



ifi

audio

SPDIF iPurifier2

What is the SPDIF iPurifier2?

Splutter no more...

The Sony/Philips Digital Interface (S/PDIF) came into being in the second half of the 1980s. It is an interconnect used in mainstream audio equipment to output audio over relatively small distances.

The signal can be transmitted over a coaxial cable with RCA connectors or over a fibre optic cable with TOSLINK connectors. S/PDIF is used to connect components in home theatre or gaming systems and can be used with Apple TV, Google Chromecast, PS4, Xbox One X and your CD transport.

Using this type of interconnect has one inherent problem – jitter.

Jitter is the degradation of the audio signal when converting from analogue to digital and vice versa. It is the deviation in time from when an event should take place and when the event actually occurs. It causes issues with the conversion of the signal and can add digital interference.

In simple audio terms, your music ‘splutters’. Audio is not as clear as it should be. Movie sound tracks suffer and gaming audio lacks punch.

However, help is at hand.

The SPDIF iPurifier2 does exactly what it says on the tin. It stamps out S/PDIF jitter, and restores signal integrity.



Why should do I use it?

Sound not matching image?

So, you finally treated yourself to that 8K Smart TV with sharp, crystal clear image quality? But something is still lacking? Film soundtracks still don't move you as much as you know they should?

Or despite using the latest Xbox One X with stunning graphics card, your gaming experience is not as immersive as you'd like it to be? Shots not as sharp? Tanks sound like lawnmowers?

You need the SPDIF iPurifier2.

Mainstream devices that output an S/PDIF signal typically suffer from low quality sound transmission due to huge amounts of jitter. This means that left alone the sound quality of your device will always come up wanting.

The SPDIF iPurifier2 restores the compromised signal's integrity, rejuvenates sound quality, and creates increased warmth, depth and dynamic contrast.

Orchestra crescendos are fuller, deeper, richer. Netflix and Sky movies never sounded so good.

Gaming is enhanced. Your Forza 7 Alfa Romeo zooms past your sofa and the zombies are right behind you.



Why should I use it?

Transform your transport > DAC systems

The SPDIF iPurifier2 is Bit Perfect. It is compatible with DTS, DOLBY Digital and DoP signals and offers full HD support up to 192KHz. It works with Toslink and digital cables on practically any S/PDIF source. It can output both S/PDIF and optical at the same time, so you can connect it to two devices at once! It can also function as a coax to optical converter.

If you have a high-end CD transport & DAC on S/PDIF, give the SPDIF iPurifier2 a whirl in your system. Its jitter-busting abilities are pretty impressive. Being galvanically-isolated, it is beyond reproach.

Super-silent power

And to top it all off, we've added our 'super silent' iPower. The SPDIF iPurifier2 must only be powered by 5 volts.

Our 'quieter than battery', audiophile grade power supply does the job very nicely.



How does it work?

So, how did we crack the issue of jitter?

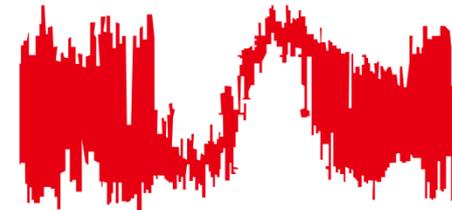
The SPDIF iPurifier2 is the result of nearly four decades of research experience by our Chief Designer Thorsten Loesch.

As discussed, this device eliminates S/PDIF jitter, fully restores the integrity of the compromised signal, rejuvenates sound quality, and creates increased warmth, depth and dynamic contrast.

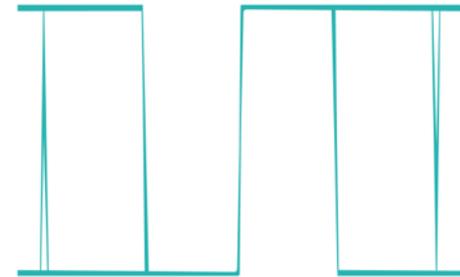
In a nutshell, the SPDIF iPurifier2 challenges jitter on four levels:

1. Reclocks with the 10MHz Global Master Femto Clock – lower jitter
2. Regenerates with the full galvanic isolation of the source device from the DAC – lower jitter
3. Restores with the reduction of the ambient and power-related electromagnetic interference – lower jitter
4. Revitalises with the ultra-clean iPower supply – lower jitter

Find out more on all these technologies in our comprehensive tech note on our website at: https://bit.ly/theTech_SPDIFiPurifier2



Before



After

Technologies



Super-fast 10 MHz Global Master Timing femto clock – this allows for full signal reclocking. It regenerates a stable, high quality signal from the source device. Thanks to the restored timing, the signal is not degraded and jitter – sound distortion – is avoided.



Galvanic isolation means that electrical circuits are separated to eliminate stray currents. The optical/Toslink inputs uses this to ensure less noise pollution.



Four large tantalum capacitors reduce the EMI interference even further by improving the power supply signal.

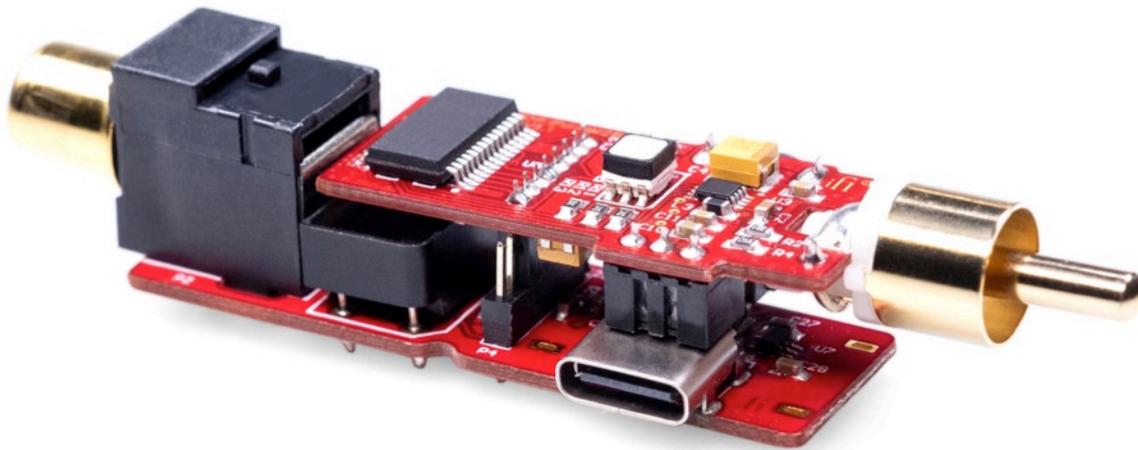
Bit
Perfect

The SPDIF iPurifier2 uses ‘Bit perfect’ technology. It does not over or upsample the signal. Your music remains in its original format as it was meant to be heard.

Find out more on all these technologies in our comprehensive tech note on our website at:
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Specifications

Supported signals:	44.1/48/88.2/96/176.4/192kHz; 16 to 24 Bit, DSD/DoP, Dolby Digital, DTS
Input:	Combo optical mini-jack & gold-plated co-axial connector (impedance 75 Ohms)
Outputs:	Gold-plated co-axial connector (impedance 75 Ohms) & optical mini-jack
Power Supply:	Type-C USB, 5V/500mA (iPower 5V included)
Dimensions:	76 x 19 x 20 mm / 3.0 x 0.7 x 1.8 inches
Weight:	265g / 1.98 oz



SPDIF iPurifier2

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