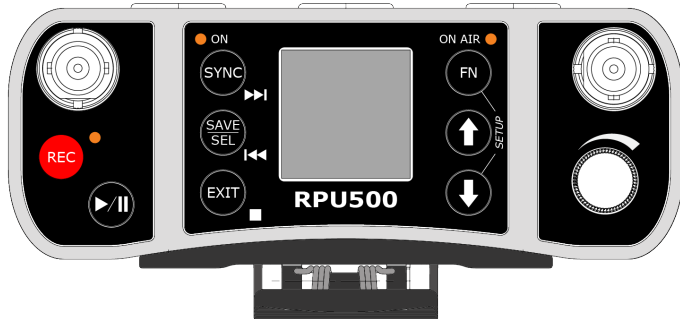


RPU500 is a full duplex device especially designed for Outside Broadcast reportage. It features in a very compact format a **1 watt ultra-wideband 170-960 MHz transmitter** and an intercom **438-638 MHz receiver**.



**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
Long Range**

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



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



CONFIGURATIONS

FREQUENCY RANGE

FD2 TX band: 170-230 MHz + 440-696 MHz + 715-744 MHz + 940-960 MHz
 RX band: 438-638 MHz
 other on request

ACCESSORIES & RELATED



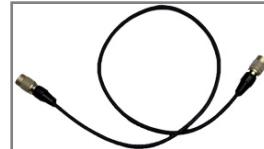
Item: LBP500
 Standard Lithium Battery pack 10.80V / 3.35Ah / 36.20Wh



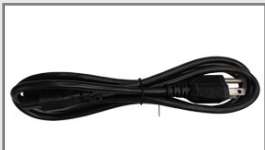
Item: CAUSBC1
 USB Cable 1m
 USB B - USB C Male Black
 To monitor/control/power RPU500



Item: LBC500
 Mini Smart Battery Charger with external power supply



Item: CDC34HM
 External power feeding cable,
 Hirose 4-pin male/Hirose 4-pin male(50 cm)



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: PSP910-H
 AC/DC Power Supply, Switch Mode with Hirose 4 pin connector (to use one "desktop" apparatus alone)
 Input: 100 ÷ 240V ac
 Output: 12V@700mA, 8W, Plug type: EU



Item: BCL500
 Belt Clip RPU500



Item: AFB580/AFT580
 High Pass Filter at 580 MHz
 to install between transmission antenna (BFME connector) and RPU500 Full Duplex BNC/TNC connector (other frequency on request)



Item: AWT500-xxx
 1/2 Dipole antenna with TNC connector:

- AWT500-180: band 170-188 Mhz
- AWT500-197: band 188-206 Mhz
- AWT500-213: band 206-220 Mhz
- AWT500-229: band 220-238 Mhz
- AWT500-455: band 440-470 Mhz
- AWT500-494: band 470-517 Mhz
- AWT500-540: band 515-563 Mhz
- AWT500-590: band 562-609 Mhz
- AWT500-625: band 609-645 Mhz
- AWT500-670: band 645-696 Mhz
- AWT500-730: band 715-744 Mhz
- AWT500-950: band 940-960 Mhz



Item: AWB500-Rxxx
 1/4 Dipole antenna with BNC connector for RPU500 receiver:

- AWB500-R485: band 438-520 Mhz
- AWB500-R560: band 520-600 Mhz

CONFORMITY



TECHNICAL SPECIFICATIONS

TRANSMITTER RF	Frequency ranges	FD2 band (MHz): 170-230 MHz + 440-696 MHz + 715-744 MHz + 940-960 MHz, other on request NOTE: When TX works in UHF, install the filter AFx580 and set the transmitter's frequency 40 MHz above than receivers frequency ex. TX freq. \geq 580 MHz and RX: 438-540 MHz
	Switchable channels	2400 managed in 40 groups of 60 frequencies completely user customizable
	Frequencies	5 kHz minimum step (easily PC reprogrammed with USB C)
	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	FD2 band (MHz): 438-638 MHz (other on request)
	Switchable channels	60 frequencies completely user customizable
	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), $\pm 8,5$ 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): ENS-NB: 40 Hz \div 15 KHz (1dB) (IFB Narrowband 110KHz channel spacing) COM-ENS-50K: 300 Hz \div 6 KHz (1dB) (Talkback 50Khz channel spacing) COM-ENS-12K5: 300 Hz \div 3 KHz (1dB) (Talkback 12,5Khz channel spacing)
	Audio connectors	1 x XLR3-F type (MIC/Line level) for audio input 1 x Jack 3.5mm for audio input/output (sw selectable) 1 x Jack 3.5mm for audio output
OTHERS	Managing interface	USB C, Bluetooth 5 (long range) or optional UPKmini Programming
	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	73,1mm x 64,5mm x 21,6mm (H x W x D) with clip
Weight	820g (battery included)	