



WZ, a new generation portable transmitter/receiver for reporters

WZ is a compact lightweight portable transmitter/receiver with excellent HF and audio specifications. Its compact and easy to use design is new to this market. It has been designed to replace the larger size models like Sennheiser Ser 20, but with equivalent audio and RF specifications.

The WZ is a few years on the market and has recently undergone some technical updates. All current users are very satisfied with its performance.

WZ is equipped with a removable battery pack, a high RF power mode and a low RF power mode (saves

energy), a battery alarm, and built in receiver for duplex mode.

Despite its small front there is enough room for easy to use manual operation. Channel switching is located under the front panel on the side. Front panel is available in two types.

On Front type A, XLR microphone input, channel switches for transmitter and receiver. Variable audio levels for microphone & headphones, audio led bar, on/off switch, with 6 positions, a 3.5mm jack for headphones and an antenna connector. For extra strength, the antenna connector is part of the aluminum frame of the transmitter. Optional XLR 5 or XLR7 can be ordered for use with microphone/headset at the same time.

On Front type B, XLR microphone input, channel switches for transmitter and receiver. Variable audio levels for microphone & headphones, audio led bar, separate switches for each function. A 3.5mm jack for headphones and an antenna connector. For extra strength, the antenna connector is part of the aluminum frame of the transmitter. Optional XLR 5 or XLR7 can be ordered for use with microphone/headset at the same time.

For energy saving, WZ in OFF position is completely shut down; it does not use any power. Built in transmitter and receiver can be turned on and off separately to save power. Dynamic RF power for transmitter, output power is 2W maximum, 400mW in low power mode. Extra feature, dynamic power control, WZ measures the RF level of the return receiver and lowers the output level of the WZ when you are closer to WZ's receiver/return transmitter like the HF prints CLB200.



Every WZ is equipped with a led bar for audio and battery level readout. Transmitter has an adjustable microphone volume level and a 16 channel frequency switch. For its optional receiver there is an adjustable headphone volume level and a 16 channel frequency switch.

WZ is available for several frequency ranges in VHF, UHF on request, its receiver is available for 414-430MHz or 440-470MHz, VHF on request.

Operation time with a standard Li-on battery is 2 hours on high power transmitting level and up to 4 hours on low power level. When a higher capacity battery is used 3400mA/h an increase in operation time can be expected. Up to 3 hours on high transmitting level and up to 7 hours on low power level. If you switch between high and low power or use the dynamic auto adjust feature, an operation time from 3-7 hours is possible without changing the battery.

WZ's battery can be loaded internally or externally, during loading internally, WZ can continue to operate as usual.

WZ is sold with a standard battery, battery charger, carrying bag and antenna.

WZ1/2 Specifications (last version 01-01-2015)

General:	Model WZ-1	Front model type A.
	Model WZ-2	Front model Type B.
DC power	6.6 / 8.4 V	internal battery, removable
Operation 2200 mA/h battery	> 2 – 4 h	high / low power
	> 7 h	receiver (transmitter stand-by)
Operation 3400 mA/h battery	> 3 – 6 h	high / low power
	> 10 h	receiver (transmitter stand-by))
Battery led bar	6 led	measures battery voltage.
Audio led bar	7 led	20 dB audio level, led 7 = limit led

Transmitter

Number of channels	16	front adjustable
Frequency range	175 – 223 MHz	UHF on request
Switching range	> 20 MHz	optional 186 – 223 MHz -3dB
Channel select	BCD switch	
Antenna connector	TNC	
Audio connector(s)	XLR 3 female	optional XLR5 of XLR7 (male)
Enclosure	107 x 30 x 177 mm	
PTT, Only with front type B	optional with XLR7 (male)	

HF + audio

Output power	max. 2,2 Watt, low power +/- 400 mW	
Frequency deviation (standard)	50 kHz,	
Frequency deviation (semi broadband)	7,5 kHz, 10 kHz optional	
Input audio level	5 - 50 mV adjustable symmetrical	
Signal to noise microphone	5mV	> 80 dB
Range audio limiter (headroom)	> 16 dB	
Pre-emphases	50 us	(150 us semi broadband)
Distortion	0,2 % typical	
Audio frequency range (standard)	100 Hz – 15 kHz +/- 1 dB	50 Hz -3dB
Audio frequency range (semi broadband)	100 Hz – 10 kHz +/- 3 dB	
Option:	Phantom 48V	
Limiter	intern, headroom > 16 dB	typical 18 dB
HIDYN	intern, standard HD (equals Sennheiser)	

Receiver

Channels	16 front adjustable	
Frequency range	415 – 430 MHz, 440 - 470 MHz, optional VHF	
Switching range	15 MHz (415 – 430)	8 MHz other frequencies.
Sensitivity	< 0,5 uV	20 dB sinad Mute level 0,15uV
Channel select	BCD switch	
Volume adjust	Adjustable resistors	range 30 dB
Signal to noise level retour	> 45 dB, in combination with CLB200, unweight.	

Connections:

- Headphones Jack 3,5mm in case of XLR both output are in parallel.
- Microphone XLR 3 female (optional XLR 5 or XLR 7male with headphone output)
- Battery charger DC connector 3,5mm connected to charger
- PTT (optional) (push to talk) with Multi pin XLR, only available on WZ front model type B

WZ1/2 User in the Netherlands:

Omroep Flevoland	RTV Utrecht	Radio Veronica
RTV Oost	Radio 538	Several local stations with events
Omrop Fryslân	JDB audio	BNR
RTVNH	NOS	Dutchview
Omroep Zeeland	Ericsson NPO	Lux audio
L1	Showbizz	vierdaagse radio
Omroep Gelderland	Eurosound	KLM Open golf

Battery DC level versus Operation time



Operation shutdown @ 6,6 V DC Full battery = 8,4 V 2250 mAh 2,5h high power, 4,5h low power

3400 mAh 3,5h high power, 7h low power