



Keyboard

Quick Start Guide

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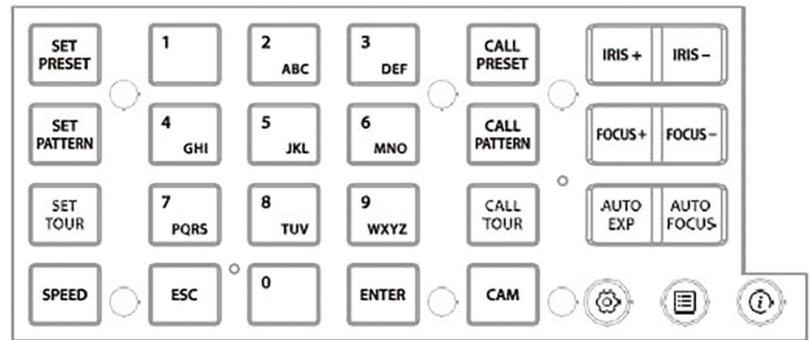
Legend NX: Keyboard

The KA3 keyboard features a new design made from durable PC+ABS material, offering excellent maneuverability and effectively addressing the challenges of operating cameras through a web interface. Its sleek and elegant design exudes sophistication, combining simplicity with a visually appealing appearance. The industrial-grade LCD module delivers a clear and precise display with finely detailed characters.



- Supports both network and analog control modes, with an independent IP address for network mode.
- Compatible with ONVIF, PELCO-P, and PELCO-D protocols.
- Enables software-based camera control, including centralized management functions.
- Features a high-quality variable-speed, four-dimensional joystick for precise and comfortable operation. The joystick allows full-range camera rotation and lens zoom, with speed adjustments based on applied pressure for smooth or rapid control.
- Allows configuration of front-end device parameters through a web browser.

1. Appearance



Rear Panel

#	Name	Detail
1	DC12V	Standard 5.5mm x 2.1mm power interface, compatible with DC 12V, 1A ±10%
2	RJ45 Port	Equipped with a network interface that supports RJ45 connections.
3	RS485	Supports RS-422 and RS-485 interfaces.

Front Panel

Key	Detail
Set Preset	Press [SET PRESET], then enter the number and press [Confirm] to successfully save the preset.
Call Preset	Press [CALL PRESET], then enter the number and press [Confirm] to successfully call the preset.
Set Pattern	Press [SET PATTERN], set the pattern scan number, and press [Confirm] to start learning mode. Once completed, press [SET PATTERN] again to exit learning mode. This key can then be used in conjunction with the joystick or other functions for replication operations.
Call Pattern	Press [CALL PATTERN], enter the number, and press [Confirm] to successfully call the pattern scan.
Set Tour	To set the cruise trajectory, press [SET TOUR] to enter cruise mode. Assign a cruise number, then press [Confirm]. Add the preset points, set the cruise time, and press [Confirm] again to complete the setup.
Call Tour	Press [CALL TOUR], and ensure the cruise is successfully initiated by pressing [Confirm].
Iris +/-	IRIS+ increases the aperture size, and IRIS- decreases it.
Focus +/-	FOCUS+: Moves the focus farther to make nearby objects clearer. Long pressing increases the focal length for extended far-focus adjustment. FOCUS-: Moves the focus closer to make distant objects clearer. Long pressing decreases the focal length for extended near-focus adjustment.
Auto Exp	Click the button to activate automatic exposure mode, enabling the screen exposure to adjust automatically.
Auto Focus	Click to activate auto-focus, enabling the camera to automatically focus on the object.
0-9	Numeric keys 0-9 are used for assigning functions.
Speed	The speed can be adjusted to match the head's operation, offering three levels: low, medium, and high.
ESC	Exit button.
Enter	Confirm the keys (remote sensing keys).
	Keyboard configuration keys.
	View the list of added devices.
	The keyboard device information includes details such as the firmware version, hardware version, web version, IP address, gateway, and subnet.
CAM	The camera number allows quick switching to the device linked to the camera's encoding (CMA Number Enter switch).

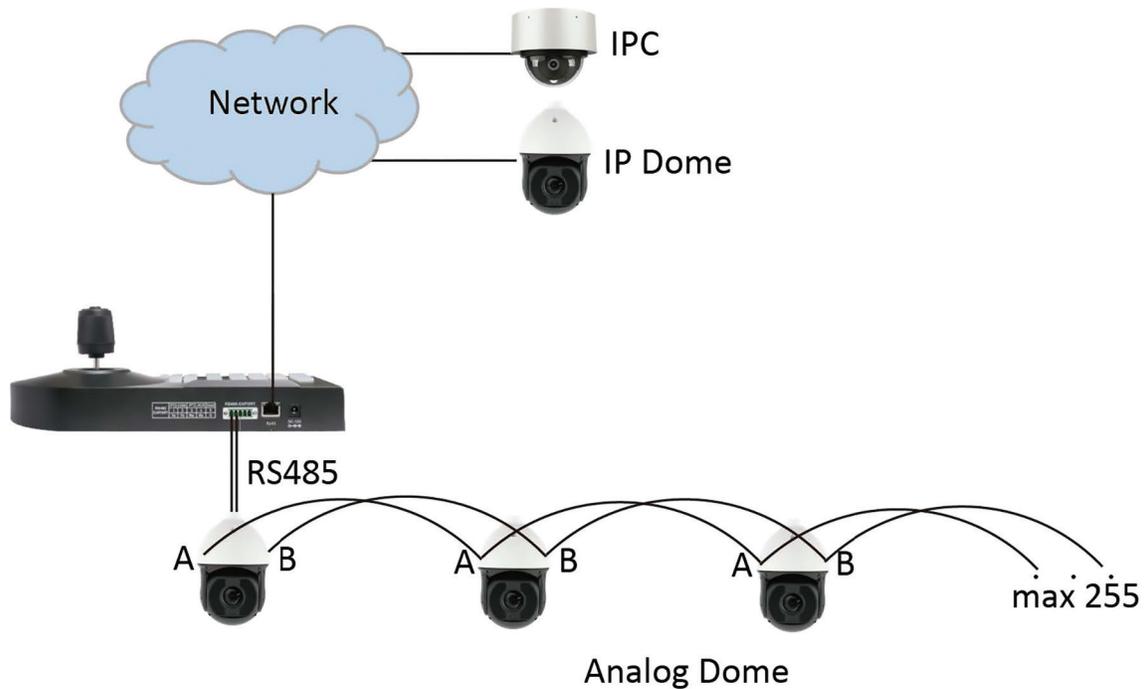
[NOTE] The control keyboard cannot be activated if this feature is not supported by the following protocols or the Fastball system itself

Rotary Rocker

Operating	Output control	Operating	Output control	Operating	Output control
	UP		Down		Left
Operating	Output control	Operating	Output control	Operating	Output control
	Right		Zoom+ (3D only)		Zoom- (3D only)

[NOTE] Use the joystick to move the camera up, down, left, or right. Rotate it left or right to adjust the zoom in or out.

2. Application



Networking Connections

The keyboard connects to the IPC/IP Dome within the same LAN, ensuring that both devices are on the same network segment. By default, the keyboard acquires its IP address through DHCP.

[NOTE] Devices are on the same network segment if their IP addresses share the same subnet, such as 192.168.1.123 and 192.168.1.111. However, 192.168.1.123 and 192.168.0.125 are on different segments, requiring the IP address of either the keyboard or the camera to be modified.

RS485 Connections

- Connect the RS485+ terminal of the PTZ camera to the “Ta” terminal of the keyboard, and the RS485- terminal of the PTZ camera to the “Tb” terminal of the keyboard.
- When connecting multiple analog domes, link RS485+ to RS485+ and RS485- to RS485-.

[NOTE] A single keyboard can connect to a maximum of 255 analog domes.

3. Connect Additional Devices

Add Network Devices

Steps:

1. Use the keyboard  to access the main menu.
2. Select [>Device:Add], then enter the IP address, port, username, and password to add the webcam and finalize the setup.

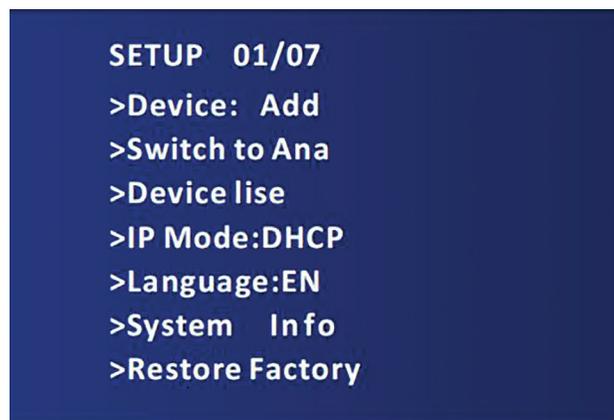


3. Select the  to access the query interface, choose the added IP address, and confirm the connection (or click “CAM”). The connection is established by confirming the number assigned to the camera.

Add Analog Equipment

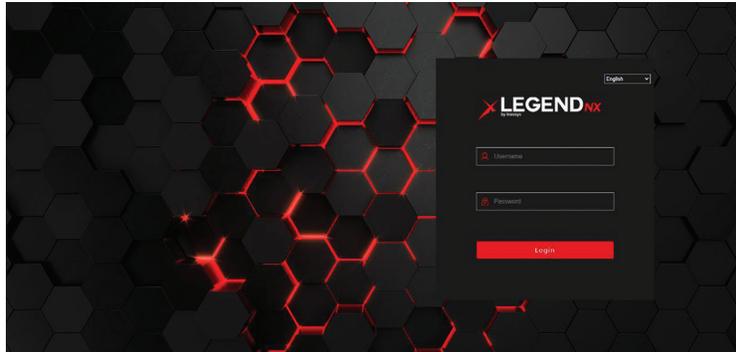
Steps:

1. Click on  to open the keyboard settings main menu. Select option 2 and press [Confirm] to switch to analog mode.
2. Click on  again, select option 1 [Device: Add], and add a simulator. Update the settings for one or all cameras as needed, then configure the ball machine protocol ([Pelco-D/P]), [Baud Rate], and [Address].
3. Click on  to enter the query interface. Select the added IP address and confirm the connection (or click [CAM]). Confirm the camera number to complete the connection. (Refer to the photo for further details.)
4. Description of the Main Menu Settings Interface:

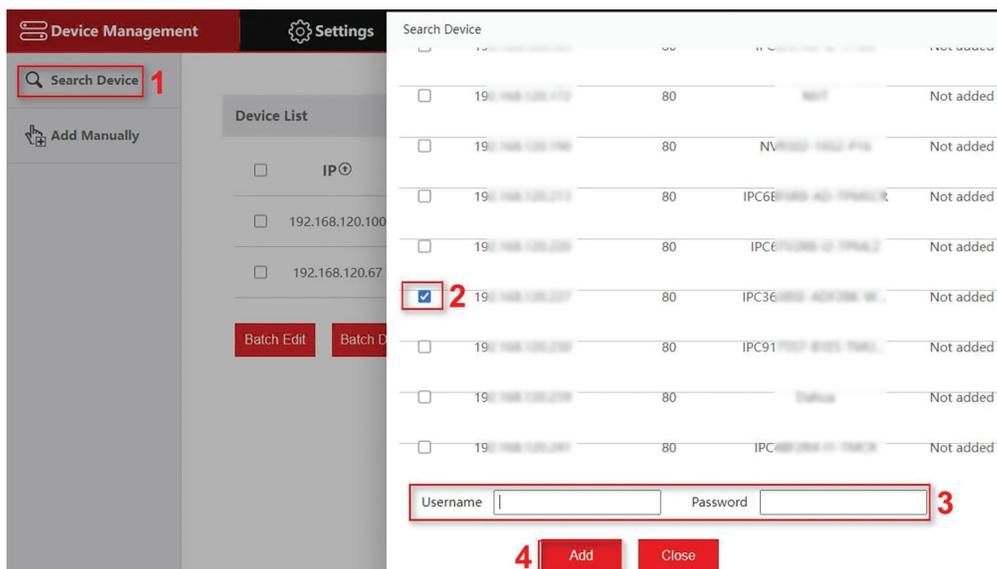


Add Equipment from the Web

1. Connect the keyboard's power cord and network cable. Once the keyboard starts, the local IP address (e.g., 192.168.x.xxx) will be displayed on the screen. Enter this IP address into a web browser to access the configuration page.
2. Log in using the default credentials: Username: admin, Password: Inaxsys256!



3. Click Search Device, select the camera to be added, and enter the camera's username and password.



4. Optional: You can manually add a camera by clicking Add Manually and entering the camera's IP address, ONVIF port, username, password, and camera ID.

Add Manually ×

IP E.g: 192.168.0.1

Type

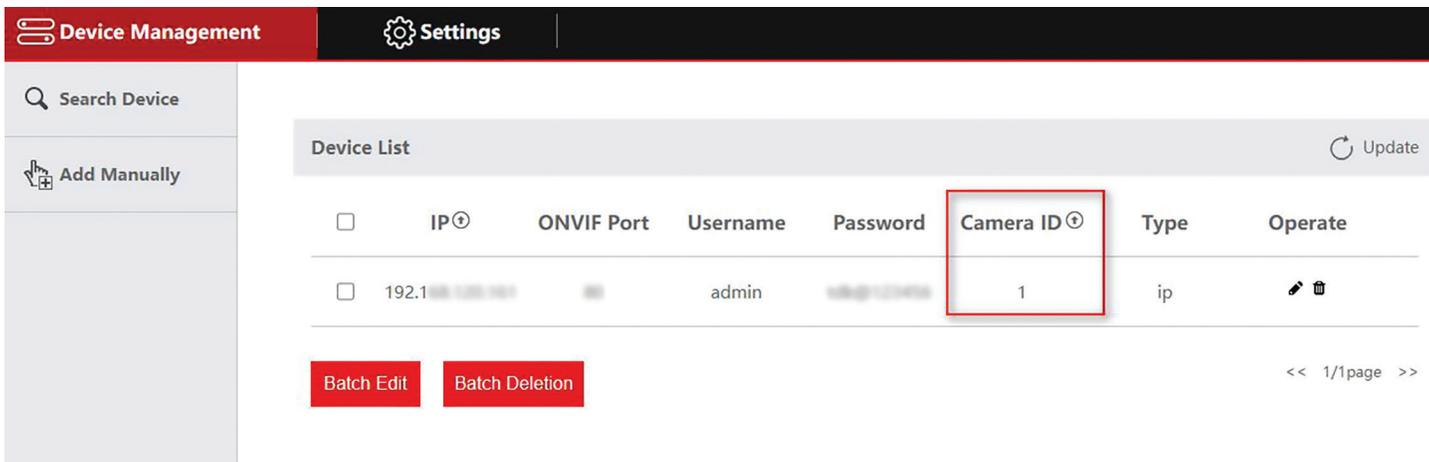
ONVIF Port Range: 0-65535

Username E.g: admin

Password E.g: admin

Camera ID Range: 1-9999

- Once the device is successfully added on the web page, use the corresponding number on the keyboard to control the dome.



The screenshot displays the 'Device Management' section of a web interface. It features a sidebar with 'Search Device' and 'Add Manually' options. The main area shows a 'Device List' table with columns for selection, IP, ONVIF Port, Username, Password, Camera ID, Type, and Operate. The 'Camera ID' column for the first device is highlighted with a red box. Below the table are 'Batch Edit' and 'Batch Deletion' buttons, and a pagination indicator showing '<< 1/1page >>'. An 'Update' button is located in the top right of the table area.

<input type="checkbox"/>	IP	ONVIF Port	Username	Password	Camera ID	Type	Operate
<input type="checkbox"/>	192.168.1.100	80	admin	admin@123456	1	ip	 

[NOTE] For detailed instructions on keyboard operation, please consult the user manual.

4. Warning



This symbol is meant to notify users of critical operations and maintenance instructions in the product documentation.



This symbol is meant to warn users of exposed 'dangerous voltage' within the product enclosure, which could pose an electric shock risk to untrained individuals.

Warning : RISK OF ELECTRIC SHOCK. DO NOT OPEN

CAUTION SHOCK : To minimize the risk of electric shock, do not remove the cover or rear panel. There are no parts inside that can be serviced by the user. Contact the supplier for product assistance.

CAUTION : To avoid electric shocks and reduce the risk of fire, do not use an unspecified power source.

CAUTIONS:

Please be mindful of the Keyboard operating temperature and environmental conditions. Refrain from using the camera in excessively high or low temperatures. The recommended operating range is 0°C to 55°C.

Do not place the keyboard near radiators or other heat sources.

Make sure the power supply matches the device's specifications. Check that the output voltage, current, polarity, and operating temperature are within the required range for the keyboard's power supply.

During a thunderstorm, make sure an anti-thunder device is connected, or disconnect the camera's power supply.

