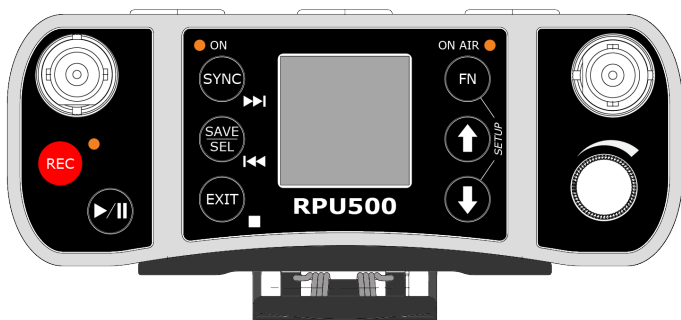


RPU500 is a full duplex device especially designed for Outside Broadcast reportage. It features in a very compact format a **1 watt ultra-wideband 170-960 MHz transmitter** and an intercom **receiver**.



Multi-BAND RF

Ultra-wideband VHF & UHF to find your frequency anywhere in the World.



4 ways talk-back

4 programmable buttons for talk back with remote audio routing (on additional AUX or thru Ethernet with Ember+)



Bluetooth 5 Low Energy

Monitor & control through USB-C/Bluetooth* (Wisycor Manager software)



Embedded Recorder

Audio recording on memory card (SD)



Audio recording on memory card (SD)*

OTHER FEATURES

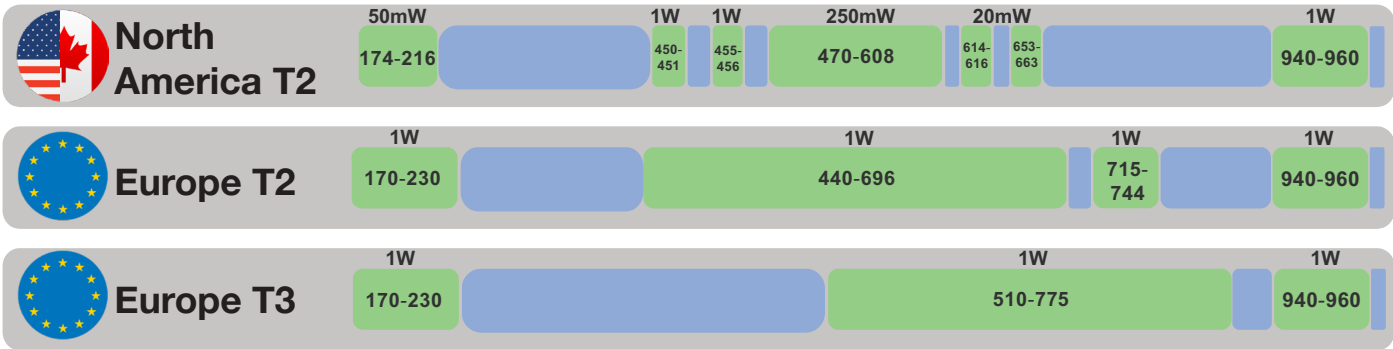
- High transmitter power output (up to 1W)
- Long battery-lifetime > 5 hours with standard battery pack RRC2040
 - i.e. to broadcast recorder interview along with live comment (AUX/MAIN mixed)
- Receiver can operate in 3 modes (selectable by menu):
 - As talkback Mobile (channel spacing 12,5k)
 - As talkback Mobile (channel spacing 50k)
 - As IFB (channel spacing 110k), with the possibility of embedded 3 audio sources on the same carrier*
- 1 MAIN audio input connector XLR balanced with 48V/12V phantom
- 2 audio outputs (waterproof jack 3.5mm): i.e. journalist/guest and 1 AUX audio shared input (waterproof jack 3.5mm)
- Transflective color display with high visibility in the sun
- Ergonomic and compact size



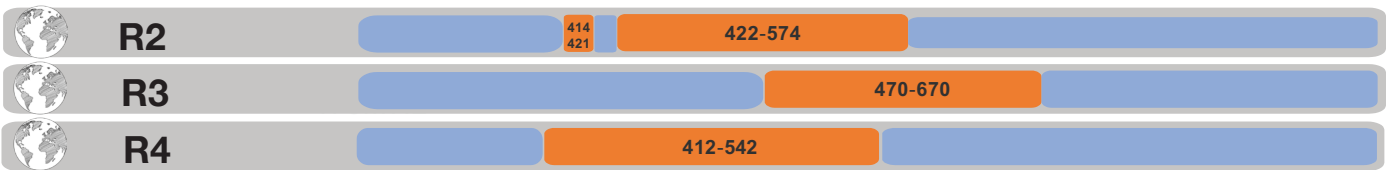
*Available soon

CONFIGURATIONS

TRANSMITTER RANGE and COUNTRY POWER PROFILE



RECEIVER RANGE



VARIANTS: RPU500-<Country>_<Tx Range>-<Rx Range>-<Rx Step>

ex. RPU500-EUX_T2-R2-RS2: Europe 1 Watt, TX: 170-230+440-696+715-744+940-960 MHz, RX: 414-421+422-574 MHz step 6.25kHz
RPU500-EUX_T3-R3: Europe 1 Watt, TX: 170-230+510-775+940-960 MHz, RX: 470-670 MHz standard step 5kHz
RPU500-EUX_T2-R4: Europe 1 Watt, TX: 170-230+440-696+715-744+940-960 MHz, RX: 412-542 MHz step 5kHz

NOTE:

When TX works in UHF, install the filter AFTxxx and set the transmitter's frequency at least 40 MHz above than receivers frequency.

On the below table the selectable range in MHz according to the filter installed on the antenna of transmitter:

RPU500-xxx_T2-R3:

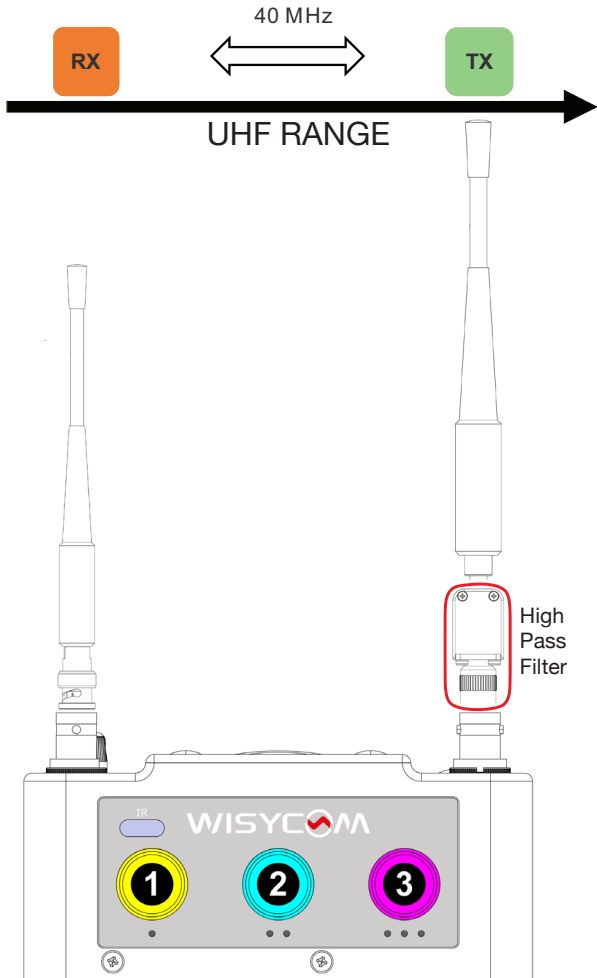
		Filter	
		NOT required	AFT-530
Range TX	170-230		535-696
			715-744
			940-960
Range RX	470-670		470-493

RPU500-xxx_T2-R2:

		Filter	
		NOT required	AFT-530
Range TX	170-230		535-696
			715-744
			940-960
Range RX	414-574		414-493

RPU500-xxx_T3-R3:

		Filter	
		NOT required	AFT-530
Range TX	170-230		535-775
			940-960
			940-960
Range RX	470-670		470-493



ACCESSORIES & RELATED



Item: PSP15V1A2-H

AC/DC Power Supply with Hirose 4-pin connector
Input: 90 ÷ 264 Vac
Output: 15V 1.2mA (18W) Supplied with EU/UK/USA/AU plug



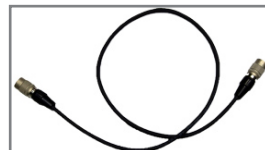
Item: CAUSBC1

USB Cable 1m
USB B - USB C Male Black
To monitor/control RPU500



Item: BCL500

Belt Clip RPU500



Item: CDC34HM

External power feeding cable,
hirose 4-pin male/hirose 4-pin male(50 cm)



Item: CNANT-TNC

FME-TNC Male black adapter
when the AFT filter is not installed



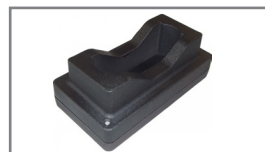
Item: LBP500

Standard Lithium Battery pack 10.80V /
3.35Ah / 36.20Wh



Item: AFT530/AFT580

High Pass Filter at 530/AFT580 MHz
to install between
transmission antenna (BFME connector)
and RPU500 Full Duplex TNC connector
(other frequency on request)



Item: LBC500

Mini Smart Battery Charger with external
power supply



Item: AWT500-xxx

1/2 Dipole antenna with TNC connector for
RPU500 transmitter VHF range

Item: AWF500-xxx

1/2 Dipole antenna with FME connector for
RPU500 transmitter UHF range



Item: CAL1x

Power Cord 2 m. black
CAL11: USA, NEMA 5-15P / IEC 60320 C5,
CAL12: Europe, SCHUKO / IEC 60320 C5
CAL13: UK, UK / IEC 60320 C5



Item: AWB500-Rxxx

1/4 Dipole antenna with BNC connector
for RPU500 receiver

Antennas for transmitter:

	Code	Band MHz	T2	T3
VHF	AWT500-180	170-188	✓	✓
	AWT500-197	188-206	✓	✓
	AWT500-213	206-220	✓	✓
	AWT500-229	220-238	✓	✓
	AWT500-229	220-238	✓	✓
UHF	AWF500-455	440-470	NO Full Duplex	✓
	AWF500-494	470-517	✓	✓
	AWF500-540	515-563	✓	✓
	AWF500-590	562-609	✓	✓
	AWF500-625	609-645	✓	✓
	AWF500-670	645-696	✓	✓
	AWF500-720	696-744	✓	✓
	AWF500-770	744-798	✓	✓
	AWF500-950	940-960	✓	✓
	AWF500-950	940-960	✓	✓

*FME/TNC adapter to order separately (code: CNANT-TNC)
when filter (AFT-xxx) is not installed

Antennas for receiver:

Code	Band MHz	R2	R3	R4
AWB500-R440	410-470	✓		✓
AWB500-R500	450-550			✓
AWB500-R520	470-574	✓	✓	
AWB500-R620	570-670		✓	

CONFORMITY



TECHNICAL SPECIFICATIONS

TRANSMITTER RF	Frequency ranges	from 170 to 960 MHz, depends on the variants (see Configurations) NOTE: When TX works in UHF, install the filter AFTxxx and set the transmitter's frequency about 40 MHz above than receivers frequency ex. TX freq. ≥ 530 MHz and RX: 470-490 MHz
	Switchable channels	2400 managed in 40 groups of 60 frequencies completely user customizable
	Frequencies step	5 kHz minimum step
	Frequency error	$< \pm 2.5$ ppm, in the rated temperature range
	RF Power	switchable Low / Medium / High, typ. 100mW / 300mW / 1W (*) note: in some countries high power can be disabled, for local norm!
	Antenna connector	TNC type female (BNC for RPU500-FD1 version), 50 ohm
	Modulation	FM mono, wideband or narrowband IFB (SW selectable)
	Nominal deviation	± 40 kHz (wideband), ± 25 kHz (narrowband)
	Peak deviation	± 56 kHz (wideband), ± 35 kHz (narrowband)
	Spurious emissions	< 2 nW (typical = 0.1 pW)
RECEIVER RF	Frequency ranges	from 412 to 670 MHz, depends on the variants (see Configurations)
	Switchable channels	2400 managed in 40 groups of 60 frequencies completely user customizable
	Frequency step	5 kHz step (default), other on request options: RS2 = 6.25 kHz, RS3 = 10 kHz, RS4 = 12.5 kHz, RS5 = 20 kHz, RS6 = 25 kHz, RS7 = 125 kHz
	Frequency error	$< \pm 2.5$ ppm, in the rated temperature range
	Antenna connector	BNC type female, 50 ohm
	Modulation	FM intercom and IFB (SW selectable)
AUDIO	Peak deviation	± 35 kHz (IFB narrowband), ± 8.5 kHz (Talkback 50KHz), ± 4 kHz (Talkback 12,5KHz)
	Noise Reduction system	ENS - Wisycom Extended-Sound Optimized (other on request)
	AF bandwidth for TX	SW switchable: 50 Hz \div 20 KHz (1dB) (ENS-Wideband) 50 Hz \div 15 KHz (1dB) (ENS-Narrowband)
	AF bandwidth for RX	SW switchable (other on request): - NB : 40 Hz \div 15 KHz (-1dB), IFB Narrowband 110KHz channel spacing, compatible with MTK982/MTK952A (set Receiver RPU500 NB) & MTP60/61 (ENS-NB compander) - ENS-50K : 300 Hz \div 6 KHz (-1dB), Talkback 50KHz channel spacing, compatible with MTK982/MTK952A (set Receiver RPU500 50K) - ENS-12K5 : 300 Hz \div 3 KHz (-1dB), Talkback 12,5KHz channel spacing, compatible with MTK982/MTK952A (set Receiver RPU500 12K5) - COM-12K5 : 300 Hz \div 3 KHz (-1dB), Talkback 12,5KHz channel spacing, compatible with Communication TX (no compander, 750 μ s de-emphasis) as Motorola CDM1250™
	Audio connectors	1 x XLR3-F type (MIC/Line level) for audio input 1 x Jack 3.5mm for AUX audio input/output (sw selectable) 1 x Jack 3.5mm for audio output
OTHERS	Managing interface	USB C, Bluetooth 5(*)
	Command buttons & signaling	Pgm, Talkback 1, Talkback 2, Talkback 3
	Display	Transflective color display with high visibility in the sun
	Power supply	standard battery pack RRC2040 External = 10 \div 18 Vdc (10W max) with Hirose 4-pin connector
	Power consumption	TRANSMITTER: 440mA @12V / 5.28W in VHF range 450 \div 530 mA @12V in UHF range depending of the frequency and temperature (display off, 1 Watt) RECEIVER: 70 mA @12V / 0.84W
	Battery life	> 5 h (power profile & IIP3 trade off) with Lithium RRC2040
	Temperature range	$-10 \div +55$ °C
	Dimensions	114mm x 118mm x 55mm (H x W x D) with beltclip
	Weight	800g (battery included)

(*)Bluetooth interface disabled for Mexico, Japan and South Korea.