



SCREENBRIDGE

DISPLAY CONTROL · IIYAMA + NOVASTAR

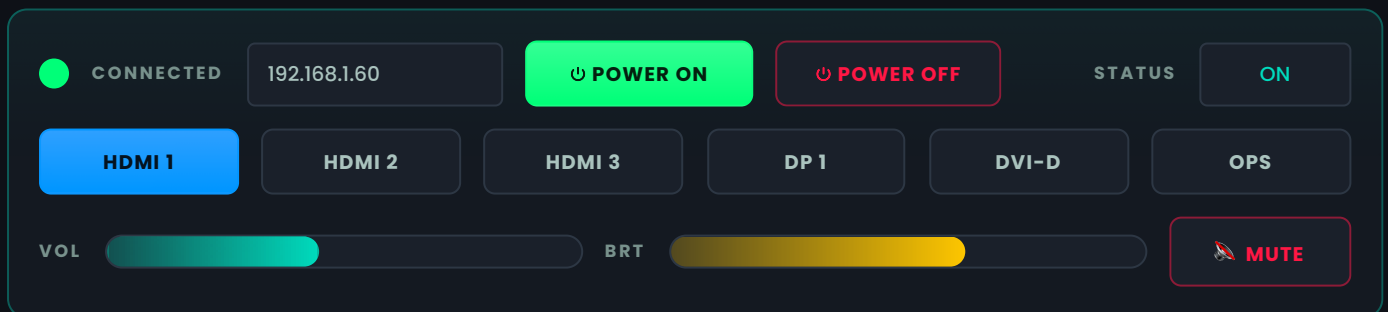
Bridge your screens into Q-SYS. Power, inputs, volume, test patterns — one plugin instance per device, over plain TCP/IP. Wakes Iiyama panels from cold with Wake-on-LAN, blacks out a NovaStar LED wall with one toggle.

V1.0.0

Q-SYS DESIGNER 9.12+

PERPETUAL LICENSE

NO SUBSCRIPTION



What is ScreenBridge?

ScreenBridge drives a **professional display or LED processor** from your Q-SYS Core over the network. One plugin instance = **one device**. It connects by itself, keeps watching the device (poll every 10 s), and shows everything as buttons, faders and pins you can wire anywhere — UCI, schedules, GPI.

SUPPORTED DEVICES

DEVICE	PORT	WHAT YOU GET
Iiyama LHxx60	5000	Power (Wake-on-LAN only), 18 inputs, volume & audio out, mute, brightness / contrast / sharpness, screen mute, freeze, temperature, hours.
Iiyama LHxx64 / LHxx75	5000	Same as above — power-on uses WOL + a network command.
NovaStar VX400	5200	LED processor: input switching (HDMI 1 / HDMI 2 / DVI / SDI), wall brightness, colour test patterns, Live / Black toggle, per-input signal LEDs.

Pick the device once, in Properties. The plugin then shows only the controls that device really has — an Iiyama gets power and audio, a NovaStar gets test patterns and blackout.

SETUP — ONCE, IN DESIGNER

1

Drop it in

Drag ScreenBridge from the plugin list into your design.

2

Pick the device

In Properties:
Display = your model, **Monitor ID** (Iiyama, usually 1), **License Key**.

3

Enter the IP

Type the device IP.
The right **port fills in by itself** (5000 / 5200).

4

Iiyama: MAC

Type the panel's **MAC address** and pick the Core **NIC** — that's what wakes it up (WOL).

5

Push & go

Push to the Core.
The **LED turns green** when connected.

READING THE HEADER

FIELD	WHAT IT SHOWS
Connection LED	Green = TCP link up · dark = disconnected (the plugin keeps retrying by itself, 5 → 30 s).
STATUS	ON / OFF / WOL 1/3 / VERIFYING... / OVERHEAT — the device state in one word.
CURRENT	The input the device says it is on (not just what you pressed).
TX / RX / LOG	Diagnostics: last frames sent / received and the event log. Handy on site.

Remote control: every button and fader also exists as a **pin** — wire power, inputs or volume to a UCI, a schedule or external logic exactly as if you pressed them.

Power, Inputs & Picture

A powered-off panel is **off the network** — so ScreenBridge wakes it with **Wake-on-LAN magic packets**, then talks to it over TCP.

HOW POWER-ON PLAYS OUT

1 · PRESS ON	2 · WOL BURST	3 · RECONNECT	4 · CONFIRMED
Button or pin — status shows POWERING ON...	3 magic packets, up to 3 tries (WOL 1/3 ... 3/3)	Panel boots, TCP link comes back	Panel reports ON — status & toggle follow

One-time panel setup (on the display itself): LHxx60 → Power Saving **Mode 3** or **4** · LHxx64 / LHxx75 → **Mode 2** · and RS232 routing = **LAN**. Without this the panel can't be woken over the network.

Someone used the remote? If the panel disappears while it should be ON, ScreenBridge double-checks for **15 s** (**VERIFYING...**) then flips the power state to OFF. No false alarms on a brief network glitch.

INPUTS

One button per source — HDMI 1–4, DisplayPort 1–2, DVI–D, VGA, OPS, USB, Browser, media players... **Press one, it lights, the others go out.** **CURRENT** always shows what the panel itself reports, refreshed by the 10 s poll.

AUDIO & PICTURE

CONTROL	WHAT IT DOES
VOL / AUDIO OUT	Speaker volume and line-out level, 0–100. Drag freely — the plugin sends one clean value when you let go.
 MUTE	Remembers your levels, drops to 0, and restores them on unmute .
BRT / CTR / SHP	Brightness, contrast, sharpness faders (0–100).
MUTE (BLACK)	Backlight off — instant black screen, video keeps running behind.
FREEZE	Freezes the current image.
TEMPERATURE	Live internal °C. At 85 °C the status turns to  OVERHEAT .

LED Wall Control

The VX400 is a rack-powered LED processor — no power button, no audio. ScreenBridge gives you the four things you touch during a show: **source, brightness, test patterns, blackout**.



THE CONTROLS

CONTROL	WHAT IT DOES
HDMI 1 / HDMI 2 / DVI / SDI	Switches the wall's source (Layer 1). Press one, it lights, the others go out.
BRT	Wall brightness 0–100 %. Drag freely — only the final value is sent.
TEST PATTERN	Full-screen Red / Green / Blue / Black patterns for LED checks. Exclusive — one at a time.
BACK TO LIVE	Leaves test mode, back to video.
LIVE / BLACK	One toggle: ON = wall black , OFF = live video. The clean "curtain" for reveals and changeovers.
INPUT SIGNAL	A green LED per input that currently has a live signal — see at a glance if the source machine is really there.

GOOD TO KNOW

- Driving inputs from external logic?** The input pins accept a **held** state (a radio selector where one output stays high). ScreenBridge follows the pin that goes high and never fights your logic — your selector owns the state.
- Test patterns and BLACK OUT are for the wall output.** They don't touch the source machines — BACK TO LIVE or toggling BLACK OUT off brings the picture straight back.

License & Troubleshooting

LICENSE

EMULATION

Designer emulation: everything works, free, no key needed. Design and rehearse at will.

DEMO 10:00

On a Core, no key: full features for **10 minutes**, countdown on screen — then the plugin freezes (no control, no polling).

LICENSED

Your key (SBRG-XXXX-XXXX-XXXX) goes in **Properties** → **License Key**. Locked to one Core — send BV Factory the **Core ID** shown in the license panel. Perpetual, no subscription.

Just entered a key? Press **VERIFY** in the license panel — the plugin re-checks and resumes on the spot.

TROUBLESHOOTING

PROBLEM	FIX
Connection LED stays dark	Check IP and port, device on a network the Core can reach, network control enabled on the device. The plugin retries by itself — nothing to restart.
Iiyama won't power on	Status MAC MISSING = fill in the MAC. MAC INVALID = re-type it. Check the NIC choice, and the panel's Power Saving mode (LHxx60: 3/4 · LHxx64/75: 2) + RS232 routing = LAN.
Status shows WOL FAILED	3 wake attempts failed. Panel unplugged, wrong MAC, or WOL not enabled on the panel (see above).
Toggle went OFF by itself	The panel vanished for 15 s+ — most likely someone used the IR remote, or it lost power. That's the plugin telling the truth.
Buttons do nothing	License panel says DEMO EXPIRED or INVALID KEY → enter a valid key and press VERIFY .
Fader snaps back after a drag	The device reports its real value every 10 s — if it refuses the change, check its own limits/menus.
NovaStar source won't switch	If external logic drives the pins, make sure exactly one is held high — the plugin sends on the rising edge.
Status ▲ OVERHEAT	Panel internal temperature ≥ 85 °C — check ventilation now.

Need a key, another Bridge, or a Forge?

bvfactory.dev

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