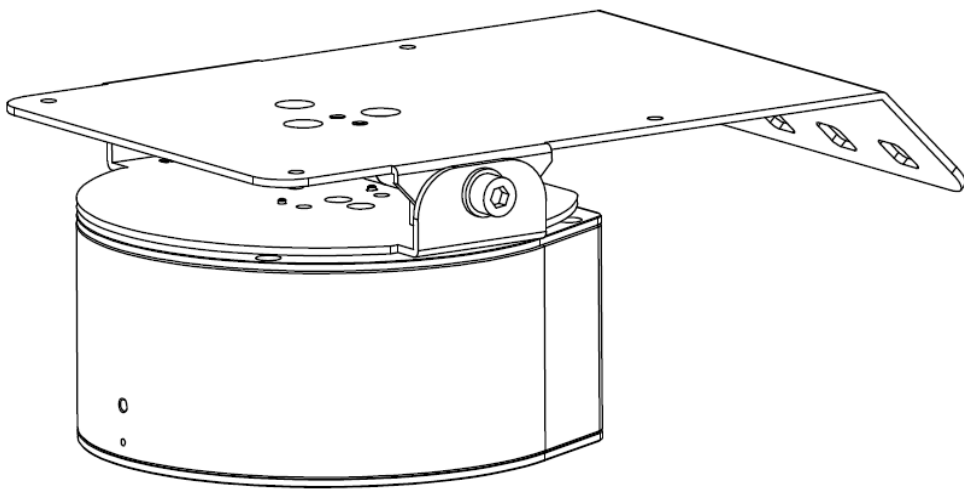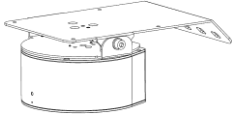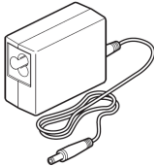# PTH-01

User Manual - English

To download the latest version of Quick Start Guide, multilingual user manual, software, or driver, etc., please visit Lumens
https://www.MyLumens.com/support
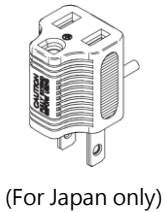
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Content

Chapter 1. Packing List

PTH-01	Power Adapter	Power Cord	Cable Tie (x4pcs)
		Appearance may vary depending on county/ region	
3PIN-2PIN Connector			
(For Japan only)			

Chapter 2. Product Appearance

2.1 I/O interface

Front

Back
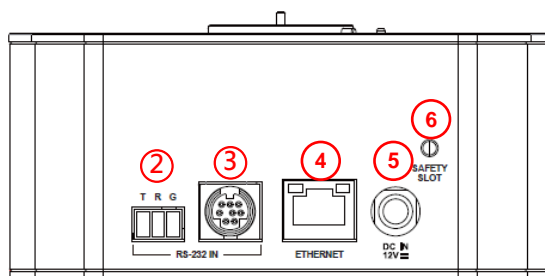
NO.	Item	Function Descriptions
1.	LED Indicator	Displaying the PTH-1 status
2.	RS-232 IN (Phoenix connector)	RS-232 input port, supporting Phoenix connector
3.	RS-232 IN (Mini-Din connector)	RS-232 input port, supporting Mini-Din connector
4.	Network port	Network cable port, supporting PoE (IEEE802.3af) power supply.
5.	DC 12 V power Port	DC supply connecting port
6.	Safety Slot	Insert a compatible Kensington lock into the Safety Slot on the device.

2.2 Power Supply

- Connect the power cord to supply power.
- Supports PoE (IEEE 802.3af) as an alternative power source

2.3 LED indicator

LED indicator	LED status	Description
●	Off	No power
●	Orange (Solid)	Startup in progress
●	Green (Solid)	System is initialized and ready for control.
●	Green (Blinking)	PTH-01 is in motion.
●	Red (Solid)	Firmware update process

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Chapter 3. Installation Instructions

3.1 PTH-01 Dimension

- Length x Width x Height: 223.21 x 153.8 x 83.3mm
- Weight: 1.8Kg
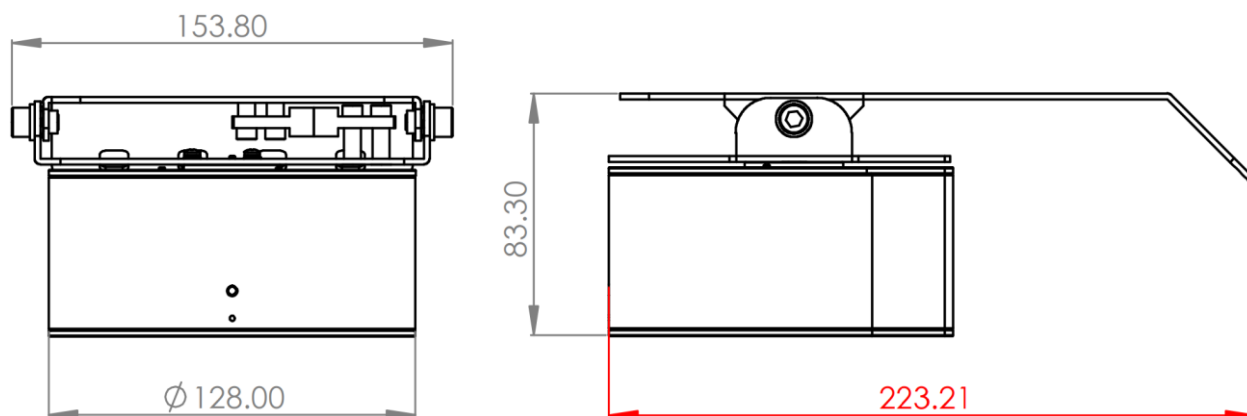
- Dimensions of the bottom

  The device can be mounted on a 1/4" - 20 UNC PTZ tripod deck by using the lock holes on the bottom for the tripod

3.2 Connecting devices

Note Ethernet support PoE (IEEE802.3af)

3.3 RS-232 Pin Definition (Mini-DIN)

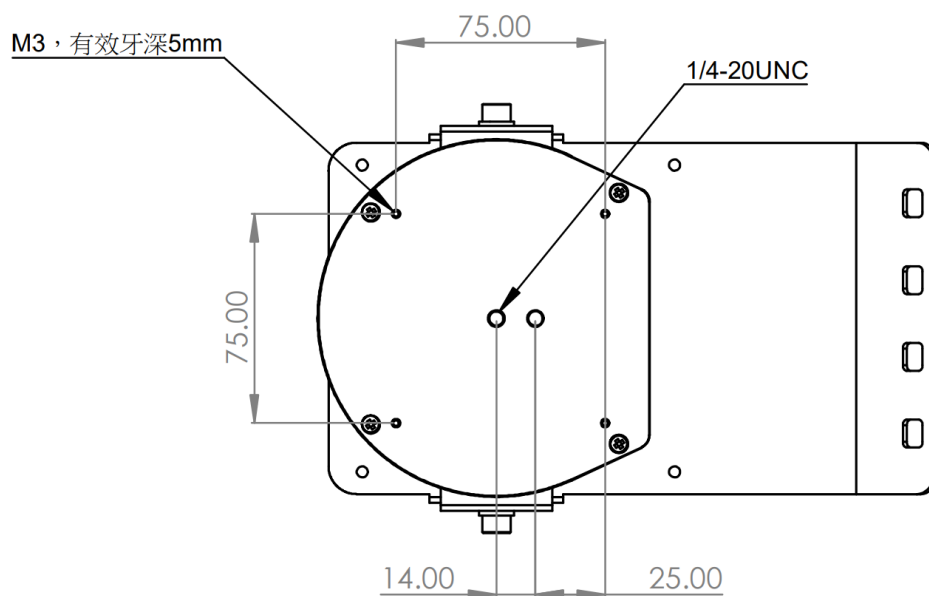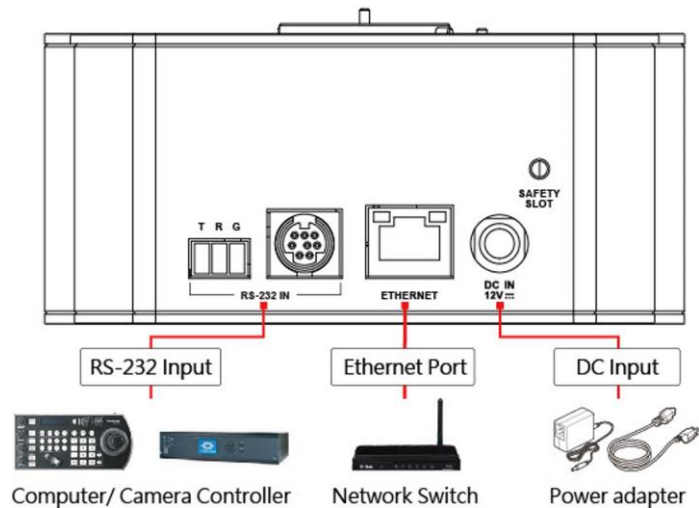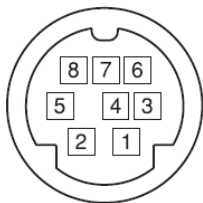| No	Pins
1	DTR IN
2	DSR IN
3	TXD IN
4	GND
5	RXD IN
6	GND

3.4 PTH-01 Control Method

The PTH-01 can be controlled through multiple methods depending on your setup. Below are the supported control options:

- Web Interface

Enter the PTH-01's IP address in the web browser and access the control panel to operate pan movement and manage presets.

If you need to identify the current IP address assigned to the device, we recommend using the ONVIF Device Manager software. This tool can automatically detect ONVIF-compatible devices on the network and display the IP address of PTH-01.

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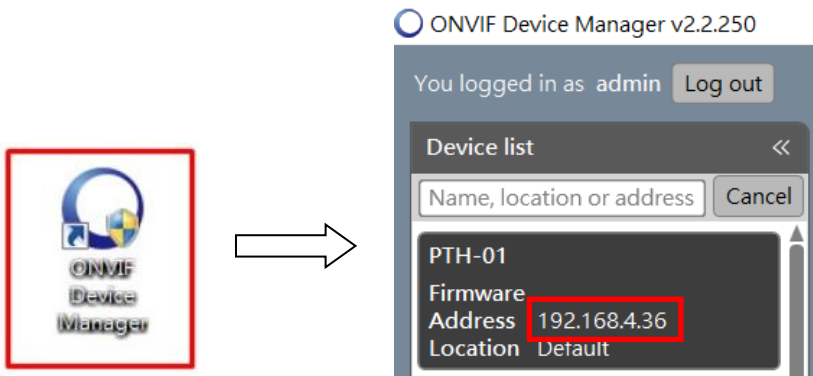
Note:

If the PTH-01 fails to obtain an IP address via DHCP, it will fall back to the default static IP address: 192.168.100.100.

- RS-232 Control

Connect the controller or PC to the PTH-01 using the Mini-DIN or Phoenix connector.

Send VISCA protocol commands to control the device via serial communication.

- Keyboard Controller (e.g., Lumens VS-KB21)

Connect the VS-KB21 to the same network using an Ethernet cable.

Use the search function on the keyboard controller to locate the PTH-01's IP address.

Control the PTH-01 directly from the keyboard interface.

Tip:

Before adjusting presets or controlling the PTH-01, it is recommended to open the camera's web interface to monitor the live view. This enables you to observe the camera's movement in real time and accurately fine-tune the pan position before saving presets.
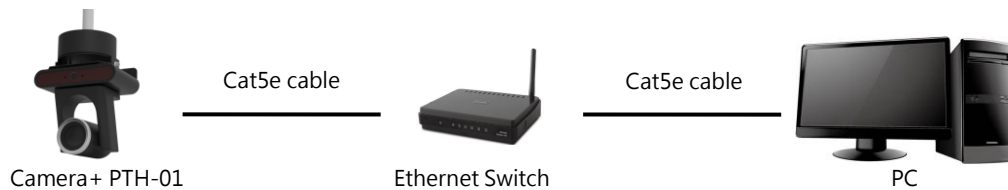
Chapter 4. Network setting and Web interface

4.1 Connecting to Network

4.1.1 Connection

Please find the two common connection methods below.

- Connecting via switch or router

Camera+ PTH-01   Ethernet Switch   PC

- Connecting directly to the PC

When connecting directly via a network cable, set the computer's IP address to the same network segment as the PTH-01.

E.g.: If the PTH01's default IP is 192.168.100.100, set the computer's IP to 192.168.100.101.

Camera+ PTH-01   PC
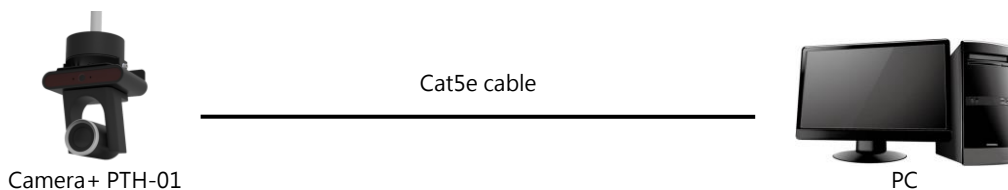
- Change network settings
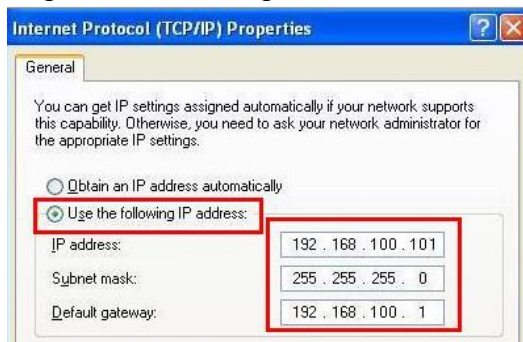
4.1.2 Using the Browser to View the Image

- Open the browser, and enter the IP address of the device in the address bar
  E.g.: http://192.168.100.100 (default IP address)
- Enter Username and password

Note For first-time login, please go to **4.2.5 System – User** to change the default password.

- Username：admin
- Password：9999 (Default)

4.2 Web Interface

4.2.1 Live View

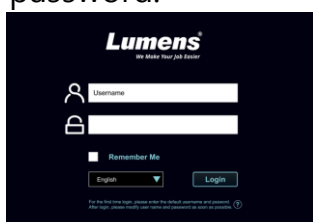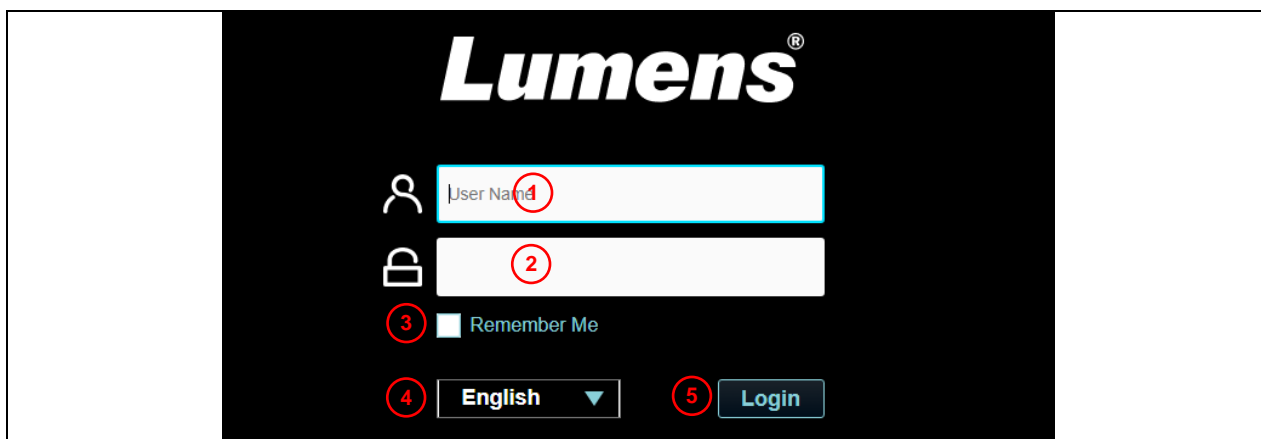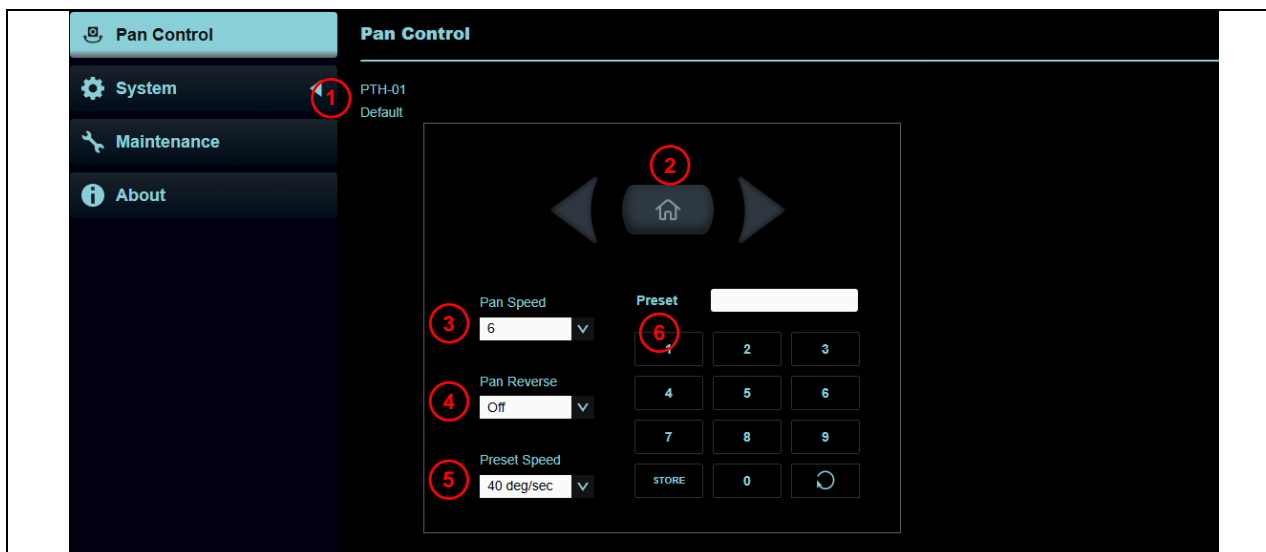| No	Item	Descriptions
1	User Name	Enter user login account (default: admin)
2	User Password	Enter user password (default: 9999) `Note` For the first-time login, please refer to **4.2.5 System - User** to change the default password
3	Remember Me	Save user login account and password to the browser. When you log in next time, there is no need to re-enter them
4	Language	Supporting English/Traditional Chinese/Simplified Chinese
5	Login	Log into the administrator screen on the website

4.2.2 Pan Control

No	Item	Descriptions
1	Device Name/location	Display device name/location
2	Pan Control	Click left/right button to control the PTH-01. Hold the button to continuously perform actions.
3	Pan Speed	Select pan speed setting to controls how fast the PTH-01 moves left or right.
4	Pan Reverse	Change the pan direction (left/right)
5	Preset Speed	Set the rotation speed when Preset is executed
6	Preset	Store and recall specific PTH-01 positions using presets

4.2.3 System – Device

Descriptions
Edit device ID/ Location ■ Device ID: Supporting 1 - 15 characters ■ Location: Supporting 1 - 30 characters Note Modifying this field will also update the ONVIF device name/location.

4.2.4 System - Network

Descriptions

Network Settings
 	
■ If no network connection or DHCP server is available during startup, the default IP address will be 192.168.100.100.
 	
    After getting an IP:
      – If the cable is unplugged, the IP stays the same.
      – If the router stops DHCP, it reverts to 192.168.100.100.
 	
■ When the DHCP function is disabled, the network settings can be manually configured.
■ The default HTTP port is 80.

4.2.5 System – User

Descriptions
Add/ Modify/ Delete user account ■ Supporting 4 - 32 characters for user name and password ■ Please mix uppercase and lowercase letters or numbers for characters. Special symbols or the underlined cannot be used [Note]Factory Reset will also clear the User's data.

4.2.6 System – Control

No	Item	Function Descriptions
1	RS232 Connector Type	Select Mini-Din or Phoenix connector
2	Baud Rate	Choose the transmission speed of the control signal as 9600/ 38400
3	VISCA address	The ID address 0~7 can be assigned. Select 0 for automation
4	Led Status	Enable/ Disable the LED indicator on the PTH-01

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4.2.7 Maintenance

No	Item	Function Descriptions
1	Firmware Upgrade	Select the firmware file and click [Upgrade] to start the update. [Note] Please do not operate or turn off the power of the device during the update to avoid firmware update failure.
2	Factory Reset	■ Reset：Reset all configurations to factory default settings ■ Reboot：Reboot the device.
3	Configuration	Save setup parameters as a Profile, and users can download and upload the setup parameters

4.2.8 About

Function Descriptions
Display the firmware version, serial number, and other related information of the device. For technical support, please scan the QRcode at the bottom right.

Chapter 5. Troubleshooting

This chapter describes problems you may encounter while using the PTH-01. If you have questions, please refer to related chapters and follow all the suggested solutions.
If the problem still occur, please contact your local distributor or Lumens.

No	Problems	Solutions
1.	**No power**	1. Make sure you have plugged in the power cord. 2. When using a PoE connection, ensure that the power supply supports PoE(IEEE 802.3af)
2.	**RS-232 cannot be controlled**	1. Refer to **3.3 RS-232 Pin Definition (Mini-DIN)** to Confirm the connection is correct. 2. Please make sure the Baud rate setting is the same as the control equipment
3.	How to log into the webpage when you forget the password	Please contact the local distributor or Lumens.

Chapter 6. Safety Instructions

Always follow these safety instructions when setting up and using the device:

1 **Operation**

　1.1 Please use the product in the recommended operating environment, away from water or source of heat

　1.2 Do not place the product on a tilted position or unstable trolley, stand or table.

　1.3 Please clean the dust on the power plug prior to usage. Do not insert the product's power plug into a multiplug to prevent sparks or a fire.

　1.4 Do not block the slots and openings in the case of the product. They provide ventilation and prevent the product from overheating.

　1.5 Do not open or remove covers, otherwise it may expose you to dangerous voltages and other hazards. Refer all servicing to licensed service personnel.

　1.6 Unplug the product from the wall outlet and refer servicing to licensed service personnel when the following situations happen:

　　　■ If the power cords are damaged or frayed.

　　　■ If liquid is spilled into the product or the product has been exposed to rain or water.

2 **Installation**

　2.1 For security considerations, please make sure the standard hanging rack you bought is in line with UL or CE safety approbations and installed by technician personnel approved by agents.

3 **Storage**

　3.1 Do not place the product where the cord can be stepped on as this may result in fraying or damage to the lead or the plug.

　3.2 Unplug the product during thunderstorms or if it is not going to be used for an extended period.

　3.3 Do not place the product or accessories on top of vibrating equipment or heated objects.

4 **Cleaning**

　4.1 Disconnect all the cables prior to cleaning and wipe the surface with a dry cloth. Do not use alcohol or volatile solvents for cleaning.

■ **Precautions**

	This symbol indicates that this equipment may contain dangerous voltage which could cause electric shock. Do not remove the cover (or back). No user-serviceable parts inside. Refer servicing to licensed service personnel.		**WARNING**
			This symbol indicates that there are important operating and maintenance instructions in this User Manual with this unit.

■ ⚠ **Battery Warning (for products or accessories with batteries)**

　General Safety Warnings:

　　　■ Do not heat or dispose of the battery in fire, as it may explode or leak.

　　　■ Avoid short-circuiting: Do not connect the positive and negative terminals directly or use metallic objects to connect them.

　　　■ Do not disassemble, crush, puncture, or modify the battery.

　　　■ Do not immerse the battery in water or any other liquids.

　Usage and Storage Warnings:

　　　■ Do not store the battery in high-temperature environments (above 60°C) or in areas with high humidity.

　　　■ Keep away from direct sunlight and heat sources.

　　　■ If not in use for a long period, remove the battery and store it in a cool, dry place.

　Disposal and Recycling Warnings:

　　　■ Do not dispose of the battery in household waste; follow local regulations for proper disposal and recycling.

　　　■ If leakage occurs, avoid contact with the leaked substance and clean the affected area immediately.

　Child Safety Warnings:

　　　■ This product contains a button battery. Ingestion of a button battery can cause severe internal burns within 2 hours and may result in death.

　　　■ If a battery is swallowed or if internal battery material is contacted, seek medical attention immediately.

　　　■ Store batteries (whether new or used) in a place that is out of reach of children.

　　　■ If the battery compartment does not close securely, stop using the product and keep it away from children.

■ **FCC Warning**

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.

Notice :

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

■ **IC Warning**

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus," ICES-003 of Industry Canada.

Cet appareil numerique respecte les limites de bruits radioelectriques applicables aux appareils numeriques de Classe A prescrites dans la norme sur le material brouilleur: "Appareils Numeriques," NMB-003 edictee par l'Industrie.

■ **EN55032 CE Warning**

Operation of this equipment in a residential environment could cause radio interference.

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