



Powerology

VELINK Wireless HDMI Transmitter & Receiver

SKU: PWL50DBK

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Product Introduction

The Powerology VELINK Wireless HDMI Transmitter & Receiver delivers cable-free Full HD 1080P streaming between your source device and display over a stable 5.8GHz wireless connection. Compact and plug-and-play, it mirrors or extends video from laptops, PCs, set-top boxes, karaoke players, and surveillance recorders to TVs, monitors, projectors, and LED displays at up to 50 metres, with low-latency H.265 compression for smooth playback.



Structural Diagram

The VELINK set consists of a Transmitter (Source / PC side) and a Receiver (TV / Display side). Each unit has an HDMI plug for the connected device, a USB-C port for power, a pairing / function button, and an LED status window that indicates connection state, signal strength, and source or display mode.



Package Contents

1. 1 x VELINK Transmitter
2. 1 x VELINK Receiver

Safety Instructions

Warning:

1. Do not immerse the transmitter, receiver, or cables in water or any liquid.
2. Keep the device away from open flames and heat sources.
3. Do not disassemble, modify, or attempt to repair the device.
4. Do not drop, crush, or subject the device to strong impacts.
5. Power the device only from a USB-C source matching the rated input; incorrect voltage may cause fire or damage.
6. Use a compatible USB-C cable and adapter of the correct rated output to avoid overheating or electrical damage.
7. Do not operate the device with wet hands or on wet surfaces to avoid electric shock.
8. Stop using the device immediately if you notice smoke, unusual smell, or overheating.
9. Keep the device and small accessories away from children to prevent choking or injury.
10. Do not use the device or its USB-C cable if the cable, connector, or housing is damaged, frayed, cracked, or deformed; discontinue use and replace the affected part.

Attention:

1. Follow the instructions in this manual for correct setup and use.
2. Allow adequate ventilation around the transmitter and receiver to prevent overheating during operation.
3. Do not block the housing or cover the device while it is in use.
4. Avoid placing the device in direct sunlight or near heat-producing equipment.
5. Do not use the device in flammable, corrosive, or otherwise extreme environments.
6. Keep the device away from strong sources of wireless interference to maintain stable 5.8GHz transmission.
7. Store the device in a clean, dry place when not in use.
8. Clean the housing with a soft, dry cloth; do not use solvents or abrasive cleaners.

9. For any malfunction or warranty claim, contact customer service rather than servicing the unit yourself.

Setup & Usage

1. Identifying the Transmitter and Receiver

The Transmitter is labelled 'PC / Source' and connects to the device that outputs the video (laptop, PC, set-top box, DVR, karaoke player, etc.).

The Receiver is labelled 'TV / Display' and connects to the screen that will show the video (TV, monitor, projector, or LED display).

Remove the protective HDMI caps from both units before use, and replace them for storage.

2. Connecting the Receiver to Your Display

Plug the Receiver's HDMI connector into a free HDMI input on your TV, monitor, or projector.

Connect a USB-C cable from the Receiver's USB-C port to a 5V/1A power source, such as the display's USB port or a standard USB adapter.

Switch your display to the matching HDMI input source.

Wait for the Receiver's LED indicator to show it is powered and ready.

3. Connecting the Transmitter to Your Source Device

Plug the Transmitter's HDMI connector into the HDMI output of your source device.

Connect a USB-C cable from the Transmitter's USB-C port to a 5V/1A power source.

Power on the source device; it will detect the Transmitter as an external HDMI display.

If needed, set the source device's display mode to Duplicate or Extend.

4. Pairing and Streaming

Once both units are powered, they will automatically search for each other on the 5.8GHz band.

When paired, the 'Connected' indicator will light up on the Receiver and the video will appear on your display.

For best performance, keep the Transmitter and Receiver within line of sight and within the 50m range.

To re-pair manually, press and hold the function button on both units until the status LED confirms a fresh connection.

5. Understanding the LED Indicators

Connected: A stable connection has been established between Transmitter and Receiver.

HD: Full HD video is being transmitted successfully.

Signal bars: Indicate the current wireless signal strength.

Breakdown: The signal has been lost or interrupted — move the units closer or remove obstacles.

Source / Display: Confirms whether the unit is acting as the source (Transmitter) or display (Receiver).

Specifications

Video Resolution	1920 x 1080@60Hz
Wireless Frequency	5.8GHz
Video Compression	H.265
Wireless Range	50m
Maximum Bandwidth	6.75Gbps
Maximum Pixel Clock	165MHz
Rated Input	5V/1A
Power Port	USB-C
Transmitter & Receiver Power	5W Max
Product Weight	120g
Product Size	Receiver: 83 x 24 x 12mm Transmitter: 83 x 24 x 12mm
Product Material	ABS
Model Number	PWL50D

Key Features

1. Full HD 1080P @ 60Hz wireless video streaming for sharp, smooth picture quality.
2. Stable 5.8GHz wireless signal with low-latency H.265 compression.
3. Long-range transmission of up to 50 metres between transmitter and receiver.
4. True plug-and-play operation — no software, drivers, or app required.

5. Compact, lightweight design that travels easily in a bag or pocket.
6. USB-C powered — draws power from a TV USB port, laptop, or standard 5V/1A adapter.
7. Wide compatibility with laptops, PCs, set-top boxes, DVRs, karaoke players, TVs, monitors, projectors, and LED displays.
8. Clear on-device LED status indicators for connection, signal, and source/display roles.

Maintenance Tips

1. Care and Storage

Keep both units clean and free of dust; wipe the housing with a soft, dry cloth.

Always fit the protective HDMI caps when the devices are not in use to protect the connectors.

Do not expose the units to water, moisture, or extreme temperatures.

Avoid dropping or crushing the devices, as this can damage the internal antennas and HDMI pins.

Store the Transmitter and Receiver together in a dry place to keep the pair matched.

Use only a good-quality 5V/1A USB-C power source; unstable power can cause dropouts.

Do not attempt to open, modify, or repair the units — there are no user-serviceable parts inside.

Frequently Asked Questions

1. Do I need to install any software or app to use the VELINK?

No. The VELINK is fully plug-and-play. The source device recognises the Transmitter as a standard HDMI display, and no drivers, apps, or configuration are required.

2. What devices are compatible with the Transmitter and Receiver?

The Transmitter works with any device that provides a standard HDMI output, such as laptops, PCs, set-top boxes, surveillance video recorders, and karaoke players. The Receiver connects to any HDMI-input display, including TVs, monitors, projectors, and LED displays. Mobile devices (such as smartphones and tablets) can be used only if they support HDMI output via a separately purchased HDMI adapter compatible with the device.

3. How far apart can the Transmitter and Receiver be?

Up to 50 metres, provided there is clear line of sight. Walls, metal objects, and other wireless interference can reduce the effective range.

4. How are the units powered?

Each unit has a USB-C port and requires a 5V/1A power input. You can power them from a display's USB port, a laptop's USB port, a power bank, or any standard USB-C wall adapter.

5. Does the VELINK support 4K resolution?

No. The VELINK transmits Full HD 1080P at 60Hz. Higher-resolution sources will be automatically scaled down to 1080P by the Transmitter.

6. Can I use more than one Transmitter with a single Receiver?

The Transmitter and Receiver ship as a pre-paired set and are designed to work as a one-to-one pair for the most stable performance.

7. Is there a noticeable delay when streaming?

The VELINK uses H.265 compression for low-latency transmission, making it suitable for video playback, presentations, and general screen mirroring. Extremely latency-sensitive uses such as competitive gaming may still notice a small delay.

Troubleshooting

Problem	Likely Cause	Solution
No power / LED does not light up	USB-C cable disconnected or power source too weak	Check the USB-C cable and use a 5V/1A power source such as a USB adapter or a display's USB port.
No image on the display	Wrong HDMI input selected on the TV/monitor	Switch the display to the HDMI input the Receiver is plugged into.
Receiver shows 'Breakdown' or no signal	Transmitter unpowered or out of range	Ensure the Transmitter is powered, then move the units closer and remove obstacles between them.
Signal indicator shows only one or two bars	Long distance or wireless interference	Reduce the distance, keep line of sight clear, and move away from routers, microwaves, and other 5GHz devices.
Video freezes, stutters, or drops out	Weak signal or unstable USB power	Move the units closer, use a higher-quality USB-C cable, and connect to a stable 5V/1A power source.
Picture appears but no sound on the display	Audio output not routed to HDMI on the source device	In the source device's sound settings, select the HDMI/VELINK output as the default audio device.

Problem	Likely Cause	Solution
Resolution looks lower than expected	Source is outputting below 1080P	Set the source device's display output to 1920 x 1080 at 60Hz.
Transmitter and Receiver do not pair automatically	Pairing was interrupted or units were mismatched	Power both units off and on again; if needed, press and hold the function button on both units to re-pair.
Units become warm during use	Normal operation under load	This is normal; ensure the units are placed in a ventilated area and not covered.
Source device does not detect an external display	HDMI connector not fully seated	Unplug and firmly reinsert the Transmitter into the HDMI output of the source device.
Intermittent disconnection during long sessions	Power source going to sleep	Use a wall adapter instead of a TV USB port that may power down, or disable USB standby on the display.
HDMI connector feels loose in the port	Damage to the HDMI plug or port	Inspect the connector for bent pins; if damaged, discontinue use and contact Powerology support.

Disposal

This product must not be disposed of as unsorted household waste. It is important to separate such waste for proper treatment and recycling, in compliance with local waste management regulations.

Warranty

Products that you buy directly from our Powerology website or shop come with a 24-month warranty.

The 24-month warranty applies to products purchased directly from our Powerology website or store. If Powerology products are bought from any of our verified retailers, then the product is eligible for only a 12-month warranty. To extend your product's warranty, visit our website www.powerology.me/warranty and fill in your details in the provided form along with an uploaded picture of the product to process your request. Once approved, you will receive a confirmation email of the extended product warranty. Upload the required information within 48 hours of purchase to be eligible for a 24-month warranty period.

For more info, please check: www.powerology.me/warranty

Contact Us

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