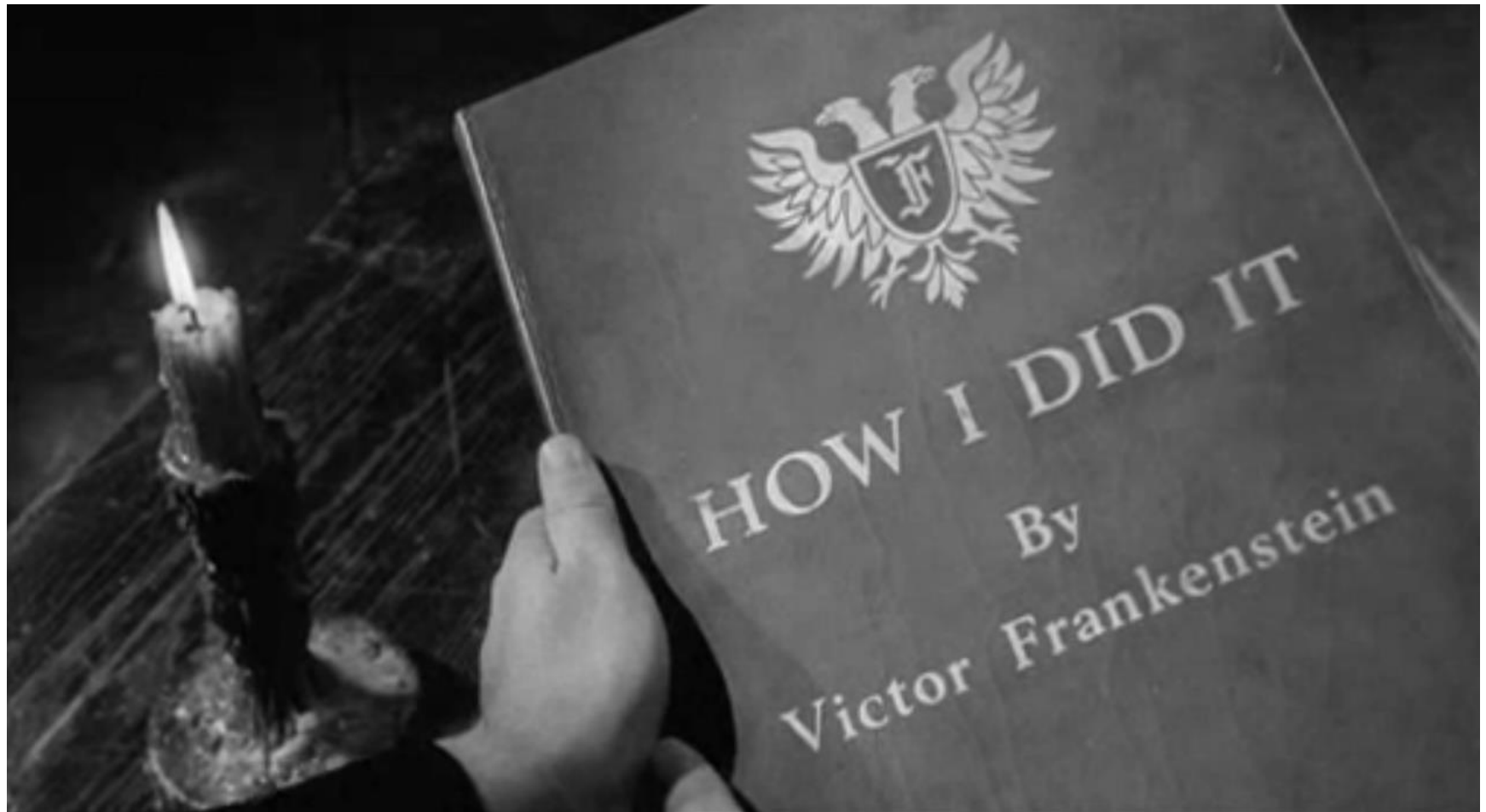


# **Winning RTTY** **or** **“How I Did It”**

**Presented by**  
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**2013 Contest Academy**

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# Everything I know...

- **N6HC Arnie taught me how to set up my RTTY station for the first time.**
- **AA5AU's excellent contest writeups taught me RTTY contest strategy**
- **W0YK advanced contesting tutorials taught me how best to set up a station**
- **You should listen to these guys!**

# Today's plan

- **Review FSK and AFSK**
- **Station equipment and setup**
- **S02V**
- **Decoder options**
- **Operating**
- **“Elements of RTTY Style”**

# FSK vs AFSK

- Each has pros and cons - elaborate
- FSK is usually recommended, but it can have “key click” issues without wave shaping
- Depending on your rig, AFSK may be cleaner IF you set it up correctly
- AFSK can allow you to choose the tone pitch, the 170Hz shift is what matters

# W7RN Operating Position

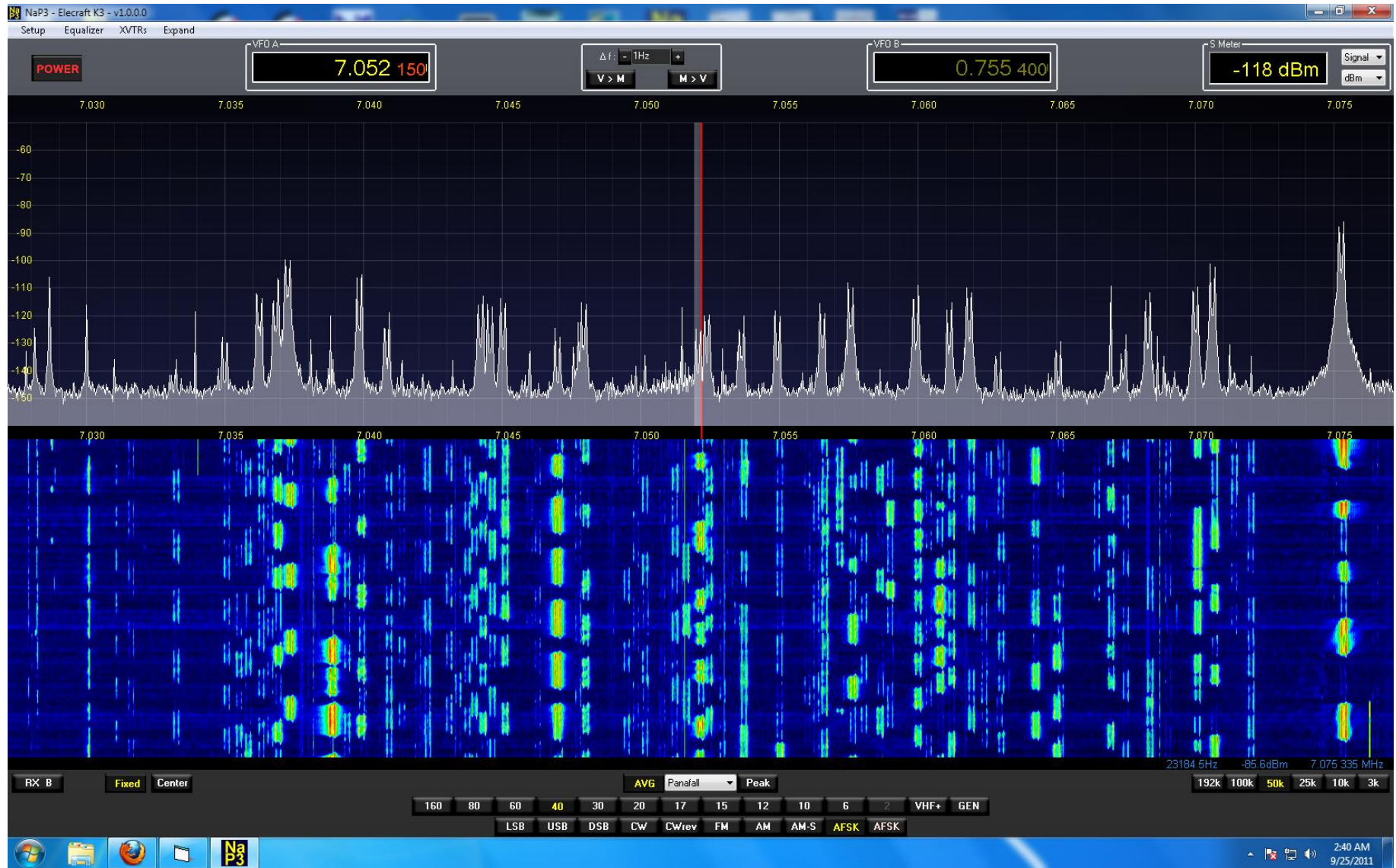


# **Elecraft K3 & P3 Panadapter**

- **Making best use of the Panadapter**
- **What is the display telling you?**
- **What does it tell you about the Band?**
- **What does it tell you about a signal?**

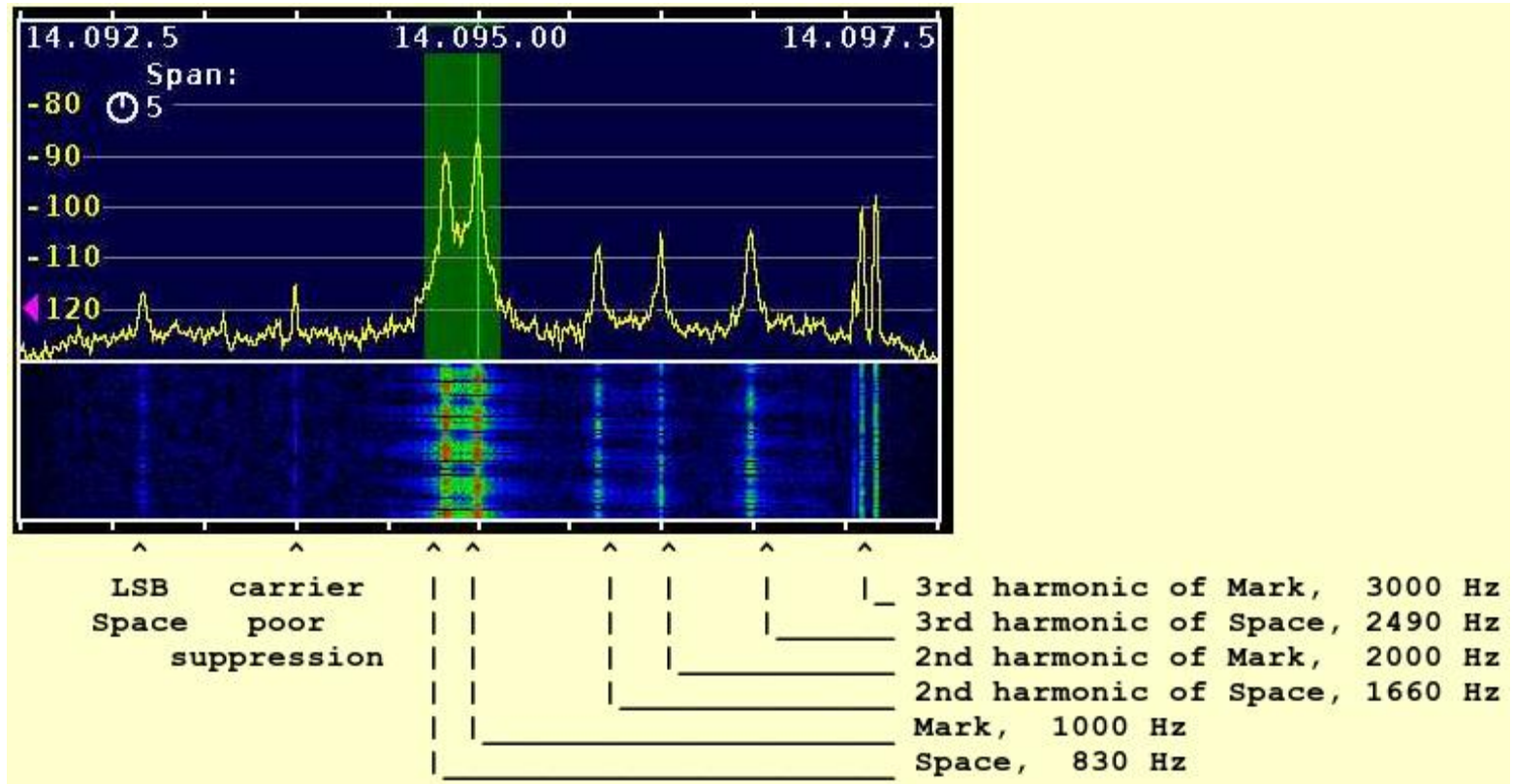


# Panadapter Multiple RTTY Signals





# Panadapter Single RTTY Signal



Thanks to W1HKJ

# S02R - How many computers?

- Pros and cons of one vs many
- Reducing movement
- where da mice go?



W5AJ at P40P

**Contest Academy**

# N1MM Two Entry Windows

The screenshot displays the N1MM software interface with the following components:

- Electcraft K3 VFO A:** Shows frequency 14082.87, mode SH/DX, and a frequency scale from 14050 to 14110. Call signs like IL7NDR 37° and US4IPC 24° are visible.
- Mults Table:** A table showing multipliers and Qs for different call signs.
- RTTY Engine 1 & 2:** Two windows for RTTY decoding, showing Letters/Figs, MouseOver, and various control buttons like TX, RX, AFC, HAM, Grab, and CLR.
- Info - N7AT - Exch: 59 03 AZ:** A window showing station information and a table of Qs.
- 14082.87 AFSK Elecraft K3 VFO A:** A window showing the current frequency and mode.
- 14092.51 AFSK Elecraft K3 VFO B:** A window showing the current frequency and mode.
- Score - 0 Points:** A small window showing the current score and various statistics.

# Writelog Two Entry Lines

The screenshot shows the WriteLog software interface with the following components:

- Main Window (iaru98.wl - WriteLog):**
  - Log List:**
    - 160M CW New Zone
    - 80M CW OK
    - 40M CW OK
    - 20M CW 2110 0940Z G3PYM 599 27
    - 15M CW OK
    - 10M CW New Zone
  - Radio Section:**
    - Radio:** 14018 KHz CW
    - 21000 KHz CW**
  - Log Table:**

SEQ	TIME	FREQ	CALL	SNT	RST	ZONE	P	ZM
2105	0937	14018	SM6CDN	599	599	18	5	
2106	0937	14018	K8AZ	599	599	8	1	
2107	0938	14018	HB9NL	599	599	28	5	
2108	0939	14018	DK0LT	599	599	28	5	
2109	0939	14018	WK2G	599	599	8	1	
2110	0940	14018	G3PYM	599	599	27	5	
- Beam Headings:**
  - England
  - Distance: 3324
  - Direction: 53
  - Sunset: 20:15Z
  - Sunrise: 03:57Z
  - 61 last 7 min
  - 57 last 105 min
- Bandmap:** Shows a frequency scale with a green line at 14010 and a red triangle pointing to G3PYM.
- Band Summary:**

	QSO	PTS	ZN	HQ
Score: 1,920,420				
160M CW	31	63	10	6
80M CW	139	395	19	17
40M CW	476	1782	29	23
20M CW	729	3113	29	24
15M CW	693	3029	36	23
10M CW	34	78	6	5
<b>Total</b>	<b>2102</b>	<b>8460</b>	<b>129</b>	<b>98</b>



# Your friend, the keyboard

- hot key positions
- hot key setup in writelog
- the little microsoft keyboard



# **S02V – using both receivers**

- **Why on earth would you want to do this?**
- **With a K3 they are switched automatically to be main/sub as needed.**
- **It's also possible in N1MM...**



# Decoding that noise

- **MMTTY – the new “old reliable”**
- **2Tone – the new kid (why is it better)**
- **Hardware decoders still rock**



# Operating notes

- **Dual CQ**
- **Leapfrog S&P**
- **Listening to the tweedles – tone pitch, error detection**
- **Beat the pileup – the tail end**
- **Stacking calls – “NOW”**
- **DE?**
- **click and win!**

# Elements of RTTY Style

- **My opinion of good contest messaging**
- **There are many ways to get your exchange across, but...**
- **If you are serious about winning, consider these style tips...**

# Elements of RTTY Style

- Newline for CQ, exchange, TU
- Space on the end
- How many times to repeat info
- DE
- "W9XXX AL IN DE W9XXX"
- "TU VY 73 88 GL KB..."
- 5NN-5NN-5NN-03 03 03
- The exchange blast

# Resources

- Contact me at [wk6i.jeff@gmail.com](mailto:wk6i.jeff@gmail.com)
- [rttycontesting.com](http://rttycontesting.com)
- [writelog.com](http://writelog.com)
- RTTY email reflector: [RTTY@contesting.com](mailto:RTTY@contesting.com)
- [w7ay.net](http://w7ay.net)

# Questions?