



XG1000 GATEWAY
USER'S MANUAL ///



INTRODUCTION ///

The **XG1000 Gateway** is a small dedicated computer. It allows you to access and control cameras and other devices in your home, and make this information available to you wherever you are. You can access the XG1000 from any PC (must be running Windows XP or 2000) with an internet connection anywhere in the world. You can even use the XG1000 from your cell phone. You only need to use a PC to set up your XG1000. From then on, no PC is required for the XG1000 to function.

During setup, you will use your PC to access the Gateway control pages through a web browser interface. Once it is set up, you can access your cameras and other devices through a remote service account web site. For security reasons, both the Gateway and Remote Account are protected with ID's and Passwords.

Once the Gateway is installed, most of the interaction with the system will be done through the remote service. You will use a standard internet browser to access this web site. This can be on the same PC that you used to set the system up, or any other PC that has an internet connection. No special software is required other than a browser plug-in to view live video, which installs automatically the first time you use it.

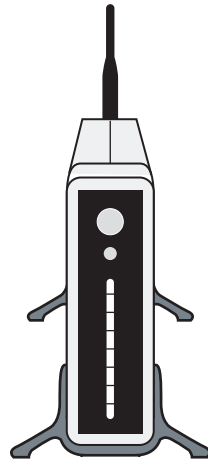
The system uses IP cameras. These are devices that communicate through normal internet cabling. If you do not wish to run new Ethernet wiring in your home, you can use Power Line Communication modules (PLC's) to use the existing power outlets in your home, instead.

In addition to the cameras, you can also use sensor modules in your home to monitor temperature, detect a door or window opening, wet conditions and motion. These are battery powered devices that communicate wirelessly with the Gateway. You can even turn lights and appliances on and off, by purchasing optional power controllers.

WITH YOUR REMOTE ACCOUNT YOU CAN:

- View Live Video
- Check Device Status
- Arm and Disarm Devices
- Set Up Rules to Perform Actions Based on Events or Time of Day
- Record Snapshots and Video Clips
- Review Archived Events

If you have a JAVA enabled cell phone, you can access most of the Gateway functions remotely through the phone. You need to download an application to your phone to do this. Other cell phones can receive text notifications, but cannot view live video or control devices.



FIRST TIME SETUP ///

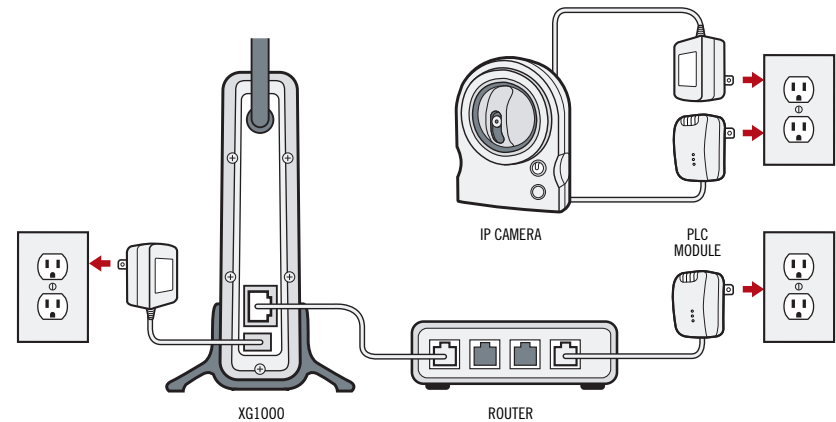
Your internet connection and router should be functional before proceeding with this installation.

IN THE FOLLOWING STEPS YOU WILL:

- Install the Hardware
- Install the Software
- Set Gateway ID and Password
- Register the Gateway with the Remote Account
- Discover Sensors and Cameras
- Set Up Your Router
- Download Software For Your Phone (Optional)

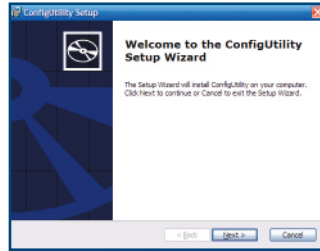
HARDWARE CONNECTION:

Connect the Gateway to your router using the supplied Ethernet cable. Apply power to the Gateway using the AC adapter. The PC should already be connected to your router or home network device. Next, connect a camera to the system. You can plug a camera directly into your router using an Ethernet cable, or you can use the PLC modules as shown in the diagram. Connect the AC power adapter to the camera, as well.



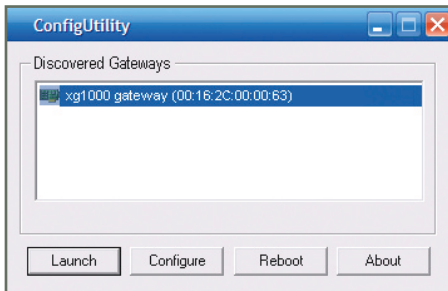
INSTALL SOFTWARE:

Insert the Installation Software CD into the drive of your PC (not compatible on a MAC). The software installer should start automatically. If it does not start, use Windows Explorer to locate the CD drive and double click on “Setup.exe”. Follow the on-screen instructions to complete the software installation.



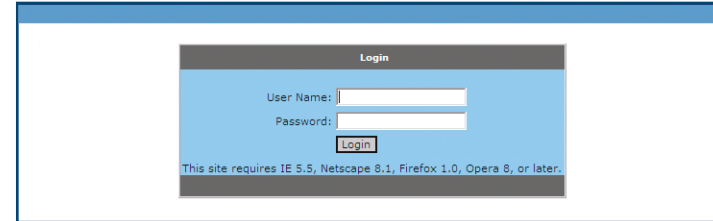
LAUNCH:

Under the PC Start menu, select **Start->Programs->Xanboo->ConfigUtility** or **Start->All Programs->Xanboo->ConfigUtility** to start the program. After it has started, it may take up to 2 minutes to find your Gateway and list it. When the message “starting up” goes away, the XG1000 Gateway boot-up has completed and the “Launch” button is enabled. Press the ‘LAUNCH’ button.



SET GATEWAY USER NAME AND PASSWORD:

Your Internet browser will open and present you with a set up page. For security reasons, you must select a **Gateway User Name** and **Password**. You may want to use the same User ID and Password that you created when signing up for the remote service. Write these down in a safe place, you will need these every time you need to access the Gateway. On the next screen, log in to the Gateway, using the new Gateway User Name and Password. You should see the Gateway “Main” page.

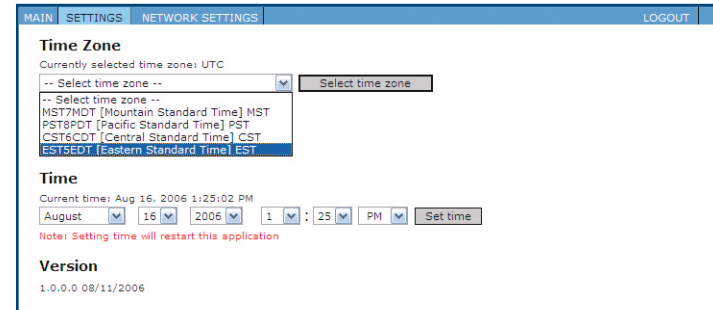


TIME ZONE SETUP:

You must set the time zone in your Gateway so that events are time stamped with the correct information. This will also ensure that events you have set up to occur at certain times will perform as expected.

To set the time zone, select the ‘SETTINGS’ tab. On the Settings page, select the proper time zone from the list and press ‘SELECT TIME ZONE’. The Gateway will reboot.

Please wait until you are asked to log in, again. **This may take two or three minutes.** Use the **Gateway User Name** and **Password** that you selected in the previous step to log in. You should be returned to the “Main” page. Under “UI Applications” press the link for ‘HOME MONITOR’ to continue the setup.



TIME ZONE SETUP

REGISTER GATEWAY:

A **Setup Wizard** will now guide you through the process of registering your Gateway with your Remote Account. Click **'NEXT'** to get to the Gateway registration page, where you will enter the **User Name** and **Gateway Installation Token** for your Remote Account, and press **'NEXT'**. You should get a confirmation of proper Gateway registration.

Setup Wizard

Step 1: Register your gateway with website

Your first step will be to register your Gateway. Enter User Name and Password (or registration token) from your website account, and then click 'Register Gateway' to continue the registration process.

Website User Name:

Password or registration token:

REGISTER YOUR GATEWAY

DISCOVER DEVICES:

The next step in the Setup Wizard is for the system to discover sensor devices. Discovery mode is automatically started. Install the supplied batteries and then press the **'DISCOVER'** button on the sensor. Wait until the screen indicates that the device is registered by listing the new device.

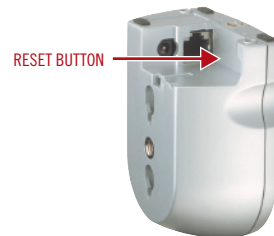


If you have additional devices, you can discover them now, in the same way, or you can do it after installation is complete. Wait until one device is registered before starting another one. Do not click the **'NEXT'** button, yet.

DISCOVER CAMERAS:

Ensure that your camera is plugged in and connected to a PLC module. Press the link labeled **'CAMERA REGISTRATION'**. Press the **'RESET'** button on the camera. Wait for the camera to be registered. If you have additional cameras, you can register them now, or wait till the system is operational. When you are done with registering cameras press **'CONTINUE'** and then **'NEXT'**.

The setup process is now complete. Press **'MONITOR DEVICES'** to see the devices you have installed.



MONITOR | DEVICE SETUP | ACCOUNT | EVENT LOG

Device Setup:

To detect and register new devices with your gateway click on 'Start Discovery' button.

- Discovery is stopped

To register new cameras go to [camera registration page](#).

Device	Device Type	Device ID	Delete	Configure
PanasonicCam 61:38	PanasonicCam	61:38	[Delete]	[Configure]
PanasonicCam FD:5D	PanasonicCam	FD:5D	[Delete]	[Configure]
Switch 17DB1	Switch	17DB1	[Delete]	[Configure]
Contact 69E8	Contact	69E8	[Delete]	[Configure]
Motion FC28	Motion	FC28	[Delete]	[Configure]
Temperature 8294	Temperature	8294	[Delete]	[Configure]
Water 6786	Water	6786	[Delete]	[Configure]
Repeater 1D0C7	Repeater	1D0C7	[Delete]	[Configure]

DISCOVERED DEVICES

PORT FORWARDING:

You will need to set up your router to allow communication between the Gateway and the Remote Monitor web site. This is what allows live video to be viewed remotely.

IN ORDER TO SET UP THE ROUTER, YOU NEED THE FOLLOWING INFORMATION:

- **The IP Address of Your Router:** This information can be found in your router documentation. Type this IP address into your browser to gain access to the router setup pages.
- **The Router Password:** The default password for your router can be found in the router documentation. If you have changed the password, use that, instead.
- **The IP Address of the Gateway:** Find the IP address of your Gateway by clicking on **'CONFIGURE'** in the ConfigUtility and write down the IP address.

Once you have access to the router setup pages, you will use the **"Port Mapping"** or **"Port Forwarding"** function. This may also be called **"Virtual Servers"**, or **"Gaming"**, the terminology differs between routers. **Map port 2047** on the Gateway IP address.

You can find information on port forwarding at the web site <http://www.portforward.com/routers.htm> At that web site, you can select your router type and get instructions on port forwarding. If you are still having difficulties, call us at **+886-4-24813677 for assistance**.

PORT RANGE FORWARDING

Port forwarding can be used to set up public services on your network. When users from the Internet make certain requests on your router, they will be redirected to the specified IP.

Customized Applications	Ext.Port	To	Ext.Port	Protocol TCP	Protocol UDP	IP Address	Enable
	2047	To	2047	<input checked="" type="checkbox"/>	<input type="checkbox"/>	192.168.40.8	<input checked="" type="checkbox"/>
	0	To	0	<input type="checkbox"/>	<input type="checkbox"/>	192.168.40.0	<input type="checkbox"/>
	0	To	0	<input type="checkbox"/>	<input type="checkbox"/>	192.168.40.0	<input type="checkbox"/>
	0	To	0	<input type="checkbox"/>	<input type="checkbox"/>	192.168.40.0	<input type="checkbox"/>
	0	To	0	<input type="checkbox"/>	<input type="checkbox"/>	192.168.40.0	<input type="checkbox"/>
	0	To	0	<input type="checkbox"/>	<input type="checkbox"/>	192.168.40.0	<input type="checkbox"/>

TYPICAL ROUTER PORT FORWARDING PAGE

MOBILE OPTION:

If you have a JAVA enabled cell phone you can access the system from just about anywhere. Just use your phone's web browser to download and install the application from <http://ehome.xanboo.com/mobile/j2me> and enter your Remote User ID and Password when prompted. Data rates will apply, so you may want to consider subscribing to a data package.



USING YOUR GATEWAY ///

NAVIGATION BAR:

The Navigation bar gives you access to all of the pages in the Gateway user interface. Just click on the tab to go to the particular page.

NAVIGATION BAR LINKS:

- **Monitor:** From here you can monitor the status of all of the devices that you have installed.
- **Device Setup:** You use this page to add new devices and cameras.
- **Account:** Get details of the installation and remote account.
- **Event Log:** View a list of events that have occurred in the Gateway.

MONITOR:

This page is an overview of the status of the system and all devices. At the top of the page is the system area. This shows the overall status of the Gateway and the state of the communication channel between the Gateway and the remote monitor site. You can click on the **'BASE UNIT'** link to quickly arm or disarm all devices.

MONITOR	DEVICE SETUP	ACCOUNT	EVENT LOG		
System Status At A Glance:					
Gateway		Status	Refresh status		
Communication with website		no problems detected	<input type="button" value="Refresh"/>		
Base unit		no problems detected	<input type="button" value="Refresh"/>		
Device		Status	Power (AC/DC)	QoS	Refresh status
PanasonicCam_61:38		disarmed	⚡	N/A	<input type="button" value="Refresh"/>
PanasonicCam_FP:SD		disarmed	⚡	N/A	<input type="button" value="Refresh"/>
Switch_170B1		on	⚡	90%	<input type="button" value="Refresh"/>
Contact_69E8		open, disarmec	DC: 57%	100%	-
Motion_EC28		disarmed	DC: 25%	83%	-
Temperature_8294		77F	DC: 100%	100%	-
Water_67B6		dry	DC: 74%	100%	-
Repeater_1D0C7		OK	⚡	100%	<input type="button" value="Refresh"/>

Note: Device testing and status update may take 30 seconds or more. Please allow enough time for the page to load.

MONITOR PAGE AND NAVIGATION

The main section of this page shows all cameras and wireless sensor devices that have been installed. Next to each device, there is a **"Status"** field which shows the current condition of each device. There is also an **icon** that represents the device. In general a green icon indicates proper functionality, yellow shows some temporary problem like marginal wireless communication. A red icon means that there is a problem with the device, such as dead batteries, or prolonged communication loss. Each device also has a short status message. This message varies depending on the device type (temperature sensors show the current temperature, contact sensors show open or closed, etc.).

The **"Power"** field indicates AC or battery power for each device. For battery powered devices the field shows an estimate of the current battery condition. You should replace the batteries when indicated. The **"QOS"** (Quality of Service) field is used only for wireless devices and indicates the quality of the communication channel between the Gateway and the particular device.

The system constantly examines the status of cameras and devices and displays the latest results. The **'REFRESH'** button on the right of each device will immediately get the current status of the device without waiting for the normal status refresh.

DEVICE SETUP:

This page shows all of the currently installed devices and gives you the opportunity to install new devices.

When you first enter the page, the **Device Discovery** process is turned off. To start discovery, press the **'START DISCOVERY'** button. To discover new sensors press the **'DISCOVER'** button on the device, and wait for the system to register it. You will know this is done when the device appears in the **Device List** on the bottom part of the page. As each device is registered, it is given a unique name. You can change this name, later, under **Device Configuration**, to something more meaningful.

If you want to add more devices, follow the same procedure for each device, but make sure to do only one at a time. When you are done, press **'STOP DISCOVERY'**, or let the discovery process stop automatically after about 15 minutes.

Device Setup:

Press 'discover' button on all wireless devices one at a time you want to register with your gateway. Once the device is detected and registered with the gateway it will appear on top of the device table shown below. Click on 'Stop Discovery' button when done or gateway will stop discovery automatically, 15 minutes after discovery started.

● Discovery is in progress... Discovered and registered new device: Contact 1F870

To register new cameras go to [camera registration page](#).

Device	Device Type	Device ID	Delete	Configure
Contact 1F870	Contact	1F870	[Delete]	[Configure]
PanasonicCam 61:38	PanasonicCam	61:38	[Delete]	[Configure]
PanasonicCam FD:5D	PanasonicCam	FD:5D	[Delete]	[Configure]
Switch 170B1	Switch	170B1	[Delete]	[Configure]
Contact 69E8	Contact	69E8	[Delete]	[Configure]
Motion FC28	Motion	FC28	[Delete]	[Configure]
Temperature 8294	Temperature	8294	[Delete]	[Configure]
Water 6786	Water	6786	[Delete]	[Configure]
Repeater 1D0C7	Repeater	1D0C7	[Delete]	[Configure]

DEVICE SETUP PAGE

To delete a sensor or camera press the **'DELETE'** link for the device. You will be asked to confirm the deletion. If you accidentally delete a device, you can simply re-discover it to get it back.

You can set some configuration details for individual devices by clicking on the **'CONFIGURE'** link for that device. The resulting pop up will vary from device to device. You can change the name of the device to something more descriptive of the way it is used. For example, instead of "PanasonicCam 1D:ED", you might want to call it "Front Door Camera". "Switch 798B" might become "Living Room Light". You can also configure devices from the remote monitor account.

The **Device Setup** page will also show any device groups that you have set up in the remote monitor account.

Camera Setup

Automatic detection of IP cameras on your LAN:

To discover new IP cameras you have to:

1. Reset the camera to factory defaults by pushing the reset button at the bottom of the camera.
2. Disconnect and reconnect back power to the camera after the reset operation.

MAC address	IP	Model & version	Status
00:80:F0:54:1F:A6	192.168.1.5	BL-C1/C10/C30 v.1.24C	Camera detected, registration in progress...

Configure or delete registered IP camera

IP Camera	Camera Type	IP and port	Delete	Configure
PanasonicCam 61:38	PanasonicCam	192.168.1.4:80	[Delete]	[Configure]
PanasonicCam FD:5D	PanasonicCam	192.168.1.2:80	[Delete]	[Configure]

CAMERA DISCOVERY PAGE

To add more cameras, press the link that says **'CAMERA REGISTRATION PAGE'**.

On the camera registration page, you will see two lists, the one on the top shows all of the cameras that the system has found, and the bottom list shows the cameras that are already installed. As the system registers new cameras they are moved from the top list to the bottom. If the status of a camera in the top list does not appear to be changing, you have to reset the camera to its factory default condition. Do this by pressing the **'RESET'** button on the side or the bottom of the camera. Then, wait a few seconds and pull the power cord out of the camera and put it back in to force the camera to restart. The system should now recognize the camera and register it.

ACCOUNT:

If you ever need to remove the Gateway from the remote monitor account, (ie. to move it to a different account) you can do so from this page. At the top of the page you can find the UserID of the remote monitor account that this Gateway is registered to. Just below that you can see the Gateway name. The name can be changed later from the Remote Monitor site, but not here in the Gateway pages. At the bottom of the page, you can select temperature units to be used, check the software version and verify the time zone.

You can remove the Gateway from the remote monitor account on this page. Press the **'REMOVE FROM SERVICE'** button. You will be asked to confirm this choice. Removing the Gateway from the remote monitor account will cause you to lose all of the device information. In other words, you will need to re-do all of the device discovery procedure. The next time you log in, you will go through the Gateway setup wizard, again.

Gateway Registration With Website

Currently, this gateway is registered to user: *lennytest*
Gateway name: *Home Monitor Gateway*

Removing this gateway from service (unregistering this gateway) will delete all device associations with this gateway. You will be unable to manage and control your devices until they are discovered again using a registered gateway.

[Remove from service]

Preferences

Temperature units: degrees [Select temperature units]

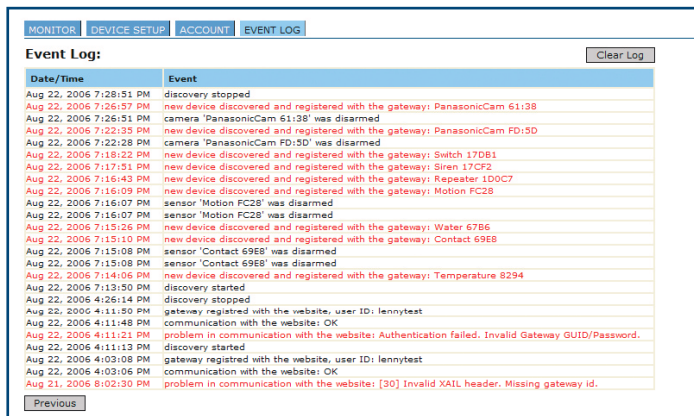
Currently selected time zone: UTC - Tue Aug 22 19:30:42 GMT 2006

Software version: 2.8.6.2 08/16/2006

ACCOUNT PAGE

EVENT LOG:

The Event Log is a list of significant things that have happened within the Gateway. The items are listed with the most recent items on top. Critical events are listed in red.



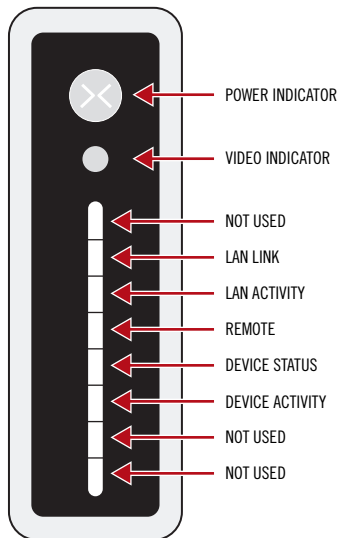
Date/Time	Event
Aug 22, 2006 7:28:51 PM	discovery stopped
Aug 22, 2006 7:26:57 PM	new device discovered and registered with the gateway: PanasonicCam 61:38
Aug 22, 2006 7:26:51 PM	camera 'PanasonicCam 61:38' was disarmed
Aug 22, 2006 7:22:35 PM	new device discovered and registered with the gateway: PanasonicCam FD:5D
Aug 22, 2006 7:22:28 PM	camera 'PanasonicCam FD:5D' was disarmed
Aug 22, 2006 7:18:22 PM	new device discovered and registered with the gateway: Switch 17DB1
Aug 22, 2006 7:17:51 PM	new device discovered and registered with the gateway: Siren 17CF2
Aug 22, 2006 7:16:43 PM	new device discovered and registered with the gateway: Repeater 1D0C7
Aug 22, 2006 7:16:09 PM	new device discovered and registered with the gateway: Motion FC28
Aug 22, 2006 7:16:07 PM	sensor 'Motion FC28' was disarmed
Aug 22, 2006 7:16:07 PM	sensor 'Motion FC28' was disarmed
Aug 22, 2006 7:15:26 PM	new device discovered and registered with the gateway: Water 67B6
Aug 22, 2006 7:15:10 PM	new device discovered and registered with the gateway: Contact 69E8
Aug 22, 2006 7:15:08 PM	sensor 'Contact 69E8' was disarmed
Aug 22, 2006 7:15:08 PM	sensor 'Contact 69E8' was disarmed
Aug 22, 2006 7:14:06 PM	new device discovered and registered with the gateway: Temperature 8294
Aug 22, 2006 7:13:50 PM	discovery started
Aug 22, 2006 4:26:14 PM	discovery stopped
Aug 22, 2006 4:11:50 PM	gateway registered with the website, user ID: lennytest
Aug 22, 2006 4:11:48 PM	communication with the website: OK
Aug 22, 2006 4:11:21 PM	problem in communication with the website: Authentication failed. Invalid Gateway GUID/Password.
Aug 22, 2006 4:11:13 PM	discovery started
Aug 22, 2006 4:03:08 PM	gateway registered with the website, user ID: lennytest
Aug 22, 2006 4:03:06 PM	communication with the website: OK
Aug 21, 2006 8:02:30 PM	problem in communication with the website: [30] Invalid XAIL header. Missing gateway id.

EVENT LOG PAGE

GATEWAY UNIT ///

INDICATORS:

There are ten indicators on the front of the Gateway.



XG1000 GATEWAY FRONT PANEL

FROM TOP TO BOTTOM, THE FUNCTIONS ARE:

- **Power Indicator:** Will light up **Blue** when power is applied.
- **Video indicator:** Shows when one or more cameras are in use by flashing **Green**.
- Not Used
- **LAN Link:** Shows proper Ethernet connection between the Gateway and the router with a solid **Green**
- **LAN Activity:** Shows network activity between the Gateway and other devices by flashing **Green**
- **Remote:** Shows the status of the remote service connection
 - **Green** indicates good communication with the remote site
 - **Amber** indicates that the Gateway has not been registered with the remote site, yet.
 - **Red** indicates no communication between the Gateway and the remote site.
- **Device Status:** Shows the worst case status of the devices on the "Monitor" page. If all devices are **Green** then this LED will show **Green**. If one or more devices are **Yellow** or **Red**, the LED will light accordingly.
- **Device Activity:** Flashes **Green** to show when the Gateway is communicating with one of the wireless devices.
- Not Used
- Not Used

BOOT SEQUENCE

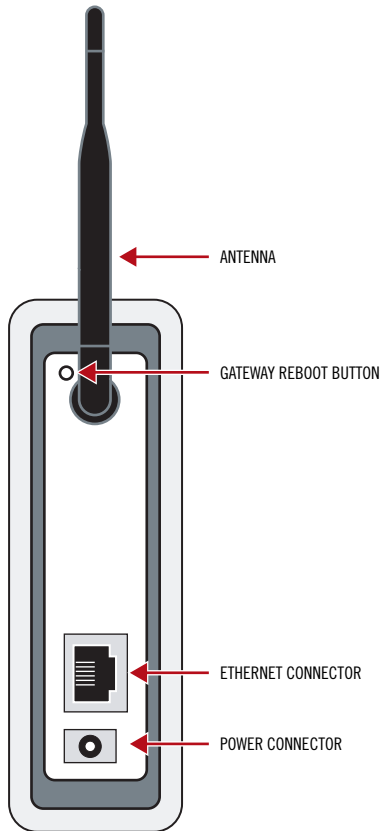
When the Gateway is first powered up, the bottom five LED's on the front panel go through a boot-up sequence. The lights start out as **Red**, go to **Amber** and then **Green**. The process takes about three minutes.

REAR PANEL:

The rear panel of the Gateway contains the ports for cable connections. The bottom round port is for the power. The AC adapter is plugged into this port. The other port is for the network cable. A standard Ethernet cable is connected between this port and your router.

The antenna on the back panel is used for communication between the Gateway and the wireless devices. It should normally be placed in an upright position. If you are having communication problems with sensors (as indicated on the “[Monitor](#)” page) you should try repositioning the antenna slightly.

If you are unable to access the Gateway through the ConfigUtility ‘**LAUNCH**’ button, you may need to reboot the unit. There is a recessed button on the back labeled ‘**REBOOT**’. This button will reboot the Gateway while retaining all of the internal settings. You can use the white reset tool that comes with each sensor device to activate this button. The system will go through the normal boot sequence.



XG1000 GATEWAY REAR PANEL

RESET BUTTON:

If you forget your Gateway User Name or Password, you need to reset the system in order to regain access. The [Video Indicator](#) on the front panel doubles as a Reset button. This button will reset the **Gateway User Name** and **Password**. It will also set the **Network Configuration** to the default values. You need to hold the button down for ten seconds in order to activate this function. After the system reboots, you will be prompted to enter a new Gateway User Name and Password. You can use the same values or create new ones. This procedure will not change the Gateway registration with the remote service or registered devices.