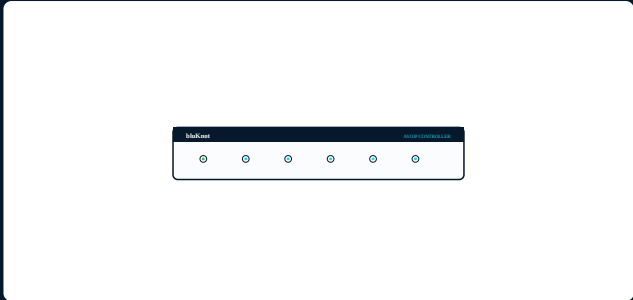


AV OVER IP · JPEG2000 CONTROLLER

BLU-AVOIP-JP1G-CONTROLLER

Manage every encoder and decoder, from one box.

A Video-over-IP controller that manages and controls JPEG2000 AVoIP products. Dual 100M network ports isolate control traffic from multicast video, with a built-in Web GUI, TCP and RS-232 control, PoE, and wideband IR receiving. Video, audio, RS-232, IR and KVM control of the whole distributed system from one interface.



Dual 100M	Web GUI	PoE	4 - ch	HTTPS/SSH
ISOLATED LAN	DRAG & DROP	VIDEO LAN	GPIO CONTROL	SFTP SECURE

SPECIFICATION SUMMARY

Type	AVoIP system controller
Network	2× 100M LAN (1 PoE)
Reach	100m via CAT5e/6/6A/7
Control	Web GUI, TCP, RS-232
IR	3.5mm jack, 12V level
GPIO	4-channel (5V/12V)
Dimensions	204 × 98 × 21 mm
Weight	509 g
Power	DC 12V/1A, 4.5W
IP config	Auto / DHCP / Manual

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KEY FEATURES

- Manage and control JPEG2000 AVoIP products
- Dual 100M LAN — isolates control & multicast
- Web GUI with drag-and-drop configuration
- HTTPS, SSH, SFTP secure; PoE on video LAN

One controller, the whole system. Drag-and-drop project setup, image preview, and video/audio/RS-232/IR/KVM control of every encoder and decoder on the network — all from a single Web GUI, with the control and video networks kept isolated.



manage & control every encoder/decoder from one Web GUI - video wall up to 9×9

SYSTEM CONTROL · ONE CONTROLLER MANAGES EVERY ENCODER AND DECODER

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www.bronx.co.in · admin@bronx.co.in · sales@bronx.co.in

CONTROLLER · AVOIP

01 Overview

What the controller does, and what's in the box.

The **Bronx Video over IP Controller** is used to control and manage JPEG2000 IP products. It supports dual 100M network ports, realising dual network isolation of the control network and the multicast video distribution network. Built-in Web GUI, TCP and RS-232 control are supported, along with PoE and wideband 12V IR signal receiving. As the demand for IP products increases, the controller is built to scale into more and more scenarios — from a handful of rooms to a full distributed AV-over-IP estate.

FEATURES

- Easy to create, control and manage the project
- Auto, DHCP and Manual IP configuration modes
- HTTPS, SSH, SFTP security compatible
- Built-in Web GUI with drag & drop operation
- Image preview support
- Video, audio, RS-232, IR and KVM control of the distributed system
- Dual network ports; VIDEO LAN supports PoE, isolating control and multicast
- LAN/RS-232 port control and third-party central control support
- IR signal receiving (3.5mm audio jack, 12V level)
- 4-channel GPIO control ports (5V/12V optional level)
- Multiple circuit protection, lightning protection and ESD design
- Reliable design for 24/7 operation

AT A GLANCE

NetworkDual 100M

PoEVideo LAN

GPIO4-ch

IR12V/5V

SecurityHTTPS/SSH

ControlWeb/TCP/RS-232

Power4.5W

Weight509g

PACKAGE CONTENTS

1×	BLU-AVOIP-JP1G-CONTROLLER
1×	12V/1A Power Adapter
1×	User Manual

02 Specifications

Technical, connection, mechanical and environmental figures.

TECHNICAL

Network Bandwidth	100M
Transmission Distance	100m via CAT5e/6/6A/7
Control Ports	2× 100M LAN [RJ45] (VIDEO LAN supports PoE) 1× IR IN [3.5mm audio jack, 12V level] 1× DIGITAL I/O [6-pin 3.81mm Phoenix] 1× RS-232 [3-pin 3.81mm Phoenix]

MECHANICAL

Housing	Metal Enclosure
Color	Black
Dimensions	204 (W) × 98 (D) × 21 (H) mm
Weight	509 g

POWER

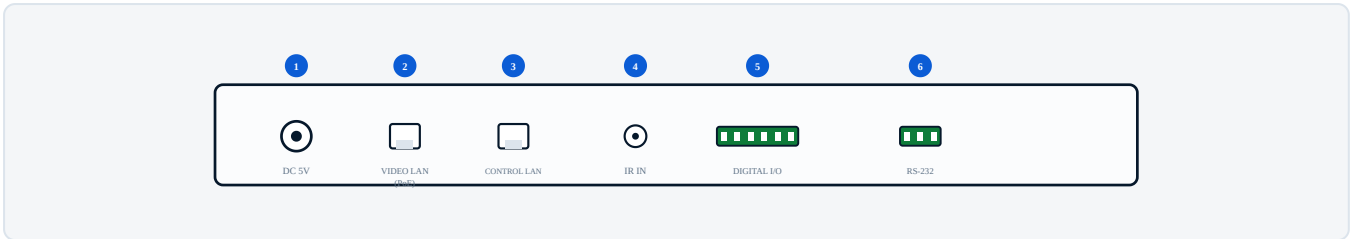
Power Supply	12V/1A
Power Consumption	4.5W (Max)

ENVIRONMENT

Operating Temp.	32°F–104°F / 0°C–40°C
Storage Temp.	-4°F–140°F / -20°C–60°C
Relative Humidity	20–90% RH (no condensation)

03 Interfaces & control

The rear connections, and how the network stays isolated.



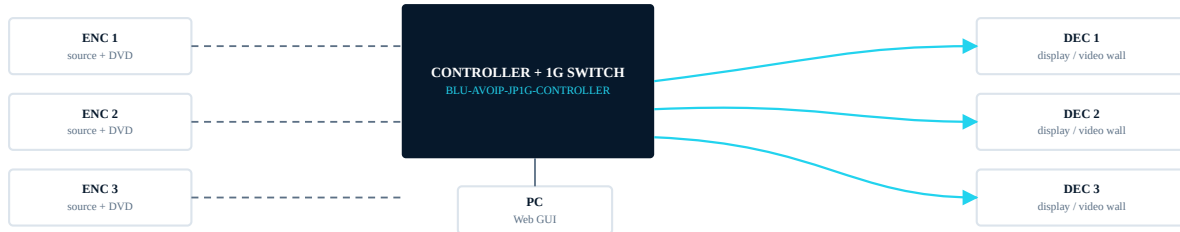
1	DC 5V	Barrel power input for the controller.
2	VIDEO LAN (PoE)	100M LAN port carrying multicast video distribution; supports PoE.
3	CONTROL LAN	100M LAN port dedicated to control traffic, isolated from the video network.
4	IR IN	3.5mm audio jack IR receiver input, 12V level (5V optional).
5	DIGITAL I/O	6-pin Phoenix connector for 4-channel GPIO contact control.
6	RS-232	3-pin Phoenix connector for serial control and third-party integration.

Two networks, kept apart. Video multicast and system control run on separate 100M ports, so heavy video traffic never competes with control commands.

Built for integration. RS-232, GPIO and third-party central control support mean the controller drops into an existing automation system, not just a standalone app.

04 Application example

One controller sits between every encoder and every decoder on the network.



manage & control every encoder/decoder from one Web GUI · video wall up to 9×9

Drag, drop, done. Build the project in the Web GUI, then control video routing, audio, RS-232, IR and KVM for every encoder and decoder from one screen.

Scales with the estate. As more JPEG2000 encoders and decoders join the 1G switch, the same controller keeps managing the whole system — including video walls up to 9×9.

ORDERING

BLU-AVOIP-JP1G-CONTROLLER

Video over IP Controller for JPEG2000 AVoIP systems — dual 100M LAN (PoE on VIDEO LAN), Web GUI / TCP / RS-232 control, HTTPS/SSH/SFTP secure, 4-channel GPIO, wideband 12V IR receiving, 12V DC

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