# MB7TW

Wythall Radio Club SSTV Repeater

# WHO HAS THIS MAD IDEA?

- Neil – G1TZC

- The idea was put to the committee

- Then to the club members

# SO WHY A SSTV REPEATER?

- From the user side, this is a quite simple mode to get on to.

- From the Club side we had a spare VHF antenna.

- We had a donated radio.

- We had a donated PC.

- So, what's not to like?

# A BRIEF HISTORY

- Copthorne Macdonald introduced the idea of SSTV is 1957.

- He developed a system using 120 lines, 120 pixels per line.

- This would be black and white still pictures.

- The transmission would be 3KHz wide.

- Interesting fact……

# INTERESTING FACT

THE FIRST TRANSMISSIONS WERE ON THE 11M BAND, WHICH EVENTUALLY BECAME CB.

OK MAYBE IT WASN'T THAT INTERESTING!

# EARLY USAGE

SSTV was used to transmit images from the far side of the Moon

Warning – satellite bit coming up!

Luna 3 (AKA E-2A No1) was a Soviet craft launched in 1959 that used SSTV

For anyone knows Russian - Луна 3 (yes I can confirm that it does read as Luna
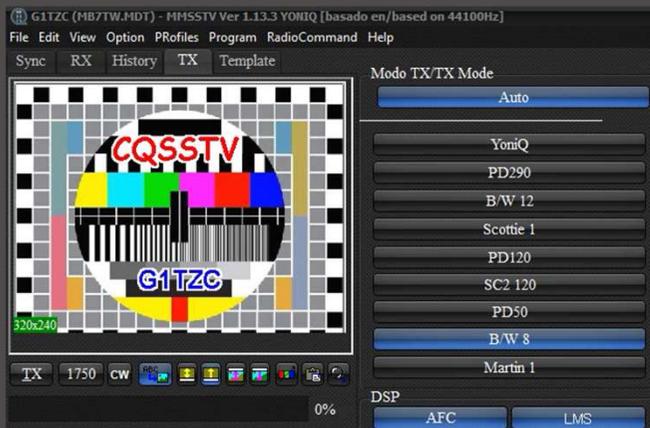
Я не знаю русский язык

# WHATS CHANGED ON SSTV

- Not very much really.

- A few new modes.

- Colour as well as black and white.

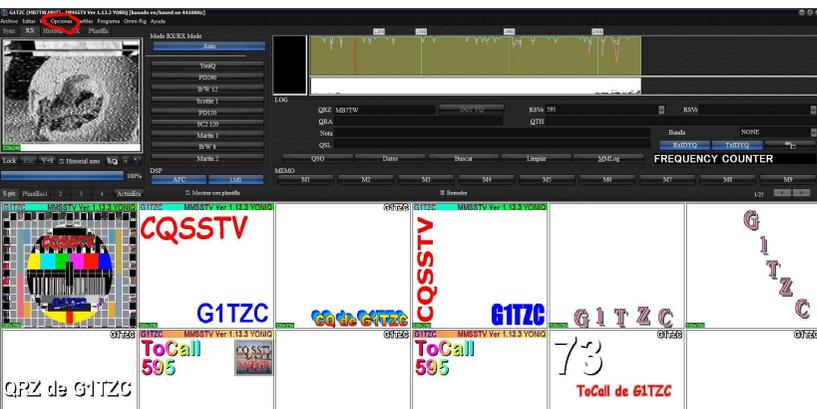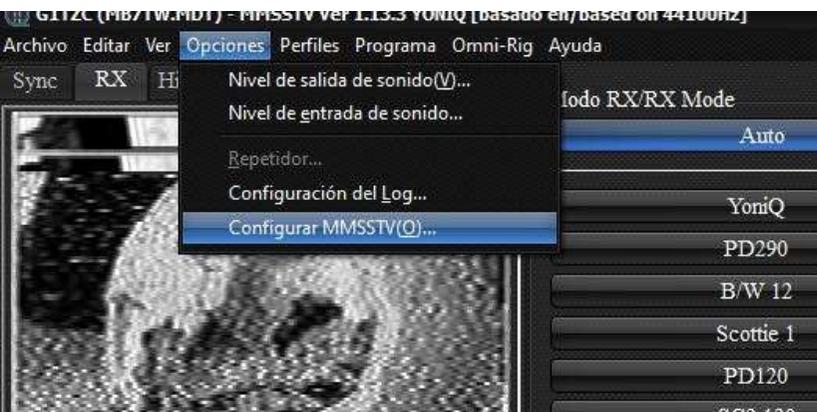- Best bit – real backward compatibility.

# PROOF NEEDED?

- Let's start with the basics.

- You choose a picture.

- You transmit.

# WHAT EQUIPMENT IS NEEDED?

- A radio that can receive on 144.500MHz.

- Some software – Yoniq/MMSSTV is a simple to set up system.

- A bit of time to get the hang of it.
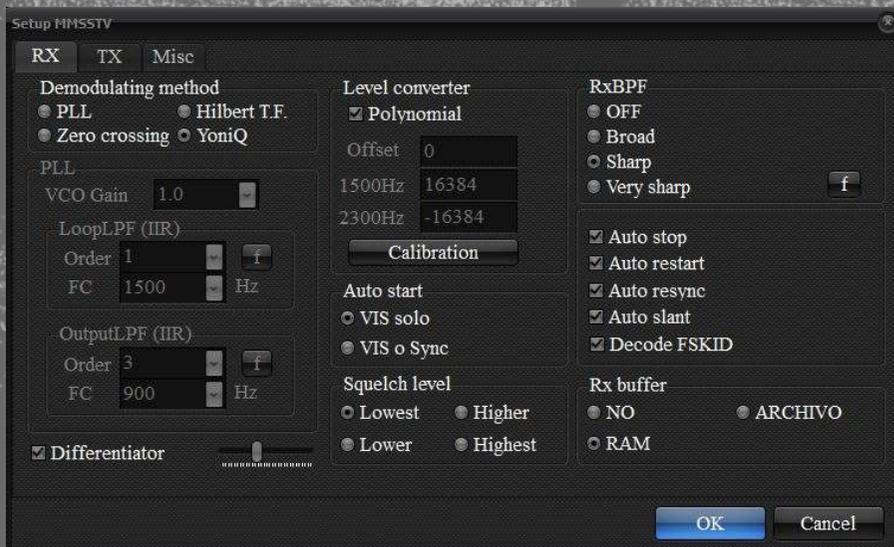
- OK, time to do the step by step guide of YONIQ
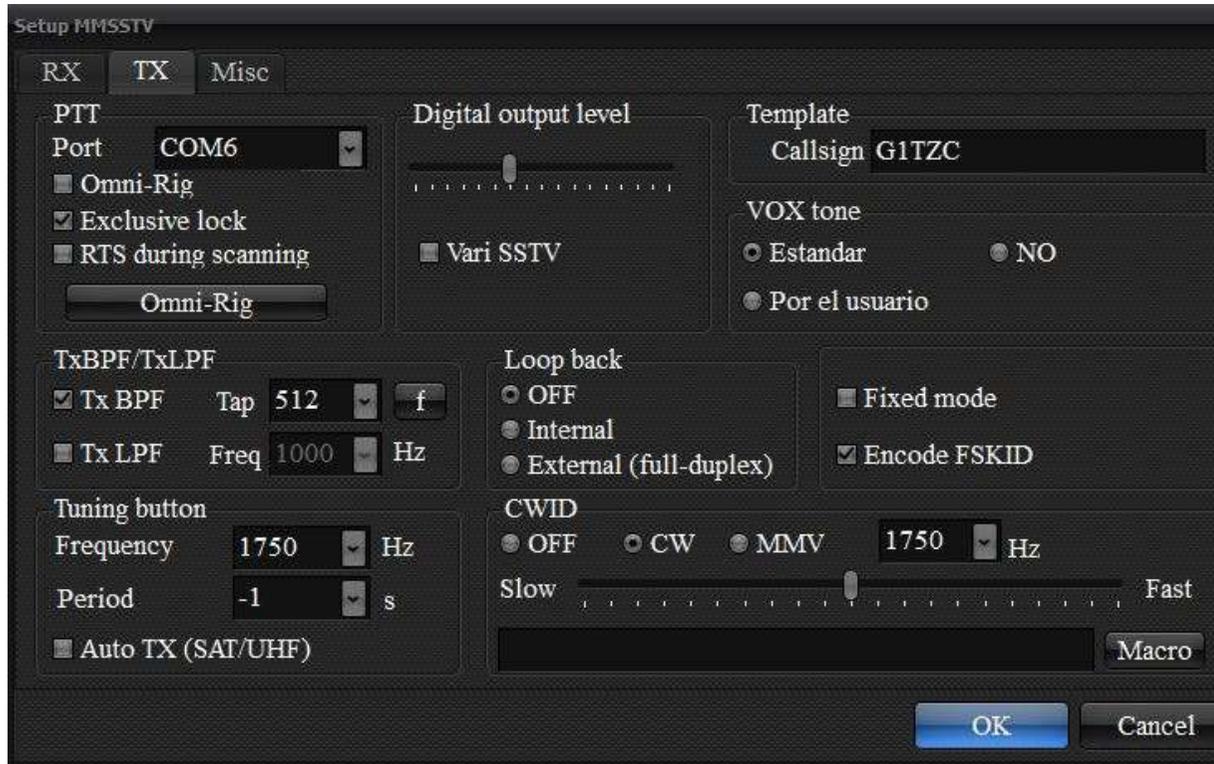
# YONIQ — BIENVENIDO (STAGE 1)

- First, let's change the language.
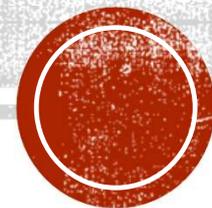
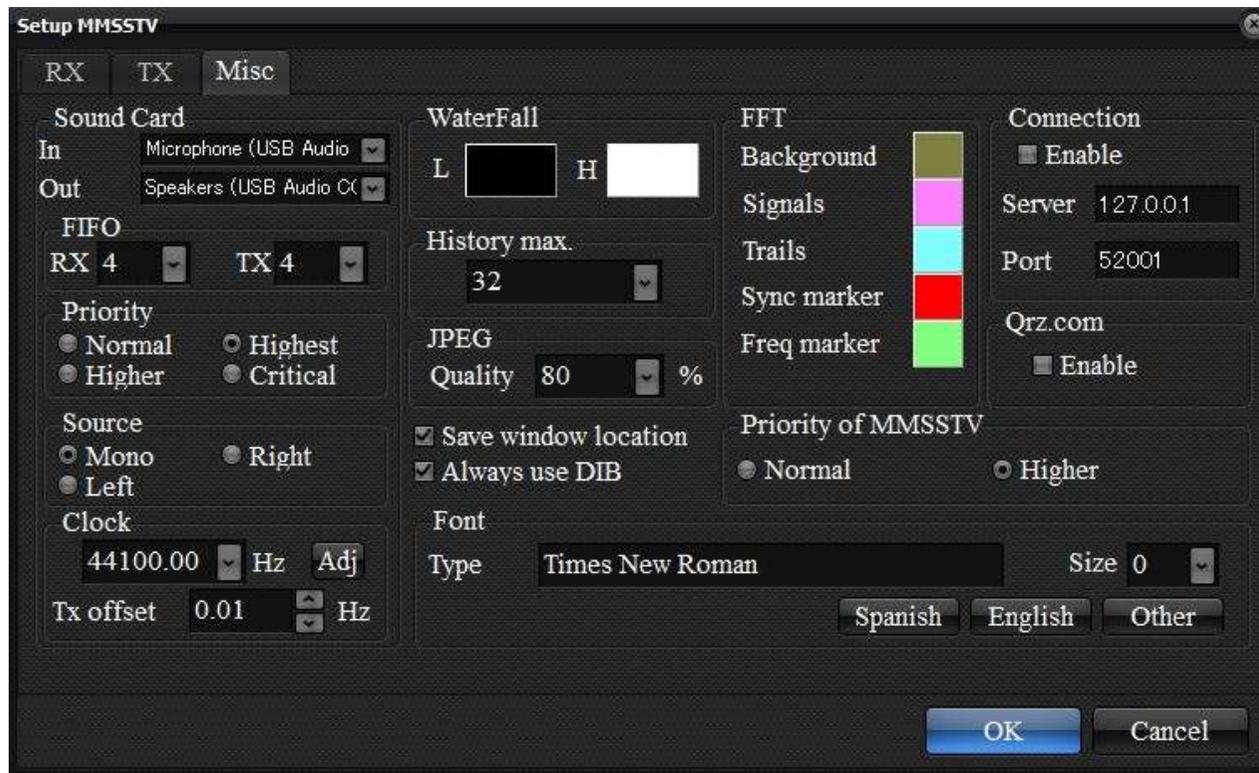# YONIQ — STAGE 2



- Not much to do here

YONIQ — STAGE 3

Stuff you need for transmitting

# YONIQ – STAGE 4

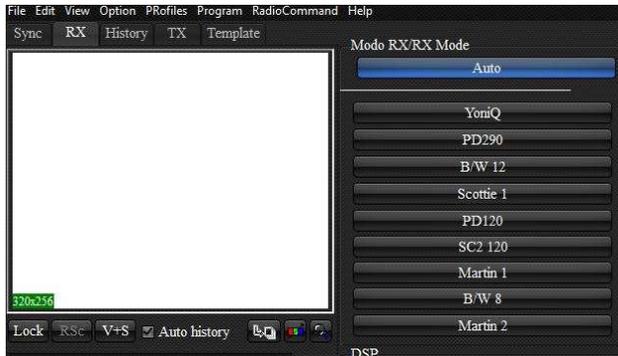- Misc setting – very important stuff

# READY FOR LIFTOFF

- Now what?

- Lets get back to MB7TW.

- 144.500MHz Simplex

- The repeater is store and forward, so you transmit and receive on the same frequency.
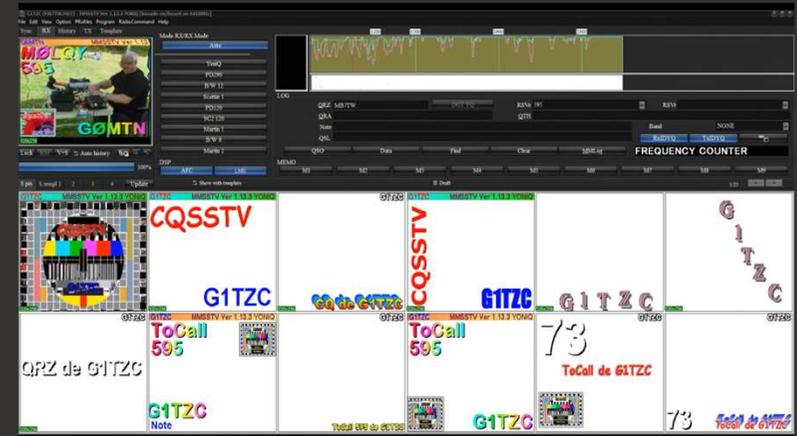
# YONIQ - RECEIVE



- Click on the RX tab and you should have a white receive box

- Wait a while on MB7TW and it should beacon.

- Depending on the mode being sent this will be

- Black and white – fast load times, low resolution

- Colour – slower load times but much better resolution

# LETS PUT THAT ALL TOGETHER



- Lets sum up
- Yoniq / MMSSTV allows
- RX
- TX
- Added extras like
- History of incoming frames
- Templates for transmit
- Easy picture drag and drop for TX

# MB7TW
# YOUR SSTV REPEATER

THANK YOU FOR YOUR TIME TODAY.

LOOK FORWARD TO SEEING YOU ON YOUR FIRST STEP TOWARD TELEVISION

NEXT STOP – DATV (BUT THAT'S ANOTHER STORY)