USER MANUAL

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ZAXCOM.COM

ZMT3-FLEX

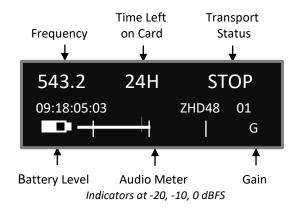
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Zaxcom ZMT3 Flex Home Screen

Home Screen



Frequency - This is the transmit frequency of the ZMT3 Flex.

If the ZMT3 Flex is being used in RECORD ONLY mode "NOTX" will be displayed.

Time Left On Card - Displays the record time left on the card.

Transport Status – Displays the current mode of the recording feature.

- STOP Recording / Playback is stopped
- REC ZMT3 Flex is recording.
- PLAY ZMT3 Flex is playing back a recorded audio file.

Time Code - Displays the current time code.

Modulation - Displays the transmission modulation.

Segment Number - Displays the number of recorded segments on the micro SD card. Please note that regardless of the size of the card it is limited to 500 segments.

Battery - This displays the battery type and the approximate percentage of remaining battery power.

Audio Meter - Displays the modulation of the inputted audio signal.

SEG -

Gain - "G" Appears when the transmitter is receiving change of gain commands via ZaxNet.

Group and Unit Code - Pressing the INC key while in the home screen will display the group and unit code and the ZaxNet IFB status.

Time Code UBITS and Frame Rate - Pressing the DEC key while in the home screen will display the time code, frame rate and user bits of the time code generator. The time left on the record card will also be displayed.

GROUP:1 UNIT:1 IFB RX FREQ: 2.404 PKTS:0000 TC:00 REM:00

TC: 09:18:05:00 23.98 UB: 00:00:00:00 (AUTO) CARD TIME LEFT : 23H Zaxcom ZMT3 Flex Main Menu

Main Menu

To cycle through the main menu press the MENU key.

Microphone Gain Set



The microphone gain is adjusted from this menu. This menu displays the gain setting in decibels and a meter indicating the audio signal. The meter is displayed horizontally from left to right.

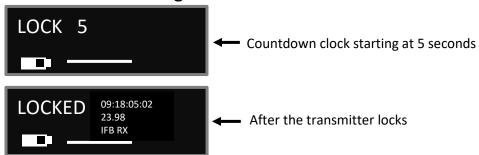
UHF Transmit Frequency Set



This menu is where the UHF transmit frequency is set.

- Short presses of the INC or DEC key causes the value to change by 0.1 MHz
- Holding the INC or DEC key causes the value to change by 0.5 MHz

Transmitter Lock Page



This page enables a key lock function so no parameters can be changes. When the lock page is landed on a countdown clock will begin. After 5 seconds the transmitter will lock and the display will indicated that it is LOCKED. If this screen is exited before the 5 seconds are up the transmitter will not lock.

To lock the transmitter before the 5 seconds press and hold the DEC key.

Pressing the INC key when the transmitter is locked will display the ZMT3's group and unit code, its transmit frequency and serial number. Pressing the DEC key will display the units name, battery voltage and current record segment number.

To unlock the transmitter

- Press and hold the MENU key and press INC keys 5 times.
 Or
- Powering down and reboot the transmitter.

Zaxcom ZMT3 Flex Menu Navigation

Sub Menus

Menu groups

The ZMT3 Flex has six sub menu groups

- **Time Code** Changes the time code parameters of transmitter.
- Transmit Changes the parameters of the UHF transmitter.
- **Record** Changes the parameters of the on-board recorder.
- ZaxNet Changes the parameters of the ZaxNet transceiver.
- Audio Changes the parameters of the transmitted and recorded audio.
- Setup Changes the parameters of the general operation on the transmitter.

Accessing and navigating the menu groups

From in the home screen press the CARD key three times, or hold the MENU key while booting up, to access the six menu groups. Then pressing the INC or DEC key will cycle between the menu items.

Entering and navigating a sub menu

When landing on the desired menu group press the MENU key to enter that menu.

To return to the top of the menu press the MENU key to cycle to the top or press and hold the MENU key for 1.5 seconds.

Exiting the extended menu

Press the CARD key 3 times, or press the MENU key to cycle through the sub menu items until HOME MENU is displayed then press the MENU key.

Zaxcom ZMT3 Flex Time Code Menu

TIME CODE MENU

Time Code Frame Rate Set

TIMECODE 23.98 GEN 09:18:05:02

The time code frame rate menu is where the time code frame rate is set. The ZMT3 Flex will lock to and record all standard time code frame rates.

• 23.98, 24, 25, 29.97DF, 29.97DF, 30 DF, 30 NDF

Time Code Source Select

TC SOURCE: ZAXNET (RF)

The time code source menu selects how the transmitter will receive its time code.

- **ZAXNET (RF)** The ZMT3 Flex will receive time code via ZaxNet from a Deva 24, Nomad, a QRX235, IFB100/200, TRX900CL or another TRX transmitter or a ZFR recorder that is transmitting ZaxNet time code.
- AUDIO INPUT The ZMT3 Flex, with a proper cable, will receive time code via the microphone input.
 When time code is connected, it takes the ZMT3 Flex approximately three seconds to recognize the TC. The screen will display TIME CODE followed by JAM when it is recognized. Please note that when using the microphone input connector, the audio level of the time code signal needs to be between -30 and -10 dBFS on the unit's meter. Any level above -10 may cause clipping, which will prevent proper reading of time code.

TC Jam Mode Select

TC JAM MODE: AUTO-JAM NORMAL

This menu controls if the ZMT3 Flex will go into record when it receives a record run time code.

- AUTO-JAM NORMAL The ZMT3 Flex will continuously jam time code via ZaxNet and will go into record
 when receiving a record command via ZaxNet or if the unit is put into record manually by pressing the
 CARD and INC keys simultaneously.
- AUTO-LOAD REC RUN In Auto-Load mode the ZMT3 Flex will go into record when it detects rolling time code, and will stop when the time code stops. If time code is lost because the IFB signal is too weak the unit will not stop but will continue in whatever state it was in until the time code signal is restored.

Mute Time Code Transmission Until Jammed

MUTE TC SEND UNTIL JAMED: OFF

If the mute time code menu is set to ON the ZaxNet transmitter will not broadcast time code over ZaxNet until the transmitter receives time code and jams its own internal time code generator. This prevents the ZaxNet from sending incorrect time code to another device.

Zaxcom ZMT3 Flex Time Code Menu

Auto Frame Rate Enable

AUTO FRAME RATE ON (23.98)

When turned ON the ZMT3 Flex will automatically set its frame rate to the frame rate that is being transmitted from the ZaxNet transmitter that is feeding the ZMT3 Flex. If auto frame rate is set to OFF the frame rate will need to be adjusted manually. Please note that auto frame rate will only work when the time code is being received over ZaxNet and will not work when time code is being received via the audio input.

Zaxcom ZMT3 Flex Transmit Menu

TRANSMIT MENU

UHF Transmitter Power Level Set

TX POWER: 50MW

The UHF transmit power of the ZMT3 Flex is set from this page. The transmit power can be adjusted to output 25, 50 or 75mW. The higher the power setting the more battery power will be required.

UHF Transmit Modulation Set

TX FORMAT: ZHD96 PRESS CARD TO REBOOT

The UHF transmission modulation is the way the ZMT3 Flex sends audio to the receiver. The modulation format is set from this menu. Please note if the transmission format that is set here, and the format set on the receiver do not match, the receiver will be unable to decode the audio from the transmitter. Also note that after any change to the transmit format the ZMT3 Flex will need to be rebooted by pressing the card key before the new format takes effect.

	MONO	STEREO	XR	ZHD 96	ZHD 48
Modulation Bandwidth	200 kHz	196 kHz	200 kHz	96 kHz	48 kHz
Minimum Channel to Channel Spacing	400 kHz	200 kHz	400 kHz	300 kHz	200 kHz
6 MHz TV Channel Capacity	15	30	15	30	60
Latency	3.5ms	6ms	6ms	6ms	18ms
Compatibility with a 200 Series Receiver	2 Transmitters	2 Transmitters	2 Transmitters	2 Transmitters	1 Transmitter

Transmitter Disable - Record only mode



- **Record Only Mode** Will set the ZMT3 Flex to act as a standalone recorder and will not transmit any audio over UHF. This will conserve battery power since the transmitter is disabled.
- Normal TX Mode Will allow the ZMT3 Flex to both transmit audio and record on its internal micro SD card.

Zaxcom ZMT3 Flex Record Menu

RECORD MENU

SD Card Format

This menu will only appear if a card was inserted prior to booting up

PRESS UP KEY 5X: TO ERASE CARD

The Micro SD card is erased and formatted from this menu. Please note that all cards need to be formatted in the ZMT3 Flex prior to recording.

Before formatting the card, the transmitter can optionally be renamed (see set up menu). When a transmitter is named that name is included in the recorded file names. By naming the transmitter it makes it easier to differentiate files from different recorders, so for example the card can be identified with the talents name, or any other unique identifier. The card name menu is located at the end of the set up menu. The factory default name is the transmitter's serial number.

Partial Format

If the card's FAT32 file structure gets corrupt while doing a file transfer, and the card is no longer recognized by the transmitter or by ZaxConvert, a partial format can be done. The partial format rewrites the FAT32 file structure and leaves the recorded audio untouched. To do a partial format from this menu press the DEC key 9 times "PARTIAL FORMAT" will then be displayed.

Playback Control



Recorded files can be played back from this page.

The top line displays the current mode of the recorder: REC, PLAY or STOP followed by the time code. The bottom line contains the current segment number and the audio level.

Playing back from the transport page:

- Pressing the INC key while stopped will play the segment number that is displayed.
- Pressing the DEC key while playing back will stop the playback.
- Pressing the DEC key while stopped will jump back.
- Holding the INC key will jump ahead one segment.
- Holding the DEC key will jump back one segment.
- Pressing the INC key while in play mode will cause the playback to jump ahead, repeated quick presses will cause playback to advance in larger increments.

Zaxcom ZMT3 Flex Record Menu

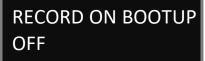
Time Left on Card

This menu will only appear if a card was inserted prior to booting up

TIME LEFT 20 H TIME USED 4 H

This page displays the remaining record time left on the card as well as the time already recorded on the card.

Automatic Record after Boot up



Record on boot up allows the onboard recorder to automatically start recording after the ZMT3 Flex boots up.

- ON The onboard recorder will automatically start to record after the ZMT3 Flex boots up.
- OFF The onboard recorder will wait for a ZaxNet command or a manual record trigger to start recording.

Low Battery Stop Set

LOW BATT STOP: NEVER STOP

Low battery stop will set the amount of time, after a low battery warning occurs, the on-board recorder will close the current file and stop recording.

This is to prevent possible file corruption if the unit constantly powers off and on due to a dead battery.

- **NEVER STOP** The onboard recorder will not stop recording unless it is manually stopped by a key press, or when it receives a stop command via ZaxNet, or if the battery dies.
- Any interval from 1 to 99 minutes Once the battery indicator starts blink a low battery warning the
 onboard recorder will continue to record for the time set here then it will close the file and stop
 recording.

ZAXNET MENU

ZaxNet Mode

ZAXNET MODE: TX

This menu sets the mode of the ZaxNet transceiver.

- **OFF** The ZaxNet transceiver is disabled. The ZMT3 Flex will not receive ZaxNet commands or time code and it will not send any ZaxNet audio. Please note if ZaxNet mode is set to OFF the several ZaxNet menu items will not appear.
- RX The ZaxNet transceiver will receive ZaxNet commands and time code.

 This screen will display what ZaxNet data is being received by the ZMT3 Flex. Including total received information packets, ZaxNet TC received and remote control commands received. This information is used for debugging purposes.
- **TX** The ZaxNet transceiver will send ZaxNet confidence audio and time code. Please note that in ZHD48 mode the ZMT3 Flex will not be able to go into transmit mode.

ZaxNet Receive Frequency Set

This menu will only appear if ZaxNet is set to receive (RX) mode

RX FREQ : 2.403 RX SIGNAL : 28

The ZaxNet receive frequency is the frequency that the ZMT3 Flex will get its wireless time code and remote control commands on. This frequency will need to match the frequency of the corresponding ZaxNet transmitter. The ZaxNet transmitter can be a QRX with QIFB, Nomad, TRX900CL or IFB100/200. The ZMT3 Flex can also receive ZaxNet time code from another TRX / ZMT3 transmitter or a ZFR recorder that is transmitting ZaxNet on this frequency. Please keep in mind that the range will be limited when receiving ZaxNet from a TRX or ZFR.

When the ZMT3 Flex is receiving a valid ZaxNet signal the signal strength will be shown as well as signal strength meter that runs vertically on the far right side of the screen.

ZaxNet Transmit Frequency Set

This menu will only appear if ZaxNet is set to transmit (TX) mode

ZAXNET TX FREQ: 2.473

The ZaxNet transmit frequency is the frequency that the ZaxNet transmitter on the ZMT3 Flex will broadcast time code and confidence audio on. Please note the ZaxNet transmitted audio is for quality control purposes and the expected range will be less than 20 feet.

Group Code Set

REMOTE CONTROL GROUP CODE = 1

This menu is where the ZMT3 Flex is assigned to a group. The group code allows transmitters to be grouped together so they can be controlled via ZaxNet without affecting others.

So for example a ZMT3 Flex set to Group 1 will be controlled by a ZaxNet transmitter set to Group 1 and a ZMT3 Flex assigned to group 2 will be controlled by a Group 2 ZaxNet transmitter. This is helpful if two or more people on set are sending ZaxNet commands. Therefore the different group codes allow each person to be independent and not interfere with each other. Most users leave the group set to 1 on all of their Zaxcom products. Group codes can be set from 1 to 99.

Unit Code Set

REMOTE CONTROL UNIT CODE = 001

This menu is where the ZMT3 Flex is assigned a unit code. The unit code is a unique number used to identify each ZMT3 Flex within a particular group. This allows individual transmitters within the same group to be independently controlled. Each transmitter should have a different unit code.

Unit codes can be assigned any number from 1 to 200.

ZaxNet Voting Enable

This menu will only appear if ZaxNet is set to receive (RX) mode

ZAXNET VOTING: NORMAL (OFF)

The purpose of voting is to allow the ZaxNet receiver in the ZMT3 Flex to choose, and switch to, the stronger signal from two different ZaxNet transmitters. One purpose of this is if on a large set a second IFB transmitter can be placed at a different location so the ZaxNet receiver in the ZMT3 Fex can choose the stronger signal. Please note that the second ZaxNet transmitting frequency must be set 2MHz higher than the first ZaxNet transmitter.

ZaxNet Receive Before Transmit Time

RX TO TX TIME: OFF (NORMAL RX)

Receive only mode.

The ZaxNet transceiver will only receive ZaxNet and NOT go into transmit mode. Therefore no ZaxNet TC and/or audio will be transmitted. This setting shuts off the ZaxNet transmitter.

ZAXNET RX TO TX: 0 SEC: TX ONLY

Transmit only mode.

The ZaxNet transceiver will only transmit ZaxNet TC and audio and will NOT receive wireless TC or ZaxNet commands. This setting shuts off the ZaxNet receiver.

ZAXNET RX TO TX: 20 SEC

Receive then Transmit mode.

After boot up the ZaxNet transceiver will search for a ZaxNet signal for the selected time so it can receive and lock time code before it begins to transmit TC and confidence audio.

This menu adjusts the state of the ZaxNet transceiver. This also sets how long after boot-up up the ZMT3 Flex will search for ZaxNet time code before it begins transmitting its audio over ZaxNet for monitoring purposes. This is so the ZMT3 Flex can lock to ZaxNet time code source before the unit will send confidence audio over ZaxNet.

IFB Receive Pulse Set

This menu will only appear if ZaxNet is set to go into transmit in the RX to TX Time menu.

ZAXNET RX PULSE: OFF

The ZaxNet transceiver will stay in transmit mode and never go into receive mode.

IFB RX PULSE 600 SECS

In this example the ZaxNet transceiver will go out of transmit mode every 10 minutes. This setting would be used so the ZMT3 Flex could update its time code while monitoring audio via an ERX

This menu sets the interval that the ZaxNet transceiver will stop sending confidence audio and search for time code.

When enabled the pulse setting tells the ZaxNet transceiver to leave ZaxNet transmit mode once every XXX seconds and go into receive mode so it can re-jam its time code wirelessly via ZaxNet. This setting would be used so the ZMT3 Flex could update its time code while monitoring audio via an ERX receiver. Please note when the ZaxNet transceiver searches for ZaxNet it will temporally go out of transmit mode for approximately 1 second as it searches for ZaxNet time code. The settings are NEVER or any interval between 5 and 999 seconds.

Record Beep Set

This menu will only appear if ZaxNet is set to transmit (TX) mode

ZNET RECORD BEEP OFF

When the record beep is set to ON, and the ZMT3 Flex is recording, the confidence audio sent to the ERX via ZaxNet will have an audible beep, in variable intervals, giving conformation that the ZMT3 Flex is indeed recording. The beeps will only be heard in the ERX and will not be recorded on the card, or be sent to the UHF receiver. The intervals can be set between 2 to 18 seconds in 2 second increments.

Zaxcom ZMT3 Flex Audio Menu

AUDIO MENU

High Pass Filter

HIGH PASS FILTER: 90Hz

The high pass filter is turned on and adjusted from this menu. The high pass filter range is 40Hz to 220Hz in 10Hz increments.

2K Notch Filter



The 2K notch filter is useful in removing digital RF interference that can be introduced into some microphones.

Zaxcom ZMT3 Flex Audio Menu

Dynamics



The dynamics is a soft knee compressor that is located after the analog to digital converter which will limit the dynamic range to prevent clipping during occurrences of loud audio. Dynamics is comprised of both a compressor and an expander, which operate jointly. The compressor in the dynamics can set to mild or extreme compression and features a soft knee for more transparent operation.

To enter the Dynamics Menu

Press the INC or DEC key - "PARMS" (parameters) will be displayed on the right.

To move to the next parameter, press the MENU key.

To exit this page, hold the MENU key for 1 second.

Dynamics Parameters

- Link L-R: OFF / ON: If using a stereo transmitter this links the left and right signal so if one side of the signal needs compressing / expansion the other side will do the same to match.
- SPEED (Decay Speed): SLOWEST / SLOW / NORMAL / FAST / FASTEST
 Sets how gradual the signal level decreases after a signal reaches the threshold setting. This is typically set to FAST.
- ATTACK (Attack Speed): SLOWEST / SLOW / NORMAL / FAST / FASTEST
 Sets the speed in how fast the gain is reduced once the signal exceeds the threshold setting. This is typically set to FAST.
- CMP RATIO (Compressor Ratio): Valid range: 1.0: to 5.0:1, in 0.1 steps.

The amount of gain reduction is determined by the compressor ratio setting.

A compressor ratio for example of 2.0:1 means for every 1 dB above the compressor threshold the gain will

be reduced 2dB. A higher ratio setting makes the compressor more aggressive.

- **CMP THRESH** (Compressor Threshold): Valid range: 0 to –96dB, in 1dB steps. This sets the level in which gain reduction occurs.
- CMP KNEE: (Compressor Soft Knee): Valid range: 0 to 20dB, In 1dB steps.

 Sets the compressor's soft knee. A soft knee reduces "softens" the audible change from uncompressed to compressed, this is useful especially for higher ratios where the changeover is more noticeable
- EXP RATIO (Expansion Ratio): Valid range: 1:1.00 to 1:4.00, In 0.01 steps
 Sets the expansion ratio. For example a 1:2.0 expansion ratio means for every 1 dB below the expansion threshold the gain will be reduced 2dB.
- **EXP THRESH** (Expansion Threshold): Valid range: 0 to –96dB, in 1dB steps. Sets the threshold above which gain reduction occurs.
- REDUCE (Expander Gain Reduction): Valid range: 0 to –36dB, in 1dB steps.
 This sets the limit on the amount of gain reduction caused by the expander.
- **GAIN** (Make-up Gain): Valid range: 0 to 30dB, In 1dB steps.

 Gain is used to compensate for the gain reduction caused by the compressor. Because the compressor is reducing the gain (or level) of the signal, the ability to add a fixed amount of make-up gain at the output is provided so that an optimum level can be reached.

Zaxcom ZMT3 Flex Setup Menu

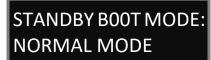
SETUP MENU

Test Tone



The ZMT3 Flex has an internal tone generator so the signal chain can be properly gain staged. From this menu pressing the INC key will turn on the tone generator pressing the INC key will cycle trough the different tone options (500Hz at -20, 1000Hz at -20 or 500Hz at full scale).

Standby Mode After Boot Up



This menu sets what power mode the ZMT3 Flex boots up to.

- **NORMAL MODE** The transmitter will boot up normally.
- REMOTE STANDBY The transmitter boots up in low power standby mode. The transmitter will be waiting
 for a ZaxNet "WAKE" command to come up to full power.

Key Lock On Boot Up

KEY LOCK ON BOOT: UNLOCKED

This menu sets what happens to the keys on the face of the ZMT3 Flex after boot-up.

- **LOCKED** After boot-up has completed, the transmitter will automatically go into lock mode and the keys will be locked to prevent accidental changes to the settings.
- **UNLOCKED** After boot-up the keys will remain unlocked. In unlocked mode the keys can still be locked going in to the lock screen in the main menu and wait 5 seconds.

To unlock the keys at any time - simultaneously press the MENU and INC key 5 times.

QRX / ERX Firmware Update



This page is used to update the firmware on a QRX or ERX receiver.

If the ZaxNet mode is set to OFF or receive (RX) this menu will allow for QRX firmware to be updated - if the ZaxNet mode is set to transmit (TX) then this menu will allow for ERX to be updated.

For complete update instructions see the FIRMWARE section in the back of this manual.

Zaxcom ZMT3 Flex Setup Menu

OLED Brightness Adjust

OLED BRIGHTNESS:

This setting adjusts the brightness of the OLED display. The brightness setting is from 0 to 3 with 3 being the brightness.

OLED Display Dim



This setting adjusts how long after the last key press the display will dim. The dim time can be set from 1 to 60 seconds in 1 second intervals.

Information Page



This page displays the current firmware version, the serial number, the DSP version, and the option code.

Hide Encryption Menu

ENCRYPTION MENU: DISPLAYED

This setting will hide the encryption menu. A hidden encryption menu allows for quicker navigation and prevents accidental changes.

- **HIDDEN** The encryption menu doesn't appear when cycling through the menu settings.
- **DISPLAYED** The encryption menu will appear.

Zaxcom ZMT3 Flex Setup Menu

Encryption Code Set

ID1: 000 ID2: 000

If an encryption code is set the transmitted audio will be encrypted and can only be listened to if the receiver has the matching encryption code entered. When receiving an audio signal and the codes do not match, all that will be heard is white-noise or silence. So if using encryption it is important to make sure the matching receiver has the same code.

These two sets of numbers are formed into a single six-digit encryption code which provides a total of 16,777,216 possible combinations.

Please note that both of these codes should be set to 000 for normal un-encrypted operations

Adjusting the encryption code

- 1. Momentarily press the MENU key to advance to the next character.
- 2. To change the designated character, press the INC or DEC key.
- 3. To exit this page, press and hold the MENU key for 1 second.

Hide Transmitter Name Menu



This setting will hide the name menu. A hidden name menu allows for quicker navigation and prevents accidental changes.

- HIDDEN The name menu doesn't appear when cycling through the menu settings.
- **DISPLAYED** The name menu will appear.

Transmitter Name Set

NAME: 1234 †

The transmitter name menu allows the transmitter to be named to be changed from the default name - which is the unit's serial number. The name entered becomes part of the name of the recorded audio files, and is also included in the metadata of the BWF file. Naming the unit aids in identifying the files from several different recorders.

The maximum name length is 8 characters. Any letter or number can be used. If desired a space can even be used.

To set/change the transmitter name:

- 1. Press the INC or DEC key to change the character in the current position above the arrow.
- 2. Press the MENU key to proceed to the next character.
- 3. When finished, press and hold the MENU key to set the name.

Zaxcom ZMT3 Flex Recording Media

Media

While any size card will work in the ZMT3 Flex transmitter we recommend using a 4GB Micro SD card. We also recommend only buying a brand name card such as Transcend, SanDisk.

Please note Transcend Premium cards with the red stripe are not recommended.

And very importantly please buy all cards from a reputable dealer because counterfeit cards exist and can cause recording issues.

We also highly recommend that the all cards are tested before taking them out into the field.

Here is a simple testing procedure to determine if the card will function correctly:

- 1. Format the card in the transmitter.
- 2. Power cycle the transmitter.
- 3. Record at least 20 minutes of audio to the card with no time code source.
- 4. Look at the Main Screen it should still be recording in segment #1.
- 5. Playback and listen to the file.

Media Capacity

The ZMT3 Flex can use Micro SD cards, up to 16 GB. While any size card will work we recommend using 4GB cards. All cards that are used in the ZMT3 Flex must be formatted in a 3 series transmitter to work properly; cards formatted in any other series transmitter will not record properly. Please note that regardless of the size of the card the onboard recorder will only be able to record up to 500 individual segments on any given card.

Available recording times depend on the selected modulation and are as follows:

SD Card Size	Available Record Time Mono	Available Record Time XR / ZHD
512 MB	3 hours	6.75 hours
1 GB	6 hours	13.5 hours
2 GB	12 hours	27 hours
4 GB	24 hours	54 hours
8 GB	48 hours	108 hours
16 GB	96 hours	216 hours

Please note the transmitter will **NOT** record onto the card if:

- The card was not inserted before the ZMT3 Flex booted up.
- If the card was removed while the power was on.
- If LOW BATTERY is being displayed.

Recording Format

The media card is formatted using a FAT32 file system. While recording, the unit places all recorded audio in a single file on the media. The files generated by the recorder (.zax format) can only be recognized by Zaxcom's ZaxConvert program. Using ZaxConvert will transfer the file to a Broadcast Wave or MP3 file. ZaxConvert is available to anyone for free from the Zaxcom website http://www.zaxcom.com/support/updates/

Zaxcom ZMT3 Flex Wiring Diagrams

Firmware

Each unit is shipped with the latest firmware version installed. As newer firmware becomes available it can be downloaded from the Zaxcom website:

http://www.zaxcom.com/support/updates/

Newer version of beta firmware may be found on the Zaxcom Forums:

http://www.zaxcom.com/forum

It is recommended to keep a copy of the "SNXXXX.ME" file for each transmitter. The SNXXXX.ME file contains the setup parameters of that specific transmitter - so in the event that there is a problem with the transmitter and the settings get corrupt the SNXXXX.ME file can be used to recreate the setting for that transmitter. To copy and save the SNXXXX.ME files simply format a card in each transmitter then copy and archive the SNXXXX.ME files to a computer.

Updating the ZMT3 Flex firmware

- 1. Format a micro SD card in the transmitter.
- 2. Remove the card and with a computer delete the "SNXXXX.ME" file.
- 3. Download the ZMT3 Flex firmware "ZMT-XXX.bin" from the Zaxcom website and copy it onto the formatted card.
- 4. Power down the ZMT3 Flex and insert the card into the transmitter.
- 5. Simultaneously hold down the INC and DEC keys while powering up the unit.
- 6. The screen will display "BURN ROM" with the version of firmware that is loading.
- 7. From power up to "DONE" will take about 30 seconds.
- 8. Upon completion, cycle the power and confirm that the transmitter is running the new firmware.

WARNING: Before updating the firmware be sure to insert a fresh battery and do not power down the unit during the update process, if the unit should lose power during the upgrade, it may need to be sent back to Zaxcom for repair.

Updating ERX firmware with a ZMT3 Flex transmitter

- 1. From the ZaxNet menu set ZaxNet mode to transmit (TX).
- 2. Check that the ERX is set to the same ZaxNet frequency that the ZMT3 Flex is set to transmit on. Check that the GROUP ID is set the same in both the ZMT3 Flex and ERX, and make sure encryption is shut off.
- 3. Format a micro SD card in ZMT3 Flex transmitter.
- 4. Remove the card, and with a computer delete the "SNXXXX.ME" file.
- 5. Download the ERX firmware "ERX-XXX.bin" from the Zaxcom website and copy it onto the formatted card.
- 6. Insert the card into the transmitter.
- 7. Proceed to the SETUP MENU and select PRESS UP TO SEND ERX PROG FILE
- 8. From the firmware update menu on the ERX press the INC key 5 times to see WAITING FOR PROGRAM.
- 9. Press the INC key on the transmitter to trigger the update process.
- 10. The ERX should indicate its progress after a few seconds.
- 11. When the ERX has been updated the screen will display "SUCCESS".

WARNING: Before updating the firmware be sure to insert a fresh battery and do not power down the unit during the update process, if the unit should lose power during the upgrade, it may need to be sent back to Zaxcom for repair.

Zaxcom ZMT3 Flex Wiring Diagrams

Updating QRX firmware with a ZMT3 Flex transmitter

- 1. Format a micro SD card in a ZMT3 Flex transmitter.
- 2. With a computer take the formatted card and perform the following:
 - Delete the "SNXXXX.ME" file from the card.
 - Download the new QRX firmware and load it into the card. (QR2-XXX.BIN)
- 3. Insert the card and a fresh battery in the transmitter.
- 4. At the QRX:
 - Verify the QRX is set to single mode and modulation is set to mono.
 - Verify encryption is off (ID1 and ID0 are both set to 000)
 - Set the UHF Frequency to the same frequency as the programming transmitter.
 - The QRX receiver status LEDs should both be green.
 - From the extended menu go to the firmware update page and press the INC key.
 - The screen will display waiting for program. This indicates the receiver is ready to download the new firmware. This can be done to several QRXs so they will be updated at the same time.
- 5. At the transmitter proceed to the setup menu proceed to the firmware update menu (see manual) and press the INC key.
- 6. Each QRX should indicate it is receiving the program.
- 7. After the firmware send cycle, all of the receivers should be re-programmed and "SUCCESS . . . REBOOT NOW" will be displayed. If there was a reception error, the affected receiver will automatically restart the process with the start of the next send cycle.
- 8. Reboot the QRX and verify the QRX is running the new firmware version.

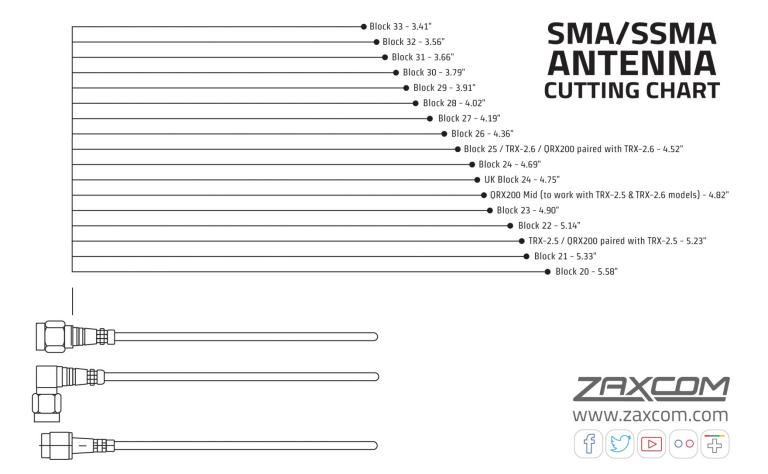
WARNING: After the QRX has received its entire program, it will erase and burn its firmware into the ROM. During this process, which only takes a few seconds, you **MUST NOT** turn 'OFF' the QRX. If the program is never fully received, it is safe to cycle the power.

Operating Frequencies

ZaxNet - Remote Control and Time Code 2.403 to 2.475 GHz

UHF - Audio

ZMT3.5 512.0 MHz to 614.0 MHz (Blocks 20 through 23) ZMT3.6 596.0 MHz to 698.0 MHz (Blocks 23 through 26)



Zaxcom ZMT3 Flex Support

Product Support

Register your product with Zaxcom: http://zaxcom.com/support/product-registration/

Download the latest **Firmware** from: http://zaxcom.com/support/updates/
Download the latest **User Manuals** from: http://zaxcom.com/support/updates/

Submit Technical Questions at: http://www.zaxcom.com/submit-a-technical-question

Submit information for **Repair Services** at: http://www.zaxcom.com/support/repairs
Join the **Zaxcom User Forum** at: http://www.zaxcom.com/forum/forum.php

Join the Zaxcom Face Book User Group at: https://www.facebook.com/groups/682199065139938/

Zaxcom ZMT3 Flex Specifications

Specifications

Transmitter

Power output: 25 / 50 / 75 mW – Firmware Selectable

RF Modulation: Proprietary Digital Method

RF Frequency Step: 100 KHz

RF Bandwith in ZHD48 Mode: 100 KHz RF Bandwith in ZHD96 Mode: 200 KHz RF Bandwith in XR Mode: 400 KHz

RF Frequency Range: ZMT3.5 Flex: 512 - 614 MHz

ZMT3.6 Flex: 596 -698 MHz

Antenna Connector: 50 Ω SSMA Female

Emission Designator: 180 KV2E, 100 KV2E, 50 KV2E

FCC Part: 74.861

Audio

Dynamic Range - Mono: 128dB Stereo: 108dB

Mic input Impedance: 6.8 k Ohms

Distortion: 0.002%

Frequency Response: Mode 0: 20 Hz to 16 kHz

Microphone Power 3.3V Mic Connector: Microdot X 2 Input Range: -60 to -30 dBu ADC Bit-Depth: 24 Bits ADC Sampling Rate: 48kHz

Time code Reader/Generator

Clock Accuracy: 1.54PPM (1 Frame Out in 6 Hours)

Time code Type: SMPTE

Time code Frame Rates: 23.98, 24, 25, 29.97NDF, 29.97DF, 30NDF, 30DF

Recording

Media: Micro SD Card (Flash Memory)
File Format: .ZAX convertible to BWAV, MP3
Recording Time: Up to 216 Hours (16 GB card)

2.4 GHz ZaxNet Receiver

RF Frequency Range: 2.403 to 2.475 GHz RF Modulation: Digital Spread Spectrum RF Frequency Step: 0.001 GHz (1 MHz)

RF Bandwidth: 1 MHz Channel Separation: 2 MHz

Sensitivity: -96 dBm

Physical

Weight: 3 ounces (85 grams) with battery

Dimensions (H x W x D): 4.8 X 1.7 X .4 inches (121.9 X 43.1 X 10.1 mm)

Display: Graphic OLED

Battery Type: Li-Ion 1300mAH

Runtime: Up to 6 Hours (with 24 hours of standby)

All Specifications are subject to change without notice.

Zaxcom Warranty Policy and Limitations

Zaxcom Inc. values your business and always attempts to provide you with the very best service.

No limited warranty is provided by Zaxcom unless your ZMT3 Flex ("Product") was purchased from an authorized distributer or authorized reseller. Distributers may sell Product to resellers who then sell Product to end users. Please see below for warranty information or obtaining service. No warranty service is provided unless the Product is returned to Zaxcom Inc. or a Zaxcom dealer in the region where the Product was first shipped by Zaxcom.

Warranty Policy

The Product carries a Standard Warranty Period of one (1) year.

NOTE: The warranty period commences from the date of delivery from the Zaxcom dealer or reseller to the end user.

There are no warranties which extend beyond the face of the Zaxcom limited warranty. Zaxcom disclaims all other warranties, express or implied, regarding the Product, including any implied warranties of merchantability, fitness for a particular purpose or non-infringement. In the United States, some laws do not allow the exclusion of the implied warranties.

Troubleshooting & Repair Services

No Product should be returned to Zaxcom without first going through some basic troubleshooting steps with the dealer you purchased your gear from.

To return a product for repair service, go to the Zaxcom Repair Services page http://www.zaxcom.com/repairs and fill in your information; there is no need to call the factory for an RMA. Then send your item(s) securely packed (in the original packaging or a suitable substitute) to the address that was returned on the Repair Services page. Insure the package, as we cannot be held responsible for what the shipper does.

Zaxcom will return the warranty repaired item(s) via two-day delivery within the United States at their discretion. If overnight service is required, a FedEx or UPS account number must be provided to Zaxcom to cover the shipping charges.

*Please note a great resource to troubleshoot your gear is the Zaxcom Forum: http://www.zaxcom.com/forum.

Warranty Limitations

Zaxcom's limited warranty provides that, subject to the following limitations, each Product will be free from defects in material and workmanship and will conform to Zaxcom's specification for the particular Product.

Limitation of Remedies

Your exclusive remedy for any defective Product is limited to the repair or replacement of the defective Product.

Zaxcom may elect which remedy or combination of remedies to provide in its sole discretion. Zaxcom shall have a reasonable time after determining that a defective Product exists to repair or replace a defective Product. Zaxcom's replacement Product under its limited warranty will be manufactured from new and serviceable used parts. Zaxcom's warranty applies to repaired or replaced Product for the balance of the applicable period of the original warranty or thirty days from the date of shipment of a repaired or replaced Product, whichever is longer.

Limitation of Damages

Zaxcom's entire liability for any defective Product shall, in no event, exceed the purchase price for the defective Product. This limitation applies even if Zaxcom cannot or does not repair or replace any defective Product and your exclusive remedy fails of its essential purpose.

No Consequential or Other Damages

Zaxcom has no liability for general, consequential, incidental or special damages. These include loss of recorded data, the cost of recovery of lost data, lost profits and the cost of the installation or removal of any Product, the installation of replacement Product, and any inspection, testing or redesign caused by any defect or by the repair or replacement of Product arising from a defect in any Product.

In the United States, some states do not allow exclusion or limitation of incidental or consequential damages, so the limitations above may not apply to you. This warranty gives you specific legal rights and you may also have other rights, which vary from state to state.

Your Use of the Product

Zaxcom will have no liability for any Product returned if Zaxcom determines that:

- The product was stolen.
- · The asserted defect.
- Is not present.
- Cannot reasonably be fixed because of damage occurring when the product is in the possession of someone other than Zaxcom, or Is attributable to misuse, improper installation, alteration, including removing or obliterating labels and opening or removing external covers (unless authorized to do so by Zaxcom or an authorized Service Center), accident or mishandling while in the possession of someone other than Zaxcom.
- The Product was not sold to you as new.

Additional Limitations on Warranty

Zaxcom's warranty does not cover Product, which has been received improperly packaged, altered or physically abused.

NOTICE:

Most users do not need a license to operate a wireless microphone system. Nevertheless, operating a microphone system without a license is subject to certain restrictions:

- the system may not cause harmful interference,
- it must operate at a low power level (not in excess of 50 milliwatts),
- it has no protection from interference received from any other device.

Purchasers should also be aware that the FCC is currently evaluating the use of wireless microphone systems, and these rules are subject to change. For more information, call the FCC at 1-888-CALL-FCC (TTY: 1-888-TELL-FCC) or visit the FCC's wireless microphone website at: www.fcc.gov/cgb/wirelessmicrophones To operate wireless microphone systems transmitting with greater than 50mW of radiated power, you must qualify as a Part 74 user and be licensed.

This alert does **NOT** apply to Part 74 users

RF Exposure:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment is in direct contact with the body of the user under normal operating conditions. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

This radio transmitter and 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.

Quarter Wave Whip Antenna, 5.19dBi gain, 50 Ohms

This device complies with Industry Canada license-exempt RSS standard(s). 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 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."

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

Le présent émetteur radio (PR6-XRT) 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.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. 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.

"Cet appareil fonctionne sur une base sans protection, sans interférence. Si l'utilisateur cherche à obtenir une protection contre d'autres services de radio fonctionnant dans les mêmes bandes de télévision, une licence radio est requise. Pour de plus amples renseignements, veuillez consulter le document CPC-2-1-28, Procédures à l'intention des clients, intitulé Procédures à l'intention des clients, intitulé «Licence volontaire d'appareils radio à faible puissance exempts de licence dans les bandes de télévision»

USA - FCC Part 74, FCC Identifier PR6ZMT3 Canada - Industry Canada RSS 210, IC:12755A-ZMT3

Zaxcom Digital Wireless are protected under following patent #'s: 4,327,066 / 7,711,443 / 7,929,902 / 8,385,814 / 8,878,708 / 8,842,854



Declaration of Conformity

ZAXCOM, INC. 230 West Parkway, Unit 9 Pompton Plains, NJ 07444 September 1, 2019

We certify and declare under our sole responsibility that the following product:

TRXLA3, TRX743, TRXFB3, TRX9CL3, ZMT3, ZMT3-P2, ZMT3-Flex, ZMT3-X, ZMT3-HH and ZMT3-HM wireless microphone transmitters

Restrictive use for residential, office and professional use only

Conforms with the essential requirements of the EMC Directive 2004/108/EC and R&TTE Directive 99/5/EC, based on the following specifications applied:

EN 300 422-2 v1.3.1 Radio Parameters

EN 301 489-9 v1.4.1 Immunity

EN 60950: 2006/A1:2011 Product Safety (low voltage directive)

EN 50566: 2013 RF Exposure Safety

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Our authorized representative in Europe is Mr. Roger Patel, Director of Everything Audio located at Elstree FIIm Studios, Shenley Road, Borehamwood, Herts WD61JG in England.

Glenn Sanders

President

Zaxcom, Inc.