Boom GOJO

the joystick companion for superior PTZ performance



Quick Guide

boom collaboration

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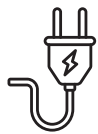
Handling your new Boom GOJO

- Do not expose to rain, moisture, temperatures, or humidity outside the normal range or use power supplies not designed for this product.
- Do not open the case. Installation and maintenance should be carried out by a qualified technician.
- Wipe the unit gently with a soft, dry cloth to clean. Do not use strong or corrosive detergents to avoid damaging the device.
- Installation and use must comply with electrical safety standards.
- Avoid damage to the product by heavy pressure, strong vibration or immersion during transport, storage and installation.
- Place on a stable desktop or horizontal surface.
- Do not expose the product to any liquid gas or solids which may corrode the shell.
- Do not power on before installation is complete.
- Do not disassemble the product. Any damage caused by dismantling the product without permission is not covered by warranty.

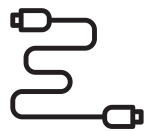
What's in the box



Boom GOJO



Power adapter



8ft(2.5m) RJ45 to DIN8 Cable



Quick Guide

Your new Boom GOJO joystick controller

Boom GOJO offers the ultimate in camera control with 4-dimensional joystick to control pan, tilt, zoom functions as well as speed. Easily adjust focus, color, PTZ and shutter speed with quick-adjust knobs. Quick buttons allow for simple programming of presets and shortcuts. 4 dedicated camera select buttons toggle cameras seamlessly for the ultimate control in broadcast and live event settings.

Boom GOJO highlights and features

Quick switch control: easily control multiple cameras on a single system with quick switch control for 4 cameras and up to 255 cameras total

Easy control knobs: color, focus, iris/shutter and PTZ speed control at your fingertips

Multiple control protocols: IP VISCA, ONVIF, NDI, SONY VISCA, PELCO-D and PELCO-P

LCD Display: allows for easy setup and programming

4D joystick: direct control of full PTZ functions including speed control and zoom

GOJO controller layout



Quick-adjust knobs



B: Blue gain +-



R: Red gain +-



FOCUS: Focus



IRIS/SHUTTER: Iris/shutter adjust



P/T SPEED: PT speed adjust



ZOOM SPEED: Zoom speed adjust

Camera functions - quick buttons



One push white balance



Auto/manual white balance



Auto/manual focus



One push auto focus



Auto/manual iris, manual shutter

CAM 1-4

Select CAM 1-4

F 1-4

Configure shortcuts for F1-F4

MENU

Camera menu

BLC

Back light contrast on/off

SETUP

Setup

SEARCH

auto search in LAN

INQUIRE

view/connected saved devices

ADD

manual add devices in LAN

LOCK

Lock control keys

CALL

call presets

0-9

preset options

PRESET

set presets

RESET

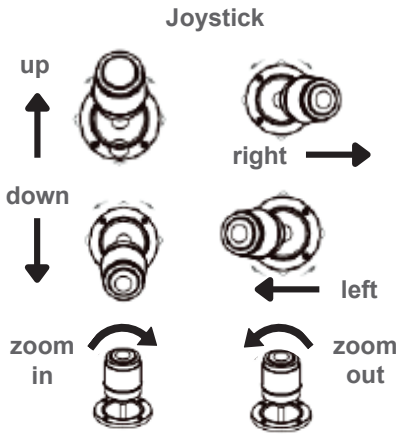
reset presets

CAM

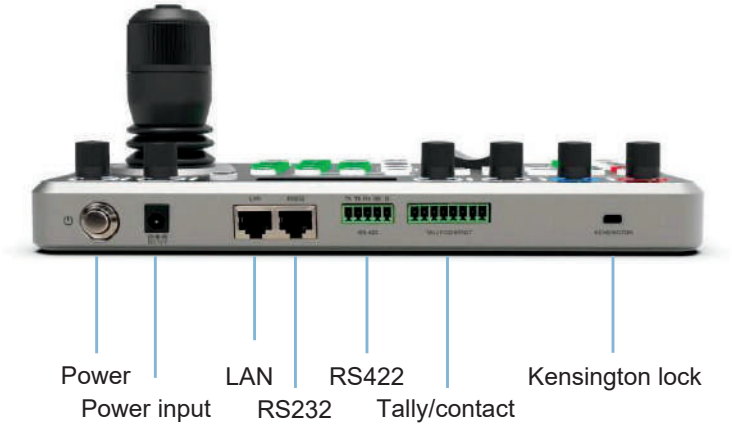
switch channel

ENTER

confirm control settings



Interfaces and connections



Technical specifications

Ethernet	Ethernet port
Joystick Function	4 dimension (up, down, left, right) joystick buttons and zoom function
Working Power	DC12V1A±10%
Power Consumption	0.6W max
Working Temperature	0°C-50°C (32°F-122°F)
Storage Temperature	-20°C-70°C (-4°F-158°F)
Dimensions	270mm (10.63") x 135mm (5.31") x 110mm (4.33")

Let's get started

1. Power the GOJO by using the included power supply or by using a Power over Ethernet (PoE) cable connected to the LAN port. Turn on the GOJO by pressing the Power button.
2. Decide how you want to connect your camera(s) to the GOJO: **IP Control** over a Local Area Network (LAN) or via **Serial/Analog Control** over RS232/RS422/RS485.

   * For example, the Boom MAGNA PTZ camera offers Network Control over the LAN port as well as Serial/Analog control options over RS232/RS422/RS485 while the Boom MIDI PTZ camera offers Serial/Analog Control over RS232/RS485.

   For IP Control: Connect an Ethernet cable from your Local Area Network (LAN) to the GOJO LAN port and to compatible camera(s) you want to control then see page 9-12 for adding camera(s).

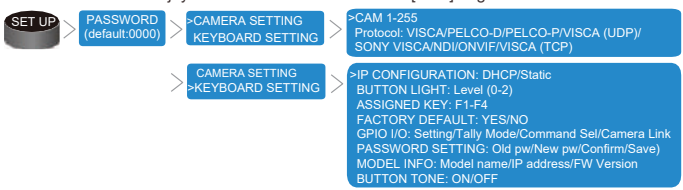
   For Serial/Analog Control:

   RS232: Use the included RJ45 to DIN8 cable for RS232 connection to the GOJO RS232 port.

   RS422: for RS422/RS485 connection use a CAT5/CAT6 twisted pair cable connected to the GOJO RS422 port.

   See page 13-15 for adding camera(s).

* To access the GOJO menu press [SETUP] and use joystick to navigate. Press [ENTER] or the button on the joystick to confirm selection. Use [ESC] to go back.



Adding a camera with IP Control

Connect a compatible camera (ex. Boom MAGNA) with an Ethernet cable on the same Local Area Network (LAN) as the GOJO controller.

Automatic camera search

1. Press the [SEARCH] button on the GOJO to enter the search interface.
2. Use joystick (up/down) to select VISCA, ONVIF or NDI protocol and press [ENTER] or joystick button to confirm. GOJO will initiate search for connected camera(s).
3. A list of cameras with IP address will be presented, use joystick (up/down) to select camera and press [ENTER] or joystick button to confirm.
4. Assign a Cam ID number between 1-255, press [ENTER] or joystick button to confirm. LCD display will indicate that the camera has been connected successfully. Press [ESC] to exit and return to main menu.
5. To select a saved camera for use press [CAM] button + Cam ID number followed by [ENTER] or joystick button to confirm selection.

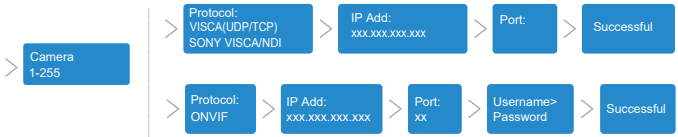
Note: The ONVIF protocol requires Username (admin) & Password (admin) to be entered after step 3. Use the number buttons on the GOJO and double press the buttons to switch from number to letters.



Manually add camera(s)

1. Press [ADD] button on the GOJO.
2. Assign a Cam ID number between 1-255, press [ENTER] or joystick button to confirm.
3. Use joystick (left/right) to select VISCA(UDP), SONY VISCA(UDP), VISCA(TCP), ONVIF or NDI desired protocol for IP control.
4. Enter IP address of camera to control, press [ENTER] or joystick button to confirm. The Boom MAGNA camera IP address can be found in the camera's menu under Network settings.
5. Enter Port number corresponding with the selected Protocol then press [ENTER] or joystick button to confirm. Default port for:
VISCA(UDP/TCP): 1259
SONY VISCA: 52381
ONVIF: 2000
NDI: 5961
6. LCD display will indicate that the camera has been connected successfully. Press [ESC] to exit and return to main menu.
7. To select a saved camera for use press [CAM] button + Cam ID number followed by [ENTER] or joystick button to confirm selection.

Note: The ONVIF protocol requires Username (admin) Password (admin) to be entered after step 3. Use the number buttons on the GOJO and double press the buttons to switch from number to letters.



Add camera(s) via web interface

The GOJO web interface lets you add camera(s) (ONVIF protocol only), adjust network settings, edit account users and upgrade firmware. The computer, GOJO and camera(s) must be connected over the same Local Area Network (LAN). Open a web browser, type in the GOJO IP address and login in to the web interface with Username (default: admin) and Password (default: blank).

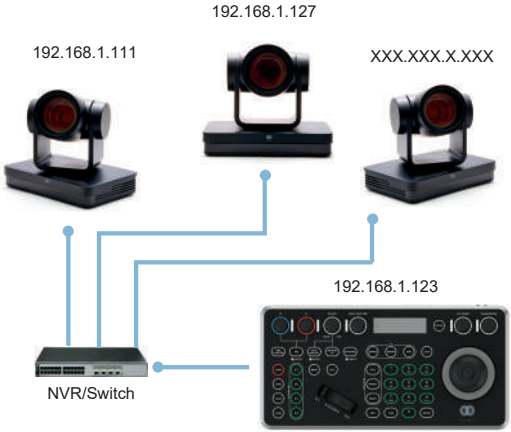
Search Device on Local Area Network (LAN)

1. Click [🔍] icon in the web interface to search for connected camera(s).
2. Select camera to add from devices listed by marking [◉].
3. Click [+] icon to assign Camera ID number between 1-255 and enter ONVIF Username (default: admin) and Password (default: admin).
4. Click [Confirm] to add camera(s) to the Device List.
5. To select a saved camera on the Device List press the GOJO [CAM] button + Cam ID number followed by [ENTER] or joystick button to confirm selection.

Manually add Device on Local Area Network (LAN)

1. In the Device List click [ ] icon to manually add a camera.
2. Enter camera IP address, ONVIF port (default: 2000), assign Camera ID number between 1-255 and ONVIF Username (default: admin) and Password (default: admin).
3. Click [Confirm] to add camera(s) to the Device List.
4. To select a saved camera on the Device List press the GOJO [CAM] button + Cam ID number followed by [ENTER] or joystick button to confirm selection.

IP connection overview:



Protocol: IPVISCA, ONVIF, NDI

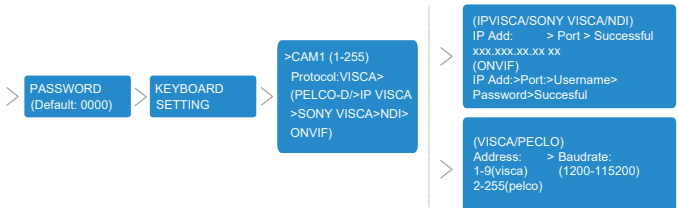
The GOJO and camera(s) must to be connected on the same Local Area Network (LAN) and in the same IP address segment. Dynamic Host Configuration Protocol (DHCP) is the default setting on the GOJO. To set a Static IP address, press [SETUP] enter password (default: 0000) select KEYBOARD SETTING and then IP CONFIGURATION. Use joystick (left/right) to change from DHCP to Static and enter the Static IP address.

*Ex.: If 192.168.1.123 and 192.168.1.111 are in the same IP segment but not on the same LAN, correct the IP address on GOJO or camera(s).

Adding a camera with Serial/Analog Control

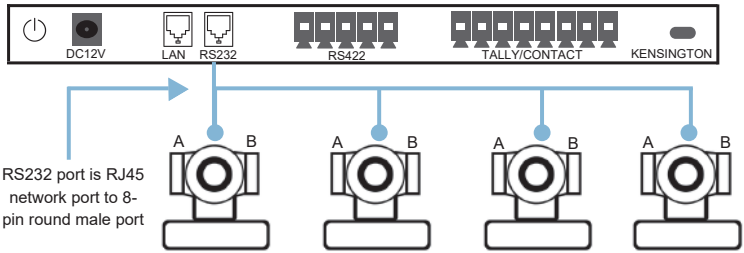
Connect a compatible camera (ex. Boom MIDI) with the included RJ45 to DIN8 cable directly to the GOJO RS232 port or via the RS422 port.

1. Press the [SETUP] button and enter the GOJO password (default is: 0000), select CAMERA SETTING and press [ENTER] or joystick button to confirm.
2. Use joystick (left/right) between 1-255 to assign a Cam ID and then select VISCA, PELCO-D or PELCO-P for serial/analog control, press [ENTER] or joystick button to confirm.
3. Enter address of camera to control, press [ENTER] or joystick button to confirm. Default address in Boom PTZ cameras is 1, this can be adjusted in the camera's menu under SETUP.
4. Use joystick (left/right) and select desired baudrate, press [ENTER] or joystick button to confirm. Default baudrate in Boom PTZ cameras is 9600, this can be adjusted in the camera menu under SETUP.
5. LCD display will indicate that the camera has been connected successfully. Press [ESC] to exit and return to main menu.
6. To select a saved camera for use press [CAM] button + Cam ID number followed by [ENTER] or joystick button to confirm selection.

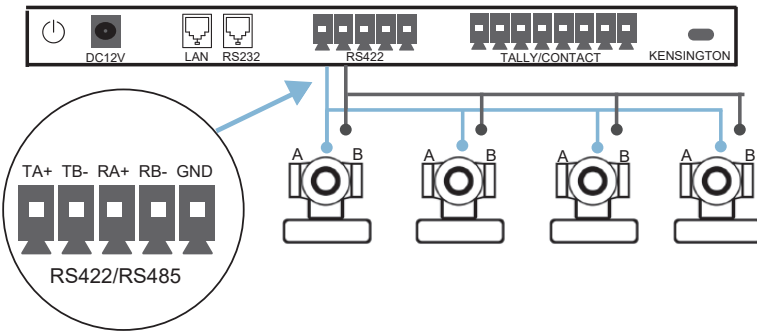


Serial/Analog connection overview:

Serial Port Connection: RS232



Serial Port Connection: RS422/RS485



Operating connected camera(s)

To operate a connected camera, first select the camera with the GOJO. Once selected, you have full remote operation of the camera(s) from the GOJO and can easily switch between multiple connected cameras. There are several options to select the active camera and toggle between cameras.

1. Use [CAM1]-[CAM4] quick buttons to select cameras assigned to Cam ID 1-4.
2. Press [CAM] button + assigned Cam ID number and [ENTER] or joystick button to confrim.
3. Press [INQUIRE] button for a full list of connected cameras, use joystick to scroll through the list, press [ENTER] or joystick button to select desired camea.

Pan, Tilt and Zoom control

The GOJO supports variable speed Pan, Tilt and Zoom control allowing for customized, simple control. Use the quick-adjust knobs on the GOJO to fine tune Pan, Tilt and Zoom speed. Use the zoom switch or twist the joystick controller to zoom in and out.

Setting and calling presets

1. Set a preset: Use the joystick to move the camera to the desired preset position. Use the alpha numeric keypad to enter a preset ID number 0-254. Press [PRESET] to confirm.
2. Call a preset: Press the [CALL] button + the assigned number for the preset.
3. Reset/Clear presets: Press [RESET] button to clear presets for the active camera.

Troubleshooting

LCD Display shows "No device found"

This occurs when a Cam ID is selected with no camera connected.
Follow steps in adding a camera section on pg 8/13 of this guide.

LCD Display shows "NO" in the top right corner

This occurs when the GOJO doesn't receive a response from the camera.

A. If using camera over IP, check that the GOJO and camera are on the same Local Area Network (LAN).
B. If using camera over IP, check that the network port is active.
C. Ensure that both network or serial cables are properly connected and not damaged.
D. Repeat this process for any additional cameras with this same error message.

GOJO not controlling any connected cameras

This occurs when the camera(s) and GOJO are not properly set up.

A. Check that the camera(s) connected support the selected protocol.
B. Check that the camera(s) and GOJO are setup with correct address, port and baudrate (if applicable).
C. Repeat the process for any additional cameras experiencing the same issue.

Functions not working with camera

This occurs when using non-Boom cameras or when camera firmware is not up to date. We always recommend using a Boom camera with GOJO to ensure full functionality. Some functions will not work with other cameras as each manufacturer has implemented unique commands which may not be compatible.

Need additional help?

Call +1 (888) 534-2666 or email support@boomcollaboration.com

GOJO Joystick Controller

User manual

Before attempting to connect or operate this product, please read instructions carefully and save this manual for future use. Specifications are subject to change without notice.