



MTP60 USER MANUAL

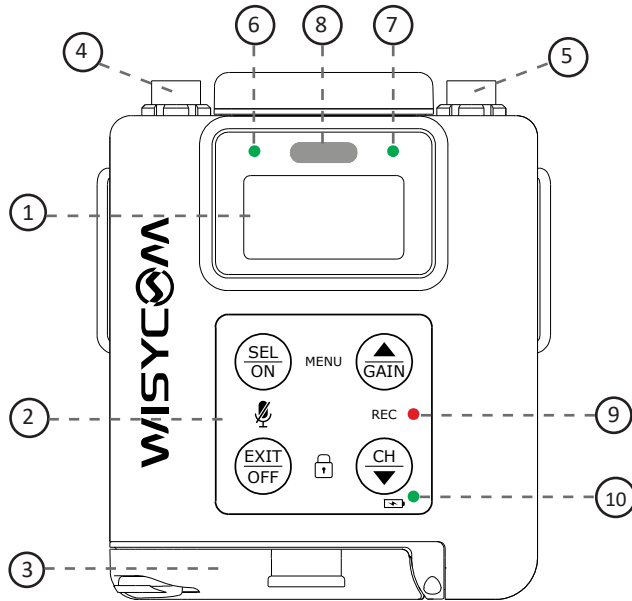


MULTI-BAND WIRELESS
PROFESSIONAL POCKET
TRANSMITTER

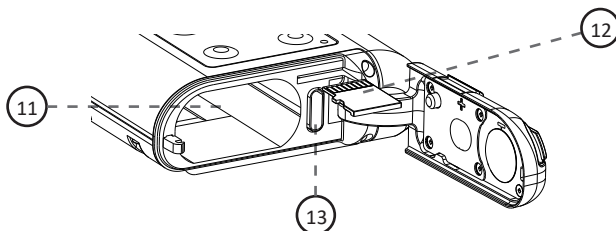
Rev.03 (ref. FW 1.6.0)

Date: 09 June 2022

PRODUCT OVERVIEW



- | | |
|-----------------------------------|---|
| 1. OLED white display (128x64 px) | 8. IrDa (infared) interface |
| 2. 4 setup buttons | 9. LED3 for recording |
| 3. battery compartment latch | 10. LED4 for battery recharging |
| 4. MIC connector (LEMO 3pin) | 11. battery compartment |
| 5. Antenna connector (LEMO 1pin) | 12. Micro-SD card slot |
| 6. LED1 for audio | 13. USB-C connector (power and control) |
| 7. LED2 for RF and battery | |



LED INDICATIONS

- LED 1 - audio indication
 - Green unit is modulating regularly
 - Red audio is peaking
 - OFF (grey) audio is muted
- LED 2 - RF and battery indication
 - Red when transmission is OFF
 - Green when transmission is ON
 - Red slow blink when battery is < 25%
 - Red fast blink when battery is < 12%
 - OFF (grey) when MTP60 is OFF
- LED 3 - recording
 - OFF (grey) when recording is OFF
 - Red when recording is active
- LED 4 - recharging status
 - OFF (grey) when no recharging
 - Orange blink when is recharging
 - Green when recharge is completed

SETUP CONTROL

Use the 4 front buttons to navigate the menu and quickly setup:

SEL/ON:

- Hold to switch ON the device.
- Push together with GAIN/UP to enter the main MENU.
- Long press for RF activation
- When in menu single push to save and confirm selections.

UP/GAIN:

- Push to scroll up while in the menu
- Short press for quickly access to GAIN setup (from Home Screen)

GAIN + CH:

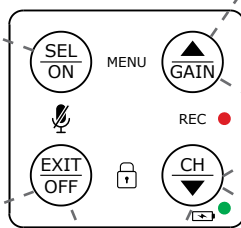
To enter on RECORDING setup

EXIT/OFF:

- Long press to switch the unit OFF
- Short press to step back into menu
- Long press to switch ON the transmitter without RF output enabled

EXIT + CH:

To lock/unlock front panel



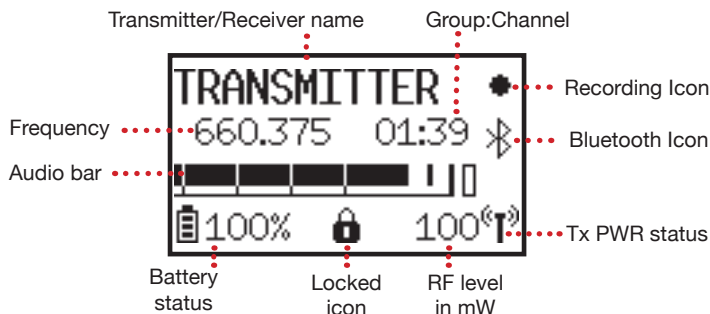
POWERING UP

Push SEL/ON button for few seconds to switch on MTP60 and activate wireless transmission.(RF Power has to be previously enabled).

Push EXIT/OFF button for few second to switch on MTP60 without the activation of wireless transmission.

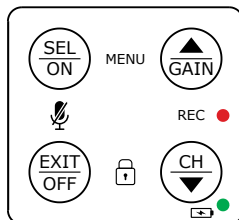
STATUS menu

After the power up phase, the Status menu is showed where major info are displayed:



From the status menu it is possible to access the main functions of the transmitter thanks to the quick selection keys:

- **GAIN** to change the audio gain level
- **CH** to change group / channel / frequency
- **UP+DOWN (REC)** to start / stop recording or JAM external Timecode
- **EXIT+DOWN (LOCK)** to lock / unlock the display
- **SEL+EXIT (MUTE)** to mute the audio



SETUP menu

Push **SEL+UP** buttons to enter on the Setup menu.

Using **UP/DOWN** button all menus can be accessed in sequence and change the parameters value. Each change is immediately set on MTP60, it is not necessary to confirm the modification. Push **EXIT** button to exit from menu.

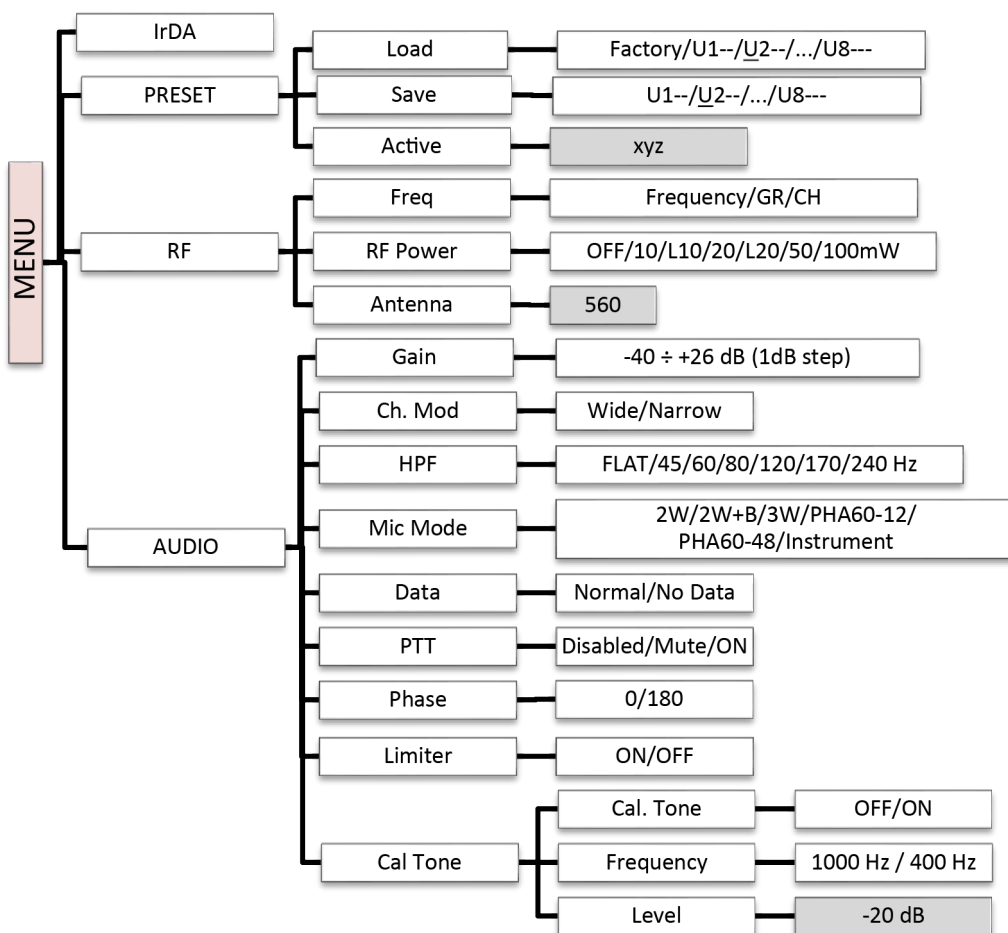
If no button is pressed for **60 seconds**, the display is locked automatically to prevent accidental changes and the locked icon appears at the bottom of the display (this setting can be changed via the Settings> Display> Auto-lock menu).

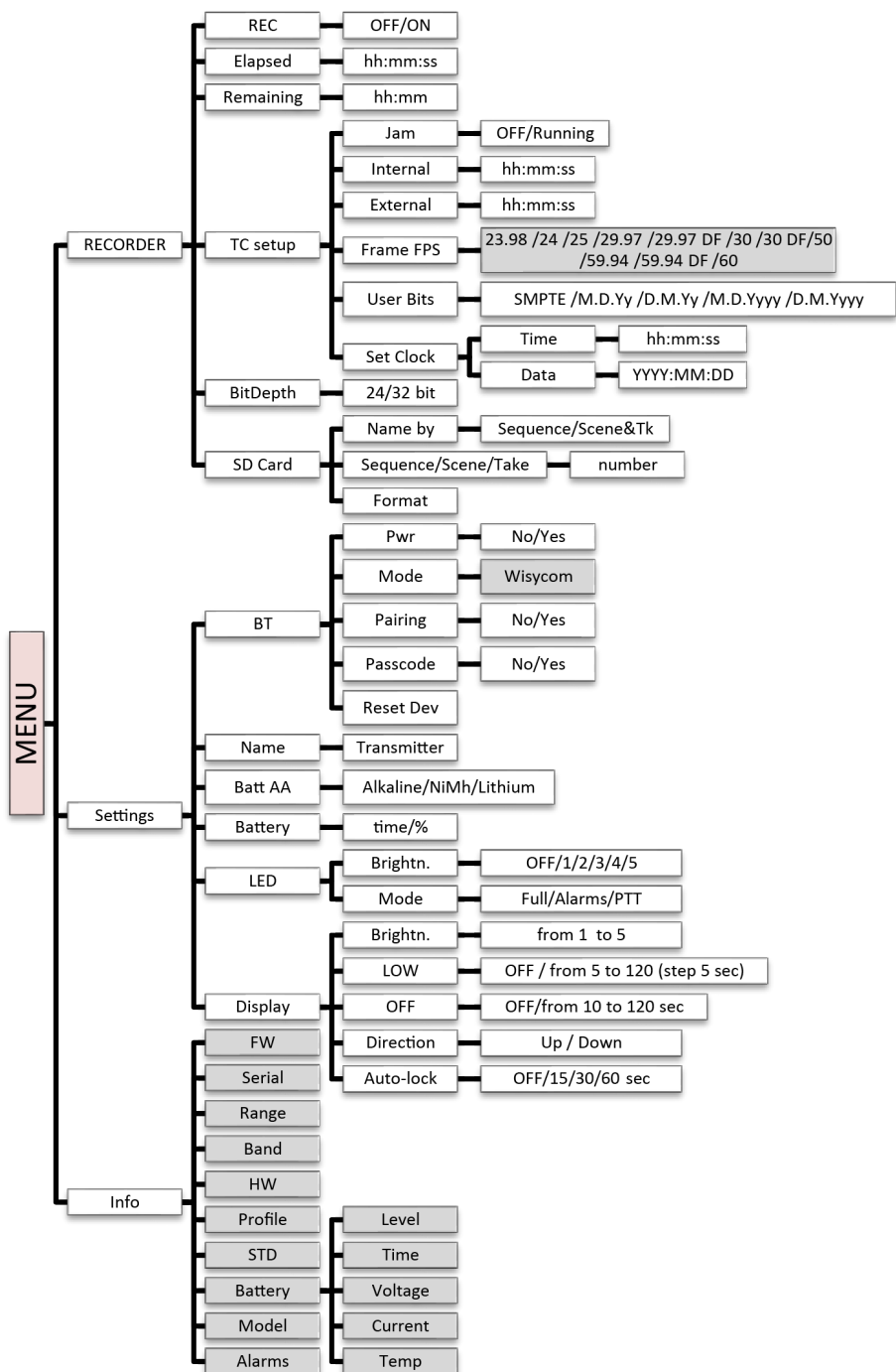
To unlock the display push EXIT and DOWN buttons together.

QUICK SETUP

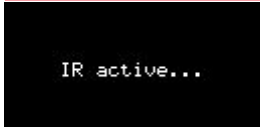
- connect the microphone to the LEMO 3pin connector
- power on the MTP60
- configure battery type (Settings>Battery menu). Lithium battery (code MPRLBP) is automatically detected by the MTP60
- enable IrDA interface and synchronize with Wisycom receiver
- connect the correct antenna (see code on RF > Antenna menu)
- set Mic Mode (Audio > Mic Mode menu)
- set the gain, with the maximum input signal, avoiding the peak on the audio bar. TRY TO SETUP TO HAVE A MAX PEAK HOLD BAR CLOSE TO -6dB.
- configure power level (RF > RF Power)
- activate recording (REC)

OPERATING MENU





IrDA



IR active...

Enable the IrDa interface to do a synchronization to Wisycom receiver.

During the synchronization process the receiver passes to the MTP60 the following parameters:

- tuning frequency, group and channel
- type of compander
- name of the receiver

MTP60 sets these parameters accordingly and passes to the receiver the modulation type (WB/NB). If some parameter is not compatible between MTP60 and receiver, a warning appears on receiver display.

PRESET menu

MTP60 can recall configuration presets:

- “Factory” recalls the Wisycom factory configuration.
- “USER” (U1, U2..., U8) recalls the configuration saved by menu

RF menu

RF

Freq	...
RF power	OFF
Antenna	507

Freq to change of Group/Channel/Frequency

Fr: 470.000
Gr: 04 GROUP 04
Ch: 02 Max 100mW

Check the maximum power level that can be selected based on the power profile configured in your transmitter*

The MTP60 has 40 groups of 60 channels each. Normally this is too much for wireless microphones applications.

Connecting with computer with WISYCOM MANAGER software, it is possible to **hide** single channels or even complete groups of channels: once hidden those items are not shown anymore on the channels or groups selection. To show channels or groups hidden use again the WISYCOM MANAGER software.

Using this software it is also possible to **lock** channels or groups. When a channel is locked, it is not possible to change the frequency from the display menu of the transmitter. Locking a group means that all channels are locked. When a channel or a group are locked, at the left of the frequency will appear a lock icon to indicate that the frequency is not editable.

RF Power to set power level (10, L10, 20, L20, 50, 100 mW, OFF to disable transmission). LED2 becomes fixed red when the transmitter is tuned and RF Power is set to OFF, becomes fixed green when the transmitter is tuned and RF power isn't OFF. Increasing the power level increases the coverage but also increases the power consumption and in small environments it can cause intermodulation problems. Use L10 or L20 levels to set 10 mW or 20 mW of power

**The transmitter is factory programmed with a power profile capable of complying with the regulations in force in the country of sale of the MTP60. this profile limits the selectable frequencies and the maximum power level allowed.*

and activate Linear technology.

Linear is suggested for situations where spectrum is limited and frequencies need to be placed in close proximity. This allows to operate EQUALLY SPACES frequency (placed every 400kHz (Wide-band) or 200kHz (Narrowband | High Density)

Note that power consumption of L10 and L20 levels are comparable to the consumption of the level 100 mW.

Antenna to check what model of antenna connect. The model is reported on the label near the antenna cap (e.g. 507). This number is approx. the frequency of the middle of the band.

Label	Band MHz
507	470-547
590	547-663
552	510-595
646	595-698
710	663-760
796	760-832
808	806-810
950	940-960
1K1	960-1160

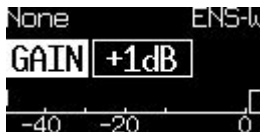


NOTE: with increasing frequency the length of the antenna decreases (therefore use short antenna for high frequencies, long antenna for low frequencies)

AUDIO

Gain to set the sensitivity of the audio input.

You can access this menu directly from the status menu by pressing the UP / GAIN button.



To help proper audio gain setting, an audio bar is supplied (with maximum peak indicator) indicating the headroom to audio peak (0 dB , nominal deviation 40KHz).

Set the gain with the maximum input signal, avoiding the peak on the audio bar.

TRY TO SETUP TO HAVE A MAX PEAK HOLD BAR CLOSE TO -6dB

Gain settings depend on the Mic Mode:

- from -40 to +26dB with 2Wire, 3 Wire, PHA60-12 or Instrument
- from -24 to +26dB with 2Wire+bias or PHA60-48

Ch. Mod. menu defines the type of modulation between Narrowband or Wideband. This reduces or expands the spectrum occupation of the MTP60 Transmitter.

When the transmitter is set to WideBand the audio bandwidth is limited to 20 KHz and the peak deviation is set to ± 56 kHz so that the occupied bandwidth is approx. 150 KHz.

When the transmitter is set to NarrowBand the audio bandwidth is limited to 17 KHz and the peak deviation is set to ± 35 kHz so that the occupied bandwidth is approx. 100 KHz.

Switching to Narrowband provides an additional 3dB of RF Sensitivity on the receiver.

Note: make sure to set the receiver channel to the same modulation setting of the transmitter.
Ex. Wideband or Narrowband.

HPF menu to set High Pass Filter of the audio signal. Different filters are available (FLAt means no filter)

Mic Mode menu set the audio mic connection.

Following Mic mode can be setup:

- 2W (2 wires): (PTT is possible) for external audio input
- 2W+B (2 wires + bias): (PTT is possible) for most 2 wires MIC
- 3W (3 wires): (no PTT) for most 3 wires MIC
- PHA60-12: to connect a wired mic thru a PHA60/PHA60-D (12V)
- PHA60-48: to connect a wired mic thru a PHA60-D (48V)
- Instrument: high impedance input

Tone menu set to normal to enable Wisyscom Tone Squelch (@33kHz). The tone is used by the receiver to to send to recognized Wisyscom transmitter is active. In the same tone the transmitter sends to the receiver the battery lifetime, the compander and the ch. modulation too. Set tone to No Data if you don't want to send these additional information.

PTT menu allows to configure the behaviour of PTT accessory when it is pushed.

If PTT is set to Mute, the audio is muted when the Push to Talk button is pushed.

If PTT is set to ON, Wisyscom receiver is able to do an audio routing according to Tone squelch matrix set on the receiver (see receiver user manual for more details).

Limiter to enable or disable the limiter function. Whem limiter is anable and the audio input level is too high (level on the audio bar arrives to the peak) the transmitter adapt acutomatically the audio level to avoid distorsion.

Cal. tone to activate the calibration tone.

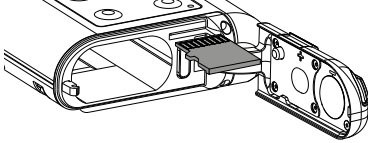
The CALIBRATION TONE function generates a tone at specific frequecies (400Hz or 1000 Hz) at -20dB level on the audio input.

Calibration tone Example – DPA 40xx would typically use 2W+B for 2 wire plus bias giving the 5V required for the mic. A good starting place for this could be -6dB for starting with an interview. This setting allows for a range from -40dB to +26dB

Example – Instrument typically for use with instruments that have a higher output level. Suggested starting gain is -23dB.

RECORDING

Open the battery door and insert the SD card into the card slot



The MTP60 records on SD card exFAT formatted.

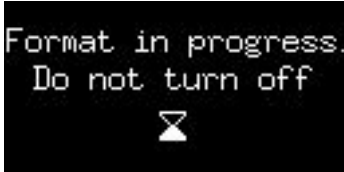
During start up the MTP60 checks the SD card status.

If it is not formatted or it is not exFAT formatted, it asks for formatting.



Press "SEL/ON" to format the card and wait some seconds until the process is completed.

DO NOT turn off the transmitter during formatting!



If the card is detected correctly, the card icon appears at the top right of the MAIN menu



..... SD card Icon

It is recommended to use U3 or C10 cards only.

To start recording enter on the Recorder menu and set REC to ON or use the recording short cut pushing UP and DOWN arrows together and press START.

If during recording accidentally the battery door is open or the battery dies, the transmitter automatically save the file up to 15 seconds prior the event. if the transmitter restarted with the same SD card in, the recording file is completely recovered without any data loss.

Recording short cut:

Push UP and DOWN arrows together to enter on the quick RECORDING menu.



Use arrows to move the cursor between START/STOP and JAM function.

Push SEL button to activate the function.

The MTP60 records 32-bit float RF64 WAV (over 4 GB) files at 48 kHz sampling rates.

Bit Depth can be change to 24 bit using "Recorder > BitDepth" menu.

The file name format is "Transmitter name-<sequential number>.WAV or Transmitter name-T<trace number>S<sequence number>.WAV according to the Name setting on Recorder>SD Card menu.

All files are recorded in a folder with the transmitter name.

example:

Transmitter name: PAUL LEE

Recorder trace 4 is saved in the folder PAUL LEE with the name PAUL LEE-0004.WAV

Jamming Timecode

The MTP60 accepts timecode from external LTC sources. The timecode value and frame rate are taken from incoming LTC source. If timecode has not been jammed, the MTP60 uses Internal time code that can be set manually using the "Recorder > TC Setup > Set Clock" menu.

Jammed timecode values are held for up to six hours after powering off (with batteries inside), and up to one hour after the battery has been removed. This allows for time to swap batteries without having to re-jam timecode.

To jam timecode:

- connect a valid LTC source to the LEMO audio connector of MTP60
- enter on the Recorder>TC setup menu and set Jam to ON or use the recording short cut pushing UP and DOWN arrows together and active JAM function.

Pinout for TC audio cable:

Audio cable with LEMO 3pin to Stereo jack connector:

- LEMO pin 3 (AF) to the Left (tip) of Stereo jack
- LEMO pin 1 (GND) to the Ground (sleeve) of Stereo jack

Audio cable with LEMO 3pin to BNC connector:

- LEMO pin 3 (AF) to the BNC center pin
- LEMO pin 1 (GND) to the BNC shell

SETTINGS

Use this menu to

- power on or off the Bluetooth interface
- set type of battery used and
- configure LEDs behavior
- configure display behavior

INFO

Use this menu to check information about the transmitter (serial number, frequency range, firmware and hardware version) and its status (voltage, temperature and alarms).

BATTERIES

MTP60 works with 2 x AA battery (Alkaline, Lithium, NiMH) and lithium battery pack (code MPRLBP, 5.55 Wh).

When using AA batteries, select correct type on Setting>Bat. AA menu, while Lithium battery pack is recognized automatically.

Battery status can be checked on internal OLED display or looking the LED2 status on front.

Through the “Settings> Battery” menu, it is possible to set whether to display the battery status as a percentage or as an estimate of the remaining time.

BATTERY SUBSTITUTION

Open battery door and insert batteries following polarity indicated.

Attention: always replace both the batteries, do not mix batteries with different chemistries or types.

AUDIO CONNECTOR



3 PIN LEMO CONNECTOR (use FVB.00.003.NLN on Mic)

Mic Mode	Pinout	Impedance
2W (2 Wire)	1 = GND 3 = AF	7 KΩ
2W+B (2 Wire + Bias)	1 = GND 3 = AF + 5,5V	3,9 KΩ
3W (3 Wire)	1 = GND 2 = 5,5 3 = AF	7 KΩ
PHA60-12V	1 = GND 2 = 3.1V 3 = AF	7 KΩ
PHA60-48V	1 = GND 2 = 3.1V 3 = AF + 5,5V	3,9 KΩ
Instrument (high impedance input)	1 = GND 3 = AF	1 MΩ

TECHNICAL SPECIFICATION

Frequency range	from 470 to 1075 Mhz, depends on the country (see Configurations)
Switchable channels	2400 managed in 40 groups of 60 frequencies completely user programmable
Switching-window	Up to 362 MHz, depending on band (see Configurations)
Frequencies	Quartz PLL frequency synthesizer circuit (5 kHz step)
Frequency error	±2.5 ppm, in the rated temperature range
RF Power	10mW/ L10 W/ 20 mW/ L20 mW / 50 mW /100 mW
Antenna connector	LEMO-F 1 pin
Modulation	Wideband and Narrow-band with FPGA based digital signal processing
Nominal deviation	±40 kHz Wideband / ±25 kHz Narrowband
Peak deviation	±56 kHz Wideband / ±35 kHz Narrowband
Spurious emissions	< 2 nW
Telemetry feature	TX transmits also a digitally modulated sub-carrier, suitable for: <ul style="list-style-type: none"> • tone-squelch operating • remote battery monitoring • optional PTT (push to talk) operation
Noise Reduction system	ENS - Wisycom ultra-high performance compander
AF bandwidth	Audio frequency response (dBa): <ul style="list-style-type: none"> • 45 Hz ÷ 17 KHz (3dB) in NarrowBand mode (NB) • 45 Hz ÷ 20 KHz (3dB) in WideBand mode (WB)
Distortion	< 0.3 % (0.15 % typ.)
SND/D ratio (Analogue)	typ. 115 dB (A)rms with 40 kHz deviation; typ. 121 dB (A)rms with 56 kHz deviation Wideband typ. 115 dB (A)rms with 25 kHz deviation; typ. 121 dB (A)rms with 35 kHz deviation Narrowband
Audio input connector	LEMO 3pin
Audio input level	from -40 dBu (12mV RMS) to 26 dBu (15.5 V RMS) adjustable in 1 dB steps
Max input level	+26 dBu (15.5 V) at clipping, +20 dBu (7.75 V) at nominal level
Storage media	micro SD memory card (.wav files - BWF)
Time code	Linear Timecode decoding
Bit rate	24 bit / 32 bit
Sampling rate	48 kHz
Managing interface	Bluetooth 5 long range, USB-C, IrDA
LED	2 RGB LEDs (red, green and blue) for audio, RF and battery status. 1 LED for recording, 1 LED for battery charger
Battery level indication	percentage or minute/second
PTT function	Pin 3 of AF connector can be controlled via an external PTT button
Display	High contrast OLED white display (128 x 64 pixels)
Power supply	2 x AA battery (alkaline, NiMH or lithium) or dedicated lithium batter pack (MPRLBP)
Power consumption	250mA@ 3V average (display off, 100mW power)
Battery life	approx. 10 hours @ 10mW with Alkaline batteries
Temperature range	-10 ÷ +55 °C
Dimensions	75,7mm x 61,4mm x 19,4mm (HxWxD) without clip
Weight	Approx. 140 g. without batteries (183 g. with lithium batt.)

CONFIGURATION

MTP60-<Contry range>

Country range:

EU: 470-832 MHz, Max power 50mW

EUX: 470-832 MHz, Max power 100mW

UK1: 470-663 MHz, Max power 100mW + 960-1075 MHz, Max power 50mW

UK2: 510-698 MHz, Max power 100mW + 960-1075 MHz, Max power 50mW

US*: 470-698 MHz,Max power 100mW+614-663 MHz,Max power 20mW+940-960 MHz,Max power 100mW

CA: 470-608 MHz,Max power 100mW+614-663 MHz,Max power 20mW+940-960 MHz,Max powe 100mW

KR: 470-663 MHz, Max power 100mW + 925-937,5 MHz, Max power 10mW

JP: 660-714 MHz & 806-810 MHz Max power 10mW+1240-1260 MHz,Max power 50mW

**Simultaneous recording and wireless transmission is not available on transmitters sold in the USA*

ANTENNA RANGE & CONFIGURATION

Ant Label	Code	Band MHz
507	AWF30-B1-507	470-547
590	AWF30-B1-590	547-663
552	AWF30-B3-552	510-595
646	AWF30-B3-646	595-698
710	AWF30-710	663-760
796	AWF30S-796	760-832
808	AWF30-BP-808	806-810
950	AWF30-B8-950	940-960
1k1	AWF30-B6-1K1	960-1160

MTP60 is supplied with

- 2 AA Alkaline batteries
- 1 wire belt clip (BCLW60)
- antenna kit: according to the configuration of MTP60 the following kit antennas are supplied:

MTP60-US and MTP60-CA

AWF30-B1-507 (470-548 Mhz)

AWF30-B1-590 (548-663 Mhz)

AWF30-B8-950 (940-960 Mhz)

MTP60-UK1

AWF30-B1-507 (470-548 Mhz)

AWF30-B1-590 (548-663 Mhz)

AWF30-B9-1K1 (960-1160 Mhz)

MTP60-KR

AWF30-B1-507 (470-548 Mhz)

AWF30-B1-590 (548-663 Mhz)

AWF30-B8-950 (940-960 Mhz)

MTP60-UK2

AWF30-B3-552 (510-595 Mhz)

AWF30-B3-646 (595-698 Mhz)

AWF30-B9-1K1 (960-1160 Mhz)

MTP60-EU and MTP60-EUX

AWF30-B1-507 (470-548 Mhz)

AWF30-B1-590 (548-663 Mhz)

AWF30-710 (663-760 Mhz)

AWF30S-796 (760-832 Mhz) soft

MTP60-JP

AWF30-710 (660-760 Mhz)

AWF30-BP-808 (806-810 Mhz)

AWF30-B9-1250 (1240-1260 Mhz)

MANUFACTURER DECLARATIONS

In compliance with the following requirements: RoHS Directive (2002/95/EC)



WEEE Directive (2002/96/EC)

Please dispose of the diversity transmitter at the end of its operational lifetime by taking it to your local collection point or recycling center for such equipment



Battery Directive (2006/66/EC)

The supplier batteries or rechargeable batteries can be recycled. Please dispose of them as special waste or return them to your specialist dealer. In order to protect the environment, only dispose of exhausted batteries.



ITALY ONLY

Obblighi di informazione agli utilizzatori

ai sensi dell'art. 13 del Decreto Legislativo 25 luglio 2005, n. 151 "Attuazione delle Direttive 2002/95/CE, 2002/96/CE e 2003/108/CE, relative alla riduzione dell'uso di sostanze pericolose nelle apparecchiature elettriche ed elettroniche, nonché allo smaltimento dei rifiuti"

Smaltimento di apparecchiature elettriche ed elettroniche di tipo professionale



Il simbolo del cassonetto barrato riportato sull'apparecchiatura o sulla sua confezione indica che il prodotto alla fine della propria vita utile deve essere raccolto separatamente dagli altri rifiuti.

La raccolta differenziata della presente apparecchiatura giunta a fine vita è organizzata e gestita dal produttore. L'utente che vorrà disfarsi della presente apparecchiatura dovrà quindi contattare il produttore e seguire il sistema che questo ha adottato per consentire la raccolta separata dell'apparecchiatura giunta a fine vita.

L'adeguata raccolta differenziata per l'avvio successivo dell'apparecchiatura dismessa al riciclaggio, al trattamento e allo smaltimento ambientale compatibile contribuisce ad evitare possibili effetti negativi sull'ambiente e sulla salute e favorisce il re-impiego e/o riciclo dei materiali di cui è composta l'apparecchiatura.

Lo smaltimento abusivo del prodotto da parte del detentore comporta l'applicazione delle sanzioni amministrative previste dalla normativa vigente.

Smaltimento batterie usate



Questo prodotto può contenere batterie. Questo simbolo apposto sulle batterie significa che non possono essere smaltite insieme a normali rifiuti domestici, bensì devono essere depositate negli appositi punti di raccolta delle batterie.

Iscrizione al Registro A.E.E. n. IT09100000006319



Statements regarding FCC and Industry Canada

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:

(1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND

(2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION.

WARNING: Wisycom srl. is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. such modifications could void the user's authority to operate the equipment.

The FCC and IC identifier is visible in the display when the device is switched on and it is also available by accessing the Info> STD submenus.

EN

This device complies with Industry Canada license-exempt RSS-123 and RSS-210 standard. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

This radio transmitter **IC: 11967A-MTP60** has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

FR

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence RSS-123 et RSS-210. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Le présent émetteur radio **IC: 11967A-MTP60** a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

Antenna types (50 Ohm impedance, max gain 2.1dBi)

AWF30-B1-507: band 470 - 547 MHz

AWF30-B1-590: band 547 - 663 MHz

AWF30-B8-950: band 940 - 960 MHz

This equipment complies has been evaluated for and shown compliant with the FCC and ISED RF Exposure limits. The unit of measurement for RF exposure is Specific Absorption Rate (SAR). The FCC SAR limits for is 1.6W/Kg per 1g of tissue

The maximum SAR levels tested has been shown to be 1.2 W/kg at head with 0mm of separation distance from the body.

This device operates on a no-interference, no-protection basis. Should the user seek to obtain protection from other radio services operating in the same TV bands, a radio license is required. For further details, consult Innovation, Science and Economic development Canada's Client Procedures Circular CPC-2-1-28, **Voluntary Licensing of License-Exempt Wireless Microphones in TV Bands.**

SAFETY INSTRUCTION

- Read this safety instruction and the manual first
- Follow all instructions and information.
- Do not lose this manual.
- Do not use this apparatus under the rain or near the water.
- Do not install the apparatus near heaters or in hot environments, do not use outside the operating temperature range.
- Do not open the apparatus, only qualified service technician are enabled to operate on it. The apparatus needs servicing when it is not properly working or is damaged by liquids, moisture or other objects are fallen in the apparatus.
- Use only accessories or replacement parts authorized or specified by the manufacturer.
- Clean the apparatus only with dry cloths, do not use liquids.
- Report the serial number and the purchasing date in front of the manual. It is needed to have proper replacement parts or accessories from the manufacturer.
- When replacement parts are needed, use only replacement parts authorized from the manufacturer. Substitution with not authorized parts could result in electric shock, hazards or fire.
- Keep attention on all the labels with warnings or hazards on the apparatus.



EU DECLARATION OF CONFORMITY

We,

WISYCOM S.r.l.
via Tiepolo, 7/E
35019 Tombolo (PD) – Italy

declare under our sole responsibility that the product

Description
Model

MTP60
Wireless Bodypack Transmitter

conforms to the essential requirements of the following European Directives and their associated norms:

Directive	Applicable Standards	Description
RADIO Directive 2014/53/EU (RED)	EN 300 422-1 v2.1.2	Wireless Microphones; Audio PMSE up to 3 GHz; Part 1: Class A Receivers; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU
EMC	EN 301 489-1 v2.1.1	“ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU and the essential requirements of article 6 of Directive 2014/30/EU
	EN 301 489-9 v2.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 9: Specific conditions for wireless microphones, similar Radio Frequency (RF) audio link equipment, cordless audio and in-ear monitoring devices; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU
Safety	EN 62368-1 2014	Audio/video, information and communication technology equipment — Part 1: Safety requirements (IEC 62368-1:2014, modified)
Human Exposure	EN 62311:2020	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz — 300 GHz)
RoHS	EN IEC 63000:2018	Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

Date: 22 September 2021

Franco Mastrelli, Managing director
WISYCOM S.r.l.

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