

Xtenda cam™ HD AIR

XtendaCam® HD Air Instruction Manual



InterTest, Inc. • 303 Route 94 • Columbia, NJ 07832





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Contact Information

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Introduction:

Congratulations on your investment in the XtendaCam® HD Air System. designed specifically for viewing, illuminating, and recording inaccessible areas in a matter of minutes. The new slender, lightweight version of the XtendaCam® HD, boasts a High Definition, 1080p30 camera with a 10x optical zoom lens, in a waterproof housing attached to a motorized tilting mechanism allowing the user to change the vertical orientation of the camera in a 320-degree range.

The camera system offers an integrated 10x zoom lens with quick auto-focus to capture out of the way areas safely. Auxiliary lighting is provided by a pair of LED lights that reaches targets up to 20-feet away. Tilt, zoom, and lighting functions are controlled by removable joystick assembly wirelessly on the XtendaCam® HD Air poles.

The telescoping XtendaCam® HD Air, is ideal for capturing high quality video/images in difficult to reach applications, such as Snubber Inspection, bridge structure inspections, transportation inspections, viewing inaccessible cavities, and viewing over walls, roofs, and around corners. This system was designed for but not limited to Highways and Bridge Structures, Security/Surveillance, Law Enforcement, Military, Mines, Refineries and Power Generation Facilities.

Cautions and warnings.

Safety Precautions

This manual covers the XtendaCam® HD Air System, its functions, and use. To ensure safe operation read this manual before operating the equipment. By doing so, you will become familiar with the equipment’s capabilities and better understand its functions. Save manual for future reference. Follow all warnings and instructions in the manual and marked on the equipment.

Operational, General Safety Considerations and Precautions

Always observe the guidelines and precautions that follow.

There are no user-serviceable parts inside the controller. Refer all service to InterTest Customer Service and Support Group.



IMPORTANT: To ensure operator safety, read and understand this manual before using the system.

To avoid injury, read and understand the associated documentation of support components prior to operation. Direct any questions about equipment operation to InterTest Customer Service and Support Group at 908-496-8008 or via email to service@intertest.com.

Cautionary Symbols and Symbol Terminology

Table A describes the various symbols that are used in this manual and mounted on the equipment. The severity level of a potential hazard varies. Refer to for hazard level descriptions.

Table A — Manual and Equipment Safety Symbols

Symbols	Definitions
---------	-------------

	WARNING/CAUTION: Risk of electric shock.
	WARNING/CAUTION: Refer to instruction manual.
	WARNING/CAUTION: Avoid exposure to water and liquids.
	WARNING/CAUTION: Avoid eye and skin exposure to UVA Light.

Warnings

Stop operation immediately when any abnormality or defect occurs. Use during an abnormal condition; such as emitting smoke, burning odors, after damage from dropping, invasion of foreign objects, etc. may cause fire and/or electrical shock. Contact InterTest Inc for service.

Care & Maintenance



Do not use in proximity to energized electrical equipment



Only use the specified battery.



The system is splashproof but not waterproof. Exercise caution & do not submerge



Some surfaces may be warm to the touch. Use caution when handling.



Do not tilt the camera head down/forward beyond 90°. Internal damage will result .

Disclaimers

InterTest Inc. disclaims any responsibility and shall be held harmless for any damages or losses uncured by the user with the use of this product. Including the following:

1. Fire, earthquake or any other Act of God. Acts by third parties; misuse by the user, whether intentional or accidental; use under conditions outside of noted operating range.
2. Malfunction or non-function resulting in indirect, additional or consequential damage including but not limited to loss of expected income and suspension of business activities.
3. Use not in compliance with this manual's instructions.
4. Malfunctions resulting from misconnection.
5. Unauthorized repairs or modifications.
6. Notwithstanding the foregoing, InterTest's liabilities shall not exceed the purchase price of the product.

Warranty

InterTest, Inc. guarantees products manufactured by InterTest, Inc. to be free from defects in materials and workmanship for a period of one (1) year, from the date of original purchase. All other products not manufactured by InterTest, Inc. will carry the OEM's limited warranty, which will be passed to the purchaser through and supported by InterTest, Inc. InterTest, Inc.'s obligation under this limited



warranty shall be confined to the repair or exchange of any part, or parts thereof, that prove defective under normal use and service for which the product was intended or designed.

This limited warranty covers products that upon our examination are deemed to be defective.

This limited warranty is in lieu of all other warranties, express or implied, including the warranties of merchantability and fitness for use. We neither assume, nor authorize any other person to assume for us, any other liabilities in connection with the sale of InterTest, Inc. equipment. This warranty does not apply to any equipment that has been subject to accident, negligence, alteration, abuse, unauthorized repair, improper storage, or other misuse.

This limited warranty applies only to the original purchaser and cannot be assigned or transferred to any third party without express written consent from InterTest, Inc.

This limited warranty does not apply to consumable items, expendable items or normal wear and tear, nor does it apply to failure due to radiation, overheating and / or below freezing temperatures. .

InterTest, Inc. assumes no responsibility, either expressed or implied, regarding the improper usage of this equipment or interpretation of test data derived from the use of this equipment. InterTest, Inc.'s responsibility and obligations, in all cases, are limited strictly to the repair and/or replacement costs outlined above.

The laws of the State of New Jersey shall govern this warranty.

Note: In the event the equipment cannot be returned to InterTest, Inc. The customer agrees to pay all travel and living expenses incurred to have an InterTest, Inc. representative evaluate, assess or affect a warranty repair in the field.

Copyrights and Rights of Portrait

There may be a conflict with the Copyright Law and other laws when a customer uses, displays, distributes or exhibits an image picked up by a television camera without permission from the copyright holder. Please also note that transfer of an image or file covered by copyright is restricted to use with the scope permitted by the Copyright Law.

Registered Trademark Information

InterTest® is a registered trademark of InterTest, Inc.

iShot® is a registered trademark of InterTest, Inc.

iShot® Imaging™ is a trademark of InterTest, Inc.

XtendaCam® is a registered trademark of InterTest, Inc.



IMPORTANT: If you are in possession of a printed or electronic version of this document, be aware that it may not be the current revision. To ensure that you are using the most up-to-date revision of this document, contact the InterTest Customer Service and Support Group or reference the downloads portal under this product on www.intertest.com.

System Components

- A. Camera
- B. Battery, 2 ea.
- C. Optional Tablet
- D. Optional Pole Clamp for Tablet
- E. Joystick Assembly
- F. Expandable Pole
- G. Support Foot



Figure 1

XtendaCam HD AIR Assy.

System Setup

- 1) Install “Holly View” App from the Apple® Store or Google® Play on a Wi-Fi Capable device see Figure 2 App Store

 - a. This step will only be required once for each Wi-Fi Capable device

- 2) Install the batteries & power on the system. See Figure 3 System Power On/Off and Layout



NOTE: The Handset/Joystick is paired with the Camera Head at the factory

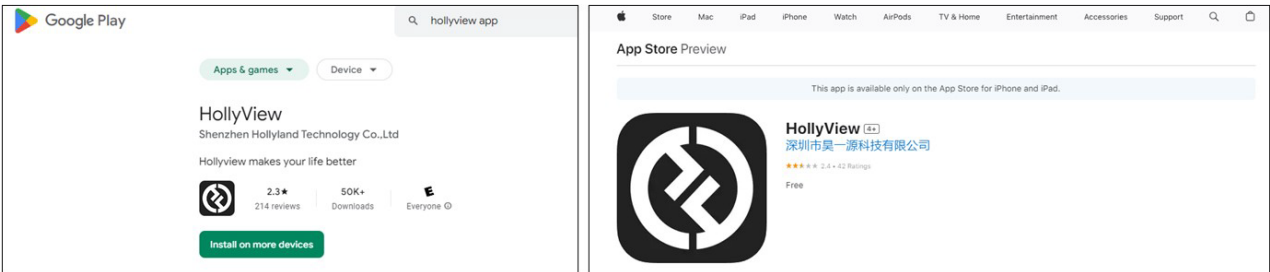


Figure 2 App Store / Google Play



Figure 3 System Power On/Off and Layout

Connecting to a Wi-Fi Device

- 3) Open the “Settings / Connections” menu on the device that will be used to view the video
Reference Figure 4 Wi-Fi/Camera Connection
- 4) Under Wi-Fi Connections, search for “HLD_900D6C4”
 - a. “Internet May Not Be Available” will display. This is OK.
 - b. Select “Only This Time”
 - i. This is recommended for any device that will also be used on other Wi-Fi networks
- 5) Open the Hollyland App.
- 6) Select **Connect**
- 7) Default password is **12345678**
 - a. Note: Password can be changed

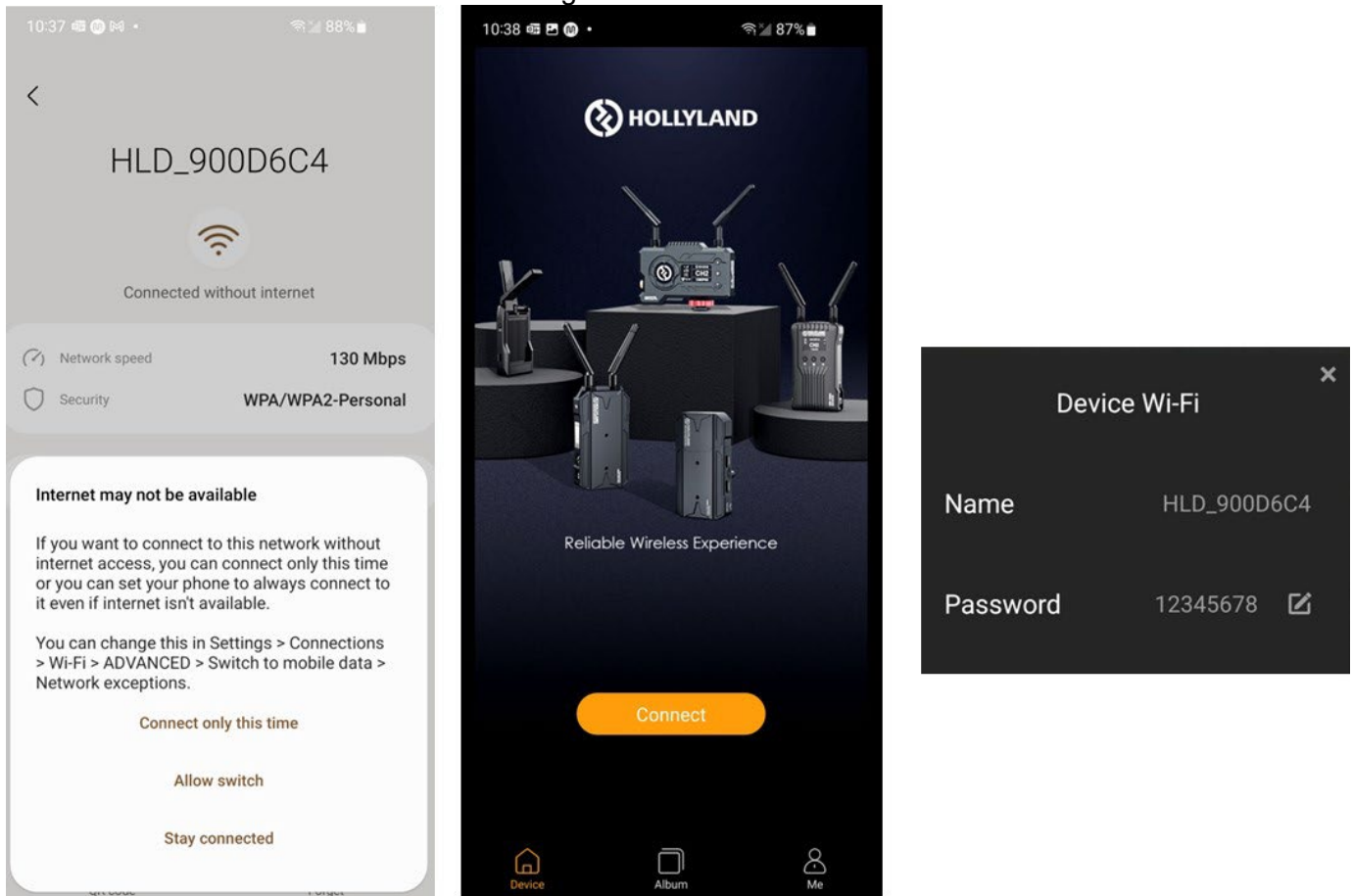


Figure 4 Wi-Fi/Camera Connection

System Operation

- 1) Install the batteries & Power ON the Joystick & Camera head
- 2) Follow the steps for connecting a Wi-Fi device.
- 3) “Press the “Connect” icon
- 4) The main screen will appear

See Figure 5 Main Screen Menu 1, Figure 6 Main Screen Menu 2 and Figure 7 Menu Function(s) and Descriptions Table

- 5) The “Yellow” light button turns on the LED lights.
 - a. Each press of the button increases intensity. Repeated button presses will cycle through the settings until the light turns off.



Figure 5 Main Screen Menu 1

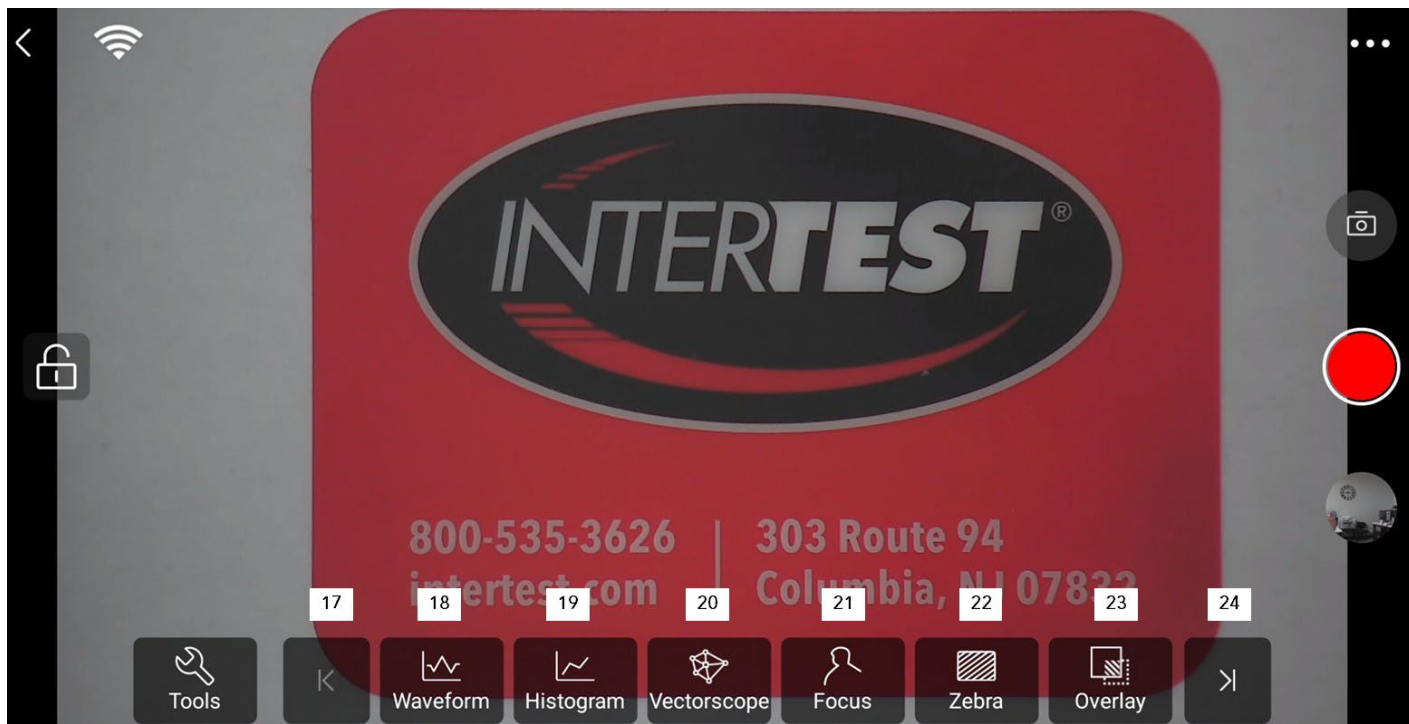


Figure 6 Main Screen Menu 2



Item	Description	Notes
1	Returns to Connect Menu	
2	Wi-Fi Strength Meter	
3	Menu ON/Off Lock	When the Lock is closed, menu along the bottom of the screen will not activate. Click to unlock
4	Wi-Fi Password /Network Name	
5	Still Image Capture	
6	Video Record	Click to Activate, Click to stop
7	Last Captured Image	
8	Tools Menu On/Off	
9	Next /PreviousPage Menu	
10	Magnify Screen	Opens a box on the screen that be be moved around to magnify that section of the video
11	False Color	Change to the corresponding color according to the brightness value of the element of the image
12	3D LUT	Not Used
13	Flip	Flip Image
14	Anamorphic	
15	Sharpness	Not Used
16	Next /PreviousPage Menu	
17	Next /PreviousPage Menu	
18	Waveform	Display the distribution of brightness or black and white information in the image in the horizontal direction, press and drag the waveform to change the display position of the waveform
19	Histogram	Displays the ratio of brightness or black and white information in the image, press and drag the histogram to change the display position of the histogram
20	Vectorscope	Displays the degree of saturation of each color in the image, press and drag the vector map to change the display position of the vector map
21	Focus	Not Used
22	Zebra	The area in the image that exceeds the set exposure level
23	Overlay	
24	Next /PreviousPage Menu	

Figure 7 Menu Function(s) and Descriptions Table

10X	
Tilt Range	+90 °to -45°
Image Sensor	1/2.8" Exmor CMOS image sensor
Effective Pixels	2.38 million pixels
Output Format	1080p30
Sync Systems	Internal
Aspect Ratio	16:09
Video Output	12Mbs, H.264 (WiFi)
Practical f-value	5.1 - 51mm
Horizontal Angle	54.0°(W)~4.9°(T)
Vertical Angle	31.0°(W)~4.0°(T)
Optical Zoom Ratio	1x-10x
Focus Control Mode	Auto
Exposure	Auto
Battery Life	2 Hours

Figure 8 Specifications 10X

30X	
Tilt Range	+90 °to -45°
Image Sensor	1/2.8" Exmor CMOS image sensor
Effective Pixels	2.13 million pixels
Output Format	1080p30
Sync Systems	Internal
Aspect Ratio	16:09
Video Output	12Mbs, H.264 (WiFi)
Practical f-value	4.3-129mm
Horizontal Angle	63.7°(W)~2.3°(T)
Optical Zoom Ratio	1x-30x
Focus Control Mode	Auto
Exposure	Auto
Battery Life	2 Hours

Figure 9 Specifications 30X

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Figure 11 30x Camera System Part Numbers15

Care & Maintenance

Overall System

- Do not expose to moisture or direct sunlight.
- Do not operate near intense electromagnetic fields.

Trouble Shooting

- Ensure the batteries are charged & the power switch is illuminated.
- Ensure you are using paired joystick & camera assemblies
- Ensure you are connected to the proper WiFi.

Returns for Repair or Service

In the event the product needs repair, send it to the Service Department at the main office in Columbia, NJ. An RMA (Return Material Authorization Number) must be issued prior to the unit being returned. **Call InterTest, Inc. at (908) 294-8008 to obtain an RMA Number** from customer service. Shipments returned without an RMA will have an administrative fee applied to the transaction. Provide the product number, serial number and a brief description of the problem or damage when obtaining an RMA number

Return Evaluation Procedure

Once a return is received by InterTest, Inc. it will be evaluated. The fee for any repair evaluation not sent in under warranty is \$55 (USD credited against cost of repair). This cost is in addition to any other charges required. Prior to any repairs being completed, a repair evaluation will be issued and payment arranged. Payment via credit card is preferred and will expedite the repair process. Once payment is arranged, the authorization to repair the product is given. Completed repairs will ship back to the customer using the pre-arranged shipping methods.



For Service of this product:

InterTest, Inc.

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1-800-535-3626

+1 908 496 8008

<http://www.intertest.com>



Parts and Accessories

DWG # 1697000	10X	
Part Number	Description	QTY
EM19700	XTENDACAM HD, 10X ZOOM SYS	1
Includes		
EM63889	M12 Lithium Ion 12V Battery ch	1
EM1697004	KZ10 HEAD CASE	1
EM1697001	XTENDACAM HD, 10X ZOOM HEAD	1
EM64986	M12 12-Volt 3.0Ah Lithium-Ion Battery	4
EM65385	Apple iPad Mini 5-256GB	1
EM64971	No-Spin Pole Set Lanbao 6.7m	1
EM65384	Tablet Ipad Holder	1
EM1697009	XTENDACAM HANDLE ASSY	1
EM1697005	2022 XTENDACAM FOOT STOP ASSY	1

Figure 10 10X Camera System Part Numbers

DWG # 1697010	30X	
Part Number	Description	QTY
EM19701	XTENDACAM HD, 30X ZOOM SYS	1
Includes		
EM63889	M12 Lithium Ion 12V Battery ch	1
EM1697012	EV7520 HEAD CASE	1
EM1697010	XTENDACAM HD, 30X ZOOM HEAD	1
EM64986	M12 12-Volt 3.0Ah Lithium-Ion Battery	4
EM65385	Apple iPad Mini 5-256GB	1
EM64971	No-Spin Pole Set Lanbao 6.7m	1
EM65384	Tablet Ipad Holder	1
EM1697009	XTENDACAM HANDLE ASSY	1
EM1697005	2022 XTENDACAM FOOT STOP ASSY	1

Figure 11 30X Camera System Part Numbers

