variable speed motorized reel rewind and payout
- Automatic freewheel drum clutch
- 600' Kevlar reinforced, Hertel coated cable
- Footage counter
- On-screen distance display in feet or meters
- Level wind system
- Reel weight is 150 lbs.
- Reel dimensions is 29"H x 20"W x 21"D
- Reel power 110 volts

### **Control Panel:**

- 10.1" Daylight readable color high resolution LCD touchscreen
- Digital on-screen text enable with external HDMI port
- Wireless connectivity
- Interface includes wireless remote access Wi-Fi
- Operates on Windows<sup>™</sup> 10
- External recordings to USB and SD

#### **Camera Specs:**

- 360 degree rotation
- 180 degree pan
- Fixed focus
- Height adjustable camera head with manual lift arm
- Impact resistant polycarbonate dome
- NTSC standard, PAL optional
- 640 x480 video resolution
- Hi-intensity LED's provides pipe illumination
- Camera sensitivity < 1 Lux

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- Power On/Off Switch Plug in the AC power cord provided in to back of unit, plug the other end in to a 110V electrical outlet and Press power – on the back of the unit. Note: you will still need to press power on the IRIS control panel to turn the unit on. The A/C outlet is a power source for additional electrical equipment.
- Additional Ports Plug in a TV or Monitor into the HDMI port, keyboard/mouse in to the USB port, RCA Video Out Jack to a TV or Video In for..., and an Ethernet port for a network connection.



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## Warranty:

Insight Vision warrants to the original purchaser that should any of its products prove to be defective in material or workmanship in normal use, within one **(1)** year from the date of delivery, Insight Vision will, at its exclusive option, repair, replace or exchange the product or any of its parts.

### THIS WARRANTY IS SUBJECT TO THE FOLLOWING LIMITATIONS:

- The warranty does not apply to any product which has been subject to accident, negligence, alteration, abuse, misuse, overload, repair by anyone other than Insight Vision or its authorized representatives, or not maintained in accordance with the manufacturer's suggested maintenance requirements.
- The warranty applies only to components manufactured by Insight Vision. The appropriate manufacturer's warranty, if any, shall apply to components not manufactured by the company.
- The warranty does not apply to flex-link connectors, rod, LED light rings, cable, rollers, O-rings, and skids, or other parts, which are considered consumable. The replacement of these items is part of normal product maintenance.
- The warranty shall not apply if the products are used or operated in any manner not consistent with their intended purpose.
- The warranty is limited to repair or replacement of defective products and parts during the warranty period, and shall be the exclusive remedy. Insight Vision shall in no event have any other obligation or liability of any nature arising from the breakdown, malfunction, defect or other failure of the product, including, without limitation, any liability for service, maintenance, repairs, personal injury, property damage, loss of profits, loss of use or other consequential damages.
- Any action for any claimed breach of this warranty shall be brought within one (1) year from the date of delivery of the product.
- The purchaser must return the defective product, part or component to the Insight Vision factory in Saukville, WI 53080 at the purchaser's expense, properly and adequately packaged, with insurance and transportation pre-paid. Insight Vision will either repair or replace the defective product, part or component, at its option, and will return it to the purchaser at the customer's expense. In no event shall Insight Vision be liable for delay in repair or replacement and return under this warranty. Insight Vision will endeavor to effect appropriate repairs in the shortest time practical, with respect to the customer having beneficial use of their equipment.
- Insight Vision neither assumes nor authorizes any person to assume any other liability or make any other warranty in connection with the products.

THIS WARRANTY IS EXPRESSLY GIVEN IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED. INSIGHT VISION EXPRESSLY DISCLAIMS ANY OTHER WARRANTY, INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.



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## **Contact Us:**



## INSIGHT VISION 600 DEKORA WOODS BLVD. SAUKVILLE, WI 53080 PHONE: 800-488-8177 FAX: 262-268-9952 WWW.INSIGHTVISIONCAMERAS.COM

## Service and Support Specialist:

Sales Manager: Email: Service Manager Email:

Alan Petras sales@insightvisioncameras.com service@insightvisioncameras.com

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