



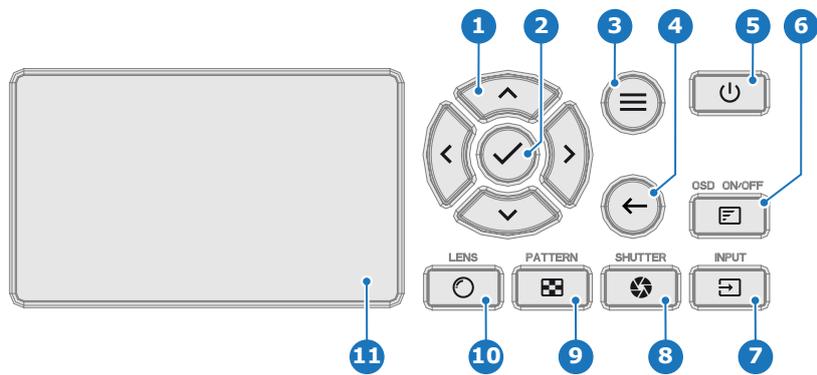
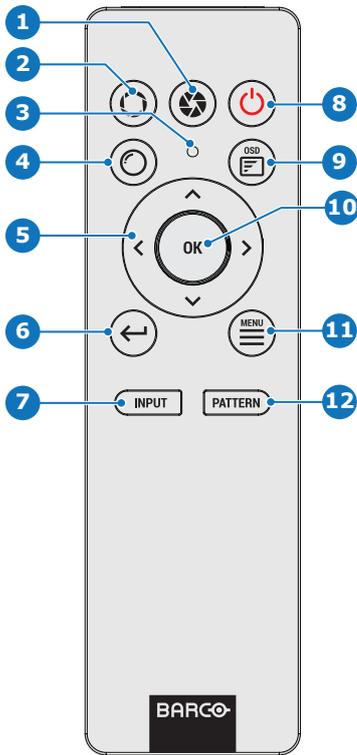
F400

Quick Start Guide

Environment conditions

| Environment | Operating | Non-Operating |
|---------------------|---|---------------------------------------|
| Ambient temperature | 5°C (41°F) to 40°C (104°F) (0–1500 m) 10°C (50°F) to 35°C (95°F) (1500–3000 m) | -20°C (-4°F) to 60°C (140°F) |
| Humidity | 10% RH to 80% RH Non-condensed | 10% RH to 90% RH Non-Condensed |
| Altitude | 0 m (0 Ft) to 3000 m (9842 Ft) | -60 m (-197 Ft) to 10000 m (32810 Ft) |
| Air cleanness | Clean office environment ¹ | n.a. |
| Air clearance | Air outlets: minimum 250 mm (10 in) Air inlets: minimum 250 mm (10 in) | n.a. |

Remote control & local keypad



- 1 Shutter close
- 2 Shutter open
- 3 Button pressed
- 4 Lens menu
- 5 Navigation
- 6 Menu back
- 7 Input selection
- 8 Power On/Off
- 9 OSD On/Off
- 10 Confirmation
- 11 Menu enter/exit
- 12 Test patterns

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- 10 Lens menu
- 11 LCD touch panel

1. Equivalent with cleanroom standard ISO 14644-1 ISO Class 9. If not, an environment protection housing must be used.



Main power requirements

- The projector operates from a nominal mono phase power net with a separate earth ground PE.
- Power requirements : 100–240 V 50-60 Hz.
- The projector must be grounded.
- The power cord delivered with the projector must be used.



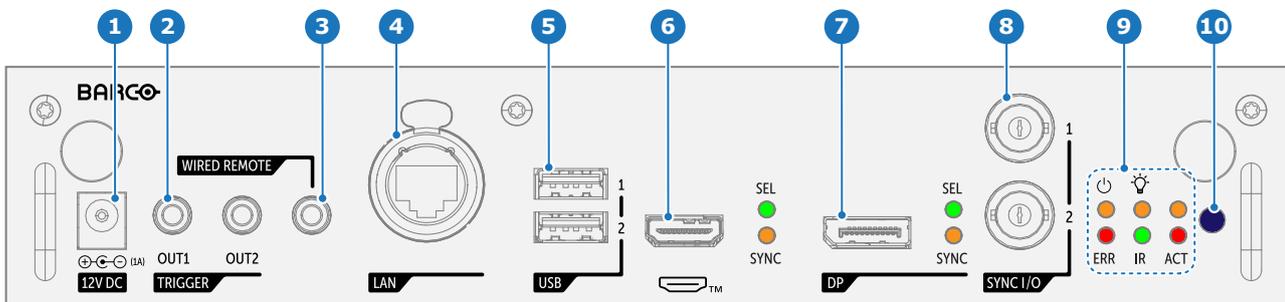
CAUTION: It is important to read the installation instructions before connecting the equipment to the mains power supply.

Button backlight status

The Power and Shutter buttons are equipped with white, blue and red backlit LEDs. The other keys are only equipped with white and blue backlit LEDs. The LEDs are controlled according to the features available.

| Button | Color status | Description |
|---|-------------------|---|
|  | Short WHITE pulse | Projector starts up (booting), or is in ECO STANDBY |
| | Blinking WHITE | Firmware update, or in transition from ECO STANDBY to STANDBY |
| | Solid WHITE | Projector is in STANDBY or READY mode |
| | Blinking BLUE | Projector goes to ON mode |
| | Solid BLUE | Projector is ON |
| | Blinking RED | Error condition |
|  | Off (no color) | Projector is OFF, starts up, or is in STANDBY or READY mode |
| | Solid WHITE | Projector is ON, shutter is open |
| | Solid RED | Projector is ON, shutter is closed |

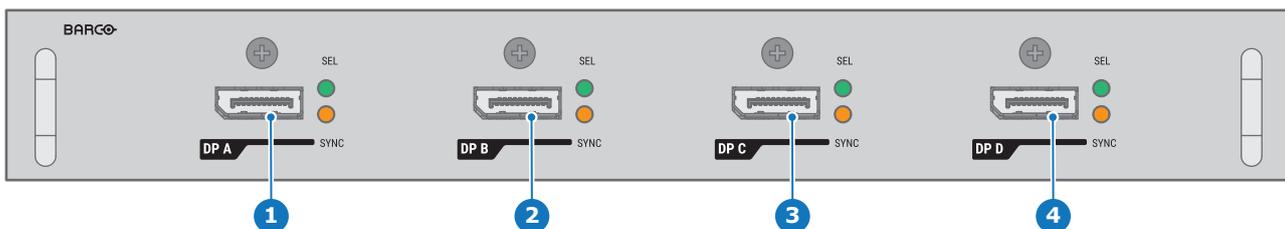
Front panel Control & Communication module



- 1 12V DC
- 2 TRIGGER
- 3 WIRED REMOTE
- 4 LAN
- 5 USB

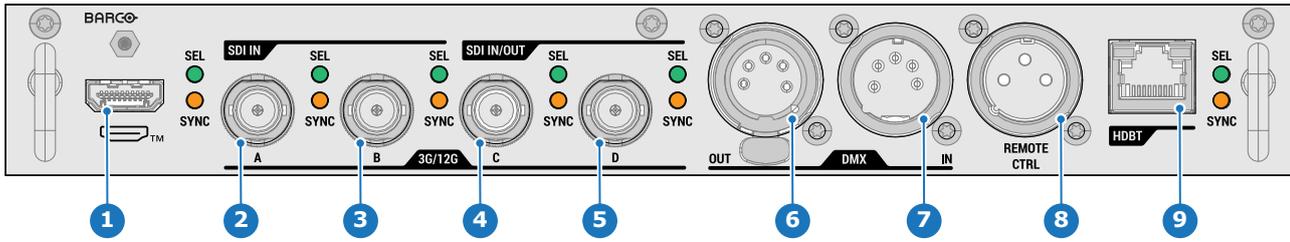
- 6 HDMI™
- 7 DP
- 8 SYNC I/O
- 9 Projector status LEDs
- 10 IR receiver

Front panel Quad DP 1.2 input



- 1 Quad DisplayPort channel A input
- 2 Quad DisplayPort channel B input
- 3 Quad DisplayPort channel C input
- 4 Quad DisplayPort channel D input

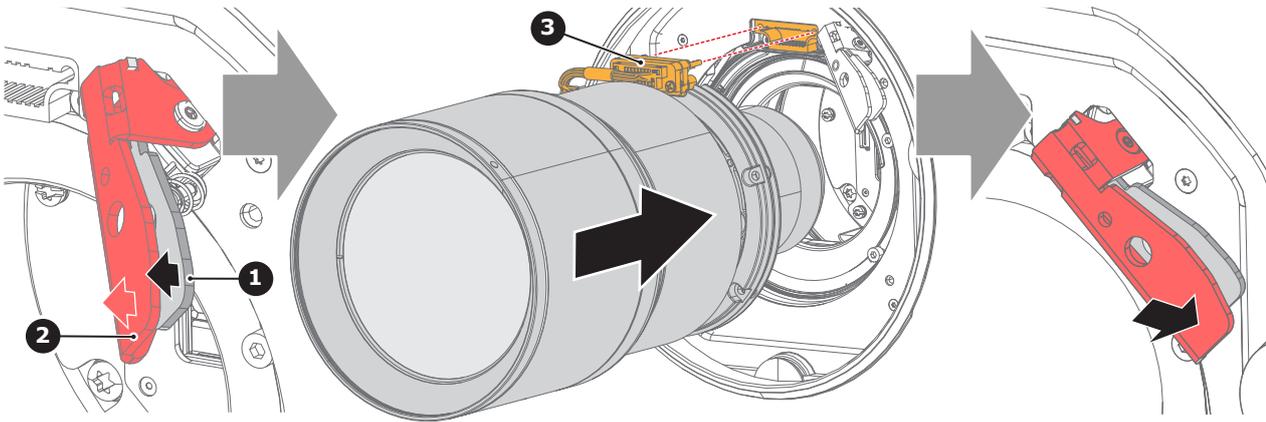
Front panel Quad Combo Input Mk III



- 1 HDMI™ input²
- 2 Quad SDI channel A: 3G/12G input
- 3 Quad SDI channel B: 3G/12G input
- 4 Quad SDI channel C: 3G/12G input/output
- 5 Quad SDI channel D: 3G/12G input/output
- 6 DMX interface input
- 7 DMX interface output
- 8 XLR for wired projector control
- 9 HDBaseT input

Install a lens

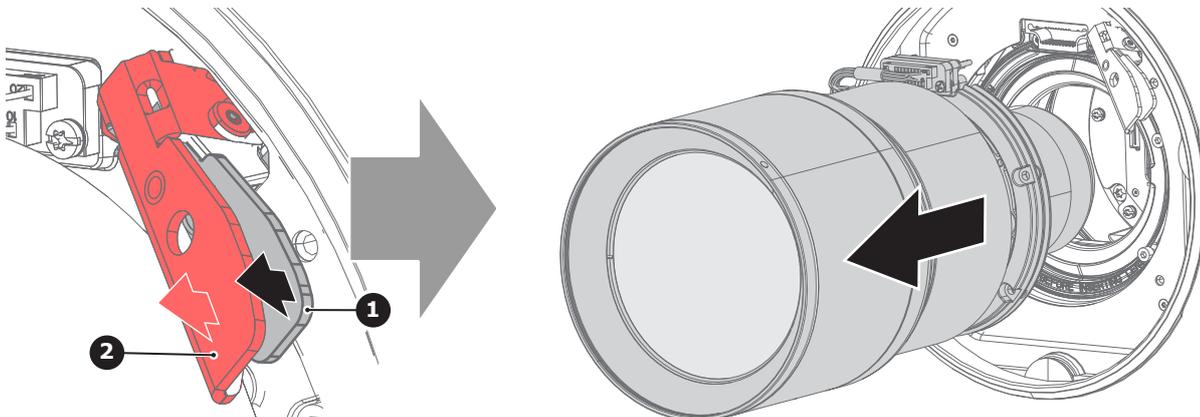
1. Ensure that the combined handle is in the open position by pulling the release handle out (reference 1). The locking handle (reference 2) will “follow”.
2. Insert the lens in to the correct position. Ensure that the lens connector (reference 3) matches the electrical socket on the lens holder.
3. Press the locking handle inwards until it is in locked position. (a “click” will be felt and heard).



4. Ensure that the lens has a firm connection to the projector, without any slack.

Remove a lens

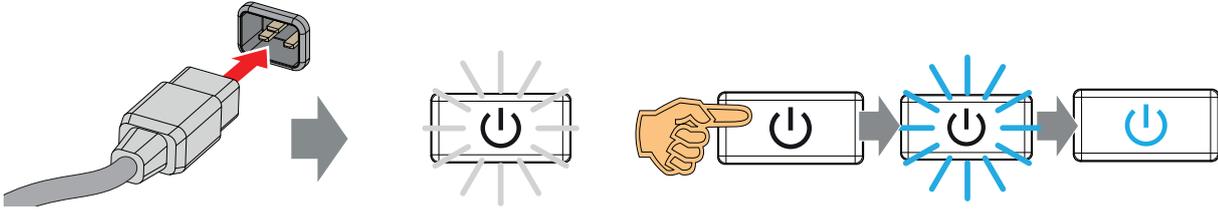
1. Support the lens with one hand.
2. Release the lens lock by pulling the release handle (reference 1). The locking handle (reference 2) will follow, and the lens will come loose.



2. The terms HDMI, HDMI High-Definition Multimedia Interface, HDMI trade dress and the HDMI Logos are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.

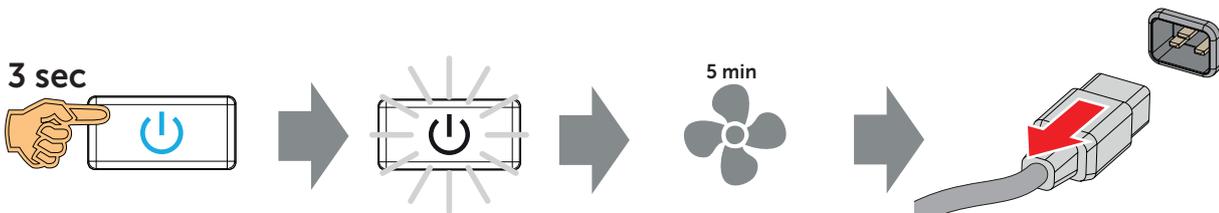
Power up the projector

1. Connect the mains power cord to the power inlet connector.
2. The projector will perform the startup sequence. When ready, the power button on the keyboard will illuminate white, meaning that the projector is in ready mode.
3. Press the Power button on the keypad or remote. The power button will after some seconds illuminate solid blue, meaning that the projector is ON.



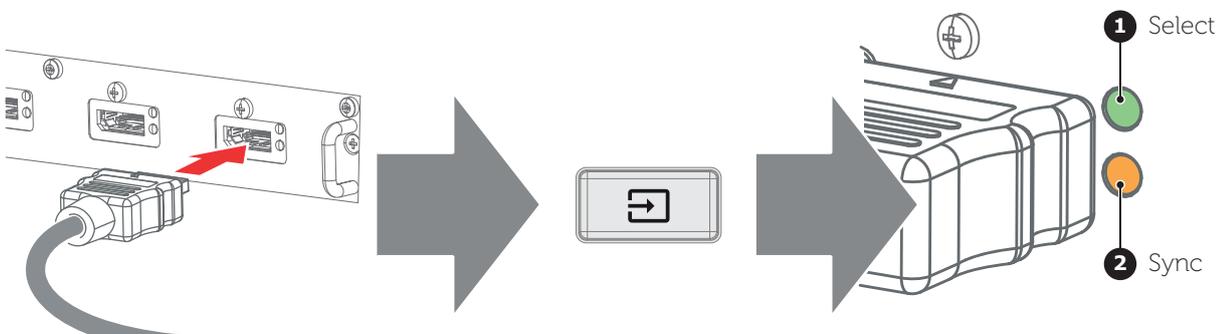
Power down the projector

1. Press and hold the power button for 3 seconds. (A timer indicator will show up on the display).
2. The power button illumination will become white, and projector will enter the cool down modus for approximately 5 minutes.
3. When the backlight for the keypad is off, unplug the power cord from the projector.



Connect and select source

1. **Connect** available sources to the appropriate input ports.
2. **Select** connected source. (See Pulse OSD user guide for detailed menu navigation steps).
 - **Select** LED (reference 1)
 - GREEN : port configured as input. Image appears on the screen.
 - Blinking GREEN : bidirectional port configured as output / loop-through.
 - **Sync** LED (reference 2)
 - YELLOW : sync/signal is present.
 - Blinking YELLOW: Sync/signal is present, but not conform with input port standard.



Adjust

1. **Adjust the lens settings** by pressing the lens menu button on the keypad or via the zoom, shift and focus buttons on the keypad.



2. **Orientation** of the unit is set as standard in table front projection mode.

Change the projector set up in the *Installation > Position > Orientation* menu.

3. For **Advanced adjustments** like Warping, Light management, etc. see Pulse OSD user guide.

Connecting with Pulse Prospector

Make sure both the connected device (e.g. laptop) and the projector operate within the same network (or has full access to the projector network).

1. Open a browser and enter the IP address of the projector (default projector IP address is 192.168.1.101).

 *Tip:* The projector IP address is visible on the Dashboard of the projector LCD touch panel.

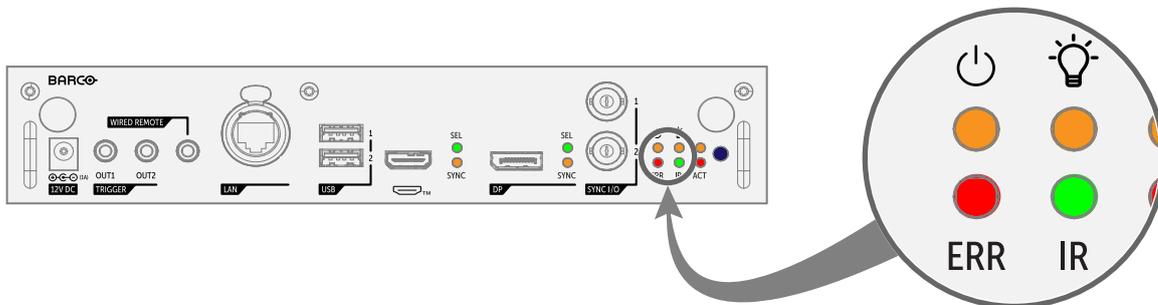
2. Log in using user name and password. See following table for default user names and passwords.

| User group | Default user name | Default password | Default PIN ³ |
|---------------|-------------------|------------------|--------------------------|
| End user | user | default1234 | 69905 |
| Power user | poweruser | default1234 | 292920 |
| Administrator | admin | default1234 | 297081 |

 *Note:* User names, passwords, and pins can be managed through the User account management system in Pulse Prospector. For detailed info see user guide Pulse Prospector.

Projector status indicator LEDs

The Control & Communication module contains four status LEDs at the right side of the front panel. These LEDs allows a quick status analyses of the projector. For explanatory see table hereunder.

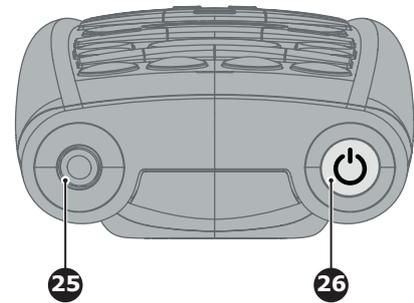
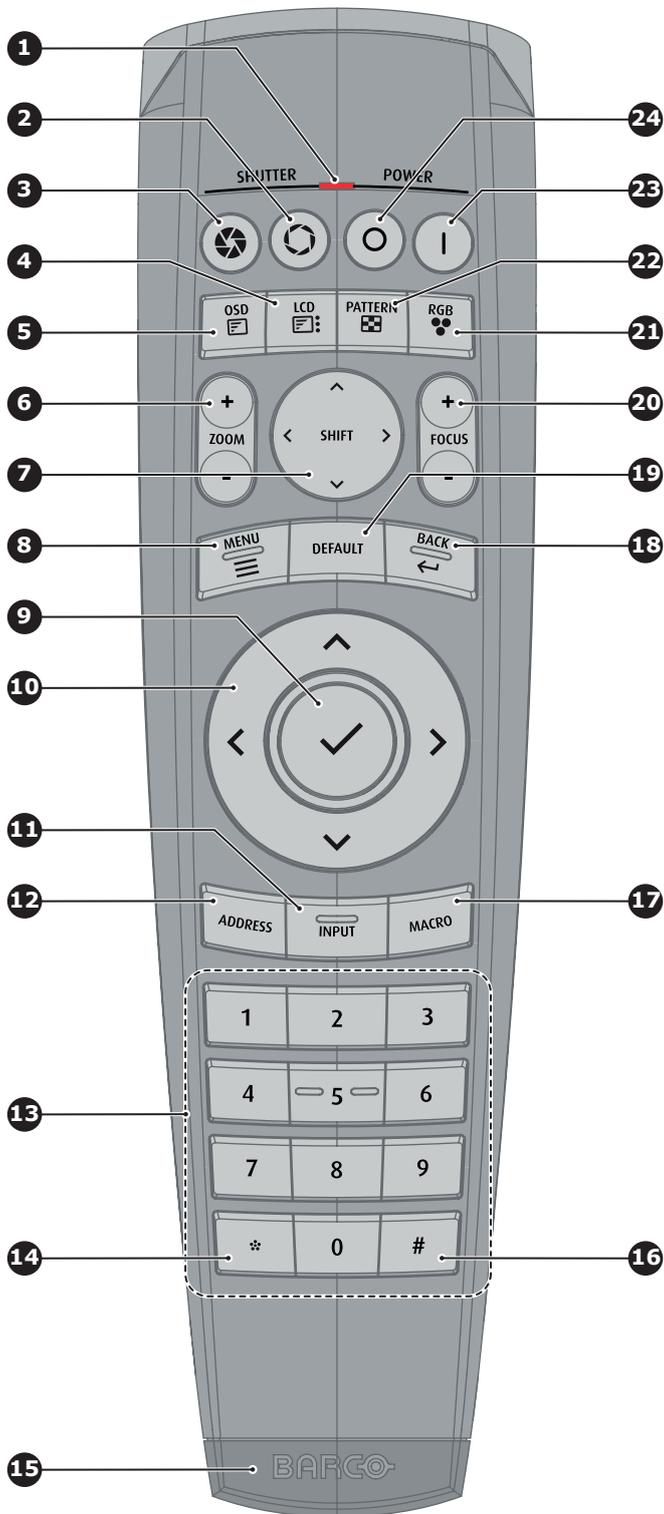


| LED | Color status | Description |
|--|--------------------|---|
|  Power | Off | Projector is in ECO STANDBY mode, or is powering up |
| | RED | Projector is in STANDBY mode |
| | ORANGE | Projector is in READY mode |
| | GREEN | Projector is ON |
|  Illumination | Off | Light source is OFF |
| | RED | No light source detected |
| | ORANGE | Light source is on in ECO mode |
| | GREEN | Light source is on in normal mode |
| | GREEN-ORANGE | Light source is on in CLO mode |
| ERR | Off | No error |
| | RED toggles on/off | Error |

3. Pin authentication is default disabled. To activate, see user account management system in Pulse Prospector.

| LED | Color status | Description |
|---------|--------------|------------------------|
| | ORANGE | toggles on/off |
| Warning | | |
| IR | RED | IR signal received |
| | GREEN | IR signal acknowledged |

Pulse Remote Control Unit



- 1 Button pressed indicator
- 2 Shutter open
- 3 Shutter close
- 4 LCD panel on / off
- 5 Project OSD on / off
- 6 Lens zoom
- 7 Lens shift
- 8 Menu open / close
- 9 Menu selection, OK button
- 10 Menu navigation
- 11 Input selection
- 12 Address button
- 13 Numeric buttons
- 14 Backspace (while entering values)
- 15 XLR connector
- 16 Decimal mark (while entering values)
- 17 Macro button
- 18 Menu back
- 19 Default value button
- 20 Lens focus
- 21 RGB filter
- 22 Test patterns
- 23 Power on
- 24 Power off
- 25 3.5 mm jack
- 26 RCU on / off



CAUTION: Replace batteries with the correct battery type. Use AAA size batteries for the basic RCU and AA size batteries for the Pulse RCU. There is a risk of explosion if the battery is replaced with an incorrect type. Use alkaline batteries for optimum range and life time.

Make sure the polarities match the + and - marks, as depicted on the inside of the battery compartment. There is a risk of explosion if the batteries are installed incorrectly.