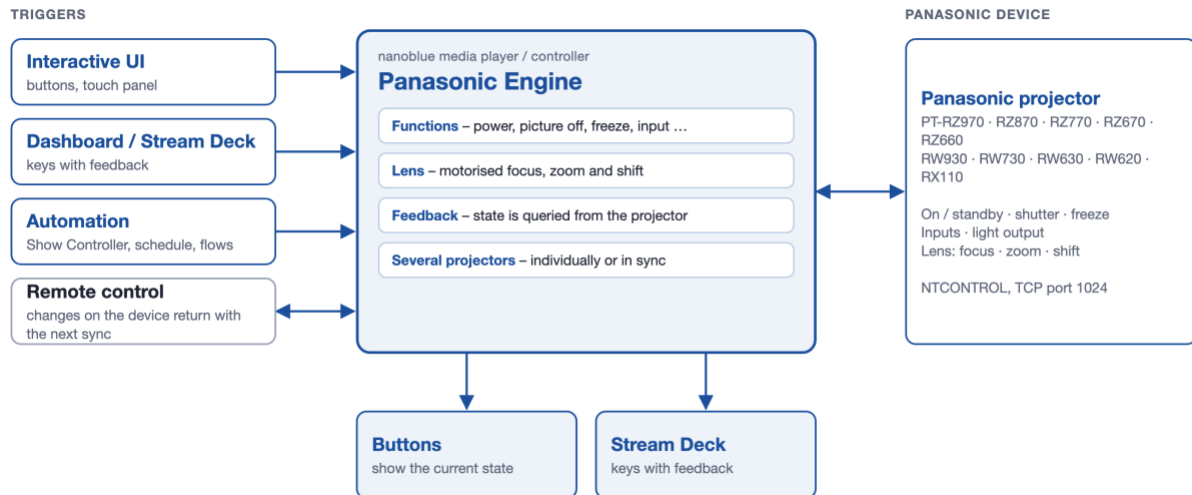


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nanoblu® Panasonic Projector

Control Panasonic laser projectors over the network – power, picture off, freeze, inputs and lens with feedback, individually or several in sync



Overview: touch panel, keys and automation trigger functions. The Panasonic Engine translates them for the projector, queries its state and shows it on the buttons.

What it is about

Panasonic laser projectors of the PT-RZ, PT-RW and PT-RX series often hang from the ceiling or sit in a projection booth. In everyday use nobody wants to reach for the remote control: projector on, briefly blank the picture, choose another input, everything off after the event.

nanoblu Panasonic Projector is a ready-made building block for the nanoblu media player and controller. It speaks the manufacturer's control protocol (**NTCONTROL, TCP port 1024**) and makes every function available as a button in the **Interactive UI**, on the dashboard or on the Stream Deck. Nothing is programmed for a new project: the assignment button → function is kept in a table.

The engine runs directly on the nanoblu device in the local network of the installation. It reacts instantly and needs no internet connection.

Key features

What can be controlled

Area	Functions
Operation	On / standby, toggle with one button, status query (power, light source, temperature)
Picture	Picture off / on (shutter), freeze, test pattern, aspect AUTO
Inputs	HDMI 1, DIGITAL LINK, SDI 1, DVI-D, COMPUTER 1 / 2 – the active input lights up
Lens	Motorised focus, zoom, horizontal and vertical shift, slow / normal / fast, home position and calibration
Light output	Brightness in percent, operating mode ECO / NORMAL
Setup	Ceiling or floor mounting, shutter at start-up, fade time, start-up logo, switch-off without signal, standby mode
Menu	All remote control keys: MENU, arrows, ENTER, DEFAULT, AUTO SETUP, STATUS, INPUT MENU, digits ...
Free command	Any command from the Panasonic command list – for special functions

On a projector, “mute” means picture off. The projectors have no audio, so “mute” closes the shutter: the picture goes black, the light source stays on and the picture is back instantly with one press of a button. A fade time can be added.

Operation in the Interactive UI

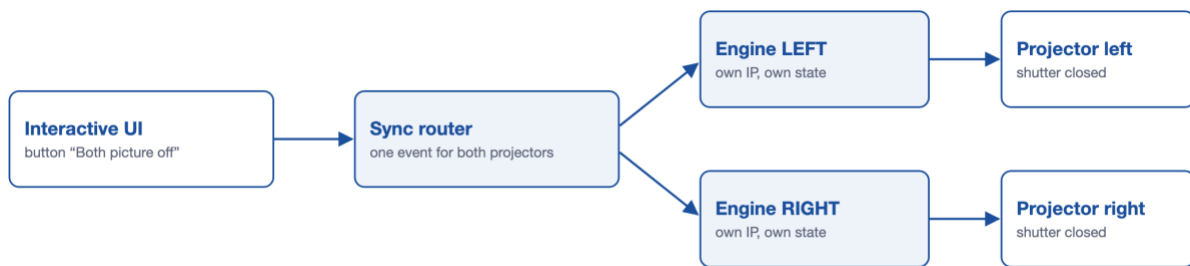
Every button in UI Studio gets an ID. One line in the assignment table defines which function it triggers. Feedback returns to the same ID: the button lights up when the function is active.

Button	ID (example)	Effect
On / off	button_beamer_links_ein / _aus	projector on or standby, the matching button lights up
Picture off / on	button_beamer_links_bild_aus / _ein	shutter closed or open
Freeze	button_beamer_links_freeze_ein / _aus	freeze the picture or let it run
Input	button_beamer_links_hdmi1	switch to HDMI 1, lights up when active
Lens	button_beamer_links_focus_plus	adjust focus by one step
Menu	button_beamer_links_menu / _ok / _auf ...	operate the projector menu like with the remote control
Refresh	button_beamer_links_aktualisieren	fetch the current state and set all buttons

- **Input buttons** behave like radio buttons: the active one lights up, the others go off.
- **Lens:** one press moves one step. Optionally the lens keeps moving as long as the button is held.
- **Dashboard and other interfaces:** for the basic functions there are also ready-made inputs and outputs with plain on/off, e.g. for dashboard buttons.

Several projectors – individually and in sync

Each projector gets its own building block with its own IP address and its own feedback. In addition there are sync buttons that switch all projectors together, e.g. for a dual projection or a screen with edge blending.



Feedback comes from each projector, so you can see if one of them does not follow.

One sync button, two projectors: both close the shutter. Feedback comes individually from each device.

Sync function	Effect
Both on / standby	switch both projectors on or off at the same time
Both picture off / on	close or open both shutters
Both freeze	freeze both pictures or let them run

Stream Deck

The sync functions are also available on the Stream Deck. A key toggles and follows the state of both projectors so they do not drift apart. The key colour shows “on”, “off” or “mixed” when the projectors are in different states.

Control from other automation

- **Show Controller and schedule:** cues or appointments trigger functions, e.g. projector on in the morning, picture off during the break, everything to standby in the evening.
- **Other flows:** any flow in the nanoblue editor can send commands, e.g. change the input when a laptop is plugged in.

Setup

- **On the projector:** enable command control in the menu NETWORK → NETWORK CONTROL. Set the standby mode to NORMAL, otherwise the projector switches off its network in standby and can no longer be powered on via LAN. This can also be set from nanoblue.
- **In the nanoblue editor:** Panasonic Projector is a ready-made flow. Enter the IP address and login of the projector, then assign the buttons.
- **Test mode:** an included test mode simulates a projector. User interface and automation can be prepared before the device is on site.
- **Persistent:** the configuration is stored on the device and survives restarts and flow updates.

Reliable in operation

- **Self-contained:** control and feedback run on the nanoblue device in the local network – even without internet.
- **Real feedback:** the buttons show the state reported by the projector, not just the last key press. A regular sync also picks up changes made with the remote control.

- **Clear error messages:** if the projector is busy, e.g. while warming up or cooling down, or the password is wrong, nanobblue reports it in plain language. When busy, the engine repeats the command once by itself.
- **Separate devices:** several projectors do not interfere with each other. Each has its own buttons and its own state.

Security

The projector requires a password for every command, transmitted as an encrypted checksum. The commands themselves travel unencrypted. The projector is therefore operated only in the local network or a dedicated VLAN of the installation and not exposed to the internet. The factory password should be changed during setup. Remote maintenance of the nanobblue device runs encrypted via the nanobblue VPN as usual.

Supported devices

Device	Connection	Functions	Status
Panasonic PT-RZ970	NTCONTROL, TCP 1024	all functions in this overview	in use, two projectors in sync operation
PT-RZ870 / RZ770 / RZ670 / RZ660, PT-RW930 / RW730 / RW630 / RW620, PT-RX110	NTCONTROL, TCP 1024	same command list as RZ970	implemented; verified during commissioning
Other Panasonic projectors and displays	NTCONTROL, TCP 1024	same protocol, model-specific commands	on request

Technology at a glance

- Panasonic Engine as a flow in the nanobblue editor on the nanobblue media player or controller.
- Panasonic NTCONTROL over Ethernet: TCP port 1024, login per command with MD5 checksum.
- Connection to Interactive UI, dashboard, Stream Deck, Show Controller, schedule and all flows in the nanobblue editor.

Typical applications

- Event halls and congress centres: switch ceiling-mounted projectors on and off, blank the picture during breaks.
- Museums and exhibitions: projections following opening hours via the schedule.
- Dual and large-scale projections: switch several projectors together with one press.
- Lecture halls and meeting rooms: projector together with lighting, audio and media in one interface.

Coming soon

Display in the nanobblue connection monitor · Panasonic displays via the same protocol · installation from the nanobblue flow catalogue.