





WLAN NETWORK SNIFFER

FOR 2.4 AND 5 GHZ WLAN ACCORDING TO IEEE 802.11a/b/g/n/ac





The WaveXpert can be used to record and analyze WLAN transmissions (with Wireshark) that are exchanged between two or more participants in his environment. WLAN transmissions according to the international standard IEEE 802.11a/b/g/n/ac can be recorded. WLAN devices whose transmissions are recorded are, for example for mobile devices such as notebooks, smartphones or PDAs, but also permanently installed equipment such as WLAN access points, WLAN printers or PCs with WLAN cards.

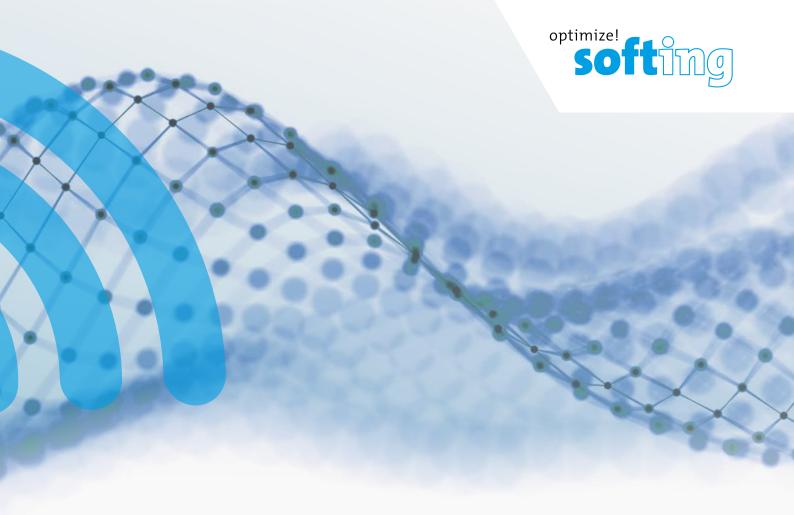
The WaveXpert is available in two versions, as WaveXpert 1 (2.4 & 5 GHz, 4 channels with 20/40/80 MHz and up to 3x3 MIMO) and as WaveXpert 2 (5 GHz, 4 channels with 20/40/80/160 MHz and up to to 4x4 MIMO).

What is recorded

The special feature of WaveXpert is that not only user data but also management and control information is received loss-free and stored for further analysis. The unit operates in passive mode only, WLAN transmissions are only received and nothing sent.

How data is collected

The WaveXpert is designed as a peripheral device for PCs, which have a ThunderboltTM 3 interface. The data collected by the WaveXpert is transmitted via the ThunderboltTM 3 interface to the PC and is stored in the PC's memory. There the data can be displayed and analyzed with Wireshark.



Software/Configuration

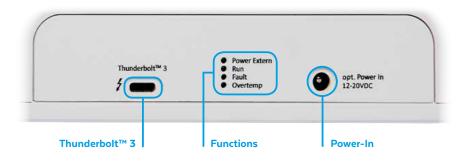
For the operation and configuration of the WaveXpert such as for example the definition of the reception channels or of the channel bandwidth a user interface with a Linux Live operating system on the PC is supplied.

External power connection (power-in socket)

In order to conserve the laptop's battery life and to operate the WaveXpert with larger channel bandwidths, the WaveXpert can be supplied via an external power supply. You can use Powerbanks, which should be able to supply a voltage between 12 and 20V. Devices which are available for additional charging of laptops are suitable for this purpose. The plug of this external power supply, must be compatible with the power socket of the WaveXpert. The polarity of the contacts in the Power-In jack is like shown in the picture. The center pin must be connected to the positive pole. The center pin of the Power-In socket has a diameter of 2.5mm.



The plug of the external power supply should have an outside diameter of 5.5mm.





SPECIFICATIONS	
External data interface to PC	Thunderbolt™ 3
Connector	USB-C
Cable between device and PC	Thunderbolt™ certified with at least 20 Gbit/s Data rate
Power consumption via Thunderbolt™ from PC	15W (max)
Housing protection	IP20
Power Connection	Socket DC In 12V to 20V / 2A (max) 5.5 mm Plug diameter 2.5 mm Center Pin Diameter
Operating temperature range	0 - 35°C 10 - 90%RH non-condensing
Housing dimensions	200 x 135 x 40 mm
Weight (without cable)	0.5 kg
Conformity	CE: RED directive 2014/53/EU CE: ROHS Directive 2011/65/EU USA/Canada: FCC
WLAN standard	IEEE 802.11a/b/g/n/ac (up to 160 MHz)
Frequency	2.4 GHz: 2,412 to 2,472 GHz 5 GHz: 5,180 to 5,825 GHz
Max. channel bandwidth	20/40/80/160 MHz
Simultaneously recordable channels	4

Scope of delivery

- > WaveXpert device
- > Thunderbolt™ 3 Cable
- USB stick with operating software
-) Quickstart manual
- Softbag



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