

Nice

DC12-IP

IP Controlled, BlueBOLT Enabled DC Power Manager with 12 Outputs



User Guide

English

DC12-IP User Guide

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IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. **WARNING:** Do not use this apparatus near water. To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
6. Clean only with dry cloth.
7. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatuses that produce heat.
8. Only use attachments or accessories specified by the manufacturer.
9. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
10. **WARNING - Risk of Electric Shock:** Connect the device to a properly grounded outlet only. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
11. This device must be connected to a main socket outlet with a protective earthing connection.

FCC NOTICE

This equipment has been tested and found to comply with the limits for a Class B Digital Device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in 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 of 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/TV technician for help. Any special accessories needed for compliance must be specified in the instruction.
5. **CAUTION:** Any changes or modifications not expressly approved by the guarantee of this device could void the user's authority to operate the equipment.

INDUSTRY CANADA (IC)

ICES-003 Class B Notice. This Class B digital apparatus complies with Canadian ICES-003.

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DC POWER MANAGEMENT WITH CONTROL SYSTEM INTERACTIVE FUNCTIONALITY



- 12 DC Output Ports
 - » Plug in terminal block with 12VDC / 5A and 5V / 2.2A output terminals
 - » USB-A with 5V / 2.2A output
 - » Overload and short-circuit protection
- 150W Total Output Capacity
- Surge Protection
- Programmable power ON/OFF sequencing and cycling
- 10/100bT Ethernet Network Interface
- BlueBOLT® Cloud Control Enabled
- Detachable 1m Power Cord – see Note below
- Rack mountable

IMPORTANT: You will need the DC12-IP's unique MAC Address and Challenge Key (provided on the labels attached to the cover of the instructions or bottom of the DC12-IP) to claim the DC12-IP on the BlueBOLT cloud control service. One label is permanently adhered to the device instructions and the other is removable for your convenience.

NOTE: A US power cord is provided in the box. This power cord is used only in the US and Canada. Power cords for the AUS/NZ, EU, and UK regions are not provided. For those regions you will need to obtain a power cord suitable for your location following the specifications shown. Do not attempt to use any power cord adapters, especially those that do not have a third (grounding) pin.

1 Power Cord, US & Canada

- » **Cord:** 1000mm +/- 10mm long, 3x18AWG, black SJT, UL/CSA, 300V, 105°C min
- » **Plug 1:** NEMA 5-15P
- » **Plug 2:** IEC 320-C13

2 Power Cord, UK

- » **Cord:** 1000mm +/- 10mm long, H05VV-F 0.75mm² 3G, black jacket, 105°C min
- » **Plug 1:** BS-1363
- » **Plug 2:** IEC 320-C13

3 Power Cord, EU

- » **Cord:** 1000mm +/- 10mm long, H05VV-F 0.75mm² 3G, black jacket, 105°C min
- » **Plug 1:** Schuko CEE 7/4
- » **Plug 2:** IEC 320-C13

4 Power Cord, AUS/NZ

- » **Cord:** 1000mm +/- 10mm long, H05VV-F 0.75mm² 3G, black jacket, 105°C min
- » **Plug 1:** AS/NZS 3112 Australia Type I
- » **Plug 2:** IEC 320-C13

INCLUDED IN THE BOX

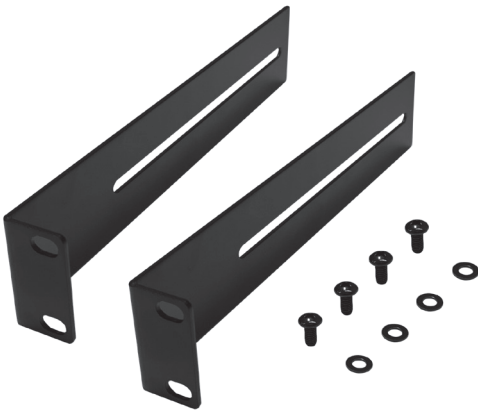
1. One (1) DC12-IP



2. Detachable power cord (1 meter).



3. Two (2) rack mount ears for attachment to DC12-IP. Four (4) Phillips pan head screws with flat washers for rack mounting.



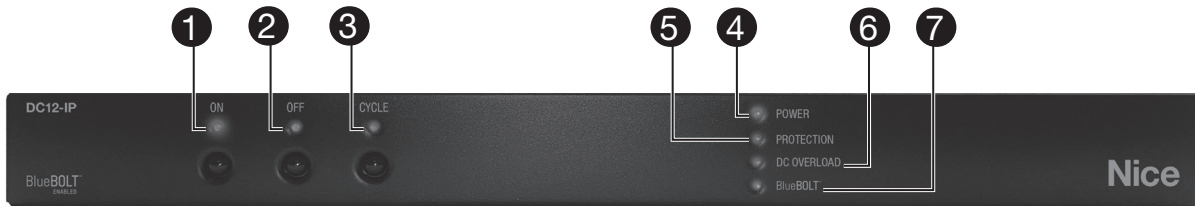
4. Twelve (12) Plug-in Terminal blocks for DC outputs



5. One (1) User Instructions

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FRONT PANEL FEATURES OVERVIEW



1. ON Button and Indicator Light

Pressing the ON button initiates a power on sequence. During the power on sequence, DC outputs will switch on after the programmed turn on delay time. The ON indicator light will flash during the power on sequence to indicate that a power on sequence is in progress. After the power on sequence is complete, the ON indicator light will remain illuminated. If one or more output is ON and the unit is not sequencing, the ON indicator will be lit.

2. OFF Button and Indicator Light

Pressing the OFF button initiates a power off sequence. During the power off sequence, DC outputs will switch off after the programmed turn off delay time. The OFF indicator light will flash during the power off sequence to indicate that a power off sequence is in progress. After the power off sequence is complete, the OFF indicator light will remain illuminated. If one or more output is ON and the unit is not sequencing, the ON indicator will be lit.

3. CYCLE Button and Indicator Light

Pressing the CYCLE button initiates a power cycle. During the power cycle, DC outputs will switch off and then switch back on after the programmed cycle delay time. The CYCLE indicator light will flash during the power cycle to indicate that a power cycle is in progress. After the power cycle is complete, the CYCLE light will switch off.

4. POWER Indicator Light

Power indicator flashes slow when sequencing or cycling, and it remains lit when not sequencing or cycling. It flashes fast during system operations, such as resets, resetting factory defaults or updating.

Color / State	Status
Blue	No Sequencing or Cycling
Blue Flashing Slow	Outputs are Sequencing or Cycling
Blue Flashing Fast	System Operations in progress

5. PROTECTION Indicator Light

Indicates the state of the AC surge protection

Color / State	Status
Green	No Faults
Yellow Flashing	One or more outputs are overloaded
Red Flashing	AC Line Failure or 12V DC Failure

FRONT PANEL FEATURES OVERVIEW

6. DC OVERLOAD Indicator Light

Indicates System Power Overload Status

Color / State	Status
Green	Indicates the system wattage is less than 135 Watts or whether any of the following states have activated and the wattage has returned to less than 127 Watts.
Yellow Flashing Slow	Indicates the system wattage is equal to or has exceeded 135 Watts. At this instance, turning on outputs is inhibited. (Inhibit Mode)
Red Flashing Slow	Indicates the system wattage is equal to or has exceeded 150 Watts. At this instance, turning on outputs is also inhibited. (Warning Mode)
Red Flashing Fast	Indicates the system wattage is equal to or has exceeded 165 Watts. If an output has been turned on in the last 5 seconds, it will be shutdown first. From that point on, starting at output 12, each output will be turned off until power has returned to less than 165 Watts. (Priority Shutdown Mode)

- When the total DC load exceeds 90% of total capacity (135W), the DC OVERLOAD indicator will turn yellow and switching of additional DC outputs will be inhibited.
- When the total DC load reaches 100% of total capacity (150W), the DC OVERLOAD indicator will turn red and switching of additional DC outputs will remain inhibited.
- Should the total DC load exceed 110% of total capacity (165W), the DC OVERLOAD indicator will flash red and DC12-IP will automatically switch DC outputs off. In this state, the DC outputs will switch off from lowest priority (output 12) to highest priority (output 1) until the total DC load is 150W or less.
- If an output has been turned on in the last 5 seconds, it will be turned off first before shutting off subsequent lower priority outputs.

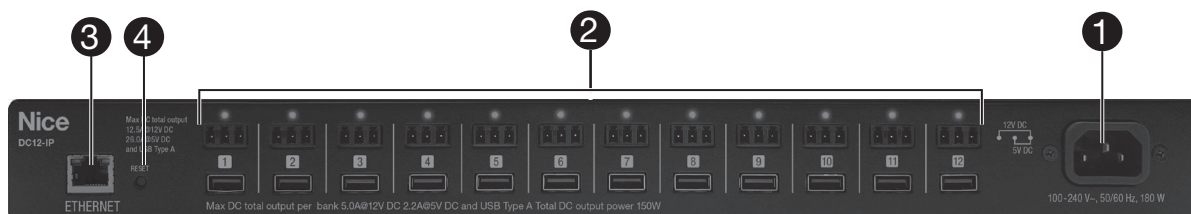
7. BlueBOLT Indicator Light

Indicates the status of the network connection

Color / State	Status
Flashing Green	No network connection
Flashing Blue	Attempting to contact BlueBOLT or BlueBOLT connection failed.
Solid Blue	BlueBOLT communication established.

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REAR PANEL FEATURES OVERVIEW



1. AC Inlet: 100-240 V~ IEC-320 C14 Inlet

2. DC Output Banks 1-12

Each DC Output Bank is comprised of:

- Plug in terminal block connector
 - » **Pin 1:** +12VDC
 - » **Pin 2:** +5VDC
 - » **Pin 3:** DC Common
- USB-A Output Port
 - » 5VDC, 2.2A max
- Indicator light

Color / State	Status
Off	DC output port is switched off (unenergized)
Blue	DC output port is switched on (energized)
Blue / Flashing	DC output has shut off for overload
All Blue / Flashing	Main DC power supply overload

3. Ethernet / BlueBOLT Port

RJ-45 connector 10/100 Mbps Ethernet. Connect to an active local area network.

- **LINK LED:** Illuminated green when connected to an active network.
- **Activity LED:** flashes to indicate active data communication.

4. Reset Button

Located adjacent to the Ethernet port and recessed behind the rear panel.

When the button is pressed and held for 10 seconds, outputs will be turned off immediately then sequenced back on with the default delay values. When pressed and released, the processor will be reset after 4 seconds.

INSTALLATION

Install the provided rack mounting brackets to the sides of DC12-IP with the provided screws. Adjust the distance of the rack ears to the front panel for the desired position and tighten the screws.

Install the DC12-IP into the equipment rack.



Elevated Operating Temperature

If installed in a closed or multi-unit rack assembly, the ambient temperature of the rack environment may be greater than room ambient. Consider installing the equipment in an environment compatible with the maximum ambient temperature (T_{ma}) specified by the manufacturer.

Reduced Air Flow

Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised. It is recommended that the rack space above the unit is not used.

Circuit Overloading

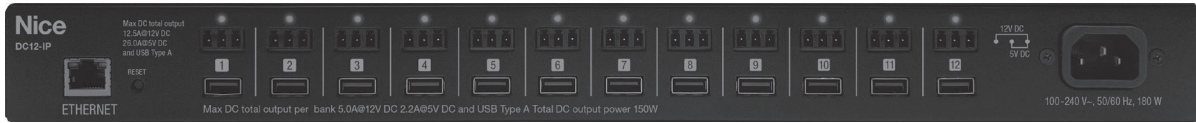
Consideration should be given to the connection of the equipment to the supply circuit, as well as the effect that circuit overloading might have on over-current protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

Disconnect Device (Pluggable Equipment)

The socket-outlet should be installed near the equipment and be easily accessible.

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WIRING TO DC OUTPUT TERMINALS



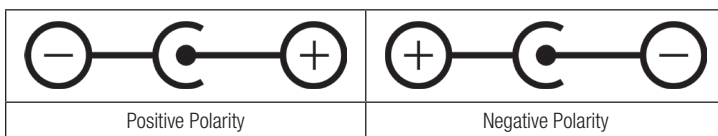
For any one DC output bank, it is recommended that only one of the three outputs be used.

Before connecting a device to a DC output bank, ensure that the DC output bank is switched off (indicator light is off)

When using the plug-in terminal blocks:

1. Use wire strippers to remove ¼" (6mm) of insulation from wire ends.
2. Determine the correct polarity of positive (+) and negative (-) wire ends.

For devices with a DC barrel connector, the polarity will be indicated as:



3. Consider the current rating and connect:
 - » **For 12VDC devices:**
 - a) Verify that the maximum current rating for the device is less than 5A (60W).
 - b) Connect the positive wire to the 12V terminal.
 - » **For 5VDC devices:**
 - a) Verify that the maximum current rating for the device is less than 2.2A (11W).
 - b) Connect the positive wire to the 5V terminal.
4. Connect the negative wire to the Ground terminal.
5. Use a slotted screwdriver to tighten the terminal screws to secure the wire connections.

When using the USB-A connector:

6. Connect the USB cable provided to the device and then to the USB connector on the DC12-IP rear panel.
7. Switch the DC output port on, and then observe the overload indicator light to ensure that the output port or system is not overloaded.

BlueBOLT SETUP

NOTE: You will need the DC12-IP's unique MAC ADDRESS and CHALLENGE KEY (provided on the bottom of the DC12-IP and attached to this manual) in order to register this device on the BlueBOLT cloud control system.

Additionally, this device can be registered by scanning the QR code using the BlueBOLT mobile app.

NOTE: Turn off all the equipment being connected to DC12-IP until after all the connections (including AC). It's recommended to turn the connected equipment back on sequentially one unit at a time.

Your DC12-IP can be controlled and monitored from anywhere in the world using the BlueBOLT cloud.

On-Line Registration – The DC12-IP is completely plug-and-play and does not require any software installation. The online BlueBOLT control interface is operated through an internet web browser.

A. Using any internet connected computer, go to **www.mybluebolt.com** using an internet browser.

B. Follow the on-screen prompts to add a **Location**, and then to add a **Device**.

NOTE: It is recommended the spare MAC address label be adhered to the unit or stored in a secure location. Use your smart phone to connect via the QR code for setup instructions.

C. If BlueBOLT cannot detect your device after the MAC address and included Challenge Key have been entered (please allow up to 20 seconds), confirm the DC12-IP is properly connected to your networking equipment. If the problem continues, follow the on-screen troubleshooting guide.

Add a New Device

Add Ethernet Device Add Wireless Device

Connect the cable to ethernet port

MAC 10 65 A3 [] [] []

Challenge Key [] [] []

These values can be found on a label located on the device.

Cancel Register

ADVANCED OPERATION

Local web page

DC12-IP provides a built-in HTTP (web page server at default port 80) which can be accessed via a typical web browser. This allows the user to operate the device locally and configure its settings. The web page is accessed by entering the device's IP address into the web browser. The IP address can be discovered by lookup on the network router's device table or from BlueBOLT.

Upon first use, the user will be prompted to enter a username and password with the following restrictions:

User name:

- » Should be a minimum of 5 characters and no more than 15 characters
- » Case-sensitive
- » Should consist of characters available on a standard USA keyboard

Password:

- » Should be a minimum of 4 characters and no more than 32 characters
- » Case-sensitive
- » Should be consist of characters available on a standard USA keyboard
- » The word "Password" for the password will be rejected
- » Passwords of five characters or less may not entirely consist of repetitive characters such as "1111", "2222", "aaaa"

Welcome to your new Panamax DC12-IP!

Please create a Username and Password to control *local access* to your device's embedded Configuration Interface.

Note: These credentials are for the *local device access only* and do not necessarily match your login for www.mybluebolt.com.

Username: []

Password: []

Confirm: []

Update Login

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Information Panel

- » Serial Number:
- » MAC Address:
- » Firmware Version (Main)
- » Bootcode Version
- » Model: DC12-IP

Status Panel

- » Wattage
- » Power Supply Protection
- » Power Supply Overload

Controls Panel

- » Sequence Off
- » Sequence On
- » Power Cycle
- » All Outputs Off
- » All Outputs On
- » Reboot
- » DC Output [1..12] On
- » DC Output [1..12] Off
- » DC Output [1..12] On / Off / Fault state indicator

BlueBOLT Configuration Interface

Serial Number: PA01037X291222200019
 Ethernet Address: 1065a3080058
 Firmware Version: 1.0.2.221004
 Bootcode Version: 1.0.1.220902
 Model: DC12-IP

▶ Status

▶ Controls

▶ Configure

▼ Status

Meter

Wattage: 41.628

Conditions

Power Supply Protection: Output Overload Fault
 Power Supply Overload: OK

▶ Controls

▶ Configure

▼ Controls

Commands

Sequence Off | Sequence On | Cycle

All Off | All On

Reboot

Individual Outputs

1	<input type="radio"/> OFF	<input type="radio"/> ON	0.000W	OK
2	<input type="radio"/> OFF	<input type="radio"/> ON	34.030W	OK
3	<input type="radio"/> OFF	<input type="radio"/> ON	0.000W	OK
4	<input type="radio"/> OFF	<input type="radio"/> ON	33.755W	OK
5	<input type="radio"/> OFF	<input type="radio"/> ON	0.000W	OK
6	<input type="radio"/> OFF	<input type="radio"/> ON	7.690W	OK
7	<input type="radio"/> OFF	<input type="radio"/> ON	0.000W	OK
8	<input type="radio"/> OFF	<input type="radio"/> ON	0.000W	OK
9	<input type="radio"/> OFF	<input type="radio"/> ON	0.000W	OK
10	<input type="radio"/> OFF	<input type="radio"/> ON	0.000W	OK
11	<input type="radio"/> OFF	<input type="radio"/> ON	0.000W	OK
12	<input type="radio"/> OFF	<input type="radio"/> ON	0.000W	OK

▶ Configure

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POWER CYCLE AND OUTPUT SEQUENCING

The DC outputs of DC12-IP are configured to turn ON and OFF in a programmed sequence where each output has a set of programmed delay times. The delay times are pre-programmed, but they may be changed on the BlueBOLT or local web site interface. The default configuration is:

Output	Power Cycle Delay (seconds)	Turn On Delay (seconds)	Turn Off Delay (seconds)	Sequence Enable
1	10	1	1	Not Enabled
2	10	1	50	Enabled
3	10	5	45	Enabled
4	10	10	40	Enabled
5	10	15	35	Enabled
6	10	20	30	Enabled
7	10	25	25	Enabled
8	10	30	20	Enabled
9	10	35	15	Enabled
10	10	40	10	Enabled
11	10	45	5	Enabled
12	10	50	1	Enabled

Power Cycle Delay

When a **Power Cycle** is initiated, the DC output will immediately turn off and then back on after the Power Cycle Delay time

Turn On Delay

When a **Turn On Sequence** is initiated, the DC output will turn on after the Turn On Delay time.

Turn Off Delay

When a **Turn Off Sequence** is initiated, the DC output will turn off after the Turn Off Delay time.

Sequence Enable

When enabled, the DC output will switch ON or OFF during a sequence. It is initiated by pressing the front panel **Sequence On** or **Sequence Off** button within BlueBOLT interface or local web interface. When not enabled, the DC output will not participate in turn on or turn off sequences.

SPECIFICATIONS

Input Voltage	90 – 264Vac
Input Frequency	47 – 63Hz
Maximum Input Power Rating	180 W @ 120Vac (DC output fully loaded)
Maximum DC Output Current, Total	12.5A @ 12VDC 26.0A @ 5VDC
Maximum DC Output Current, Per Bank	5.0A @ 12VDC 2.2A @ 5VDC
Total DC Output Power	150W
Maximum Operating Temperature (T _{ma})	40°C (104°F)
Regulatory	United States: FCC Part 15B, UL 62368-1 Canada: ICES-003 B, CAN/CSA C22.2 No. 62368-1 UK: BS EN 55032, EN 55035, EN 62368 EU: EN55032, EN55035, EN62368 Australia / New Zealand: SAA, AS/NZS CISPR32

TROUBLESHOOTING

General Use

My equipment doesn't turn on.

Make sure that the DC12-IP is plugged into a working AC outlet. Check all AC connections. Make sure DC12-IP and connected equipment are turned on. Confirm "POWER ON" and individual outlet status LEDs are illuminated.

BlueBOLT/Network connectivity

Check these steps when having issues with BlueBOLT connectivity:

Is the DC12-IP receiving power?

Check the power cable, and confirm the unit is on.

Is the BlueBOLT port on the DC12-IP connected to an active local area network with Internet connectivity?

Check the cables connecting DC12-IP to the router/switch, cables between the router/switch and modem and the cable connecting the modem to the incoming Internet data jack (coax or DSL)

Are the BlueBOLT Link and Activity lights on?

The "Link" light should be illuminated solid green if connected to a LAN or solid blue to active LAN and is connected to BlueBOLT, and the "Activity" light should be blinking intermittently (green).

Is your Internet connection functioning? Can you access a general web page through a web browser running on a computer connected to the same local area network?

If you have answered "Yes" to these questions and are still unable to connect the DC12-IP BlueBOLT, please contact customer service at 1-800-421-1587.

TECH SUPPORT

Call: 800-421-1587

You may also access additional customer service support options at <https://na.niceforyou.com/support>

All equipment being returned for repair must have a Return Authorization (RA) number. To get an RA number, please call Nice Tech Support. Before returning any equipment for repair, please be sure that it is adequately packed and cushioned against damage in shipment, and that it is insured. We suggest that you save the original packaging and use it to ship the product for servicing. Also, please enclose a note giving your name, address and phone number.

<http://na.niceforyou.com> • <http://www.mybluebolt.com>

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WARRANTY INFORMATION

Caution! Warranty Limitation for Internet Purchasers

Nice products purchased through the Internet do not carry a valid Product Warranty or Connected Equipment Protection Policy unless purchased from an Authorized Nice Internet Dealer and the original factory serial numbers are intact (they must not have been removed, defaced or replaced in any way). Purchasing from an Authorized Nice Internet Dealer insures that the product was intended for consumer use, has passed all quality inspections and is safe. Buying through auction sites or unauthorized dealers may result in the purchase of salvaged, failed and/or products not intended for use in the US. In addition, Authorized Nice Internet dealers have demonstrated sufficient expertise to insure warranty compliant installations. For a list of Authorized Nice Internet Dealers go to <http://na.niceforyou.com>.

\$5,000,000 Connected Equipment Limited Protection Policy*

Signal-line protection modules are required for the connected equipment policy. You can use other Nice component units or signal-line protection modules. The grounds of the devices must be terminated together. All Nice Warranties and Connected Equipment Policies are valid only in the United States and Canada.

*Full Warranty and policy Information available at <http://na.niceforyou.com>.

LIMITED THREE YEAR WARRANTY

What is Covered?

Nice North America LLC ("NICE NORTH AMERICA") warrants to consumers who purchase this product that the product will be free from defects in materials and workmanship for a period of three (3) years (terms will vary depending on product) from the date of purchase. It is not transferable.

If a defect exists, NICE NORTH AMERICA will have you ship the defective part or product to us and we will, at our option, either repair or replace it. This warranty does not cover the cost of labor to remove a defective part or product or to reinstall any repaired or replacement part or product.

This warranty does not cover defects or damages caused by improper handling, maintenance, storage, installation, removal or re-installation, misuse, non-factory authorized modification or alteration, use of incompatible accessories, impact by foreign objects, accident, fire, acts of God, normal wear and tear or shipping damage other than a shipment from NICE NORTH AMERICA.

Keep your original sales receipt as it will be required to obtain warranty service. This warranty should not be extended or restarted upon receipt of any repaired or replacement part or product under this warranty. No person is authorized to extend or otherwise modify this warranty.

Limitations

THE DURATION OF ANY IMPLIED WARRANTY, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, Should NOT EXCEED THE WARRANTY PERIOD PROVIDED HEREIN.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

NICE NORTH AMERICA Should NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE BREACH OF ANY WRITTEN OR IMPLIED WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights, and you may also have other legal rights which vary from State to State.

How do I Obtain Warranty Service?

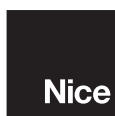
Customers in the United States

To obtain warranty service, email our Returns Department at returns@niceforyou.com. Include your name, address, telephone number, the model number of your product, a copy of your original sales receipt, and a description of the problem. Unless we need to discuss the situation further, you will be emailed a Return Authorization Number and shipping instructions. If we need to discuss the situation further with you, we will call or email you. NICE NORTH AMERICA may require troubleshooting on installed product before a Return Authorization Number is issued. Anything shipped to us without a Return Authorization Number will be automatically returned unopened. You are responsible for the charges for shipment to us.

Customers outside of the United States

For customers outside of the United States, you are required to address any warranty service requests to the dealer from which you purchased the Nice North America product or the distributor that supplied such product.

For purchasers whose warranty rights are governed by the consumer protection laws or regulations of a country other than the U.S., the benefits conferred by this warranty are in addition to any conferred by such other laws or regulations, and any limitations of rights stated in this warranty may or may not apply.



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