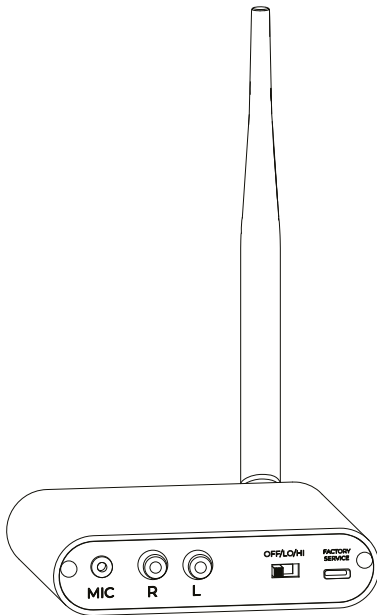


FALCON

transmitter

User manual



Version 1.2

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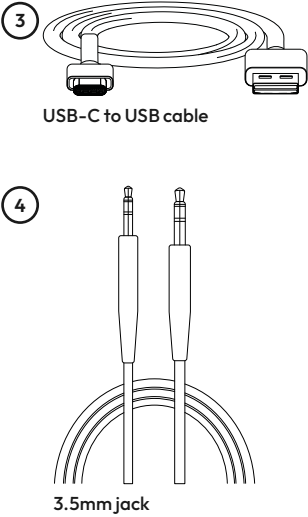
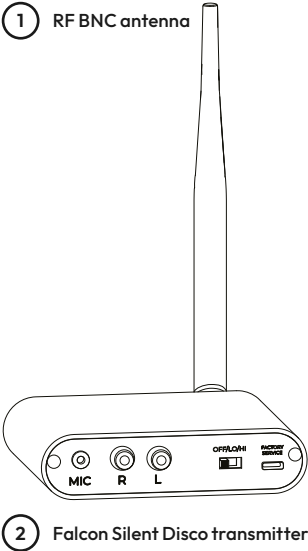
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What's included?



Scan for more



Scan the QR code for product information, guides & videos.

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Operating your transmitter

Getting the most out of your Falcon Silent Disco transmitter.

1. 3.5mm mic input

- **Broadcast voice:** Connect a microphone to the transmitter to broadcast live audio.

2. RCA audio input

- **Input mode:** Connect devices such as a laptop, phone, tablet, or TV to play audio. Use the RCA adapter if required.

3. LED status indicator

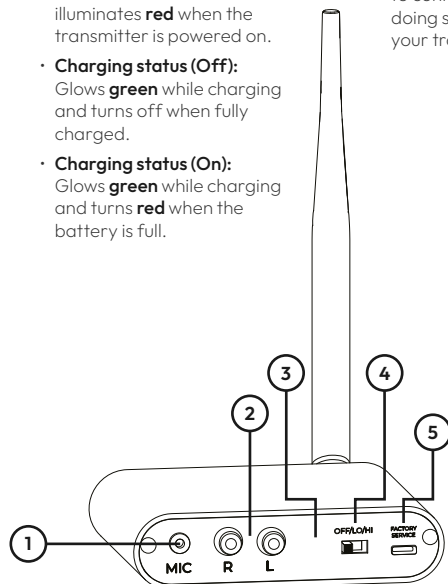
- **Power status:** The LED illuminates **red** when the transmitter is powered on.
- **Charging status (Off):** Glows **green** while charging and turns off when fully charged.
- **Charging status (On):** Glows **green** while charging and turns **red** when the battery is full.

4. Power switch

- **Adjust power:** Toggle between **off**, **low power**, and **high power**. (Check RF power levels for your model with the supplier). Note: Transmitter defaults to low power when running on the internal battery.

5. USB service socket

- **Factory service:** For service engineers only. Do not attempt to connect to this socket, as doing so may cause damage to your transmitter.



6. RF BNC antenna socket

- **Signal output:** Connect the supplied RF BNC antenna here.

7. Frequency/channel button

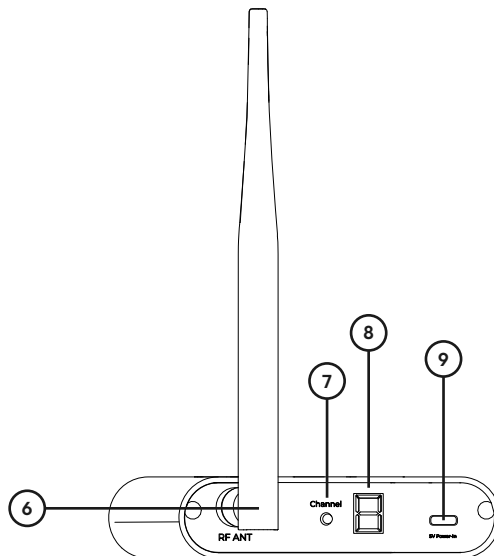
- **Switch channel:** Press this button to cycle through the available transmission frequencies.

8. LED display screen

- **Channel identity:** Displays the number of the currently selected RF transmission channel.

9. USB-C charging port

- **Recharge:** Insert the supplied USB-C cable into the socket to initiate charging or provide continuous power to the transmitter.



Frequencies & channels

Frequencies

Superior sound quality

Falcon transmitter receives audio by UHF radio frequencies.

The standard frequencies for your transmitter are listed below according to the region you selected when purchasing your transmitter.

Region	UK, EU and ROW	
Channel 1	Red	863.1MHz
Channel 2	Green	863.7MHz
Channel 3	Blue	864.9MHz
Channel 4	Yellow	N/A

Region	USA/CANADA	
Channel 1	Red	914.0MHz
Channel 2	Green	915.0MHz
Channel 3	Blue	916.0MHz
Channel 4	Yellow	917.0MHz

Please note: Frequencies and other specifications may be changed without notice. If in doubt please confirm with supplier.

Channel selection

Falcon transmitter has the ability of hosting up to three channels. Broadcast up to three simultaneous audio streams for your events.

How to switch channels

1. Ensure the transmitter is **switched on**.
2. Simply tap the **channel button** to cycle through the three available audio channels.
3. The LED light will **display the number** of the currently selected RF transmission channel.

Compatible equipment

Falcon Silent Disco transmitter is 100% compatible with most legacy Silent Disco King over-ear systems. As long as your gear shares the same frequency and region, you're ready to go.

Silent Disco supported gear

Product name	Product code/SKU
Headphones	
Zed Silent Disco headphones	ZED-0100
Tom Silent Disco headphones	HR20RF
Harry Silent Disco headphones	OE600L
Joe Silent Disco headphones	OE500L
Bob Silent Disco headphones	OE300L
Ned Silent Disco backpack receiver	OE900B
Transmitters	
Falcon Silent Disco hybrid bluetooth transmitter	OE2000-BT
Donkey Silent Disco transmitter	OE1100M
Parakeet Silent Disco backpack transmitter	OE900
Parrot Silent Disco backpack transmitter	OE1700

Troubleshooting

Transmitter not connecting?

Most connection issues can be resolved in a few simple steps. Please refer to the troubleshooting checklist and common fixes on **page 11**.

Still stuck?

Gather the relevant **product code/SKU** and contact your supplier for further assistance.

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Technical specifications

Feature	Specification
Model	OE2000
Dimensions	H: 10.5cm W: 9cm D: 2.5
Channels	3
Battery life	Up to 5 hours (lights off) Up to 4 hours (lights on)
Power saving	After 10 minutes of no detected signal
Buttons	On/Off, Low/High, Channel Select
Modulation	FM
Audio mode	Stereo, HD, SD
Operational distance	300m (in an open space)
Impedance	32 ohm
Speaker type	40mm mylar
Frequency response	30Hz – 15,000Hz
S/N ratio	> 70dB
Channel separation	> 40dB
Distortion	0.1%
Battery type	5V USB-C adaptor, 3.7 lithium-ion battery
Weight	200g
Customisable branding	N/A
Connections	Aux (3.5 mm jack), 3.5mm microphone, RCA audio
Charging connection	USB-C
Charging time	< 4 hours
Audio input voltage	N/A
Power source	9V DC / 3.7V lithium-ion battery
Charging voltage	9V
Charging current	350mA
R F power	Low: 10dBm / High: 29dBm
Modulation frequency offset	50kHz / 600mVrms
Working current	Low: 200mA / High: 450mA

Do's and don'ts

Do's

✓ Listening levels

Use systems at comfortable and safe listening levels.

✓ Cleaning

Wipe the exterior surfaces with antibacterial wipes after each use. Ensure no moisture enters the audio inputs or charging ports. Ear pad covers are available from your supplier.

✓ Charging

Fully charge your transmitter before every event to ensure maximum battery life for your audience.

✓ Serial number

You can find your unique product serial number on the front of the transmitter.

Format example: 0525EU

✓ System expansion

Feel free to expand your system. Mix and match a variety of over-ear headphones, receivers and transmitters.

Don'ts

✗ Extreme temperatures

Do not store equipment in environments exceeding 45°C.

✗ Moisture & damp

Avoid contact with water and do not store headphones in damp or high-humidity areas to prevent internal damage.

✗ Input obstruction

Do not allow liquids or debris to enter the 3.5mm jack during the cleaning process.

✗ Channel overlap

Avoid using 2+ transmitters on the same channel.

✗ Transmitter proximity

Keep transmitters at least **one metre apart** to prevent signal distortion.

✗ Modifications

Do not attempt to modify equipment. This **invalidates your warranty** and poses a safety risk.

✗ Extended time periods

Don't use headphones for extended periods of time.

Help and advice

Call or email for help and advice.

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Safety instructions

Essential information for your safety and product longevity.

Usage & maintenance

Cleaning

Always switch off and unplug equipment before cleaning.

Modifications & repairs

Do not attempt to repair or replace any parts. Please contact the Silent Disco King in-house repair team.

Damages

Do not use if the unit is damaged by water, heat, or physical impact.

Power & charging

Connection

Ensure connections are secure and away from excessive heat or sunlight.

Wall sockets

Do not overload wall sockets.

Power cable

Use only the supplied power cable and accessories.

Disconnect

Disconnect from power after charging and during long periods of inactivity.

Environmental safety

Environment

Keep transmitter in a cool, dry place; avoid extreme temperatures.

Heat sources

Keep away from radiators, heat-emitting screens, and amplifiers.

Moisture protection

Store and transport in a dry environment to prevent corrosion.

Terminals

Ensure terminals do not touch metal objects to prevent short circuits.

Troubleshooting guide

Here's our troubleshooting checklist and common fixes.

No audio or music?

1. Check your source

Ensure the audio feed is securely connected. Test with a different playback device or cable. If using Bluetooth, ensure you are paired to "OE Falcon #00061".

2. Verify power & volume

Confirm units are **ON**, set to the correct channel, and the volume is turned up.

3. Auto power-off

Units shut down after **10 mins** of inactivity. Ensure your transmitter is actively broadcasting.

Signal drops, interference, or reduced range?

1. Wireless interference

Ensure there is no interference from other wireless devices in the area.

2. Channel conflicts

If running multiple transmitters, ensure each is set to a unique channel. Operating two transmitters on the same frequency in the same space will cause **signal cancellation**, resulting in distorted or zero audio.

3. Transmitter spacing

Maintain a minimum distance of **one metre** between transmitters. Placing them too close together can cause signal intermodulation and interference.

No Power?

1. Check charge

Ensure the unit is charged and the power switch is in the **Low** or **High** position. Try an alternative USB-C cable if the power LED fails to illuminate.

Warning

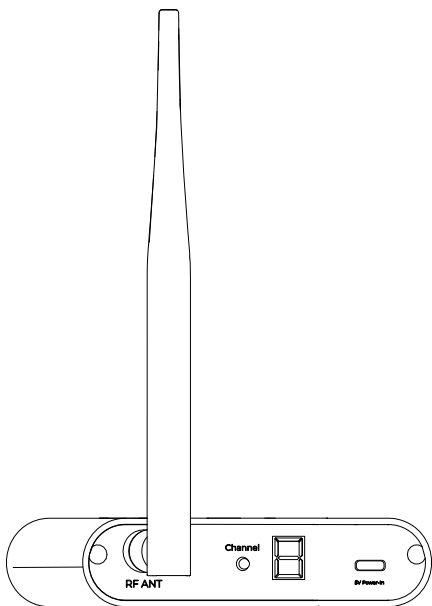
Non-compliance may result in electric shock, fire, or equipment damage, and will void the product warranty. For concerns, contact your dealer or the manufacturer.

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