

500/420 SERIES ADD-ON HARDWARE

Physical threats, from environmental elements to security breaches, can destroy your critical assets ... your sophisticated network infrastructure ... your business critical technical equipment ... your expensive HVAC system. Not to mention the damage these threats can do to your critical spaces, such as storage rooms, server rooms and “off limits” areas. It seems almost impossible to protect your organization against all the dangers to your business continuity, especially when you're short-staffed. But it isn't. With NetBotz you get extra protection against the elements. A full line of NetBotz add-on hardware give an enhanced level of security. So that no matter what ill wind threatens to blow, you're protected.

NETBOTZ 500

Your NetBotz 500 is designed to be flexible and expandable. Connect up to 17 **NetBotz Sensor Pod 120s** to each base station for unparalleled environmental monitoring capabilities. Connect up to 4 **Camera Pod 120s** for an all-in-one surveillance solution, or add up to 4 **CCTV Adapter Pod 120s** and integrate your own CCTV video sources into a NetBotz digital surveillance network. You can also enhance the alert and data storage capabilities of your NetBotz 500 using the **NetBotz 500 Extended Storage System**.

NETBOTZ 420

The NetBotz 420 offers a moderate level of expandability. In addition to the integrated sensors and camera, you can connect up to 4 **NetBotz Sensor Pod 120s** to each appliance, and up to 1 **NetBotz Camera Pod 120** or **CCTV Adaptor Pod 120**.

ADD-ON HARDWARE

NetBotz offers a number of valuable External Sensors that expand the base monitoring capabilities of NetBotz appliances. **External Temperature** and **Humidity Sensors** provide the flexibility to monitor the temperature and humidity of additional areas within a room or rack. **Particle Sensors** alert you to the presence of dust or other airborne particulates. **Fluid Detectors** let you monitor a location for the presence of water and other fluid. **Amp Detectors** enable you to determine how much current is being drawn on circuits. **Dry Contact Sensor Device** support enables you to use a variety of environmental sensors, including those that detect and report on condensation, vibration, glass breakage, UPS and HVAC conditions and more.

BotzWare Output Control functionality, when used in conjunction with NetBotz **Output Relay Pod 120s**, enables you to control up to 64 relay-based devices.

NetBotz also offers an array of deployment enablement solutions, designed to simplify the installation of your NetBotz 500 and 420 appliances, pods, and sensors. **USB Extension Cables** make it easy to extend the reach of your pods while ensuring signal integrity. **CAT 5 Pod Extenders** enable you to deploy your pods up to 100 meters from your NetBotz 500 and 420 appliances, while **Fiber 500M Pod Extenders** extend this deployment range to a full 500 meters. The **Camera Pod Enclosure** enables you to deploy cameras in a variety of environments, including outdoors. The **-48VDC Power Supply** permits NetBotz 500 and 420 deployments in locations that have only -48VDC power available, such as telephone communications towers. And the **NetBotz Pod Mounting Kit** makes it easy to mount your camera pods and 500 base stations in server racks or TELCO cabinets.



ADDITIONAL PODS

Each NetBotz 500 can support up to 4 camera pods (Camera Pod 120s or CCTV Adapter Pod 120s) and up to 17 Sensor Pod 120s. One Camera Pod 120 and one Sensor Pod 120 can be docked to the base station, while additional pods can be connected directly to one of the base station's 4 USB ports or to USB extender cables, or powered or unpowered USB hubs that are connected to the base station.

Each NetBotz 420 supports up to 2 total cameras, including the integrated camera on the appliance (one Camera Pod 120 or CCTV Adapter Pod 120 may be added). Up to 4 additional non-camera pods may also be connected to the 420.

The Sensor Pod 120 pod features a USB port that enables the pod to be tethered to the appliance using a standard USB cable. The Sensor Pod 120 includes integrated temperature, humidity, dew point, air flow, and audio sensors, as well as 4 external sensor ports.

The Camera Pod 120 features an image processor that generates images up to 1280x1024 resolution, 24-bit color, and up to 30 frames per second on the NetBotz 500 appliance, or up to 640x480 resolution, 24-bit color, up to 20 fps on the NetBotz 420 appliance. Also included are an integrated microphone and standard 3.5mm miniplug



The NetBotz **CAMERA**
POD 120.

microphone jack which enable audio monitoring and capture, standard 3.5mm miniplug speaker/headphone jack that can be used to play descriptions of alerts in spoken language through powered speakers, door switch sensor jack, camera motion detection, and an activity LED which indicates the power-on and recording status of the pod. Note: The audio functionality is supported on the NetBotz 500 only. NetBotz also has a wide angle replacement lens available for purchase. Or, customers can use third-party 1/2" CS-mount lenses or C-mount lenses with a C-to-CS adapter ring.

Designed for use with a single closed circuit television (CCTV) or other video source, the CCTV Adapter Pod 120 accepts multi format S-Video and Composite Video and features DIN, BNC and RCA input jacks. Using the CCTV Adapter Pod, your analog video source is digitally converted and integrated with the NetBotz physical security solution. The CCTV Adapter Pod 120 provides images of up to 640x480 resolution, 24-bit color, and up to 30 frames per second on the NetBotz 500, 20 frames per second on the NetBotz 420 (color and resolution may be limited by video source) and features an integrated microphone and standard 3.5mm miniplug microphone jack for use in monitoring and capturing audio, standard 3.5mm miniplug speaker/headphone jack that can be used with powered speakers to provide monophonic audio output, door switch sensor jack, camera motion detection, and an activity LED which indicates the power-on and recording status of the pod. Note: the audio functionality is only supported on the NetBotz 500.

OUTPUT CONTROL DEVICES

With BotzWare Output Control Functionality, you can remotely turn on/off power to devices (such as servers, routers and more) and switches (for lights, doors and more) if physical conditions warrant. Output control capability enables you to better manage and protect your infrastructure and other assets from physical threats. Now, in addition to the standard alert notifications generated by the NetBotz appliances, you can configure your appliance to automatically take action in response to alert conditions. For example, if temperatures climb too high your NetBotz 500/420 could protect your valuable assets by powering off the equipment, activating a backup cooling system, and restoring power to the equipment once temperatures have returned to acceptable levels.



OUTPUT CONTROL DEVICES (CONTINUED)

NetBotz Output Relay Pod 120s enable you to use your NetBotz 500 or 420 to turn a variety of devices on or off. Relay output actions can be executed manually through the Advanced View and Basic View interfaces, or can be configured as automatic alert actions in response to a threshold event. Each NetBotz Output Relay Pod 120 features reed relays for up to 16 devices. Up to 4 NetBotz Output Relay Pod 120s can be connected to the NetBotz 500 or 420 appliance, enabling you to control up to 64 relay-based devices. Output Relay Pod 120s can be connected directly to the USB port using a standard USB extender cable, or connected to a powered USB hub that is connected to the USB port.

4-20mA SENSOR POD

NetBotz's 4-20mA Sensor Pod collects an analog signal from a wide range of standard third-party 4-20mA sensors, and integrates the information into the NetBotz management system. By integrating these stand-alone devices into the NetBotz solution, they become accessible over the company's IT network, and can be viewed, monitored, and reported on via the network.

The 4-20mA Sensor Pod connects to either a NetBotz 500 or NetBotz 420 via USB. It is USB bus-powered, so an external power supply is not required. However, if it is connected to a USB hub it must be a powered hub. There are four screw-terminal sensor ports on the 4-20mA Sensor Pod, to accommodate up to four 4-20mA sensors. For connecting three- and four-wire sensors, there is an additional port on the side for supplemental loop power.

DEPLOYMENT ENABLEMENT SOLUTIONS

NetBotz deployment enablement solutions are designed to meet the needs of customers that need to install pods in locations that are significantly distant from the NetBotz 500 or 420 appliance. While USB alone provides great deployment flexibility (pods connected using USB cables and powered hubs can be located up to 25 meters from the base station), your deployment needs might be more demanding. Designed for use with your NetBotz appliance, CAT 5 Pod Extenders, 500M Fiber Pod Extenders, and USB Extension Cables provide the flexibility you need to effectively deploy additional pods throughout your facility. Cat 5 Pod Extenders enable you to place pods up to 100 meters (328') from your appliance, greatly lengthening the standard 25 meter distance limit for USB devices. Using local and remote modules connected with up to 100 meters of CAT 5 cabling, CAT 5 Pod Extenders provide a powered USB connection for your pods and greatly enhance your ability to expand the reach of your NetBotz solutions. Fiber 500M Pod Extenders provide even greater expandability, enabling you to deploy your pods up to 500 meters (1640') from the base station using 2-strand fiber-optic cable. And for less demanding deployment scenarios, our 5 meter (16') USB Extension Cables are the perfect solution. These active USB repeater cables feature USB signal buffering, thereby ensuring signal quality and data integrity for your physical threat prevention network.

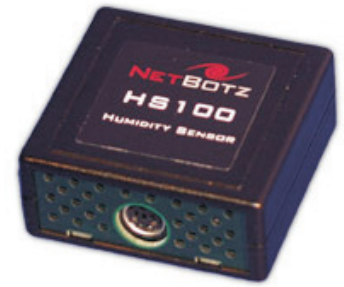
For deployments where distance from the base appliance is not a problem but location of the equipment is, NetBotz offers a number of solutions to address location-specific installation issues. The NetBotz -48VDC Power Supply enables you to use a -48VDC power source (such as those found in cellular communications towers) to power your NetBotz 500 or 420. NetBotz Camera Pod Enclosures protect your pods from tampering and from the elements, and are available in two models: A compact enclosure for use in locations where the operating conditions do not exceed the specifications of the pods, and also in a larger form factor that incorporates a heater and blower for use in more demanding or extreme climates. Finally, the NetBotz Pod Mounting Kit makes it easy to mount your camera pod or NetBotz 500 base station in server cabinets or TELCO racks, or mount camera pods from drop ceilings.



EXTERNAL SENSORS

NetBotz offers a full line of external sensors for use with your NetBotz appliances. The TS100 External Temperature Sensor enables you to monitor temperatures in areas of the rack, cabinet, or room other than the location in which the appliance is installed. The HS100 External Humidity Sensor provides similar functionality, enabling you to monitor humidity at remote locations. Use the FD100 Fluid Detector to monitor a location for the presence of water and other fluids. A PS100 Particle Sensor can alert you to the presence of dust and other particulates. And NetBotz Amp Detectors add electrical current monitoring capability to NetBotz appliances, providing an accurate way to determine how much current is being drawn on circuits.

Note: Amp Detectors are available for 15, 20 and 30 amp circuits in the United States and Canada. Choices are NEMA 5-15, 5-20, L5-20, L5-30, and L6-30 plug (input) and receptacle (output). Models are also available for 13 amp circuits in the UK and Ireland, and for 16 amp circuits in continental Europe and South Africa.



The NetBotz **HS100**
EXTERNAL HUMIDITY
SENSOR..

All NetBotz external sensors include enough cable to place the sensor up to 15 feet from your NetBotz appliance. If you need a longer cable you can purchase standard or plenum-rated 15-, 25-, 50- or 100-foot extender cables from NetBotz. Sensors can be placed up to 115 feet from the NetBotz appliance or sensor pod to which they are connected.

0-5V SENSOR CABLE

Thousands of 0-5V analog sensors are installed in manufacturing and utility operations around the world. By using the 0-5V Sensor Cable, these sensors may now be connected, collected, correlated and managed at the NetBotz appliance edge device, and then carried upstream via an IP connection to the central management location.

DRY CONTACT DEVICE SUPPORT

All NetBotz appliances (500/420/320) feature built-in Dry Contact Sensor support that enables you to use devices such as condensation sensors, vibration sensors, glass break sensors, UPS and HVAC dry contact alert ports, and more. The NetBotz Dry Contact Cable is used to connect dry contact devices to the NetBotz appliances or to a Sensor Pod 120. The mini-DIN connector on one end of this cable connects to an external sensor port on the NetBotz monitoring appliance. The other end of the cable has leads to connect to the terminals in the dry contact sensor device.



EXTENDED STORAGE SYSTEM

The Extended Storage System enables you to vastly increase the alert and sensor data storage capabilities of your NetBotz 500. The Extended Storage System, connected to your NetBotz 500 base station enables the following:

- Increases the maximum camera clip size to 32MB (or 600-800 640x480 images).
- Increases the total number of resolved alerts and length of time resolved alerts are stored to a maximum of 5000 resolved alerts stored for up to 180 days (without the Extended Storage System, alerts are stored for up to 24 hours).
- Increases the sensor history for all sensors connected to your NetBotz 500 with Extended Storage System to a maximum of 180 days (compared with the standard 24-hour sensor history limit).
- Persistently stores sensor history, alerts, and all sensor-associated data (including image captures, audio clips, and sensor data graphs) on the Extended Storage System so they are protected if power to the appliance is interrupted.

MAXIMUM SUPPORTED CONFIGURATION

	NetBotz 500	NetBotz 420	NetBotz 320
Camera Pods			
Camera Pods/CCTV Camera Pods	4	1 (In addition to integrated camera)	(Integrated camera)
Non-Camera Pods			
Total Pods Supported	32	4	-
Comprised of up to:			
Sensor Pods	17	4 (In addition to integrated sensor set)	(Integrated sensor set)
4-20mA Sensor Pods	16	4	-
Output Relay Pods	4	4	-
Power Control Pods	16	4	-
Other Add-On Hardware			
Add-on External Sensors	68	20	4



PRODUCT SKUs

Product SKUs		
Pods	Camera Pod 120	NBPD0121
	Sensor Pod 120	NBPD0122
	4-20mA Sensor Pod	NBPD0129
	CCTV Adapter Pod 120	NBPD0123
	Output Relay Pod 120	NBPD0124
	NetBotz 500 Extended Storage System	NBAS0201
External Sensors	0-5V Sensor Cable	NBAC0231
	Dry Contact Cable	NBDC0001
	External Temperature Sensor TS100	NBTS0100
	External Humidity Sensor HS100	NBHS0100
	External Fluid Detector FD100	NBFD0100B
	External Particle Sensor PS100	NBES0201
Cable	Extension Cable for External Sensors - 15ft, LSZH	NBAC0119L
	Extension Cable for External Sensors - 25ft, LSZH	NBAC0120L
	Extension Cable for External Sensors - 50ft, LSZH	NBAC0106L
	Extension Cable for External Sensors - 100ft	NBAC0107
	Extension Cable for External Sensors - 15ft, Plenum-rated	NBAC0119P
	Extension Cable for External Sensors - 25ft, Plenum-rated	NBAC0120P
	Extension Cable for External Sensors - 50ft, Plenum-rated	NBAC0106P
	Extension Cable for External Sensors - 100ft, Plenum-rated	NBAC0107P
	USB Extension (Repeater) Cable, 5m, LSZH	NBAC0209L
	USB Cable, 5m, LSZH	NBAC0211L
	USB Extension (Repeater) Cable, 5m, Plenum-rated	NBAC0209P
	USB Cable, 5m, Plenum-rated	NBAC0211P
	USB to Serial RS-232 DB-9 Adapter Cable 6ft	NBAC0226
	Pod Mounting Kit	NBAC0221
Accessories	Mounting Bracket for Camera Pod 120	NBAC0205
	Mounting Bracket for Sensor Pod 120	NBAC0206
	DIN rail mounting option for Output Relay Pod	NBAC0228
	USB Right Angle Cable Adapter Kit for Camera Pod Enclosure HB	NBAC0217
	-48V Power Supply (for 420/320)	NBAC0105
	-48V Power Supply (for 500)	NBAC0222



ABOUT NETBOTZ

NetBotz, Inc. is the leading global provider of IP-based intelligent physical security solutions. Thousands of organizations use the NetBotz solution, which prevents business and financial losses attributed to network downtime by providing early warning of conditions that threaten the integrity of a company's data, technical and equipment assets. NetBotz has received the Best in Show Award in the Network Management Category at NetWorld+Interop.

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