



MTH400 User Manual

Wideband Wireless
Professional Handheld
Transmitter

SN: _____

Rev.067 (rif. FW 1.30.0A)

Date: 12 October 2018



INTRODUCTION

MTH400 is a professional radio microphone especially designed for broadcast/high quality applications.

MTH400 is composed by 3 detachable parts:

- **MIC Head** (available with cardioid/hyper-cardioid polar pattern).
- **MIC Body** (the below part can be open to access “Display & Setup controls” area (fig.1) and on the back the “Batteries holder & Infrared” area (fig. 2).
- **MIC Antenna**, made with fibreglass reinforced housing and with a “Wireless power switch” (fig. 3). “MIC Antenna” is fastened to body with 2 anvils and a micro-connector.

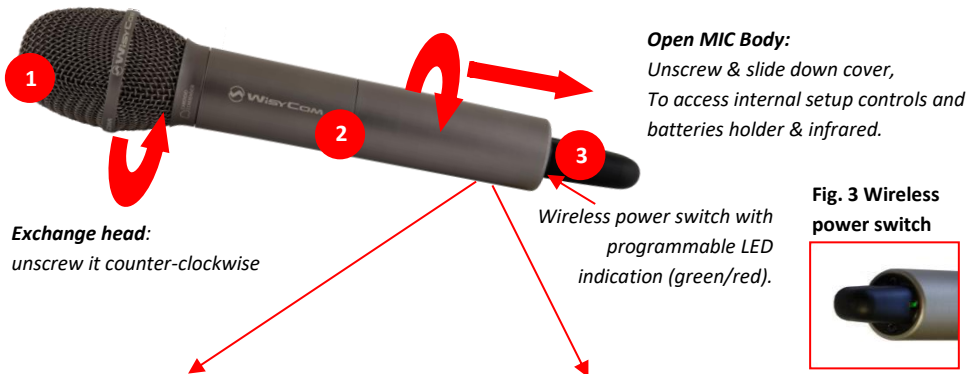


Fig. 3 Wireless power switch



Fig. 1 Display & Setup controls



Fig. 2 Batteries holder and infrared



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.

LED INDICATION (POWER SWITCH)

Led indication with bicolor led (**red & green**) on wireless power switch (fig. 3):

- Wireless transmission status: **green** when RF transmission power is on (on power on the device, this LED is **red** and become green when the RF transmission power is on).
- Battery status: **green** steady, slowly blinking (< 25%), quickly blinking (<12%)
- Modulation peak (if activated): **red**
- PTT status: **red** if active

BATTERIES

MTH400 is working with 2 AA alkaline, NiMH or Lithium batteries (select correct type on setup controls). Battery status can be checked on internal OLED display or looking to LED status on power switch (see LED INDICATION section) **3**.

Battery substitution:

- Open MIC body: unscrew counter-clockwise the below cover to access batteries holder;
- Take out below battery to release upper battery leverage;
- 2nd battery falls down and can be remove

Attention: always replace both the batteries

POWERING UP

Move the wireless power switch (fig. 3) in upper position (towards MIC body) to activate wireless transmission: the front LED **3** lights up red and then green when the RF transmission power is on (blinking when battery is low!)

SETUP CONTROL

Open MIC Body to access the “display and controls” area (fig. 1):

- A.** Graphics Display (**OLED**)
- B.** Channel selection buttons (**ch**)
- C.** MIC gain setup buttons (**gain**)
- D.** 3 position selector (**up / down / click**)



Fig. 4

OLED POWER UP (OLED IS IN OFF CONDITION)

Pushing down selector (**click**), the graphic display oled turns on.

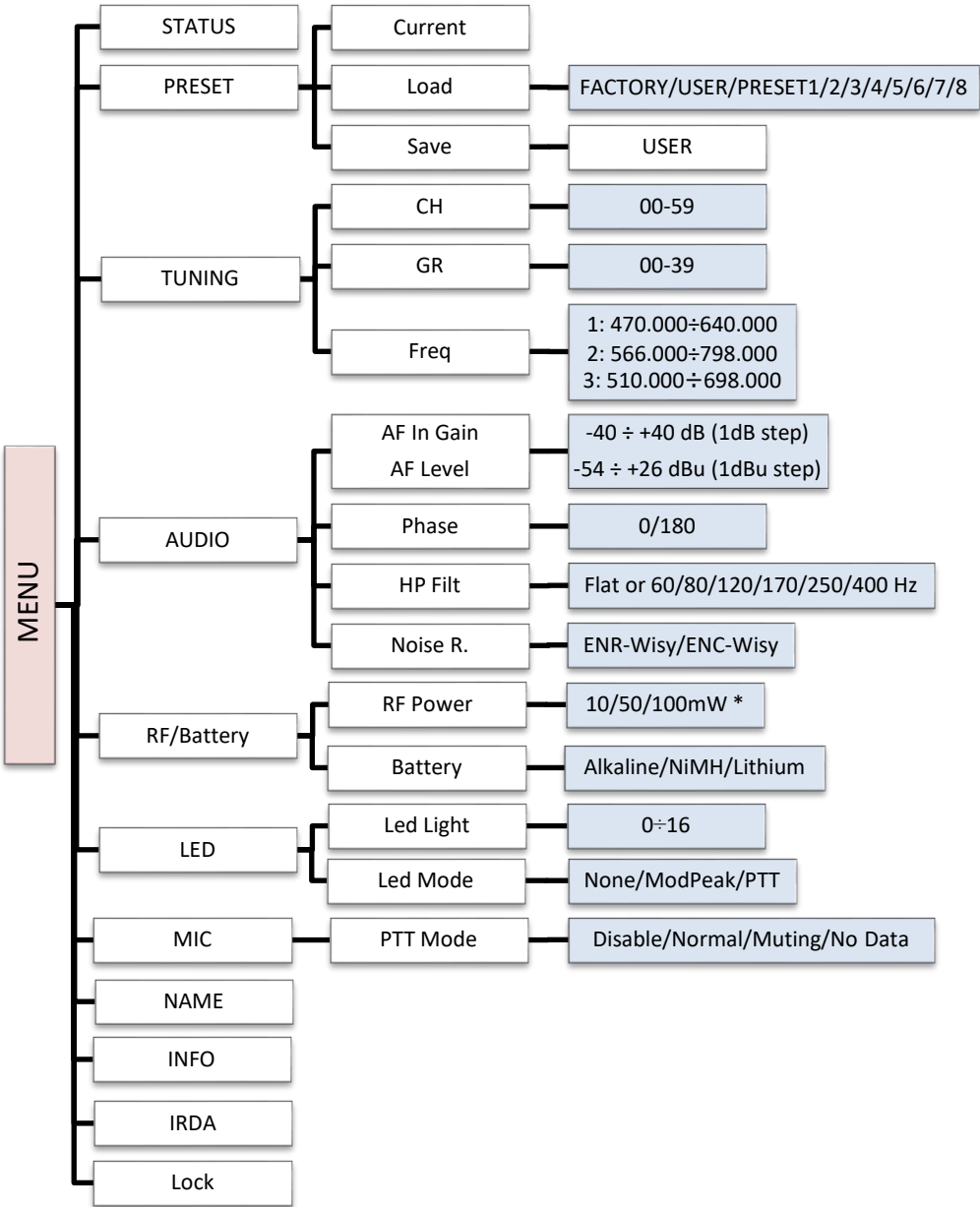
At the beginning a <START UP> menu is displayed, then <STATUS> menu enters automatically. In order to keep the <START UP> menu active, it is necessary to push and hold selector (click) for at least 2 sec.

OLED POWER DOWN (OLED IS IN ON CONDITION)

Display turns off automatically after 15 sec, unless in <AUDIO> menu (with audio level < 5% from nominal).

DISPLAY MENU

Using **up/down** selector all menus can be accessed in sequence.



* Depending on the Power Profile

Preset parameters

Using <up/down> selector all menus can be accessed in sequence, push <click> to enter edit mode (on the left side of the display appear "EDIT" and the selected parameter starts blinking):



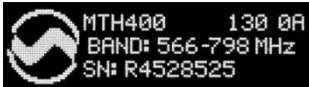
<up/down> to setup field

<click> again to confirm changes and exit.

If no button is pressed, the device exits the EDIT mode and returns the parameter as it was previously set.

<START UP> menu

These menus are displayed during power up for few seconds.



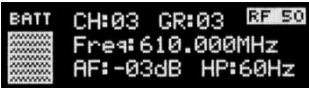
This menu gives indication on product:

- product id (MTH400),
- the firmware release (ex. 1.30.0A),
- the band in extended format and
- the serial number.

Keep selector pushed to hold this menu!

<STATUS> menu

This is the first menu displayed after power up.



Major info are displayed:

- Current channel/group (i.e. CH:03 GR:03) or Receiver's name (i.e. RECEIVER) if the microphone has already been synchronized with a receiver
- Current frequency (i.e. 610 MHz)
- Mic gain (i.e. -03dB) and high pass filter (i.e. 60Hz)
- If in the top right there is "RF10", "RF 50" or "RF 100", the transmission is active respectively at 10, 50 or 100mW (see [RF/BATTERY menu](#))

- On left side, the battery bar is displayed

<PRESET> menu

This menu can be entered by scrolling selector.



MTP41 can recall configuration presets.

"FACTORY" recalls the Wisycom factory configuration.

"USER" recalls the user configuration (the transmitter configuration is copied into the USER using the "save to" submenu).

All "USER" menus are not locked by default, thus this is quick way to unlock features!

When the user changes some parameters from the PRESET configuration (for less than frequency) a star appears on the top-right corner until a save command is executed.





The other 8 configuration presets are user programmable thru the infrared and the PC interface (using the programmer UPK 300/UPK Mini or the receiver MRK950/MRK960).

We provide the device with some preset configurations specifically designed for certain types of microphone or applications (it's possible to change these presets in any time using the TX manager). All parameters can be "left unchanged", "changed" or "changed and lock", allowing a very flexible way to pre-program MTH400 configuration.


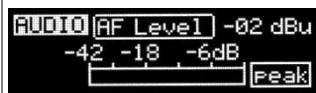



<TUNING> menu

This menu can be entered by scrolling selector or using *quick channel setup* button (**ch**).

	<p>In this menu current channel/group and frequencies can be setup. The name of the group is shown on the top right of the display. Sync group is a quick self-settable channel synchronized by receiver (with SYNC group, on the top right of the display is shown the name of the synchronized receiver). Use the selector to change values (<+/->) and <click> to confirm.</p>
	<p>Using quick channel setup buttons (<CH>), it is possible to enter quickly in the tuning menu. Note that the menu has a different layout (see the side image)</p>

<AUDIO> menu


This menu can be entered by scrolling selector or using *quick gain setup* button (**gain**).

	<p>The sensitivity of the audio input is settable between “AF Gain” (measured in dB) or “AF Level” (measured in dBu). 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). <i>Set the gain, with the maximum input signal, avoiding the peak on the audio bar.</i></p>
	<p>TRY TO SETUP TO HAVE A MAX PEAK HOLD BAR CLOSE TO -6dB.</p>
	<p>Using quick gain setup buttons (<GAIN>), it is possible to enter quickly in the audio gain menu. Note that the menu has a different layout (see the side image)</p>
	<p>The second <AUDIO> menu allows to set:</p> <ul style="list-style-type: none">- audio phase (0° or 180°)- High Pass filter (Flat, 60, 80, 120, 170, 250, 400 Hz)
	<p>The third <AUDIO> menu allows to set the noise reduction:</p> <ul style="list-style-type: none">• ENR-Wisy: designed for maximum noise reduction• ENC-Wisy: designed for maximum audio fidelity (use this in case of special vocal application or to remote instruments)

NOTE: To show the three menu screen it's necessary to scroll down with the selector.


<RF/BATTERY> menu

This menu can be entered by scrolling selector.

	<p>RF power can be setup to 10mW, 50 mW or 100mW (depending on the Power profile).</p> <p><i>If it's selected “10mW”, in the top right on the STATUS menu appear “RF10”.</i></p> <p><i>If it's selected “50mW”, in the top right on the STATUS menu appear “RF50”.</i></p> <p><i>If it's selected “100mW”, in the top right on the STATUS menu appear “RF100”.</i></p> <p>Battery type can be setup in Alkaline, NiMH or Lithium.</p>
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<LED> menu

This menu can be entered by scrolling selector.

	<p>Power switch green LED brightness can be setup → Led light (from 0 to 16).</p> <p>Led Mode setting define when the LED on the power switch (see Fig. 3) have to become RED:</p> <ul style="list-style-type: none"> - None: never, - ModPeak: when audio get close to saturation) - PTT: when the PTT button is pushed
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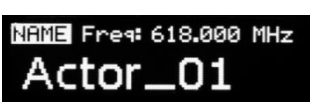
<MIC> menu

This menu can be entered by scrolling selector.

	<p>4 different PTT mode can be selected: Disable, Normal, Muting, No Data.</p>
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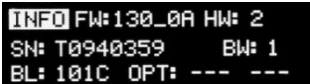
<NAME> menu

This menu can be entered by scrolling selector.

	<p>In this menu it's possible to see the frequency set on the device and the name of the transmitter.</p> <p>It's possible to enter on this menu also pressing at the same time the CH/GAIN buttons (B+C)</p>
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<INFO> menu

This menu can be entered by scrolling selector.

	<p>In this menu it's possible to see:</p> <ul style="list-style-type: none"> - FW version - HW version - Serial number - Bandwidth - Bootloader version - Option
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<IRDA> menu


This menu can be entered by scrolling selector.

	<p>While there is this menu, the device can be connected to IRDA for setup or firmware upgrades.</p> <p><u>Note: if the IRDA interface is enabled and there's no communication for around 10 seconds, the IRDA interface is automatically turned off.</u></p>
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On power on the device, the IRDA interface is enabled for 14 seconds.

<LOCK> menu

This menu can be entered by scrolling selector.

	<p>Long pressing (2 sec.) selector button (click) it locks MTH400 in transmission mode. To unlock, long pressing (2 sec.) selector button again.</p>
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<BOOTLOAD> menu

This menu can be entered by turning on the transmitter while pushing **at the same time** the quick channel setup button <CH> or connecting the device via IRDA using the IR Programmer for FW update

<div>BOOTLOAD</div>	Device is forced in bootloader mode to allow FIRMWARE UPDATE .
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The following table sums up which parameters can be set and the related range settings.

MENU	PARAMETER	MEANING	RANGE SETTINGS
TUNING	CH	Channel	0 ÷ 59
	GR	Group	0 ÷ 39 + SYNC GROUP
	Freq	Frequency	It depends on the MTH400 Model: 1 470-640 2 566-798 3 510-698
AUDIO	AF Gain	Gain of the audio signal	-40dB ÷ +40dB step of 1dB
	AF Level		-54dBu ÷ +26dBu step of 1dBu
	Phase	Audio signal phase	0° or 180°
	HP	High Pass filter	Flat/60/80/120/170/250/400 Hz
RF/BATTERY	Noise R.	Noise reduction	ENR: Wisycom Extended-NR, noise optimized ENC: Wisycom Extended-NC, voice optimized
	RF Power	RF Power	10mW or 50mW or 100mW (depending on the power profile)
LED	Battery	Battery type	Alkaline, NiMH or Lithium
	Led Light	Power switch green brightness	0 ÷ 16
	Led Mode	It defines when the power switch led (see Fig. 3) has to become RED	None: never ModPeak: when audio get close to saturation PTT: when the PTT button is pushed
MIC	PTT Mode	It defines how and what information the transmitter has to send	Disable: when the PTT button is pushed, nothing happen. (the transmitter sends AF+Tone squelch) Normal: when the PTT button is pushed, the transmitter send a different RF signal. According to the receiver configuration the audio can be enabled/disable on LINE (and/or COM). Muting: the transmitter doesn't send the audio. The voice is cut, it doesn't enter to the microphone No Data: the transmitter sends neither tone squelch nor battery data.

HOW TO USE WISYCOM TX MANAGER (v.1.1.5 OR ABOVE)

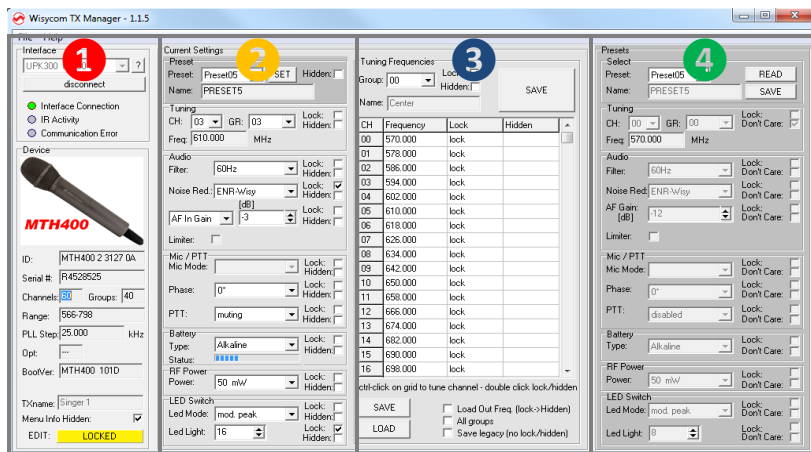
Wisycum TX Manager allows to read, modify and update the configuration of Wisycum transmitters. It is necessary to

- connected the programmer UPK300E/UPK300 or the receiver MRK950/MRK960 to the PC thru **USB connection**
- run the Wisycum TX Manager
- enable the IRDA communication on the transmitter (see IRDA menu)

NOTE: Wisycum IR Programmer doesn't work with MRK950/MRK960 if it is connected to the PC using an Ethernet cable.

The Wisycum IR Programmer's window is divided in 4 parts (see the image below):

- 1 Interface and Device panel** contains all the major information of the connected device
- 2 Current Settings panel** shows the current configuration. Thanks the PRESET panel, a previous saved configuration can be chosen and loaded like current setting.
- 3 Tuning Frequencies panel** allows to handle Groups, Channels and Frequencies
- 4 Presets panel** allows to read, change and save different configurations



10 different configurations are available:

- FACTORY configuration is a locked configuration: no parameter can be changed.
- USER configuration is the only configuration that can be saved using the OLED display (see <PRESET> menu). Note: It is not possible to change the name of this configuration.
- Other 8 configurations where the user can change both the name and the values of all parameters.

INTERFACE AND DEVICE PANEL (1)

At the beginning, the program checks which IR devices are detected and they appears on the **Interface** panel.

The user has to select the device and push <connect> button in order to open the communication with the IR device. A picture on the top in the Interface panel help the user in this selection showing the type of devices detected. During this process the “IR activity” led blinks to indicate that the program wait connection’s answer from the IR device.

A successful connection is signaled with the “interface connection” green led, while a failed connection is signaled with the “communication error” led.

Once a supported device is found, the software automatically reads all the data related to the remote configuration, as well as the frequencies that are pre-programmed.

Firstly, in order to avoid unwanted operation, no parameters can be changes and the EDIT button, presents on the bottom of **Device** panel, is yellow and set to **LOCKED** state. Pushing the EDIT button, it becomes grey and sets to **UNLOCKED** state to indicate that the configurations can be modified.

In this panel it’s possible to assign a name to the TX (not available for FW v.1.22.0F or previous). Under this parameter, there is a flag to hide the info menu on the TX (not available for FW v.1.22.0F or previous)

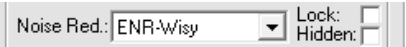
CURRENT SETTINGS PANEL (2)

In the Current Settings panel the user can

- with Preset panel → load one of the 10 available configurations
- with other panels → modify all the configuration’s parameters (the same that are changeable in the OLED display). Each parameter can be locked or hidden clicking the related lock/hidden button, so the set value cannot be changed next or cannot be visible on the OLED display.



Preset:	USER	SET	Hidden: <input type="checkbox"/>
Name:	USER		



Noise Red.:	ENR-Wisy	Lock: <input type="checkbox"/>	Hidden: <input type="checkbox"/>
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ATTENTION: All the modifies applied to the Current Settings panel are instantaneous: they are applied directly to the device and save in its memory but no saved in the preset configuration.

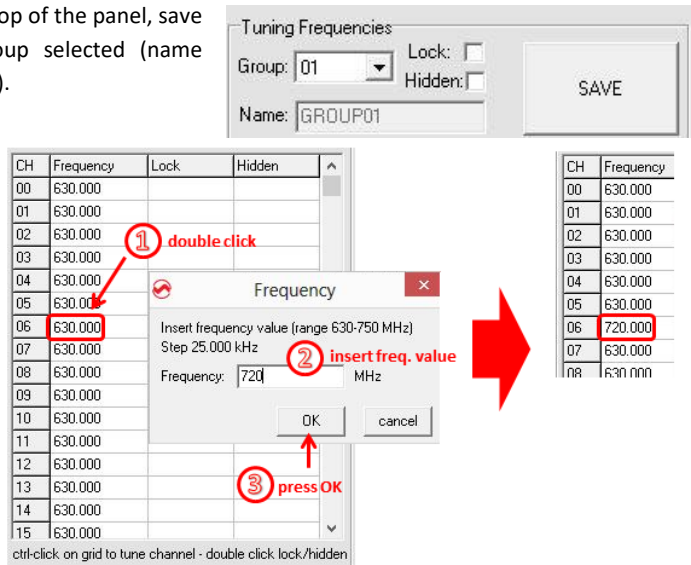
TUNING FREQUENCIES PANEL (3)

With the Tuning Frequencies panel the user can select a frequencies group (0÷39) and for each one execute the following operations:

- modify the Group's Name
- lock and/or hidden the group
- for each channel (0 ÷59) of the selected group: change the frequency value and the related status (locked/hidden) (in the center grid frequency)

The SAVE button, at the top of the panel, save the changes of the group selected (name group, lock/hidden group).

To change a frequency value for a specific channel: double click on the grid frequency panel (row=channel's number), insert the new frequency value and press OK button.



CH	Frequency	Lock	Hidden
00	630.000		
01	630.000		
02	630.000	lock	
03	630.000		hidden

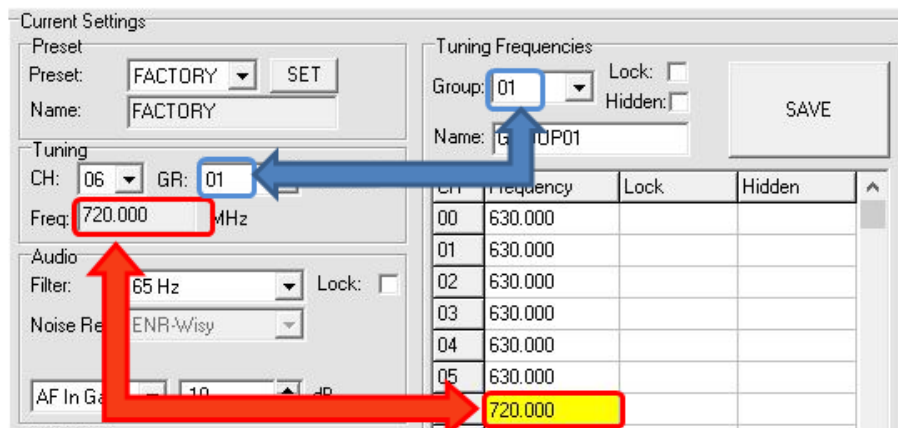
double click to LOCK the channel

double click to HIDE the channel

To lock/hide a specific channel, double click on the grid frequency panel.

NOTE: keeping pressed the CTRL button on the keyboard and clicking the wanted channel/group shown on the frequencies grid, the tuning process is executed. It is equivalent to configure the Tuning in the Current Settings panel but it is easier. The device is re-tuned immediately, so be sure that the RF power is turned off while changing frequencies with other RF systems in use around you!

If the currently tuned channel is on the same group that is listed on the grid, the background color of the related cell (channel) on the grid becomes yellow.



Using the LOAD/SAVE button, at the bottom of the panel, it is possible to **load/save** the frequencies for the selected group from/to a .wdf file. To save the frequencies of all the groups click to the related button above. The legacy option save the channels without the hidden/lock info.



PRESETS PANEL (4)

The Preset panel allows to manage all the 10s available configurations. For each configuration it is possible to set the name and all the parameters value except for FACTORY and USER configurations (see table below).

PRESETS:	NAME*	LOCK/DON'T CARE	PARAMETERS VALUE
FACTORY			
USER			√
OTHERS	√	√	√

√=change is allowed

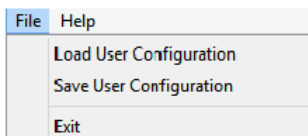
* Be careful to write a meaningful name for the preset because the name will appear on the settings list of the device menu! Please, avoid empty names.

If a parameter is “locked”, it cannot be modified by device menu (using OLED display), while if “don’t care” propriety is active, when the user load the configuration, the parameter’s value doesn’t changed.

ATTENTION: Changes are applied only after a “save” action.

NOTE: “a trick” In case of the user have a locked parameter and he is in great need for modify it, he can save the configuration to USER configuration by OLED (see PRESET menu) and then load the USER configuration (in this way all the parameters have the lock propriety disable and the user can modify all the parameters).

FILE MENU



Using a file menu at the top left of the panel it is possible to **load/save all the configuration** values of the device to/from a .wcf file (Wisyscom Configuration File).

Save a .wcf file

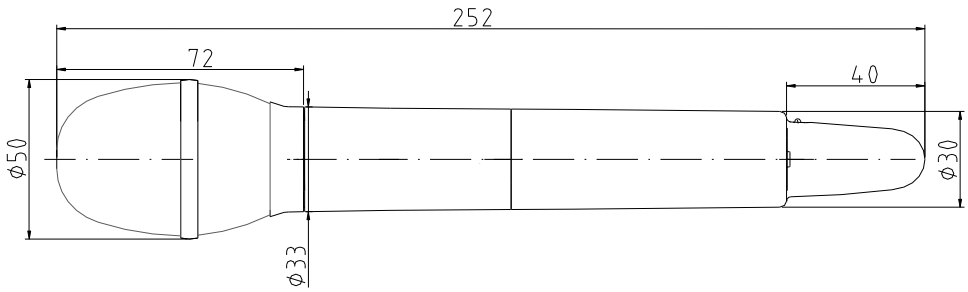
With an infrared device correctly connected, select File->Save User Configuration and select the destination file.

Load a .wcf file

To load a user configuration select File->Load User Configuration and select a previously saved data file; a form will be shown, where it's possible to select which data has to be restored and which skipped. This allow the user to load a particular configuration while keeping other data.

TECHNICAL SPECIFICATIONS

Switchable channels	2400 allocated by 40 groups of 60 channels (in specific frequency range), quickly selectable with dedicated buttons
Switching window	Up to 232 MHz, depending on band (see <i>Variants</i> on the next page)
Frequencies	Quartz PLL frequency synthesizer circuit (25 kHz step)
Frequency stability	▪ $\pm 2,5$ ppm (in the rated temperature range)
Temperature range	-10 \div +55 °C
Max RF power	<ul style="list-style-type: none"> ▪ 10mW (ERP) (to respect some local norm) ▪ 50 mW (ERP) (note: in some countries middle power can be disabled, for local norm!) ▪ 100 mW (ERP) (note: in some countries high power can be disabled, for local norm!)
Spurious emissions	< 2 nW
Modulation	wideband FM with pre-emphasis
Nominal deviation	± 40 kHz (Peak deviation = ± 56 kHz)
Telemetry feature	MTH400 transmits also a digitally modulated sub-carrier, suitable for: <ul style="list-style-type: none"> ▪ <i>tone-squelch operating</i> ▪ <i>remote battery monitoring</i> ▪ <i>optional PTT (push to talk) operation</i>
AF input connection	Directly interchangeable microphone-heads
AF input level	60 dB adjustable range from -54 to +6 dBu at peak deviation (1 kHz), adjustable in 1 dB steps
Max. input level	+26 dBu
Max sound pressure	150 dB SPL (0,5% THD), with MCM301/MCM302/MCM303/MCM304/MCM305 condenser-heads
Noise-Reduction	ENR (Wiscom Extended-NR), with independent Attack- and Recovery-time, noise optimized ENC (Wiscom Extended-NC), with independent Attack- and Recovery-time, voice optimized & with reduced pre-emphasis
AF bandwidth	45 Hz \div 21 KHz (3dB) 55 Hz \div 20 KHz (1dB)
Distortion	< 0.3 % (0.15 % typ.)
Signal-to-noise ratio	typ. 115 dB (A) _{rms} with 40kHz deviation typ. 121 dB (A) _{rms} with 56kHz deviation
Led	Led indication with bicolor led (red & green) on wireless power switch: <ul style="list-style-type: none"> ▪ Wireless transmission status: <i>GREEN</i> on/off ▪ Modulation peek (if activated): <i>RED</i> ▪ Battery lifetime status: <i>GREEN</i> - <u>steady</u> (> 25%) - <u>slowly blinking</u> (< 25%) - <u>quickly blinking</u> (<12%) ▪ Ptt status: <i>RED</i> if active
Display	High contrast OLED (Organic light-emitting diode) display (96 x 36 pixels) 8 step battery lifetime indication: 7 <u>bars</u> (100%-87%-75%-63%-50%-38%-25%) and " <u>empty bar</u> " quickly blinking (12% remaining)
Power supply	2 AA size cell (Alkaline, rechargeable NiMH or Lithium)
MTH400 Battery life (2AA alkaline)	<ul style="list-style-type: none"> ▪ approx. 14 hours @ 10mW continuous working ▪ approx. 10 hours @ 50mW continuous working ▪ approx. 7 hours @ 100mW continuous working
Dimensions	\Rightarrow body max. diameter 33 mm (without microphone-head) \Rightarrow total length 183 mm (without microphone-head)
Weight	Approx. 300g, including battery and MCM3xx (condenser) mic-head (approx. 260g batteries excluded)



Note: unit is mm

POWER PROFILE & COUNTRY

FREQUENCY RANGE:

EU max power 50mW (Europe)

0W1 / EUX max power 100mW (Europe)

US max power 50mW, limited to 698MHz (USA & Canada)

JP max power 10mW, limited to 714MHz (Japan)

NZ max power 100mW, limited to the range 502÷698MHz (New Zealand)

VARIANTS:

• COLOR

PV body color titanium gray (ceramic coating)

BL body color black (powder coating)

• FREQUENCY RANGE


B1 470-640 MHz

B2 566-798 MHz

B3 510-698 MHz


For the commercial code, see in the Variants area of the Products on our website

Compliance

Model	In Compliance with	Max Power	Country
MTH400 MTH400-EU	EN 301 489-1/-9 EN 600065 EN 300 422-1/-2	50mW	Europe CE
MTH400-0W1 MTH400-EUX	EN 301 489-1/-9 EN 600065 EN 300 422-1/-2 EN 300 454-1/-2	100mW*	Europe CE
MTH400-US	FC _{PART 74} FCC-ID: POUMTH400 RSS-123, RSS-102 IC: 11967A-MTH400 Limited to 663MHz	50mW	USA, Canada
MTH400-USX	FC _{PART 74} FCC ID: POUMTH400USX RSS-210 IC: 11967A-MTH400USX Limited to 663MHz	100mW	USA, Canada
MTH400-JP	 R 202-LSC058 Limited to 714 MHz MIC marking identifier can be found in the battery compartment.	10mW	Japan
MTH400-NZ	EN 300 422-1/-2 EN 300 454-1/-2 Limited to the range 502÷698MHz	100mW	New Zealand

* MTH400-0W1/MTH400-EUX is not an SRD device, it requires specific authorization by your local frequency authority!

Note: The above technical specifications refer to the MTH 400 “transmitter” section. The acoustic specs are relevant to the microphone-head used. The MTH 400 transmitter complies with ETSI 300 422.



Before putting the device into operation, please observe the respective country-specific regulations!

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.

FCC Conformity

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 undesired operations.

Changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC ID can be found near the battery compartment (unscrew & slide down the cover).

FCC ID: POUMTH400USX

Industry Canada Conformity

EN

This device operates on a no-protection, no-interference basis. Should the user seek to obtain protection from other radio services operating in the same TV bands, a radio licence is required. For further details, consult Innovation, Science and Economic Development Canada's document Client Procedures Circular CPC-2-1-28, Voluntary Licensing of Licence-Exempt Low-Power Radio Apparatus in the TV Bands.

This device complies with Industry Canada RSS-123.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s).

FR

Ce dispositif fonctionne selon un régime de non-brouillage et de non-protection. Si l'utilisateur devait chercher à obtenir une certaine protection contre d'autres services radio fonctionnant dans les mêmes bandes de télévision, une licence radio serait requise. Pour en savoir plus, veuillez consulter la Circulaire des procédures concernant les clients CPC-2-1-28, Délivrance de licences sur une base volontaire pour les appareils radio de faible puissance exempts de licence et exploités dans les bandes de télévision d'Innovation, Sciences et Développement économique Canada.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio RSS-123.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence.

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 ambientalmente compatibile contribuisce ad evitare possibili effetti negativi sull'ambiente e sulla salute e favorisce il reimpiego 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

DECLARATION OF CONFORMITY



EU DECLARATION OF CONFORMITY

We,

WISYCOM S.r.l.
via Spin, 156 - 36060
Romano d'Ezzelino (VI) - Italy

declare under our sole responsibility that the product

Description
Model

MTH400
Wireless Handheld Transmitter

conforms to the essential requirements of the RADIO Directive 2014/53/EU – Radio Equipment Directive (RED)

Directive	Applicable Standards	Description
Radio	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 v1.9.2	Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements
	EN 301 489-9 v1.4.1	Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 34: Specific conditions for External Power Supply (EPS) for mobile phones
Safety	EN 62368-1 2014	Audio/video, information and communication technology equipment — Part 1: Safety requirements (IEC 62368-1:2014, modified)
RoHS	EN 50581 2012	Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

Date: 10 July 2018

Franco Maestrelli, Managing director

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