UltraSync Wi Fi IP Camera Installation Guide

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Contents

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Installation environment

When installing your product, consider these factors:

- **Electrical**: Install electrical wiring carefully. It should be done by qualified service personnel. Always use a proper PoE switch or a 12 VDC UL listed Class 2 or CE certified power supply to power the camera. Do not overload the power cord or adapter.
- **Ventilation**: Ensure that the location planned for the installation of the camera is well ventilated.
- **Temperature:** Do not operate the camera beyond the specified temperature, humidity or power source ratings. The operating temperature of the camera is between -30 to +60°C (-22 to 140°F). Humidity is below 90%.
- **Moisture:** Do not expose the camera to rain or moisture, or try to operate it in wet areas. Turn the power off immediately if the camera is wet and ask a qualified service person for servicing. Moisture can damage the camera and also create the danger of electric shock.
- **Servicing**: Do not attempt to service this camera yourself. Any attempt to dismantle or remove the covers from this product will invalidate the warranty and may also result in serious injury. Refer all servicing to qualified service personnel.
- **Cleaning**: Do not touch the sensor modules with fingers. If cleaning is necessary, use a clean cloth with some ethanol and wipe the camera gently. If the camera will not be used for an extended period of time, put on the lens cap to protect the sensors from dirt.

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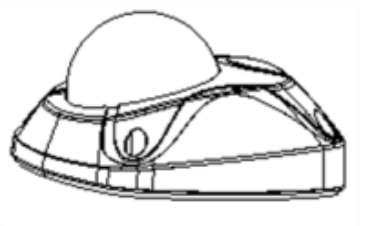
Package contents

Check the package and contents for visible damage. If any components are damaged or missing, do not attempt to use the unit; contact the supplier immediately. If the unit is returned, it must be shipped back in its original packaging.

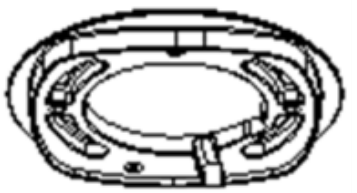
UltraSync Wi Fi IP Wedge Camera

IP Wedge Camera

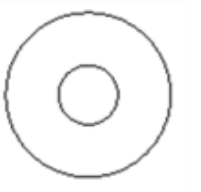


Installation Manual

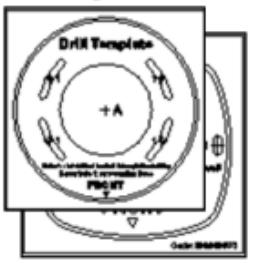
Converter Pan



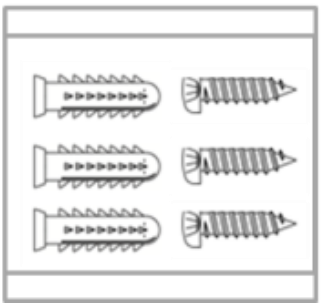
Configuration CD



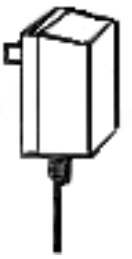
Mounting Templates



Anchors & Screws



Transformer



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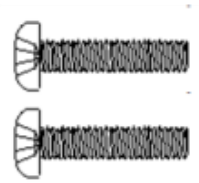
Water Joint: Ethernet

Lens Alignment Tool

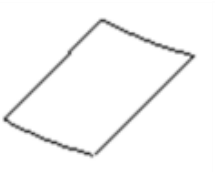
Hex Wrench

12 VDC Connector

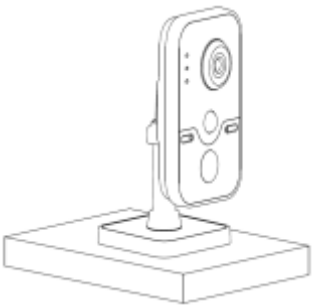
Screws C: M4x8



WEEE and Battery Disposal

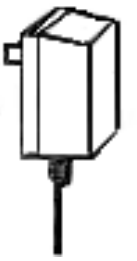


UltraSync Wi Fi IP Desktop Camera

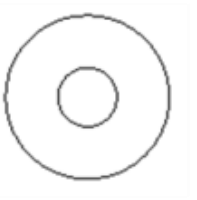


Installation Manual

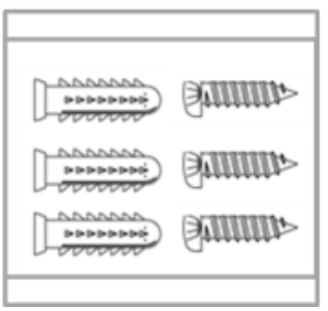
Power Supply (US)



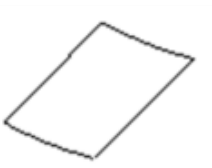
Configuration CD



Anchors & Screws



WEEE and Battery Disposal



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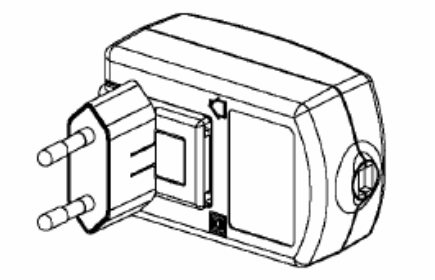
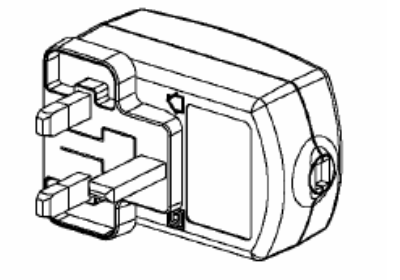
One power supply with interchangeable plugs is included for SKU number RS-3131.

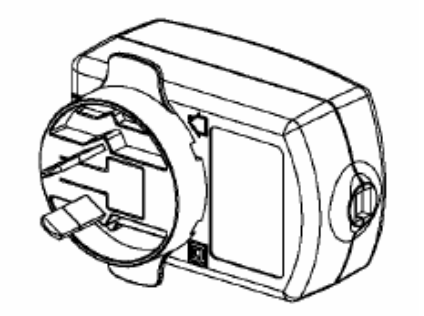
Power Supply (EU)



Power Supply (UK)



Power Supply (AUS)



CAUTION: Use direct plug-in UL listed power supplies marked Class 2/CE certified or LPS (limited power source) of the required output rating as listed on the unit.

Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

Cable requirements

For proper operation, adhere to the following cable and power requirements for the cameras. Category 5 cabling or better is recommended. All network cabling must be installed according to applicable codes and regulations.

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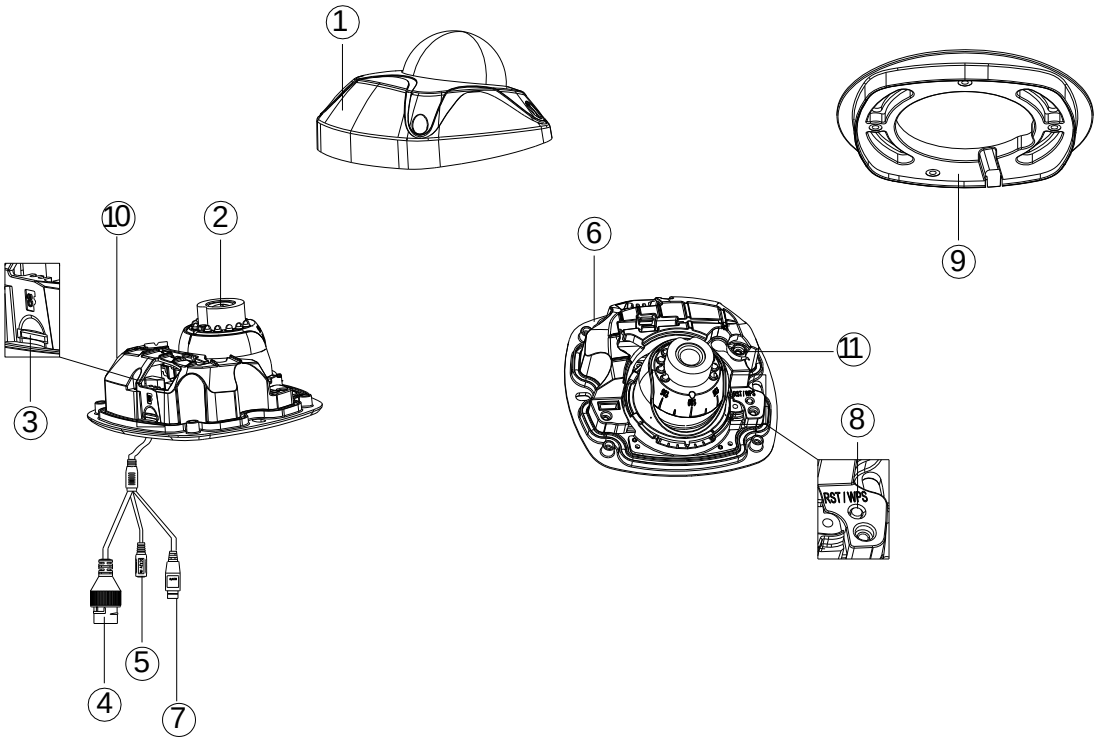
Camera description – Wedge Camera



1. Camera cover/housing
2. Lens
3. SD card
4. Ethernet RJ45 PoE port
5. Power supply
6. Base
7. Alarm and Audio port
8. Reset/WPS button
9. Converter pan
10. Antenna
11. Microphone

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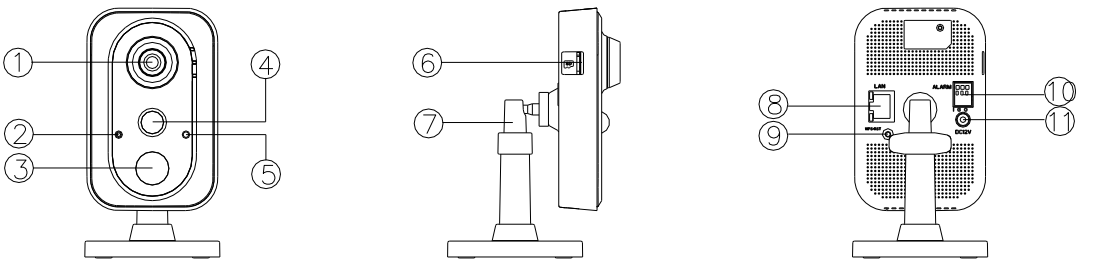
Camera description – Desktop Camera



1. Lens
2. Microphone
3. IR LED
4. PIR
5. Light sensor
6. SD card slot
7. Bracket stand
8. RJ45 network port
9. WPS/RET button
10. Alarm I/O
11. DC12V port

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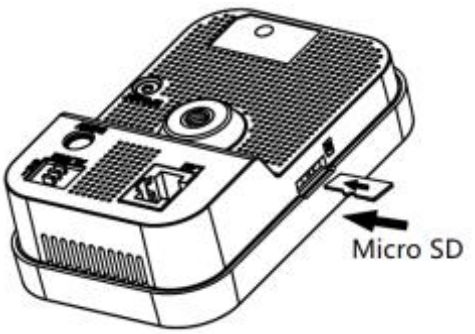
Accessing the SD card

Wedge Camera

An 8GB Micro SD card is pre-installed with the camera; (see item 3 in Camera Description, page 6).

Desktop Camera



An 8GB Micro SD card is pre-installed with the camera.

If desired, the Micro SD Card can be replaced with up to 64GB for local storage as a backup in case, for example, the network fails.

Note: Video and log files stored on the Micro SD card can only be accessed via the UltraSync App when validated with the UltraSync Panel.

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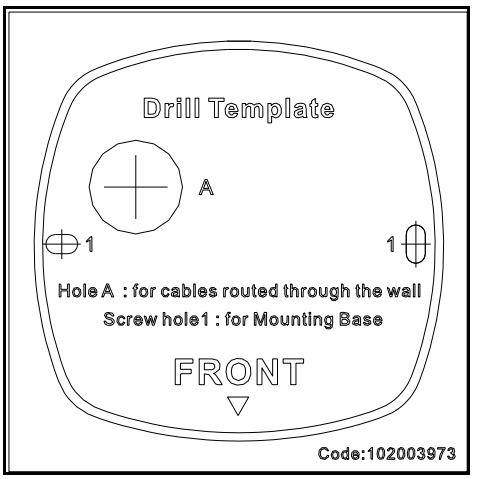
Mounting the Wedge Camera

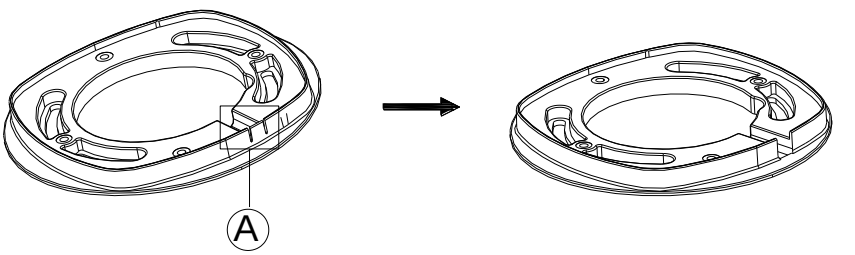
To mount the wedge camera on a wall or ceiling:

1. Drill the holes for the mounting hardware in the mounting surface using the supplied drill template. To route the cables from the base of the camera, drill a cable access hole in the mounting surface.



2. Mount the converter pan to the mounting surface (optional).

Note: If required, you can remove the tab (A) on the side of the converter pan to pass the cables through.



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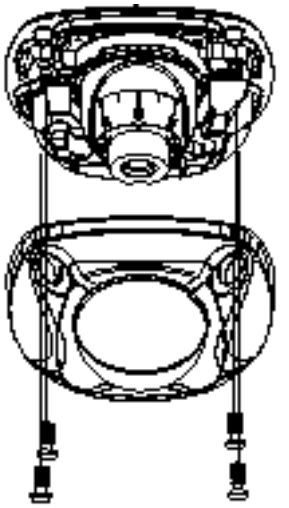
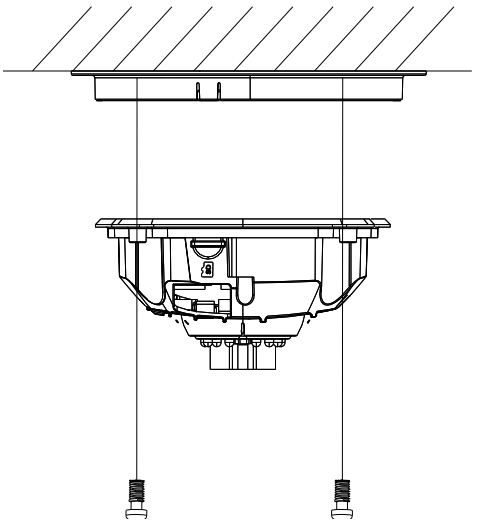
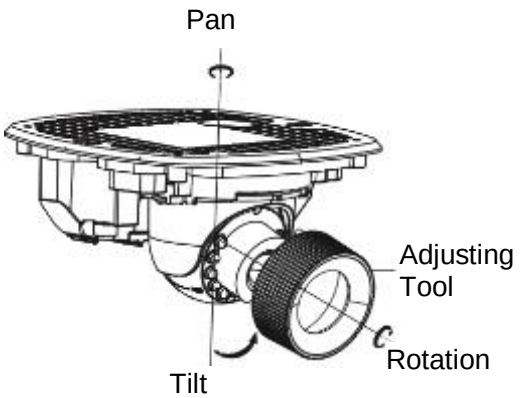


3. Loosen the screws with the tamper-resistant hex wrench (supplied) to remove the camera cover.



4. Mount the camera base to the converter pan or mounting surface, depending on the installation.



5. Use the supplied lens alignment tool to adjust the pan [±30°], tilt [0 to 80°], and rotation direction [0 to 360°].

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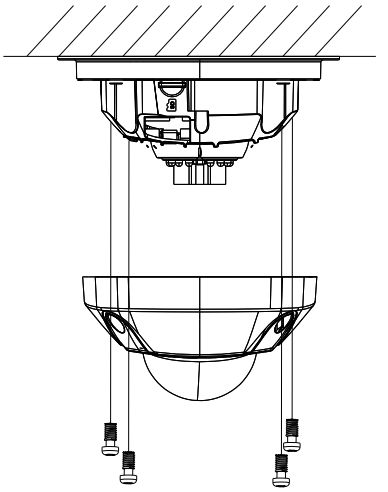
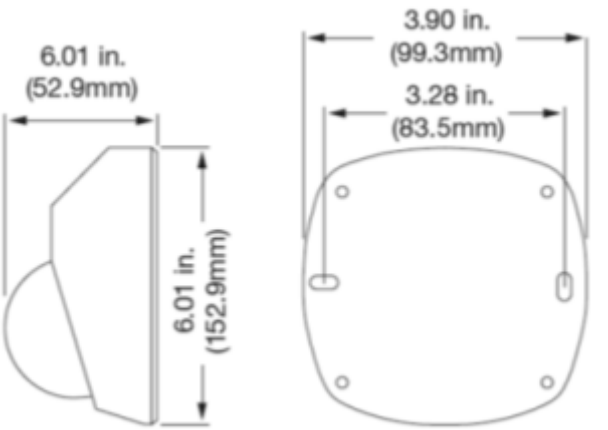
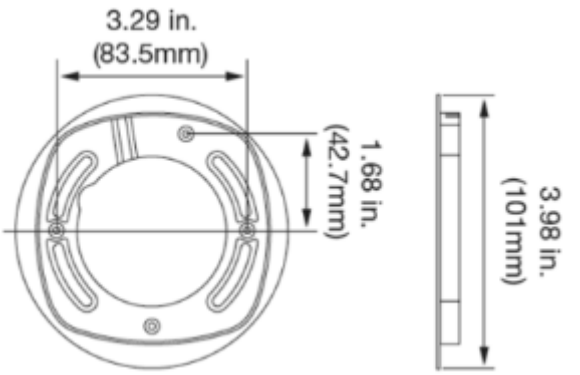


6. Re-attach the dome cover to the camera.

Wedge Camera Dimensions



Wedge Camera Mounting Plate Dimensions



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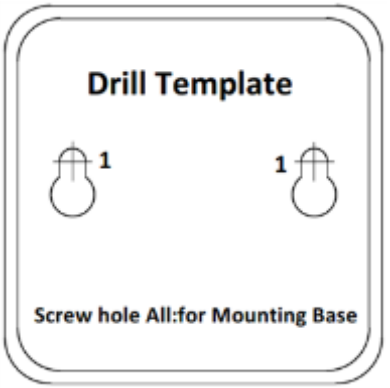
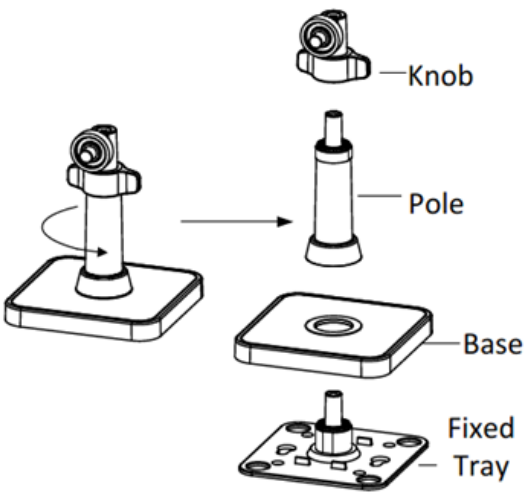
Mounting the Desktop Camera

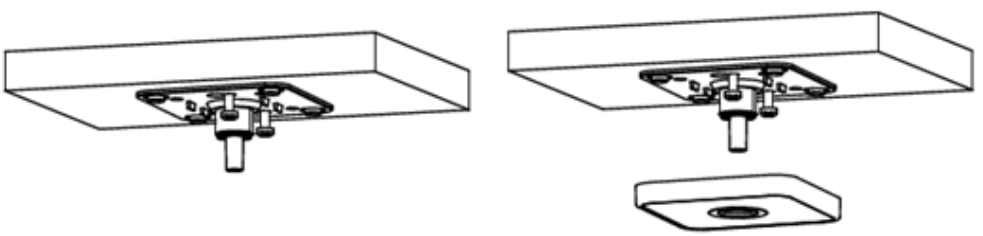


1. Drill the screw holes according to the drill template.



2. Disassemble the 3-axis bracket. Hold the base with one hand, and rotate the pole anticlockwise to disassemble the pole from the base.

3. Install the fixed tray to the ceiling with the supplied screws.
4. Install the base to the fixed plate.



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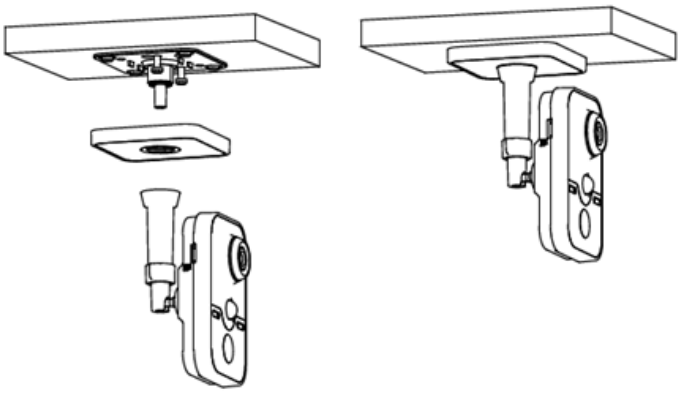
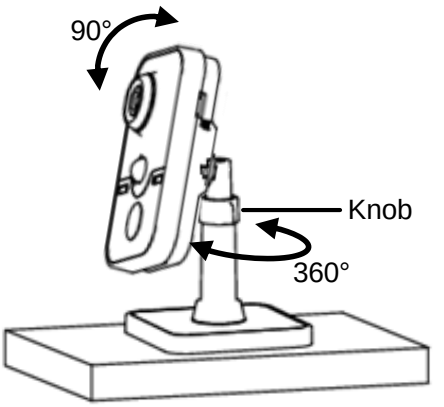


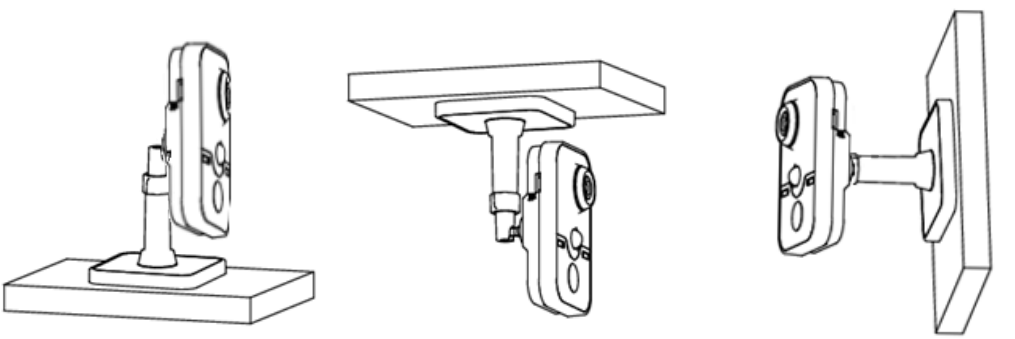
5. Install the camera to the bracket.



6. Adjust surveillance angle

7. Loosen the knob to adjust the panning position and tilting position.

8. After adjusting the angle of the camera to the desired position, fasten the knob.



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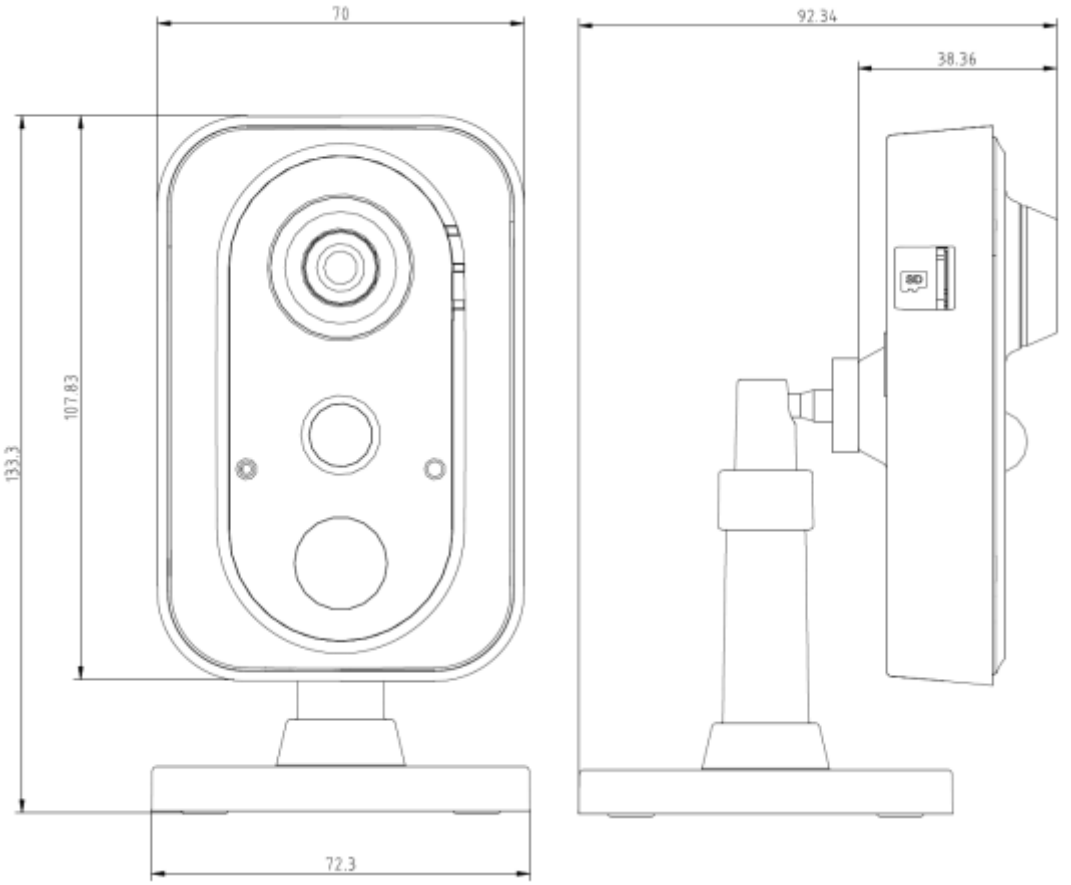
Desktop Camera Dimensions



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Quick Setup

Note: If the light source where the camera is installed experiences rapid, wide variations in lighting, the camera may not operate as intended.

To quickly put the camera into operation:

1. Prepare the mounting surface.
2 Mount the camera using the appropriate fasteners. See “Mounting the Wedge Camera” on page 10 or “Mounting the Desktop Camera” on page 13.
3. Connect the camera to the local network via Ethernet or Wi Fi.
4. Learn the camera into the UltraSync App using the “Scan for New Cameras” button in **Settings > Cameras**

Setting up Ethernet/Wi Fi transmission

Wi Fi transmission distance

The Wi Fi transmission distance/range of the camera is approximately 50 m (164 ft.) in open air applications.

Note: The transmission distance may vary due to the presence of physical obstacles, such as trees, walls, elevators, fire doors, furniture, etc. Avoid very solid walls and metallic objects in the transmission path.

Other Wi Fi networks (for example Wi Fi, WiMAX) operating on 2.4 GHz and certain types of devices (e.g., microwave oven or point-to-point Wi Fi transmission) can cause interference with your network. The result would lead to a reduction in transmission distance/range.

Note: It is highly recommended to use a dedicated router for all UltraSync installations that include cameras.

- Removes concern of homeowners changing their Wi-Fi Password, resulting in a call to update.
- Maintains privacy for the homeowner’s for Wi-Fi Network Password.
- Reduces the risk of local communication issues between the router, cameras and UltraSync Panels.

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Wi Fi Signal Strength

Wi Fi signal strength can be checked in the Network section of the TruVision Browser. Use the scale below to measure if actions are needed to improve performance.

Below 65 Poor	65-75 Good	75-85 Very Good	85+ Excellent

85+ – Excellent:

No additional actions needed and default video resolutions settings may be increased if desired.

75-85 – Very Good:

No additional actions needed to increase signal strength. It is not recommended to increase video resolution settings.

65-75 – Good:

It is recommended to use a Wi Fi repeater or Powerline adapter to increase signal strength. Alternatively, video resolutions settings may be reduced to minimize poor video quality.

Below 65 – Poor:

It is not recommended to use the camera with a signal strength below 65. Video streams will likely not work below this level.

A Wi Fi repeater or Powerline adapter should be used to increase signal strength.

Devices Supported For Ad Hoc Installation

Apple iOS, PC – Windows XP, 7, 8

Devices NOT Supported For Ad Hoc Installation

Android, Windows Mobile, Blackberry

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Add Cameras to a Wi Fi Network

RECOMMENDED METHOD
(using temporary Ethernet connection for setup)

Note: It is highly recommended to use a dedicated router for all UltraSync installations that include cameras.

- Removes concern of homeowners changing their Wi-Fi Password, resulting in a call to update.
- Maintains privacy for the homeowner's for Wi-Fi Network Password.
- Reduces the risk of local communication issues between the router, cameras and UltraSync Panels.

1. Apply power to the camera using the included transformer.

   Note: Power up may take 1-2 minutes

2. Connect the camera to your router with an Ethernet cable.
3. Launch TruVision Device Manager.

   Note: Use the included CD or download at www.interlogix.com/video

4. Verify that the camera is found in the main camera selection window.
5. Select the camera you would like to configure.
6. In the Password field, enter the default password of **1**-**2**-**3**-**4** and press **Save**.
7. In the main camera selection window, select the camera you would like to configure and double click the IPV4 Address to launch TruVision IP Camera Configurator in a browser.

   Note: You may also manually enter the camera's IP Address in your desired internet browser.

8. Enter the default Username and Password and select **Login**.

   Note: A pop-up may appear instructing an immediate password change. Select OK.

9. Select Configuration on the top menu.
10. Select **Network** on the left menu.
11. Select **Wi Fi** on the middle tab.
12. Select the desired Wi Fi network from the **Wireless List**.
13. Enter **Wi Fi Network Passphrase** in Key 1 Section.

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14. Click **Save** on the bottom of the screen.

Note: Do not hit Connect in the WPS Section.

15. Below the Key 1 box, verify that “Your Network” is now showing connected.
16. Repeat steps for any additional cameras.

Note: Do not exit the TruVision Camera Configurator browser.

You are now connected to the network via Wi Fi!

Add Cameras to UltraSync

Ensure proper installation of camera hardware and adding cameras to network before adding cameras to UltraSync.

Note: Make sure camera and UltraSync intrusion panel are on the same local area network. Applications where the Intrusion panels uses cellular only (no Wi Fi or Ethernet connection) are not compatible with this camera.

Note: For detailed information on how to setup the UltraSync app, add locations, and login as an installer, reference the intrusion panel installation guide.

1. From your iOS or Android device, open the UltraSync App and log in to the site as the installer.
2. Click **More** on the bottom of the Screen, then Settings.
3. Select **Cameras** under Settings.
4. Select **Scan for New Cameras**.
5. “Success!” message will pop-up after a few moments.

Note: "Success" message appears after a camera scan was executed. This does not indicate cameras were added to the system.

6. The IP Address and MAC Address should automatically populate for all cameras on the network. Scroll through cameras using the camera selection list to verify connected cameras.
7. Click **Save**.

Note: Camera may take up to 1-2 minutes to finalize association with intrusion panel and show in cameras tab.

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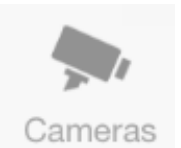
Reboot Cameras

8. Reopen TruVision IP Camera Configurator (Browser)
9. Select **System** from the menu on the left.
10. Select **Maintenance** from the middle menu.
11. Select **Reboot**.
    i) Select OK when asked if you want to reboot the unit.
    ii) **Note**: Reboot may take 1-2 minutes.
12. Disconnect the Ethernet cable from the camera.
13. Go to the **Cameras Tab** in the UltraSync App to verify live video.

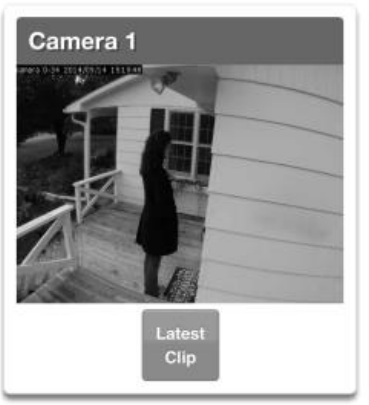
Your Camera installation is now complete!

View Live Stream and Latest Clip

1. Click **Cameras** tab on bottom of the screen.



2. All available cameras will be shown.



3. Click **Live Stream** to view a live feed of a specific camera.

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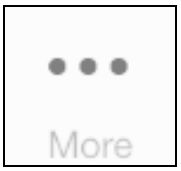
4. Click **Latest Clip** to view the last recorded clip from a specific camera.

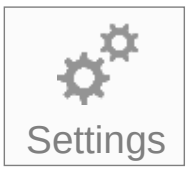
Program Event Triggered camera clips

Cameras can be programmed to automatically record when selected events occur. This is achieved by creating a scene.

1. Click **More** on the bottom of the screen.



2. Click **Settings**.



3. Select **Scenes** under Settings Selector.

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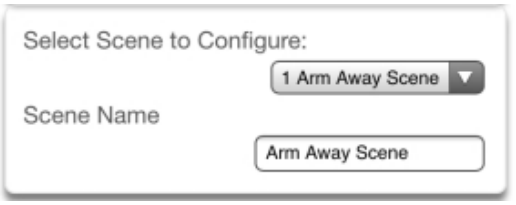
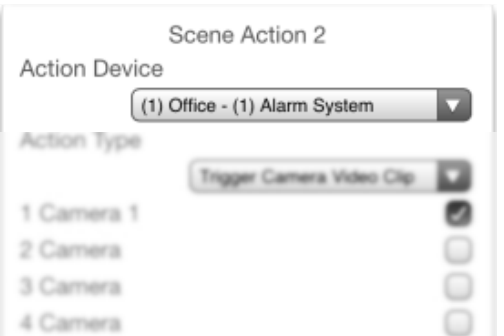
4. Select the **Scene to Configure** and type **Scene Name**.



5. Select the **Scene Trigger**.

6. Select **Alarm System** under Action Device.



7. Select **Trigger Camera Video Clip** under Action Type.

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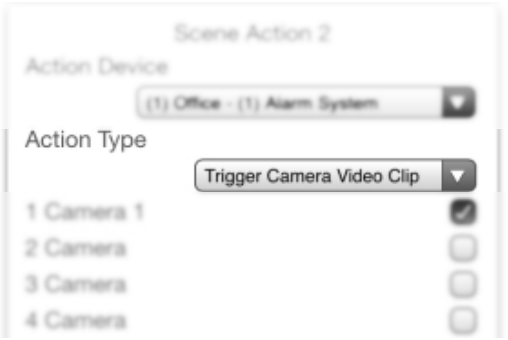

8. Select the Camera(s) which will record when the scene is triggered.

9. Clips are recorded on the Micro SD card installed in the camera and are linked to events in History.

See page 22 to see how to view event triggered clips.

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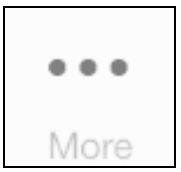
View Event Triggered clips in History

1. Click **More** tab on bottom of the screen.



2. Click **History**.

3. Find the Event you wish to view using **Oldest**, **Prev**, **Next**, and **Latest** buttons.

4. Once you find the clip you wish to view, click **Play Video Clip**.

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Remove Camera from UltraSync (if needed)

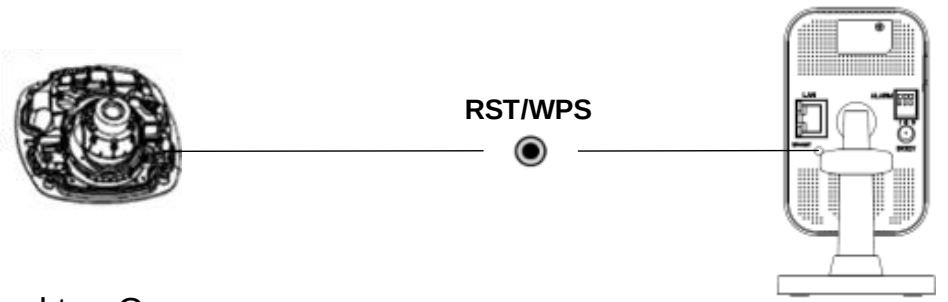
1. Click the **More** tab on the bottom of the Screen.
2. Click **Settings**
3. Select **Cameras** under Settings Selector
4. Select the camera you with to remove.
5. Delete text in Camera **Name**, **IP Address** and **MAC Address**.
6. Click **Save**.

Note: To remove all cameras from UltraSync, go to Advanced Settings and use **SHORTCUT 910.22.**

Reset Cameras to Factory Default (if needed)

If needed, the cameras can be reset to factory default.

Wedge Camera:
Remove the camera cover, remove power from camera, then press and hold the RST/WPS button, apply power to camera and continue holding RST/WPS button for 20 Seconds.



Desktop Camera:
1. Enter the Maintenance interface:
Configuration > Basic Configuration> System > Maintenance
Or Configuration > Advanced Configuration> System > Maintenance
2. Click Restore or Default to restore the default settings.

You can also use the RESET button on the desktop camera to default the camera.

Note: After restoring the default settings, the IP address is also restored to the default IP address.

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Change Default Camera Settings
(Via TruVision Navigator)

1. From a computer or mobile device that is connected on the same network as the camera, type in the IP address of the camera into the device's browser.
2. Login using default login
   a. Login: admin
   b. Password: 1234
3. Change settings as desired such as video quality, frame rate, pre and post recording times.
4. For detailed instructions on using TruVision Navigator, go to *www.interlogix.com/video*

Note: To find the IP address of a camera connected to UltraSync, go to **Settings > Cameras** in the UltraSync App.

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Alternatives for Adding Cameras

via Wi Fi (using Windows PC for setup)

1. Power up the camera. (Boot up may take 1-2 minutes)
2. From your Windows PC, find and connect to your camera in the Wi Fi network list.
3. Go to **Network and Sharing Center**.
   Control Panel > Network and Internet > Network and Sharing Center.
4. Click Change Adapter Settings on left.
5. Right click **Wireless Network Connection** and select **Properties.**
6. Click Internet Protocol Version 4 (TCP/IPv4) and click Properties.
7. Click "Use the following IP address", enter the info below, and then click OK.
   a) IP address: **192.168.2.71**
   b) Subnet mask: **255.255.255.0**
8. Open Browser (Firefox, Chrome, IE8) and enter the camera's IP Address into the browser's address bar.
   a) Camera's Default IP Address is **192.168.2.70.**
9. TruVision Configurator will appear. Enter Credentials below.
   a) User Name: **admin**
   b) Password: **1-2-3-4**
10. Click **Configuration** on the top menu.
11. Click **Network** on the left menu.
12. Click **Wi Fi** on the middle tab.
13. Select your network from the **Wireless List**.
14. Enter Wi Fi Network Passphrase in **Key 1** Section.
15. Click **Save** on the bottom of the screen.

via Ethernet (non-DHCP, using iOS Device for setup)

1. Power up the camera. (Boot up may take 1-2 minutes)
2. From your iOS device, go to **Settings**, then **Wi Fi**.
3. Find and select your camera (Listed under Devices)
4. Once connected, hit the info circle on the right
5. Under IP Address, hit **Static** and enter the info below.
   a) IP Address: **192.168.2.71**
   b) Subnet Mask: **255.255.255.0**
6. Open Mobile Browser. (Safari)
7. Enter the camera's default IP Address into the address bar.
   a) **192.168.2.70**
8. TruVision Configurator will appear. Enter Credentials below.
   a) User Name: **admin**
   b) Password: **1-2-3-4**
9. Click **Configuration** on the top menu.
10. Click **Network** on the left menu.
11. Change LAN settings to desired configuration.
    a) Change the **IPv4 Address** and **IPv4 Subnet Mask** to match the router if a static IP Address is desired.
       i. You must change the static IP address to something different than the default 192.168.2.70 if more than one camera is used on the network.
       ii. Make sure to use the Test button to validate IP Address is not already assigned to another device in the network.
12. Click **Save** on the bottom of the screen.
13. Connect the camera via Ethernet to the network and power cycle the camera.

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via Ethernet (non-DHCP, using Windows PC for setup)

1. Power up the camera. (Boot up may take 1-2 minutes)
2. From your Windows PC, find and connect to your camera in the Wi Fi network list.
3. Go to **Network and Sharing Center**.
   Control Panel > Network and Internet > Network and Sharing Center.
4. Click Change Adapter Settings on left.
5. Right click **Wireless Network Connection** and select **Properties.**
6. Click Internet Protocol Version 4 (TCP/IPv4) and click Properties.
7. Click "Use the following IP address", enter the info below, and then click OK.
   a) IP address: **192.168.1.71**
   b) Subnet mask: **255.255.255.0**
8. Open Browser (Firefox, Chrome, IE8) and enter the camera's IP Address into the browser's address bar.
   a) Camera's Default IP Address is ***192.168.1.70.***
9. TruVision Configurator will appear. Enter Credentials below.
   a) User Name: **admin**
   b) Password: **1-2-3-4**
10. Click **Configuration** on the top menu.
11. Click **Network** on the left menu.
12. Change LAN settings to desired configuration.
    a) Change the **IPv4 Address** and **IPv4 Subnet Mask** to match the router if a static IP Address is desired.
       i. You must change the static IP address to something different than the default 192.168.1.70 if more than one camera is used on the network.
       ii. Make sure to use the Test button to validate IP Address is not already assigned to another device in the network.
13. Click **Save** on the bottom of the screen.
14. Connect the camera via Ethernet to the network and power cycle the camera.

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Troubleshooting

Troubleshooting/FAQ		
1.	Camera is not showing in list of Wi Fi networks.	
Cause		**Solution**
The camera takes up to 90 seconds to boot up.		*It will not show in Wi Fi Networks until this is complete.*
The camera has previously been setup and ad hoc mode was turned off.		*Perform a factory reset to broadcast the camera again.*
Certain mobile devices do not support ad hoc mode. iOS and Windows devices are known to support Ad hoc, Android and Windows Mobile devices typically do not support Ad hoc mode.		*If your device does not support ad hoc mode, install the camera using a Windows PC.*
2.	The camera does not add to the UltraSync network when I perform the “Scan for Cameras” Function	
Cause		**Solution**
Older firmware versions do not support cameras.		*Make sure your panel is updated to the XXXXXX-04 Firmware or newer.*
The camera will not work if the devices are not on the same network.		*Make sure your camera and ZeroWire Panel are on the same network.*
ZeroWire must be using IP to work with the cameras.		*Make sure your ZeroWire panel is not installed using a cellular radio only.*
Make sure you are not adding cameras on a network that already has a high number of cameras installed on the same network. This is unusual, but may be common in testing environments.		*Put ZeroWire and the cameras on their own router and this should solve the problem.*

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3.	The camera was added in the setup process, but the video doesn't show in the Cameras tab.

Cause	Solution
After completing the setup process, the camera may take up to 2 minutes to full sync and show in the UltraSync App.	*Wait for the process to complete*
	Make sure your camera is still connected to the network.
	If video still doesn't show, go back into setup and perform the "Scan for Cameras" function again.

4.	Live Video isn't giving good quality. It is choppy, shows gray, etc.

Cause	Solution
Check to make sure your camera's Wi Fi and/or Ethernet connection speeds are not poor.	*If Wi Fi connection speeds are poor. It is recommended to use a Wi Fi repeater to increase signal strength.*
The cameras default settings are setup to work on a strong home network.	*In some cases, low video settings may be required to achieve a smooth video. Use the TruVision Browser to change the cameras video settings.*

5.	Video Clips take a long time to load.

Cause	Solution
The cameras default settings are setup to have video clips start playing in the UltraSync App within 15 seconds (On a strong network). If default settings were changed to longer clip times or higher video quality, the amount of time needed to pull the clip will be higher.	*Lower the quality or length of clips to shorten load times.*

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Specifications

UltraSync Wi Fi IP Wedge Camera

Electrical	
Voltage input	12 VDC, PoE (IEEE 802.3af)
Power consumption	Max. 5 W
Wi Fi parameters	
Wi Fi standard	IEEE802.11b/g/n
Frequency range	2.4 to 2.4835 GHz
Communication bandwidth	Support 20/40 MHz
Security	64/128-bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK, WPS
Transmission rate	11b: 11Mbps, 11g: 54Mbps, 11n: up to 150Mbps
Transmission range	Up to 50 m Varies depending on the actual working environment.

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UltraSync Wi Fi IP Desktop Camera

Electrical	
Voltage input	DC12V±10%, PoE (IEEE 802.3af)
Power consumption	Max. 5.9W
Wi Fi parameters	
Wi Fi standard	IEEE802.11b/g/n
Frequency range	2.4 to 2.4835 GHz
Communication bandwidth	Support 20/40 MHz
Security	64/128-bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK, WPS
Transmission rate	11b: 11Mbps, 11g: 54Mbps, 11n: 150Mbps
Transmission range	Up to 50 m Varies depending on the actual working environment.

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Manufacturer

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Authorized EU manufacturing representative:
UTC Fire & Security B.V.
Kelvinstraat 7, 6003 DH Weert, The Netherlands

Certification

N4131

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio technician for help.

CC Caution

To assure continued compliance, use only shielded interface cables when connecting to computer or peripheral devices. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Federal Communication Commission (FCC) Radiation Exposure Statement

This equipment complies with FCC radiation exposure set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm (8 inches) during normal operation.

EU Conformity Statement

This product and – if applicable – the supplied accessories too are marked with " CE" and comply therefore with the applicable harmonized European standards listed under the EMC Directive 2014/30/EU, the RoHS Directive 2011/65/EU, RE Directive 2014/53/EU.

Industry Canada ICES-003 Compliance

This device meets the CAN ICES-3 (B)/NMB-3(B) standards requirements.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) this device may not cause interference, and

(2) this device must accept any interference, including interference that may cause undesired operation of the device.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

This equipment should be installed and operated with a minimum distance 20cm between the radiator and your body.

Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.

National Restrictions

This device is intended for home and office use in all EU countries (and other countries following the EU directive 2014/53/EU) without any limitation except for the countries mentioned below:

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Country	Restriction	Reasons/remarks
Bulgaria	None	General authorization required for outdoor use and public service
France	Outdoor use; limited to 10 mW e.i.r.p. within the band 2454-2483.5 MHz.	Military Radiolocation use. Refarming of the 2.4 GHz band has been ongoing in recent years to allow current relaxed regulation. Full implementation planned 2012
Luxembourg	None	General authorization required for network and service supply(not for spectrum).

Annex 3 B and A Wideband Data Transmission systems 2400.0-2483.5 MHz:

Country	Restriction	Reasons/remarks
Norway	Implemented	This subsection does not apply for the geographical area within a radius of 20 km from the centre of Ny-Ålesund.
Italy	Implemented	The public use is subject to general authorization by the respective service provider.
Russian Federation	Limited implementation	**1. SRD with FHSS modulation** 1.1. Maximum 2.5 mW e.i.r.p. 1.2. Maximum 100 mW e.i.r.p. Permitted for use SRD for outdoor applications without restriction on installation height only for purposes of gathering telemetry information for automated monitoring and resources accounting systems. Permitted to use SRD for other purposes for outdoor applications only when the installation height is not exceeding 10 m above the ground surface. 1.3 maximum 100 mW e.i.r.p. indoor applications. **2. SRD with DSSS and other than FHSS wideband modulation** 2.1. Maximum mean e.i.r.p. density is 2 mW/MHz. Maximum 100 mW e.i.r.p. 2.2. Maximum mean e.i.r.p. density is 20 mW/MHz. Maximum 100 mW e.i.r.p. It is permitted to use SRD for outdoor applications only for purposes of gathering telemetry information for automated monitoring and resources accounting systems or security systems. 2.3. Maximum mean e.i.r.p. density is 10 mW/MHz. Maximum 100 mW e.i.r.p. indoor applications.
Ukraine	Limited implementation	e.i.r.p. ≤100 mW with built-in antenna with amplification factor up to 6 dBi.

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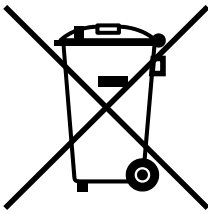
The following information shall also be included in the case of radio equipment intentionally emitting radio waves:

(a) frequency band(s) in which the radio equipment operates;

(b) maximum radio-frequency power transmitted in the frequency band(s) in which the radio equipment operates.



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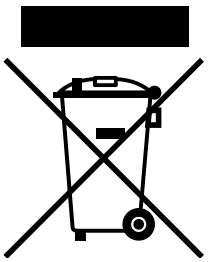

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Contact information

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