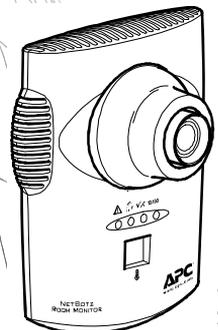




Installation and Quick Configuration Manual

NetBotz Room Monitor 355

NBWL0355
NBWL0356





This manual is available in English on the enclosed CD.

Dieses Handbuch ist in Deutsch auf der beiliegenden CD-ROM verfügbar.

Este manual está disponible en español en el CD-ROM adjunto.

Ce manuel est disponible en français sur le CD-ROM ci-inclus.

Questo manuale è disponibile in italiano nel CD-ROM allegato.

本マニュアルの日本語版は同梱の CD-ROM からご覧になれます。

Instrukcja obsługi w języku polskim jest dostępna na CD.

O manual em Português está disponível no CD-ROM em anexo.

Данное руководство на русском языке имеется на прилагаемом компакт-диске.

您可以从包含的 CD 上获得本手册的中文版本。

동봉된 CD 안에 한국어 매뉴얼이 있습니다 .

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Introduction

Product Description

The American Power Conversion (APC®) NetBotz® Room Monitor 355 functions as the central hardware appliance for a NetBotz security and environmental monitoring system. The NetBotz 355 can be installed anywhere in a room and includes an integrated camera and internal sensors that monitor temperature, humidity, dew point, air flow, and motion. It also includes four sensor ports for connecting temperature, humidity, smoke, door, vibration, spot fluid, and third-party dry contact and 0-5 V sensors. The integrated camera includes the following features:

- Image processor that generates images up to 1280 x 1024 resolution, 24-bit color, and up to 30 frames per second.



Note: The maximum frame rate describes the maximum number of images that the camera imager is capable of producing each second. The actual frame rate is dependent on the amount of available bandwidth and current resolution.

- Image Size: 7.7 mm x 6.1 mm (9.82 mm diagonal = 0.387 in).
- Field of View: 64° (H) x 53° (V) for all resolutions.
- User adjustable and switchable industry-standard CS-mount lens. CS-mount permits access to hundreds of different general purpose and special purpose lenses.

Attention: THE EQUIPMENT CONTAINS, AND THE SOFTWARE ENABLES, VISUAL RECORDING CAPABILITIES, THE IMPROPER USE OF WHICH MAY SUBJECT YOU TO CIVIL AND CRIMINAL PENALTIES. APPLICABLE LAWS REGARDING THE USE OF SUCH CAPABILITIES VARY BETWEEN JURISDICTIONS AND MAY REQUIRE AMONG OTHER THINGS EXPRESS WRITTEN CONSENT FROM RECORDED SUBJECTS. YOU ARE SOLELY RESPONSIBLE FOR INSURING STRICT COMPLIANCE WITH SUCH LAWS AND FOR STRICT ADHERENCE TO ANY/ALL RIGHTS OF PRIVACY AND PERSONALTY. USE OF THIS SOFTWARE FOR ILLEGAL SURVEILLANCE OR MONITORING SHALL BE DEEMED UNAUTHORIZED USE IN VIOLATION OF THE END USER SOFTWARE AGREEMENT AND RESULT IN THE IMMEDIATE TERMINATION OF YOUR LICENSE RIGHTS THEREUNDER.

Document Overview

The *NetBotz Room Monitor 355 Installation and Quick Configuration Manual* describes how to install a NetBotz Room Monitor 355, how to connect devices to the appliance, and how to configure network settings. After performing the configuration procedures in this manual, you can access your system through its software interface, perform additional configuration tasks, and begin monitoring the environment.

Additional Documentation

Unless otherwise noted, the following documentation is available on the CD provided with the device or on the applicable product page on the APC Web site, www.apc.com. To quickly find a product page, enter the product name or part number in the Search field.

NetBotz Appliance User's Guide – Includes all details for using, managing, and configuring a NetBotz system with one of the following appliances: NetBotz Room Monitor 355 (NBWL0355, NBWL0356), NetBotz Rack Monitor 450 (NBRK0450), NetBotz Room Monitor 455 (NBWL0455, NBWL0456), or NetBotz Rack Monitor 550 (NBRK0550).

Additional Options

The following options are available for the NetBotz 355. For more information about any of the options, contact your APC representative or the distributor from whom you purchased your APC product.

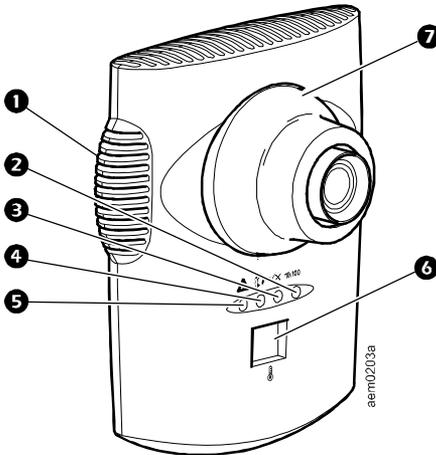
- Temperature Sensor (AP9335T)
- Temperature/Humidity Sensor (AP9335TH)
- NetBotz Spot Fluid Sensor (NBES0301)
- NetBotz Door Switch Sensor for Rooms or Third Party Racks (NBES0302)
- NetBotz Door Switch Sensor for APC Racks (NBES0303)
- NetBotz Dry Contact Cable (NBES0304)
- NetBotz 0-5 V Cable (NBES0305)
- NetBotz Vibration Sensor (NBES0306)
- NetBotz Smoke Sensor (NBES0307)

InfraStruXure-certified

This product is certified for use in APC InfraStruXure[®] systems.

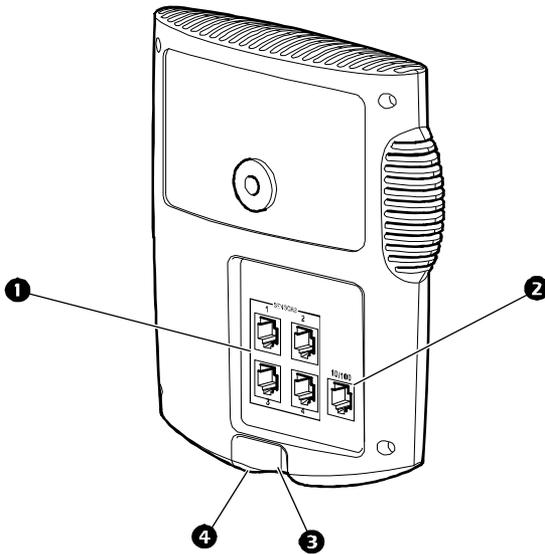
Physical Description

Front



Item	Description
1	Vented internal sensors Vented opening for airflow, temperature, and humidity sensors.
2	Network link LED Shows the status of the network connection. Blinks to indicate network traffic (green—connected at 10 Mbps; yellow—connected at 100 Mbps).
3	Power LED Indicates whether the unit is receiving power (green—receiving power; dark—not receiving power).
4	Camera LED Blinks steadily when the integrated camera is active.
5	Alert LED Indicates the alert status of the system. When more than one alert exists, the most severe will be indicated. <ul style="list-style-type: none">• Flashing once every eight seconds—Informational• Flashing once every four seconds—Warning• Flashing once every two seconds—Error• Flashing once every second—Critical• Flashing twice per second—Failure
6	Temperature display <ul style="list-style-type: none">• Displays the current temperature from 0 to 99 in Centigrade or Fahrenheit. Temperature reading from internal temperature sensor. If the temperature exceeds 99, the display will flash 99.• When the unit first receives power, displays the unique identifier number for one minute.• If an alert exists, flashes at the same rate as the Alert LED.• During a firmware upgrade, displays 88.
7	Lens housing Must be removed to change the focus of the integrated camera.

Rear



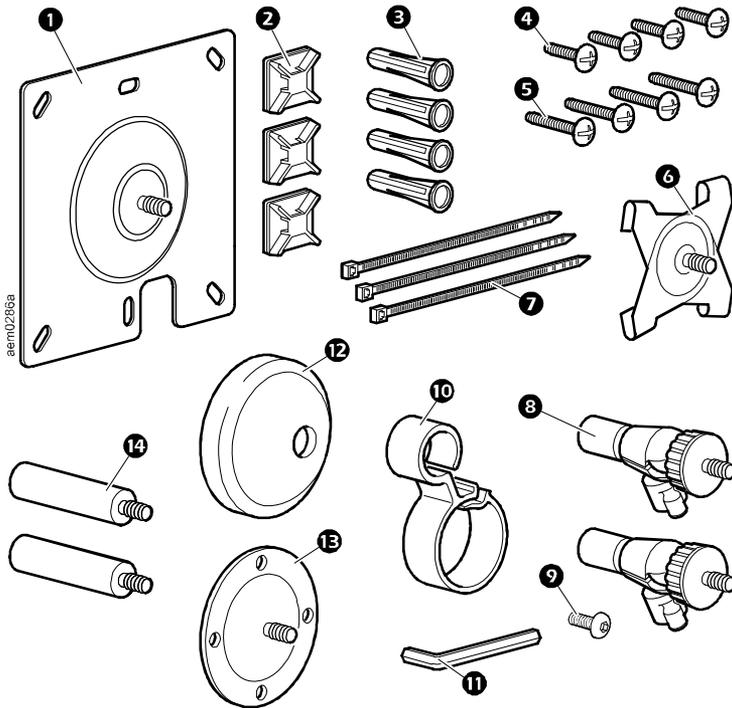
Item	Description
1 Sensor ports (4)	Used for connecting APC sensors, third-party dry-contact sensors, and standard third-party 0-5 V sensors. Third-party dry-contact state sensors require the NetBotz Dry Contact Cable (NBES0304). Standard third-party 0-5 V sensors require the NetBotz 0-5 V Sensor Cable (NBES0305).
2 10/100 Base-T network port	Provides for a 10/100 Base-T network connection and power through Power-over-Ethernet (PoE). (The appliance operates at 100 Base-T only.) Status and link LEDs indicate network traffic: <ul style="list-style-type: none">• Status LED—blinks orange and green at start-up; indicates the status of the network connection (solid green—IP address established; blinking green—attempting to obtain an IP address).• Link LED—blinks to indicate network traffic (green—connected at 10 Mbps; orange—connected at 100 Mbps).
3 USB port	Used to configure the appliance.
4 Reset	Used to restart the appliance.

Inventory

Inspect the contents of the package to ensure that the parts included match those shown below. Report missing or damaged contents to APC or your APC reseller. However, if damage was due to shipping, immediately report the damage to the shipping agent.



The shipping and packaging materials are recyclable. Please save them for later use or dispose of them appropriately.



Item Description

NetBotz Room Monitor 355—not shown

- ❶ Bracket mounting plate for electrical boxes
- ❷ Adhesive cable tie holders
- ❸ Mounting screw wall anchors
- ❹ 13-mm (0.5-in) machine screws (for electrical box)
- ❺ 19-mm (0.75-in) sheet metal screws (for wall or enclosure)
- ❻ T-bar mounting plate
- ❼ 203-mm (8-in) tie wrap
- ❽ Ball-joint adjuster arms
- ❾ Extender arm set screw
- ❿ Cable retainer
- ⓫ Allen wrench
- ⓬ Rubber bracket cover
- ⓭ Mounting plate
- ⓮ Extender arm

NetBotz Appliance Utility CD—not shown

Power-over-Ethernet injector power supply (100–250 VAC in, 48 VDC out) (only included with NBWL0356)—not shown

Power cord, 1.8 m (6 ft) Black, IEC-320-C14 to IEC-320-C13, RoHS Compliant (only included with NBWL0356)—not shown

Power cord, 1.8 m (6 ft) Black, NEMA 5-15P to IEC-320-C13, #14 AWG cord, RoHS Compliant (only included with NBWL0356)—not shown

Installation

Install the NetBotz 355

Choose an installation option that meets your needs. Take the following into consideration:



Caution: Only connect approved devices to ports on the NetBotz 355 as directed in this manual. Plugging in other devices may result in equipment damage.



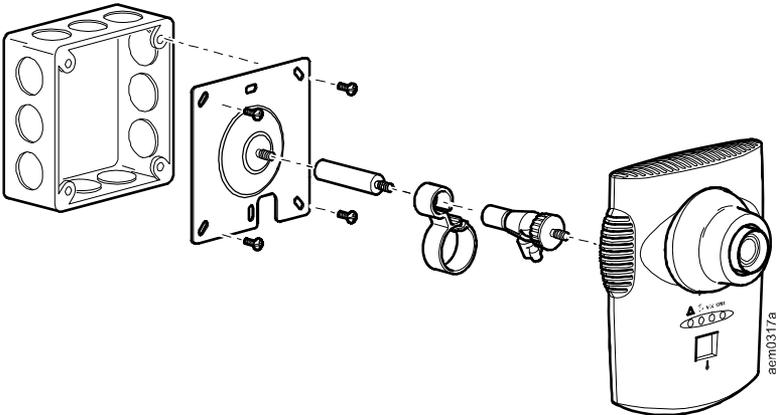
Note: Consider the location of the nearest network port.

Note: Make sure the camera will not be obstructed.

Note: Consider cable routing for all sensors that you plan to connect to the appliance.

Note: If the direction of airflow is known, the ideal position of the NetBotz 355 for measuring the airflow is directly facing the oncoming air.

Electrical box



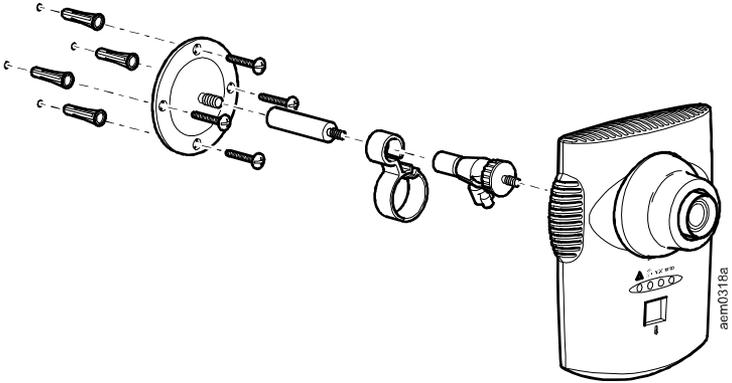
Wall



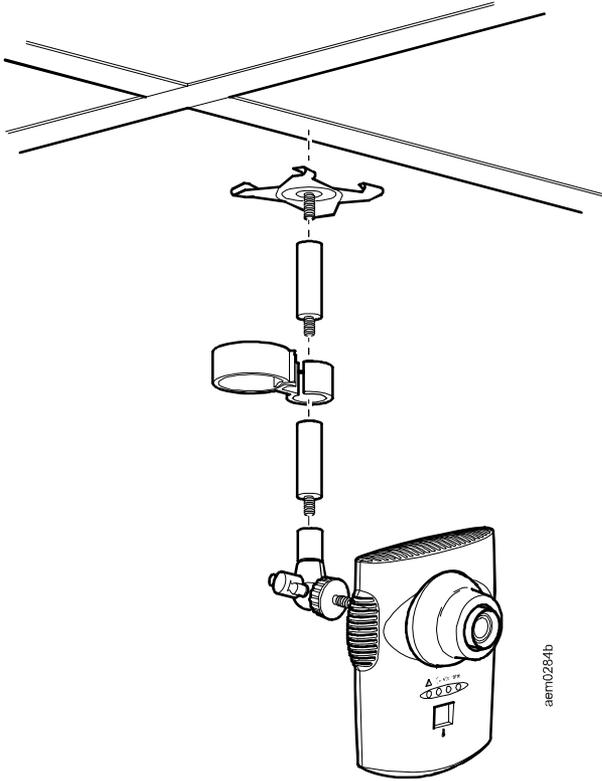
Note: Drill 4.76-mm (3/16-in) pilot holes for wall anchors.



Caution: Do not overtighten the screws.



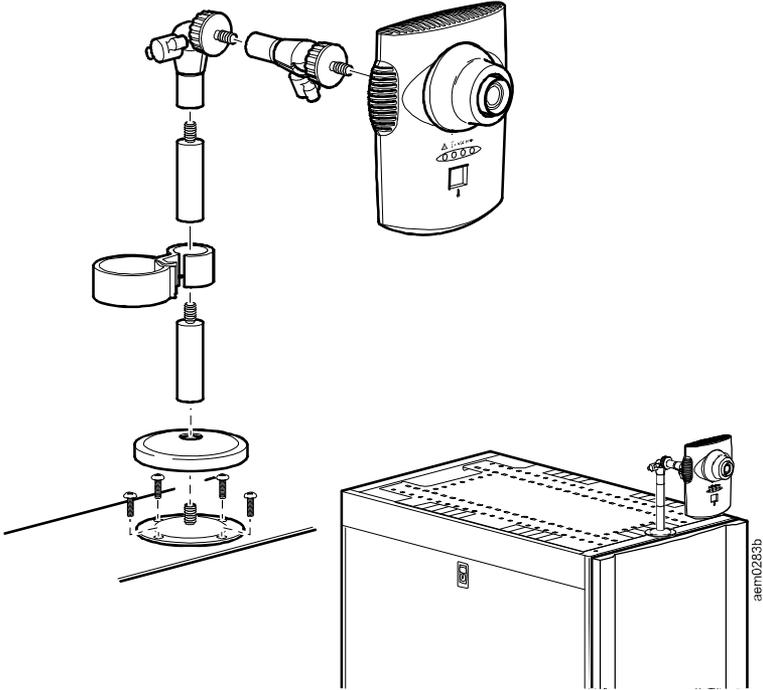
Ceiling



Enclosure



Note: Use a #32 drill to make four 2.94-mm (0.116-in) pilot holes.



Connect the NetBotz 355 to Your Network

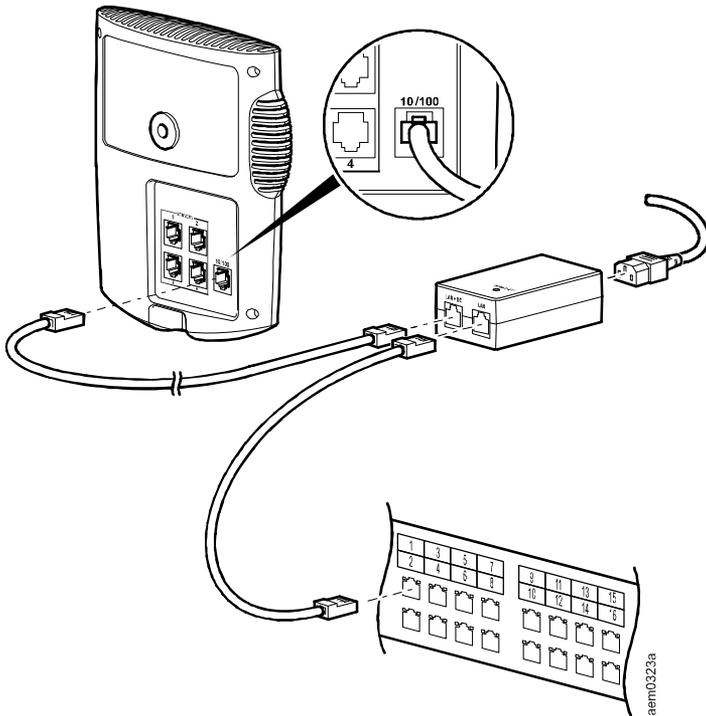
Power-over-Ethernet (PoE) injector



Caution: Before you energize the NetBotz 355, review the electrical specifications on page 19 to avoid overloading the circuit.

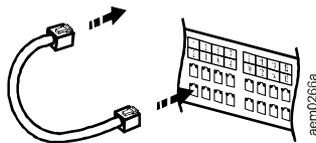


Caution: Be sure the appliance is properly grounded by plugging the power cord directly into a wall outlet or by verifying the ground path if you are using a power strip.



PoE-capable hub or switch

To appliance 10/100 Base-T network port



Connect Sensors to Sensor Ports

This procedure applies to the following sensors, which are supported by the NetBotz 355 and connect to the sensor ports:

- Temperature Sensor (AP9335T)
- Temperature and Humidity Sensor (AP9335TH)
- NetBotz Spot Fluid Sensor (NBES0301)
- NetBotz Door Switch Sensor for Rooms and Third Party Racks (NBES0302)
- NetBotz Door Switch Sensor for APC Racks (NBES0303)
- NetBotz Dry Contact Cable (NBES0304)
- NetBotz 0-5 V Cable (NBES0305)
- NetBotz Vibration Sensor (NBES0306)
- NetBotz Smoke Sensor (NBES0307)

Connect APC and third-party sensors to the four ports labeled **Sensors** on the NetBotz 355.

- Third-party dry contact sensors require the NetBotz Dry Contact Cable (NBES0304). To connect a sensor to the cable, follow the instructions provided with the sensor and the instructions provided with the cable.
- Standard third-party 0-5 V sensors require the NetBotz 0-5 V Sensor Cable (NBES0305). To connect a sensor to the cable, follow the instructions provided with the sensor and the instructions provided with the cable.
- If a sensor cable is not long enough, use an RJ-45 coupling (provided with some sensors) and standard CAT-5 cabling to extend the cable up to 15 m (50 ft) for a Temperature/Humidity Sensor (AP9335TH) or a Temperature Sensor (AP9335T) and up to 30.5 m (100 ft) for all other supported sensors.

Adjust the Lens

View the camera feed during the adjustment of the camera in order to correctly adjust the focus of the feed and field of view settings.

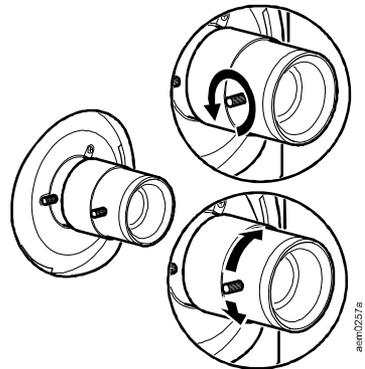
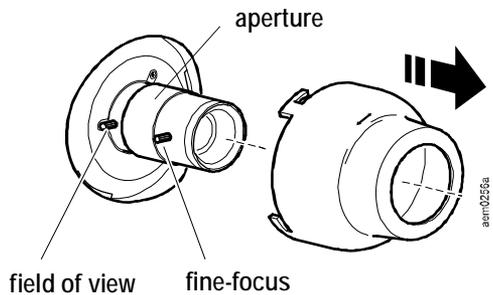
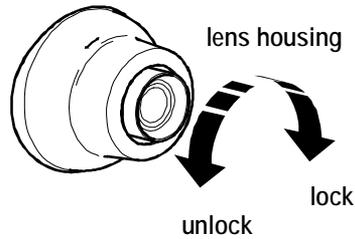
To access the adjustment screws, remove the lens housing by turning the lens housing counter-clockwise until the latches disengage.

To reattach the lens housing, engage the latches and rotate the housing clockwise until a click is heard.

To adjust the aperture of the lens, rotate the aperture ring clockwise to increase the aperture or counter-clockwise to reduce the aperture.

To adjust the focus and field of view settings:

1. Loosen the adjustment screw by turning it counter-clockwise.
2. Rotate the lens rings to the desired position.
3. Tighten the adjustment screw by turning it clockwise.



Configure Your Appliance

Overview

This chapter explains how to set up your network settings and other configuration tasks.

Gather Network Settings Information

Collect the following information from your systems administrator. You will need this information to configure the network settings on your appliance.

- **DHCP and IP Address Information:**
 - Does your network use a DHCP server?
 - If you do not use DHCP, what IP address is assigned to your appliance?
- **Subnet Mask Information:**
 - Will you use a subnet mask for the appliance LAN interface?
 - If you are using a subnet mask, what is the mask?
- **Gateway Information:**
 - Will you use a default gateway for packet routing?
 - If you use a default gateway, what is the IP address of the gateway?

About the NetBotz Appliance Utility CD

You can use the *NetBotz Appliance Utility CD* to install the following applications on any supported system:

- **Advanced View:** A Java-based user interface for monitoring and managing your NetBotz Room Monitor 355.
- **Serial Configuration Utility:** A Java-based application that you can use to configure the network settings on your NetBotz Room Monitor 355.
- **Java Runtime Environment (JRE)**

By default, the NetBotz Appliance Utility will copy the NetBotz 355 documentation to your system. You can also access these PDF files from the */docs* subdirectory of the CD.

To Install on a Windows System

To install the applications and the JRE on a supported Windows system:

1. Place the *NetBotz Appliance Utility CD* in the CD drive of the system that you will use to configure and manage your appliance. The NetBotz Appliance Utility will start automatically. If it does not start:
 - a. Open the CD drive in Explorer and double-click **contents.htm**.
 - b. Click the **NetBotz Room Monitor 355** link, click **Advanced View**, then click **Advanced View for Windows**. At the prompt, click **Run**.
2. Follow the on-screen instructions to complete the installation.

To Install on a Linux System

To install the applications and the JRE on a supported Linux system:

1. Place the *NetBotz Appliance Utility CD* in the CD drive of the system that you will use to configure and manage your appliance. Mount the drive.
2. Run **install.bin** from the Linux subdirectory on the CD. If you mounted the CD drive as /mnt/cdrom, execute the following command:

```
sh /mnt/cdrom/av/linux/install.bin
```
3. Follow the on-screen instructions to complete the installation.

Pre-configured Accounts

Administrator account user ID & password

Your NetBotz 355 comes with a pre-configured Administrator account. The User ID and Password for this pre-configured account are:

- **User ID:** apc
- **Password:** apc



Note: To increase the security of your device, use the Advanced View *Users* task to change the default Administrator account User ID and Password.

Root account user ID & password

Your NetBotz 355 comes with a pre-configured root account. The root account is used only for appliance communications that are performed using the serial port, such as when you use the Serial Configuration Utility to specify network settings (see “Use the Serial Configuration Utility” on page 18). The User ID and Password for this pre-configured account are:

- **User ID:** root
- **Password:** apc



Note: You cannot change the User ID of the root account. For basic security, change the password of the default root account using the **Change Root Password** option in the Advanced View application.

Configure Network Settings

Before you install your NetBotz 355 appliance, you must configure your appliance’s network settings. By default, your appliance is configured to obtain its network settings using DHCP. Alternately, you can use the Serial Configuration Utility to specify network settings (including IP address, gateway address, subnet mask, hostname, NAT proxy, and speed and duplex settings) to be used by the appliance.

Obtain network settings using DHCP

By default, your appliance is configured to attempt to obtain its network settings using DHCP. When you connect the appliance to your network and apply power, it automatically attempts to contact a DHCP server. The appliance will wait 30 seconds for a response. If the DHCP server is configured to provide a hostname, the appliance will request either its configured hostname or ‘netbotzxxxxxx’ (where xxxxxx is the last 6 digits of the appliance serial number) as a hostname to be associated with the IP address granted by the DHCP server. This enables you to use a Web browser to connect to the appliance at the <http://netbotzxxxxxx> without any additional configuration. The appliance will also request DNS server addresses, DNS domain, SMTP server addresses, and NTP server addresses from the DHCP server.



Note: After your DHCP server has assigned network settings for the appliance, you can connect your system to the appliance using the provided null modem cable, and use the Serial Configuration Utility to view the network settings. For more information see “Use the Serial Configuration Utility” on page 18.

Use the Serial Configuration Utility

You can use the Serial Configuration Utility (installed during the Advanced View installation) to assign network settings to your appliance.

To configure your appliance using the Serial Configuration Utility:

1. Click **Start > Programs > NetBotz > Serial Configuration > Serial Configuration Utility** to start the Serial Configuration Utility. To install the Serial Configuration Utility, see “About the NetBotz Appliance Utility CD” on page 15 for instructions on how to do so.
2. Connect one end of the USB cable to a USB port on your system and the other end of the cable to the USB port on the appliance.
3. If you will be obtaining network settings using DHCP, plug an Ethernet cable into the Ethernet port, and then connect the Ethernet cable to an Ethernet wall jack or hub.
4. Plug the power supply of the appliance into a wall outlet, and then connect it to the power cord connection. The Status LED will illuminate for 2-3 seconds immediately after you connect power to the appliance, and then go dark. When the appliance is finished starting up (the process can take up to 2 minutes, depending on appliance configuration), the Status LED will illuminate again. Once the Status LED is illuminated again, click **Next** to continue.
5. The Serial Configuration Utility automatically scans your system’s COM ports to determine if an appliance is connected to the system. If an appliance is discovered the utility will add the appliance to the Device column of the window. Select the radio button that corresponds to the appliance you wish to configure and then click **Next** to continue configuring your appliance.



If the COM port associated with the port to which your serial cable is connected is currently in use by another application, a message beside the COM port in the **Owner** column will indicate that the port is not currently available. To correct this, close the application that is using the COM port and then click **Scan Serial Ports**.

6. The Root Password window appears. Type the administrator account password for this appliance into the **Password** field. By default, this password is set to **apc**. For more information, see “Administrator account user ID & password” on page 16. Click **OK**.
7. Follow the on screen instructions to complete the configuration.
8. Click **Next** to save your configuration settings. When the save process is complete, you can click **Finish** to close the Serial Configuration Utility.
9. Follow the instructions in “Connect Sensors to Sensor Ports” on page 13.

Clean the NetBotz 355

To clean the device, gently wipe surfaces with a clean, dry cloth.

Specifications

Electrical

Input voltage, nominal	48 VDC (Power-over-Ethernet)
Maximum power consumption	15 W

Physical

Dimensions (H x W x D)	210 x 170 x 94 mm (8.3 x 6.7 x 3.7 in)
Weight	0.64 kg (1.40 lb)
Shipping dimensions (H x W x D)	178 x 381 x 318 mm (7.0 x 15.0 x 12.5 in)
Shipping weight	1.72 kg (3.80 lb)

Environmental

Elevation (above MSL)	
Operating	0 to 3000 m (0 to 10,000 ft)
Storage	0 to 15 000 m (0 to 50,000 ft)
Temperature	
Operating	0 to 45°C (32 to 113°F)
Storage	-15 to 65°C (5 to 149°F)
Relative Humidity	
Operating	10 to 90%, non-condensing
Storage	10 to 90%, non-condensing

Compliance

Immunity/Emissions	CE, FCC Part 15 Class A, ICES-003 Class A, VCCI Class A, EN 55022 Class A, EN 55024, AS/NZS CISPR 22
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Warranty

Two-Year Factory Warranty

This warranty applies only to the products you purchase for your use in accordance with this manual.

Terms of warranty

APC warrants its products to be free from defects in materials and workmanship for a period of two years from the date of purchase. APC will repair or replace defective products covered by this warranty. This warranty does not apply to equipment that has been damaged by accident, negligence or misapplication or has been altered or modified in any way. Repair or replacement of a defective product or part thereof does not extend the original warranty period. Any parts furnished under this warranty may be new or factory-remanufactured.

Non-transferable warranty

This warranty extends only to the original purchaser who must have properly registered the product. The product may be registered at the APC Web site, www.apc.com.

Exclusions

APC shall not be liable under the warranty if its testing and examination disclose that the alleged defect in the product does not exist or was caused by end user's or any third person's misuse, negligence, improper installation or testing. Further, APC shall not be liable under the warranty for unauthorized attempts to repair or modify wrong or inadequate electrical voltage or connection, inappropriate on-site operation conditions, corrosive atmosphere, repair, installation, exposure to the elements, Acts of God, fire, theft, or installation contrary to APC recommendations or specifications or in any event if the APC serial number has been altered, defaced, or removed, or any other cause beyond the range of the intended use.

THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, BY OPERATION OF LAW OR OTHERWISE, OF PRODUCTS SOLD, SERVICED OR FURNISHED UNDER THIS AGREEMENT OR IN CONNECTION HEREWITH. APC DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY, SATISFACTION AND FITNESS FOR A PARTICULAR PURPOSE. APC EXPRESS WARRANTIES WILL NOT BE ENLARGED, DIMINISHED, OR AFFECTED BY AND NO OBLIGATION OR LIABILITY WILL ARISE OUT OF, APC RENDERING OF TECHNICAL OR OTHER ADVICE

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NO SALESMAN, EMPLOYEE OR AGENT OF APC IS AUTHORIZED TO ADD TO OR VARY THE TERMS OF THIS WARRANTY. WARRANTY TERMS MAY BE MODIFIED, IF AT ALL, ONLY IN WRITING SIGNED BY AN APC OFFICER AND LEGAL DEPARTMENT.

Warranty claims

Customers with warranty claims issues may access the APC customer support network through the Support page of the APC Web site, www.apc.com/support. Select your country from the country selection pull-down menu at the top of the Web page. Select the Support tab to obtain contact information for customer support in your region.

Radio Frequency Interference



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

USA—FCC

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with this user manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference. The user will bear sole responsibility for correcting such interference.

After an electrostatic discharge (ESD) event, the appliance may require up to 2 minutes to restart services that are necessary for normal operation. During this time, the Web interface of the appliance will be unavailable. If any necessary services or devices external to the appliance, such as a DHCP server, were affected by the ESD event, these devices also need to restart properly.

Canada—ICES

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

Japan—VCCI

This is a Class A product based on the standard of the Voluntary Control Council for Interference by Information Technology Equipment (VCCI). If this equipment is used in a domestic environment, radio disturbance may occur, in which case, the user may be required to take corrective actions.

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラス A 情報技術装置です。この装置を家庭環境で使用すると、電波妨害を引き起こすことがあります。この場合には、使用者が適切な対策を講ずるよう要求されることがあります。

Taiwan—BSMI

警告使用者：

這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。

Australia and New Zealand

Attention: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

European Union

This product is in conformity with the protection requirements of EU Council Directive 2004/108/EC on the approximation of the laws of the Member States relating to electromagnetic compatibility. APC cannot accept responsibility for any failure to satisfy the protection requirements resulting from an unapproved modification of the product.

This product has been tested and found to comply with the limits for Class A Information Technology Equipment according to CISPR 22/European Standard EN 55022. The limits for Class A equipment were derived for commercial and industrial environments to provide a reasonable protection against interference with licensed communication equipment.

Attention: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

APC Worldwide Customer Support

Customer support for this or any other APC product is available at no charge in any of the following ways:

- Visit the APC Web site to access documents in the APC Knowledge Base and to submit customer support requests.
 - **www.apc.com** (Corporate Headquarters)
Connect to localized APC Web sites for specific countries, each of which provides customer support information.
 - **www.apc.com/support/**
Global support searching APC Knowledge Base and using e-support.
- Contact the APC Customer Support Center by telephone or e-mail.
 - Local, country-specific centers: go to **www.apc.com/support/contact** for contact information.

For information on how to obtain local customer support, contact the APC representative or other distributors from whom you purchased your APC product.

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