

User guide

Profoto L1600D

For other languages visit:
Pour les autres langues, veuillez consulter:
www.profoto.com/support



General safety instructions



IMPORTANT SAFETY INFORMATION & WARNINGS!

Do not operate the equipment before studying the Quick Start and Safety Guide and the User Guide. Make sure that the Quick Start and Safety Guide is always accessible to the user! Profoto products are intended for professional use! Do not place or use the equipment where it can be exposed to extreme electromagnetic fields or in areas with flammable gases or dust! Only use the product together with recommended light shaping tools, as specified in the User Guide. Use only Profoto recommended power cables. Light source shall be replaced if they are damaged or thermally deformed. It shall only be replaced by the manufacturer or his service agent. If the product enclosure or reflector is damaged, immediately stop using the product, disconnect the mains cable from the wall outlet and contact Profoto Service! Always lift product by their handles and never by the connectors or cables. Do not connect to mains power or operate the product when it has been left in a hot or cold environment, such as a car. Let the product reach the approved operating temperature before doing so. Always make sure that the equipment is securely attached to a stable stand or mounted with a safety strap when applying other mounting solutions. Remove transport cap from lamp head before use! Never install the product in a confined space. Always leave a space around the product for ventilation, do not cover any ventilation openings or light source. Product shall not be exposed to excessive heat such as sunshine, heat sources, and fire or similar. Profoto products are only intended for the purpose of image capture, such as photography and videography. They are not intended for use in any other application. To guarantee full functionality, make sure the fan blades can move freely. While operating the yoke, be aware of the risk of pinching hands. For optimal performance, it is recommended to use the product with the fans positioned on the top side.



WARNING - Electrical Shock - High Voltage!

Mains powered equipment shall always be connected to a mains socket outlet with a protective earthing connection! Do not attempt to repair this product yourself, as opening or removing screwed covers may expose you to the risk of electric shock. Do not disassemble or touch any part of the minireflector or light source while the unit is connected to power. High voltage may be present whenever the mains cable is connected. Equipment must only be serviced, modified, or repaired by authorized and competent service personnel! Warning - The terminals marked with the flash symbol are hazardous live. Do not open or disassemble the product. Equipment operates with high voltage. It may be hazardous live, for a considerable time, even when powered off and/or the mains cable has been removed. The mains plug or appliance coupler is used as disconnect device. The disconnect device shall remain readily operable. When you are done using the equipment, always disconnect from the mains outlet by pulling the plug, not the cable. Never use ordinary household extension cords to elongate the power cable. They may overheat. Make sure that rated voltage for product corresponds with technical data of user guide regarding power supply.



Caution - Burn Hazard - Hot Parts!

Do not touch hot parts with bare fingers! The equipment may make certain metal parts, front lenses, or glass covers emit strong heat when used! Do not point light source too close to people.



Caution!

Possibly hazardous optical radiation emitted from this product. Do not stare at operating lamp. May be harmful to the eye.

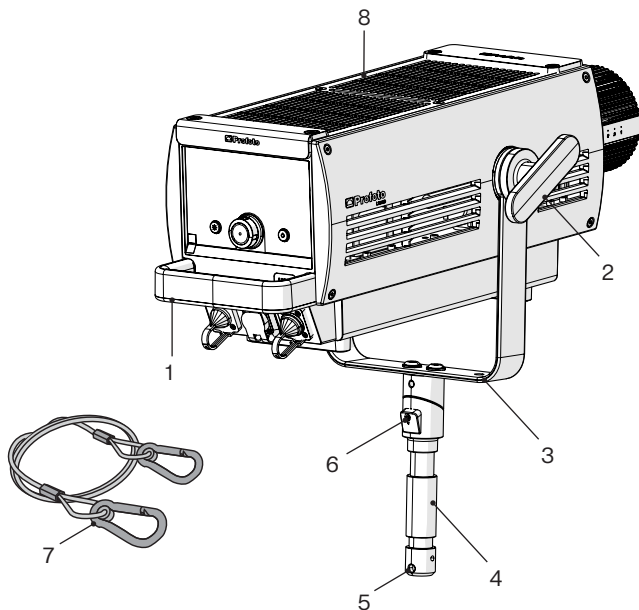


Maintain at least 0.6m distance to the nearest surface.

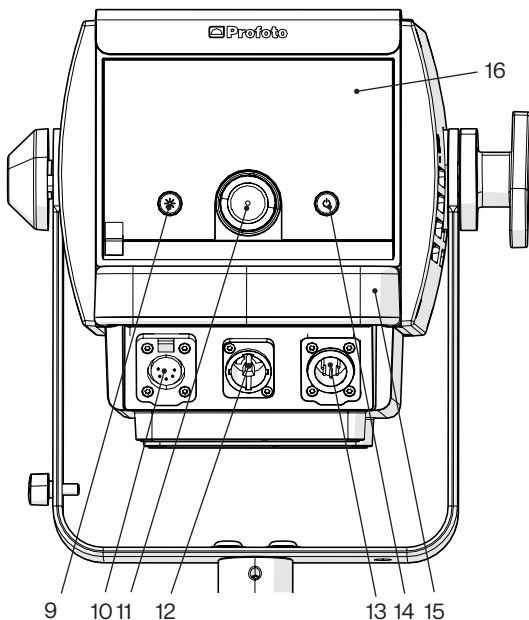
Table of Contents

General safety instructions.....	2
Nomenclature	4
Getting started.....	6
Mandatory safety instructions.....	6
Powering up the unit.....	7
Product registration and firmware update.....	7
Mounting L1600D.....	8
Mount Profoto Light Shaping Tools.....	9
Operating instructions	10
Switch on/off.....	10
Adjusting light intensity	10
Setting up wired and wireless remote control.....	11
Navigating Settings Menu	17
Automatic Temperature Protection	25
Service and Maintenance	26
Self-Maintenance.....	26
Repairs.....	26
Firmware Updates	27
Regulatory Information on Device	29
Serial Number on Device	29
Technical specifications.....	30
Warranty.....	31
Credit	31

Nomenclature



- | | |
|---------------------------|------------------------------|
| 1. Handle | 5. Clamp screw connection |
| 2. Yoke wheel | 6. Swivel yoke button |
| 3. Safety wire connection | 7. Safety wire |
| 4. Stand adapter | 8. Fan (must not be covered) |



- | | |
|------------------------------------|---------------------------------|
| 9. Light On/Off
Navigation back | 13. DMX in |
| 10. DMX out | 14. Device On/Off
Quick exit |
| 11. Center button and dial | 15. USB (behind handle) |
| 12. AC power in | 16. Display |

Getting started

Mandatory safety instructions

Transport & Handling

Cap and Power Off: Before transportation, turn off the unit, mount the transport cap and disconnect from mains power.

Safe Transport: Always use the provided case to prevent damage during transport.

Before Use:

Inspect: Before connecting to mains, check the housing and front glass for cracks. If the front glass is dirty, wipe it with a soft cloth.

In the Event of Equipment Damage

Stop Use and Disconnect: If there are any open cracks in the housing or front glass, immediately stop use, disconnect from power to prevent electric shock risk. Do not touch any internal parts and contact Profoto Service or an authorized service center for assistance.

High Voltage Warning

Persistent Voltage: High internal voltage remains up to 10 minutes after the unit is turned off and disconnected from mains. Never remove front glass or touch any parts inside without referring to the complete user guide and Quick Start and Safety Guide.

Self-Maintenance

See Maintenance, Care instruction on page 26.

Repairs

Authorized Service Only: Any repairs beyond basic self-maintenance must only be performed by authorized service personnel. For assistance, contact Profoto Service or an authorized service center.

In addition to this user guide, you are required to read the Quick Start and Safety Guide before you start using your L1600D. It contains vital information for the safe operation of the product as well as important regulatory information. The Quick Start and Safety Guide is supplied in print with the L1600D translated into many languages, it can also be found for download where you download this user guide.

Powering up the unit

1. Connect the power cable connector to the power connection [12].
2. Connect the power cable to mains power.

The L1600D unit starts and the display lights up.

Product registration and firmware update

Before using your product for the first time, it needs to be registered and updated. Scan the QR-code below or go to profoto.com/setup for additional instructions.

**Register your light
for extra warranty**



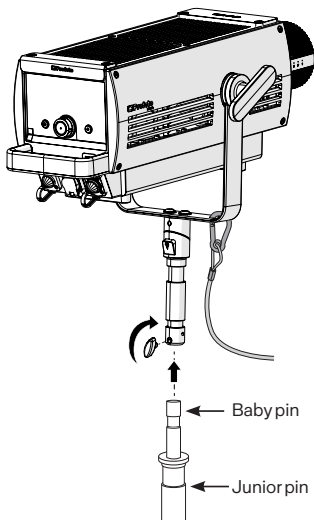
profoto.com/setup

Mounting L1600D

1. There are two types of mounting onto a light stand, baby pin or junior pin. Remove the clamp screw and mount the L1600D to a light stand. Secure the baby pin/junior pin with the clamp screw.
2. L1600D unit can be rotated when pressing the swivel yoke button. Stop pressing the swivel yoke button to lock L1600D in position.
3. The L1600D unit can also be mounted on the ceiling and be directed upwards/downwards when the yoke wheel is loosened.

Warning!

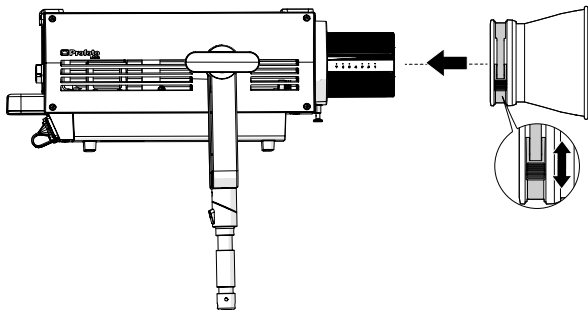
- Make sure that no people or object are nearby during rotation to avoid accidents.
 - While operating the yoke, be aware of the risk of pinching hands.
 - Do not mount or fixture the L1600D upside down, and make sure that the fan is not covered.
4. Connect a safety wire to secure the lamp.



Mount Profoto Light Shaping Tools

The L1600D has dual mounting options; Bowens mount and Profoto adapter. When the adapter is mounted in the Bowens mount, it is compatible with more than 50 light shaping tools, which can be used to shape its already beautiful light into almost any light you can imagine.

1. Mount the Profoto adapter onto the Bowens S-mount of the L1600D.
2. Once the adapter is secured, slide a Profoto light shaper onto it.
3. After mounting a Profoto reflector, you can shape the light by sliding the reflector back and forth along the zoom scale on the adapter. Lock the reflector in the desired position using the clasp on the reflector.



Operating instructions

Switch on/off

Connect the device to the power source. To switch the unit on and off, press the On/Off button [14].

When the unit is switched off, the last settings are stored and will apply when the unit is switched on again.

Adjusting light intensity

Percentage scale, 0-100%

Turn the center button [11] to adjust the brightness ratio from 0-100%.

- Turning the center button [11] will adjust the light intensity 0.1 percentage points for every step.
- When turning the center button [11] fast, the light intensity change will accelerate.



Setting up wired and wireless remote control

Profoto L1600D supports the following remote control options:

- Wired DMX
- CRMX (wireless DMX)
- Bluetooth CRMX
- Profoto Control App (via Bluetooth)
- Profoto Air

Note on DMX/CRMX priority

If a DMX cable is connected and both CRMX and Bluetooth are active, the light will automatically prioritize incoming control signals in the following order:

- Wired DMX
- CRMX
- Bluetooth CRMX

Wired DMX

Go to Setting > DMX to set the DMX address, profile, and general DMX behavior.

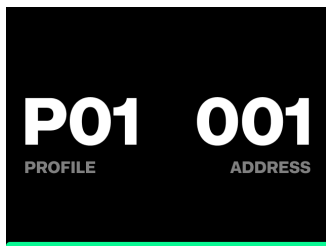
1. Connect your DMX controller to the DMX IN port (5-pin XLR, located next to the power connector).
2. To daisy-chain a second fixture on the same address, connect from the DMX OUT port on the first unit to the DMX IN port on the next one.

Once the L1600D detects an active DMX signal:

- The DMX main screen appears, showing a green line at the bottom and a large display of the selected profile and address.
- Local control is disabled, except for access to the Settings menu.
- DMX profile, address, and related settings can always be adjusted through Settings > DMX, even when DMX is active.

DMX main screen

12

**CRMX**

The L1600D includes an integrated LumenRadio TimoTwo module for CRMX wireless DMX control.

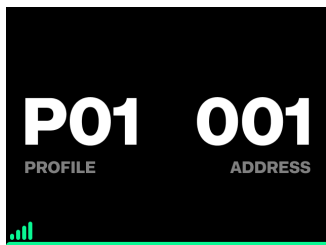
Go to **Setting > DMX** to set the DMX address, profile, and general DMX behavior – just like with wired DMX.

To link with a CRMX transmitter:

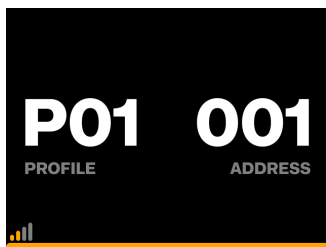
1. Go to **Settings > Wireless > Mode**, and make sure CRMX Receiver is set to ON.
2. If the CRMX status shows LINKED, press UNLINK to clear any previous connection.
3. Press the LINK button on your CRMX transmitter to initiate pairing.

Once linked and a CRMX signal is present:

- The DMX main screen appears, showing the active profile and DMX address.
- The signal strength is shown in the lower-left corner.
- If the signal is weak, the green line at the bottom of the screen turns yellow.



DMX main screen with good signal CRMX linked.



DMX main screen with weak signal CRMX linked.

Bluetooth CRMX

The integrated LumenRadio TimoTwo module also supports Bluetooth CRMX control via the Blackout app.

To enable a Bluetooth CRMX connection, make sure both of the following are set:

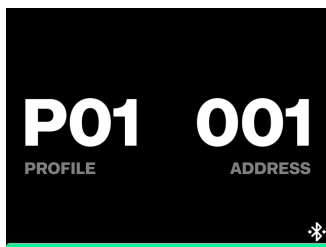
- CRMX Receiver is ON and UNLINKED (**Settings > Wireless > Mode > CRMX Receiver**).
- Bluetooth is ON and Disconnected (Settings > Bluetooth).

Then follow the instructions in the Blackout app to connect your light.

In the app, the fixture will appear as “[Model name] TimoTwo” in the list of available Bluetooth devices.

Once successfully connected:

- The DMX main screen is displayed, showing the active profile and address.
- A Bluetooth connection icon  appears in the bottom-right corner of the screen.



DMX main screen with Bluetooth DMX connected.

Profoto Control App

The integrated Bluetooth module supports remote control via the Profoto Control app, available on the App Store and Google Play. For more information, go to profoto.com.

To pair a light with the Profoto Control app, make sure that Bluetooth is ON and Disconnected (**Settings > Bluetooth**).

Then follow the in-app instructions to connect your light.

NOTE:

Once a light has been connected to the Profoto Control app, it will automatically reconnect the next time you launch the app - until you manually disconnect the light in the app.

Profoto Air (and Air flash mode)

Profoto Air is a proprietary wireless protocol integrated into all Profoto lights. It enables remote control and flash triggering via any Profoto on-camera remote, such as the Profoto Connect Pro. When Profoto Air is selected, you can also enable Air Flash mode to use the lamp as a flash source instead of continuous light.

With Air Flash enabled:

- The continuous light is dimmed to a low standby level
- The lamp will pulse a 30-millisecond flash at full set intensity when triggered from a Profoto remote.

Air Flash Mode is ideal for use cases where high-intensity flashes are needed, without keeping the full continuous light output active. It reduces power consumption and increases comfort for subjects, especially in portrait photography.

To select Profoto Air (and Air Flash):

1. Go to **Settings > Wireless > Mode** and select Profoto Air
2. The Profoto Air menu will open, allowing you to:
 - Select the same Air channel (1–100) as set on your remote.
 - Assign the light to an Air group (A–F).
 - Enable Air Flash if you want to use the lamp as a flash.

Once Profoto Air is active:

- The dimming scale on the main screen changes to the Profoto scale (0.1–10), matching the scale used by Profoto remotes.
- The selected channel and group are shown in the bottom-left corner of the screen.
- If Air Flash is enabled, a flash symbol  is displayed on the main screen.



Main screen with Profoto Air and Air flash active.

Navigating Settings Menu

The Settings menu gives you access to all configurable options for the unit.

- Enter the Settings menu with a short press on the center dial.

SETTINGS	
DMX	P1-001
WIRELESS	OFF
BLUETOOTH	ON
DIMMING CURVE	LINEAR
AUTO ON	ON
FAN	AUTO
INPUT POWER LIMIT	AUTO
DISPLAY OPTIONS	>
GENERAL	>
FACTORY RESET	>

- Exit the menu with a short press on the right button.
- Go back one level with a short press on the left knob.

The following sections provide an overview of all available sub settings.

DMX settings

The DMX submenu lets you select and set all DMX-related settings.

DMX	
ADDRESS	001
PROFILE	P1
RDM	OFF
TERMINATION	ON
LOSS BEHAVIOR	HOLD LAST
SMOOTHING	OFF

Address

Set the DMX address (001–512) for the fixture. Default address is 001.

Profile

Select a DMX profile that matches your controller and workflow. For a detailed list of all available profiles, refer to the L1600D DMX profile specifications, available at profoto.com/support. Default profile is P1.

RDM

Enable or disable RDM (Remote Device Management).

- **Off** (default) = RDM disabled.
- **On** = RDM active.

Termination

Control the DMX termination setting:

- **Off** = Forwards the DMX signal to other daisy-chained lights.
- **On** (default) = Terminates the DMX signal.

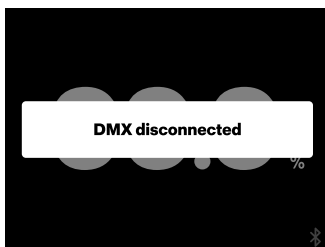
Tip: When using multiple fixtures in a DMX chain, it is recommended to terminate the last light in the chain.

Loss Behavior

Select what happens if the DMX signal is lost:

- **Hold Last** (default) – Maintain last known values.
- **Black Out** – Light turns off.
- **Hold 2 min, Fade out** – Hold last value for 2 minutes, then fade out.

When the DMX signal is lost (e.g., the cable is unplugged) a “DMX disconnected” popup will remain on the screen until the user presses a button, or the DMX is reconnected.



Smoothing

Adjust how smoothly DMX transitions are handled:

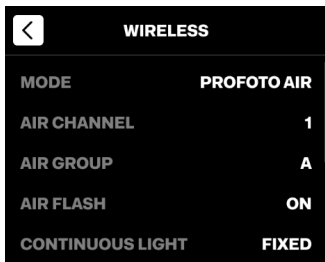
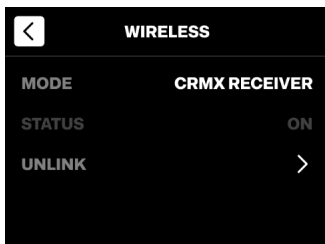
- **Off** (default) – Maximum response speed (no smoothing).
- **Smooth** – Transitions are smoothed over two DMX frames.
- **SuperSmooth** – Transitions are smoothed over four DMX frames, resulting in very smooth dimming, even in 8-bit mode.

Wireless settings

The Wireless menu lets you select the desired wireless control mode:

- **Off** (default) – Disables all wireless communication except Bluetooth.
- **CRMX Receiver** – Enables wireless DMX via LumenRadio.
- **Profoto Air** – Enables Profoto’s proprietary remote control and flash sync system.

When CRMX Receiver or Profoto Air is selected, additional submenus opens for further configuration.



For detailed instructions on how to configure each wireless mode, see the “**Setting up wired and wireless remote control**”.

Bluetooth settings

Bluetooth can be set to ON or OFF. ON is default and is required to enable Bluetooth CRMX and to pair the lamp with the Profoto Control App.

For detailed instructions on how to connect to the Profoto Control App or the Blackout App via Bluetooth, see the “**Setting up wired and wireless remote control**”.

Dimming curve settings

Select from four available **dimming curves** to customize how the light responds when dimmed. If a curve other than Linear is selected, a dimming curve icon appears on right side of the main screen (just above the percentage symbol).

- **Linear** (default) - Standard linear dimming response.
-  **Logarithmic** - Smoothest dimming at high brightness levels.
-  **Exponential** - Smoothest dimming at low brightness levels.
-  **S-curve** - Smooth dimming at both low and high brightness levels.

NOTE:

- The selected dimming curve does not apply in Profoto Air (Photo mode).

Auto On setting

Auto On determines what happens when the lamp is connected to power. You can set it to:

- **On** (default) – The lamp automatically turns on using the previously selected settings when power is connected.
- **Off** – The lamp remains off when power is connected and must be turned on manually.

Fan settings

Select from three available fan modes. When a mode other than Auto is active, a fan mode icon appears in the top-right corner of the main screen.

- **Auto** (default) - Adjusts fan speed automatically to maintain a safe operating temperature.
-  **Max** - Runs the fan at a constant high speed, equivalent to the maximum fan speed used in Auto mode.
-  **Silent** - Runs the fan at a minimum constant speed.

NOTE:

Silent fan mode limits the maximum available light output.

Input power limit settings

Limit the lamp's input power to reduce maximum power draw – useful when:

- Power sources are fused with limited current.
- Multiple lights share the same circuit.
- A portable generator or battery pack is used.

Select from three available input power limits. When a limit other than Auto is active, the selected power limit appears in the top-left corner of the main screen.

- **Auto** (default) – Automatically allows the highest input power based on input voltage.
- **1200W** – Limits input power to 1200 Watts.
- **800W** – Limits input power to 800 Watts.
- **400W** – Limits input power to 400 Watts.

Display option settings

Adjust the display option settings to show or hide certain information on the main screen, and to set the screen brightness.

Available Options:

- Input Power
 - **Show** – Displays current power draw on the main screen.
 - **Hide** (default) – Hides power draw info on the main screen.
- DMX Info
 - **Show** – Displays the selected DMX profile and channel on the main screen.
 - **Hide** (default) – Hides DMX info on the main screen.
- Display Brightness
 - **Max:** Locks brightness at maximum level.
 - **Medium:** Locks brightness at medium level.
 - **Low:** Locks brightness at low level.

General (informational)

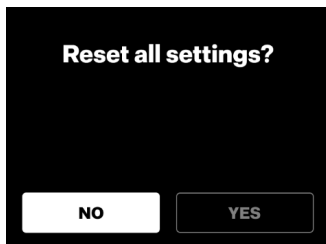
The General submenu is informational only – no settings can be changed here. It provides access to unit-specific statistics, hardware details, firmware version, and regulatory information.

Available information in submenu:

- **Unit Stats** – Displays usage information about total runtime and power-on count (sessions).
- **About** – Shows serial number, hardware version, and installed firmware version.
- **Regulatory Info** – Lists relevant certifications and compliance information.

Factory reset

Use this submenu to restore all device settings to their factory defaults. This action resets all user-defined configurations but does not affect firmware version or runtime statistics.



Automatic Temperature Protection

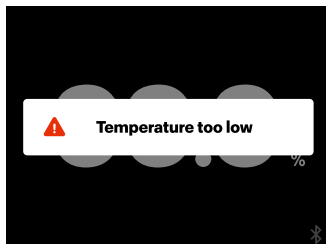
The L1600D has built-in Temperature Protection to prevent damage from overheating or extremely low temperatures.

- **Too hot** - If the internal temperature becomes critically high, a “COOL” indicator appears on the main screen.

If the temperature continues to rise, the light output shuts off, and the fan switches to maximum speed for cooling.



- **Too cold** - A similar warning will be shown if the unit is turned on below the critical minimum temperature for the liquid cooling (e.g. when frozen).



Service and Maintenance

Self-Maintenance

To clean the unit, gently wipe the exterior with a soft cloth moistened with a small amount of mild detergent. Use a second dry cloth to remove any remaining moisture.

To prevent dust buildup, perform regular maintenance using low-pressure compressed air, especially around ventilation openings.

26

Caution:

Always disconnect the unit from mains power before performing any cleaning or maintenance.

Repairs

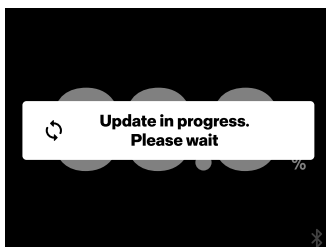
Any diagnostics or repairs beyond basic maintenance must only be carried out by a trained and Profoto-authorized service partner. For assistance, contact Profoto Service or an authorized service center.

Firmware Updates

To ensure the product operates with full functionality, it is essential to always have the latest firmware installed. If you have registered your product, you will be notified whenever a new firmware version becomes available.

The recommended method for updating the firmware is via the Profoto Control App. When the unit is connected to the app, it will notify you if an update is available. Simply follow the in-app instructions to complete the update.

While the firmware update is in progress, a static “Update in Progress” message will be displayed on the device’s main screen. The update progress will be shown within the app connected to the device.

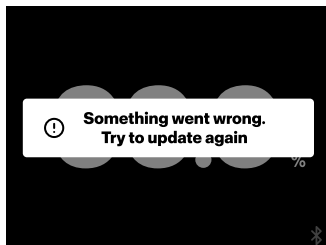


Once the firmware update over Bluetooth is completed, the device will automatically restart.

- If no additional internal updates are required after the restart, an “Updated Successfully” popup will appear for 3 seconds. The device will also notify the app that the update has completed successfully.
- If internal device updates are required after the restart, a “Finalizing Update” popup with a progress bar will be displayed to indicate that the update is still in progress.

When the internal update is complete, an “Updated Successfully” popup will appear for 3 seconds, and the device will notify the app that the update has finished

If an error occurs during the internal update, a “Something Went Wrong” message will appear and remain on the screen until a button is pressed or the update process is restarted.



Regulatory Information on Device

Go to **Settings > General > Regulatory** info to see information about Certifications and other Compliance information.

Serial Number on Device

The serial number is printed on the bottom of the unit. You can also go to **Settings > General > About**.

Technical specifications

Model name	L1600D
Regulatory model	PCA2635
Rated input	100-240 VAC, 50/60 Hz Max 1600 W, Max 15 A
CCT (Correlated Color Temperature)	5 600K
CRI (Color Rendering Index)	Typ. 95
TLCI (Television Lighting Consistency Index)	Typ. 97

For additional technical specifications and photometrics, visit Profoto.com.

Warranty

All generators, heads, and remote controllers, manufactured by or for Profoto, which bear the Profoto trademark, name, or logo are individually tested before they leave the company and guaranteed for a period of one year (with the possibility to prolong when the device is registered) with the exceptions set out in Warranty terms. If you have any technical problems with the product, please get in contact with an authorized Profoto service station or visit: <https://profoto.com/support/warranty>.

Credit

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