

May 15, 2025 Tropo Opening across the Gulf

W5LUA

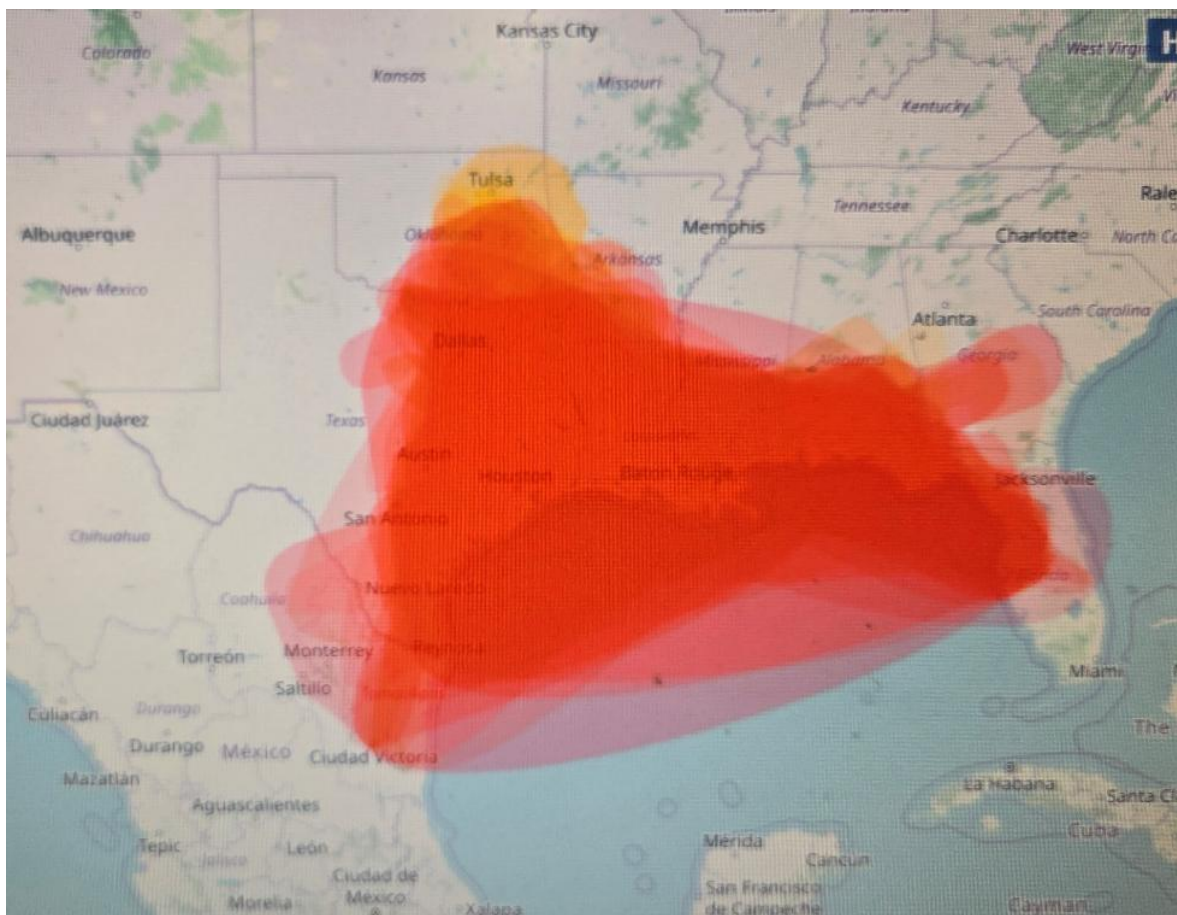
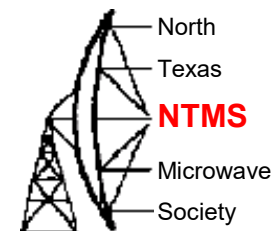
With additional information from
WB4OMG, W4ERP & K4VJ

First presented June 14, 2025

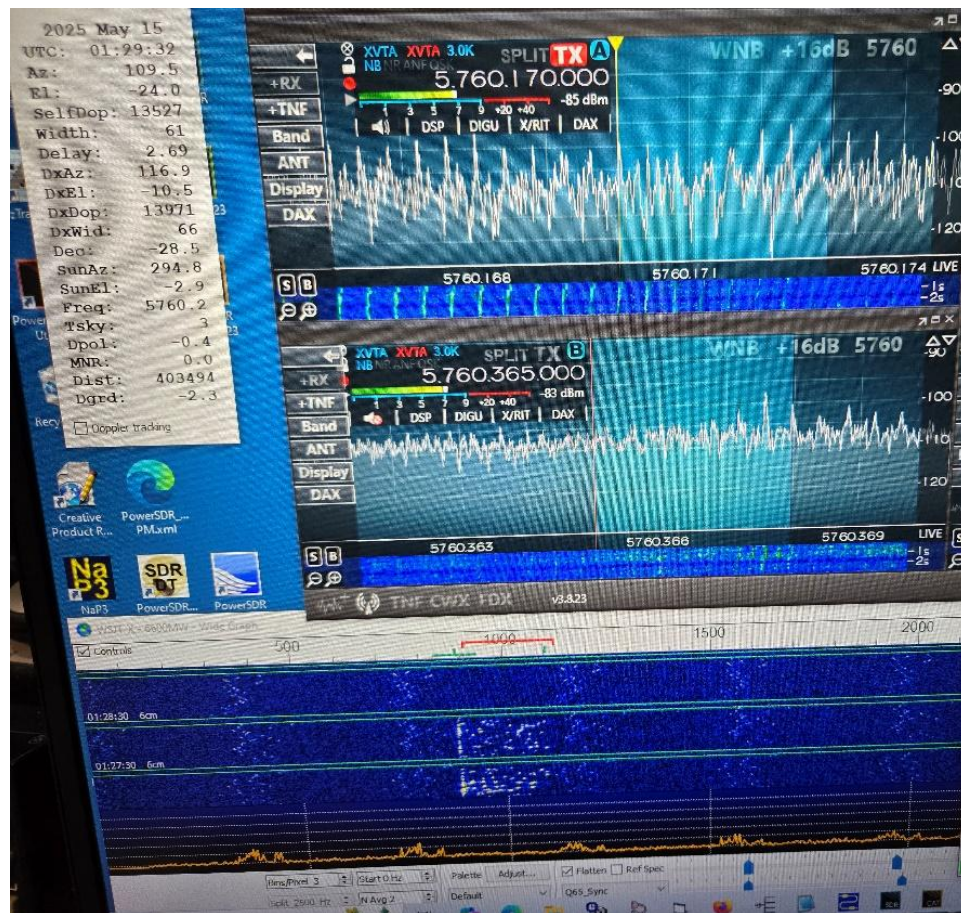
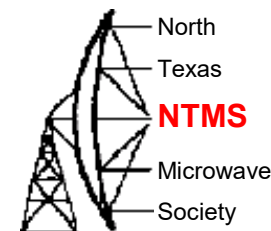
Presented at Cowtown on Jan 17, 2026

<https://vhf.dxview.org/>

Morning of May 15, 2025



Aiming at 107 degrees from EM13qc to Buddy WB4OMG



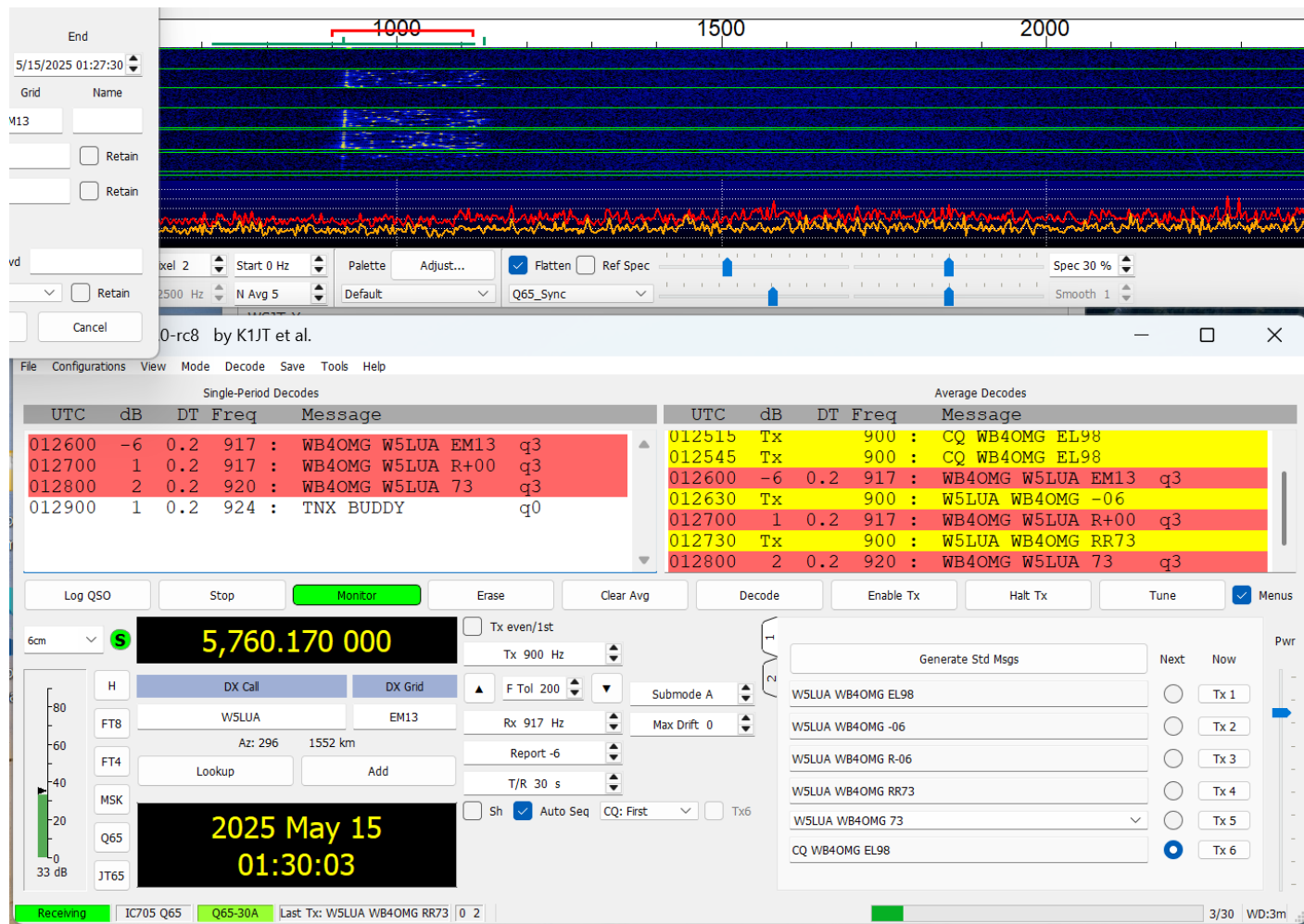
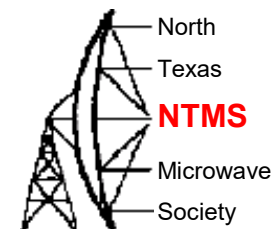
Buddy's station
 100 watt Kuhne SSPA
 Laird GD 58-22 BBQ Grill Dish
 95 ft 5/8" Heliax

My station
 150 watt SSPA in shack
 ~ 35 ft WR-137 rigid and flex waveguide
 30 inch dish at 6 ft aimed straight up
 to a stop sign flyswatter at 60 ft on side
 of a rotating Rohn 45 tower

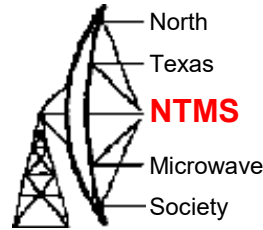
I chose Q65-30A to fit his signal in
 between my spurs on 5760

DX 1509 km (936 miles)

5760 MHz QSO with WB4OMG

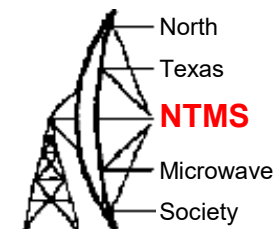


WB4OMG Antennas with Laird GD58-22 Dish for 5760 MHz



Picture courtesy of WB4OMG

Laird Technologies GD5x



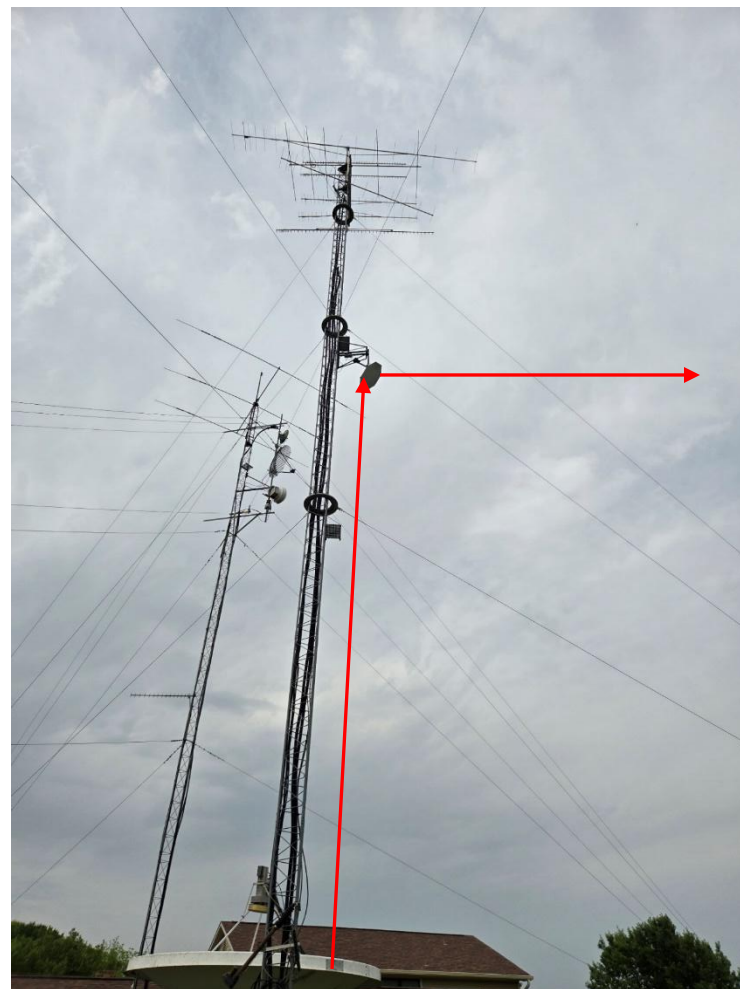
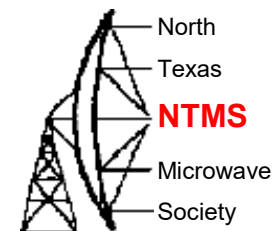
WB4OMG



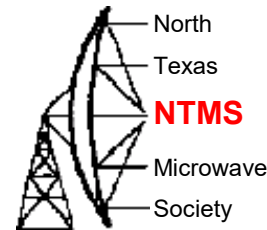
SPECIFICATIONS

PARAMETER	GD5x-21	GD58-22	GD5x-25	GD58-26	GD5x-28	GD58-29
Frequency range	GD57-21 5470-5725 MHz	5725-5850 MHz	GD57-25 5470-5725 MHz	5725-5850 MHz	GD57-28 5470-5725 MHz	5725-5850 MHz
	GD53-21		GD53-25		GD53-28	
	5150-5350 MHz		5150-5350 MHz		5150-5350 MHz	
Gain	21 dBi	22 dBi	25 dBi	26 dBi	28 dBi	29 dBi
Horizontal beamwidth	10°		6°		4°	
Vertical beamwidth	11°		6°		6°	
Front to back	25 dB		30 dB		25 dB	
VSWR	1.5:1		1.5:1		1.5:1	
Impedance	50 ohm		50 ohm		50 ohm	
Input power	100 watts		100 watts		100 watts	
Operating temperature	-40° to +70°C		-40° to +70°C		-40° to +70°C	
Pole size	1" to 2" (25 to 50 mm))		1" to 2" (25 to 50 mm))		1" to 2" (25 to 50 mm))	
Weight	3 lbs (1.4 kg)		6 lbs (2.7 kg)		11 lbs (5 kg)	
Dimension (W x L)	11.8" x 15.7" (300 x 400mm)		16.8" x 24" (427 x 610mm)		28.5" x 36" (724 x 914mm)	
Bracket tilt	+/- 45°		+/- 45°		+/- 45°	

Flyswatter at W5LUA



Stop Sign Flyswatter Reflector

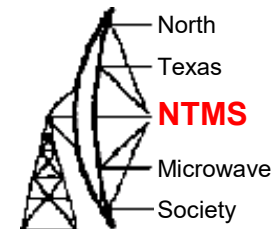


Built and originally used by KA5BOU

Small actuator used to optimize tilt from nominal 45 degree. Craig rotated the reflector since he used the reflector on a non-rotating tower. This also meant that he had to rotate the polarity of his source antenna to maintain horizontal polarity with respect to the horizon



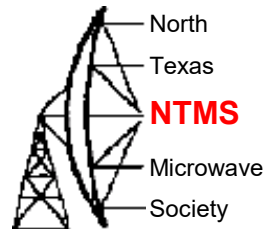
W4ERP IC-905 Setup in EL95ww



Eloy and I made contact on 13 cm for a new US distance record of 1783 km (1105 miles)

Pictures from www.qrz.com with W4ERP's permission

W4ERP's Antenna



<https://technicalantennas.com/collections/parabolic-grid/products/ultra-wide-band-parabolic-grid>

The screenshot shows a web browser window displaying the product page for the 'Ultra Wide Band 600MHz-6.5GHz Parabolic Grid Cellular Data Signal' antenna on the TechnicalAntennas.com website. The browser's address bar shows the URL: <https://technicalantennas.com/collections/parabolic-grid/products/ultra-wide-band-parabolic-grid>. The website's navigation bar includes links for 'Antennas', 'Cables', 'Mobile Antennas/Mounts', 'Clearance', 'Gallery', and 'Contact Us'. The product page features a large image of the antenna on the left, which is a parabolic grid design with a central feed horn. To the right of the image, the product title 'Ultra Wide Band 600MHz-6.5GHz Parabolic Grid Cellular Data Signal' is displayed in blue. Below the title, it says 'by TechnicalAntennas.com' and 'SKU COM-0665'. The price is listed as '\$229.00' with a 'Save 13%' badge, and the current price is '\$199.00'. Below the price, it states '4 interest-free installments, or from \$17.96/mo with shopify' and a link to 'Check your purchasing power'. A section titled 'SPECS AT A GLANCE' lists 'Directional, Adjustable Polarization' and 'Outdoor Mount: New! Rotary Bracket'. The 'Gain: 14dB - 25 dBi Operating Freq: 600-6500 MHz' is also specified. The 'Bands' section lists 'All Cellular 2G/3G/4G/LTE/5G, WiFi, Wi-Max, GPS, GOV, MIL, SDR. Covers all of the L-band, S-band, half C-Band'. The 'This antenna also works for all popular and expanded WiFi bands including 802.11ah 802.11b 802.11g 802.11n 802.11ax 802.11y 802.11j 802.11a 802.11h 802.11ac 802.11p 802.11be Wifi-6E Wifi 7' is mentioned. At the bottom of the page, there is a Windows taskbar with various application icons and a system tray showing the date and time as 4:09 PM on 6/7/2025.

TechnicalAntennas.com

All categories ▾ What are you looking for?

Antennas ▾ Cables Mobile Antennas/Mounts Clearance Gallery Contact Us

Home > Parabolic Grid > Ultra Wide Band 600MHz-6.5GHz Parabolic Grid Cellular Data Signal

Ultra Wide Band 600MHz-6.5GHz Parabolic Grid Cellular Data Signal

by TechnicalAntennas.com

SKU COM-0665

Save 13% \$229.00 \$199.00

4 interest-free installments, or from \$17.96/mo with [shopify](#) [Check your purchasing power](#)

SPECS AT A GLANCE

Directional, Adjustable Polarization Outdoor Mount: [New! Rotary Bracket](#)

Gain: 14dB - 25 dBi Operating Freq: 600-6500 MHz

Bands: All Cellular 2G/3G/4G/LTE/5G, WiFi, Wi-Max, GPS, GOV, MIL, SDR. Covers all of the L-band, S-band, half C-Band

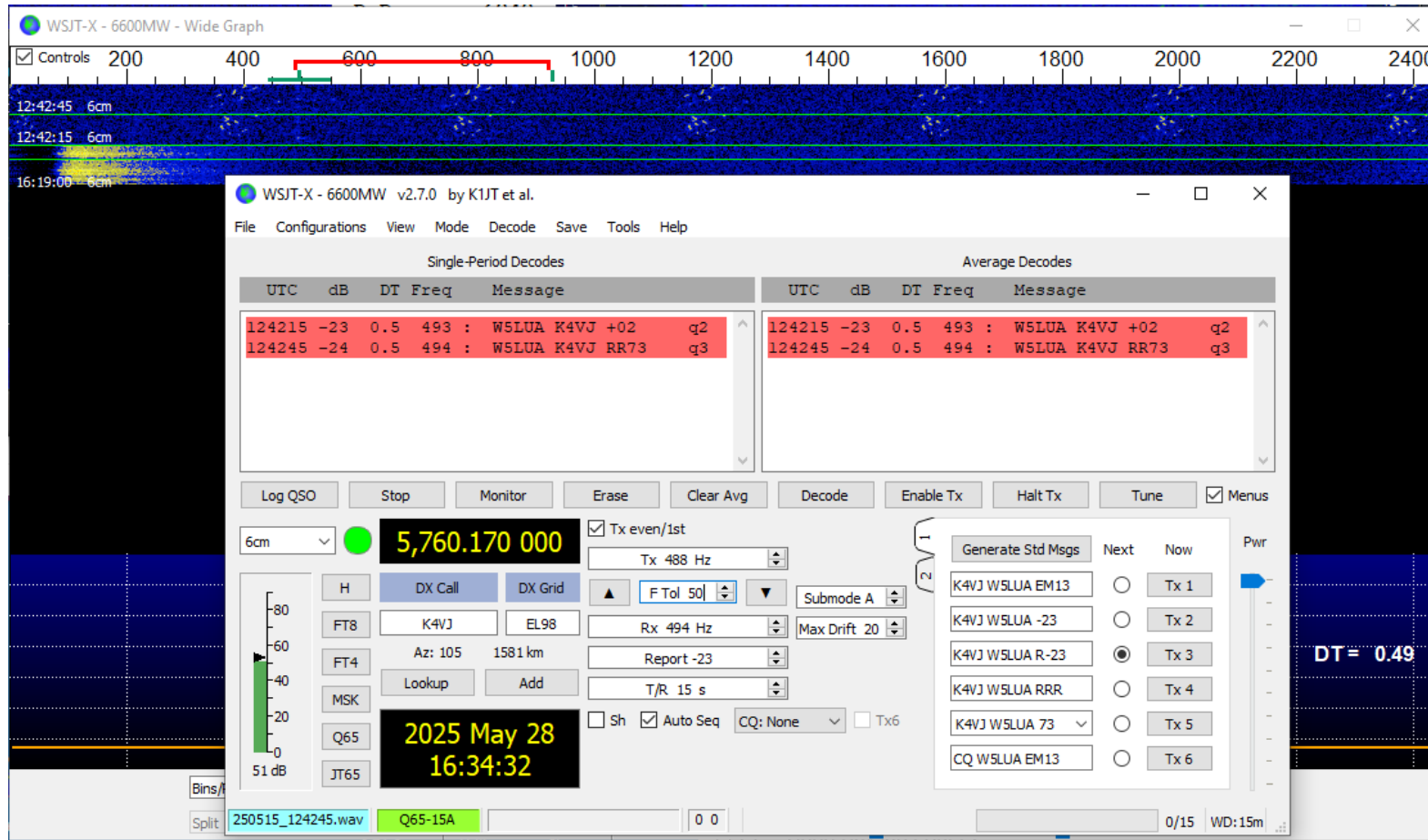
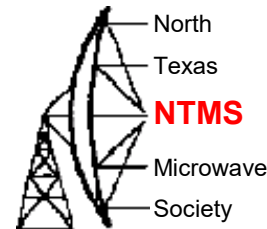
This antenna also works for all popular and expanded WiFi bands including 802.11ah 802.11b 802.11g 802.11n 802.11ax 802.11y 802.11j 802.11a 802.11h 802.11ac 802.11p 802.11be Wifi-6E Wifi 7

Click to expand

Cellular Ultra Wide Band

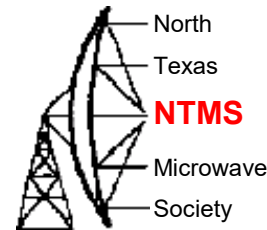
88°F Mostly cloudy 4:09 PM 6/7/2025

K4VJ Q65-15A



I was able to decode Mike's signal despite my local QRM on 5760
DX 1501 km (931 miles)

Screen Shot at K4VJ



File Configurations View Mode Decode Save Tools Help

Band Activity

UTC	dB	DT	Freq	Message	
123115	5	-0.0	997	: CQ W5LUA EM13	q3
				13cm	
123130	-13	0.0	833	: W5LUA W4BCX EL98	q0
				13cm	
123145	4	-0.0	997	: CQ W5LUA EM13	q3
				13cm	
123200	-14	0.0	833	: W5LUA W4BCX EL98	q0
				13cm	
123230	-8	-0.1	833	: W5LUA W4BCX EL98	q0
				13cm	
123245	6	-0.1	997	: W4BCX W5LUA -16	q0
				13cm	
123300	-9	-0.1	833	: W5LUA W4BCX R-06	q0
				13cm	
123315	6	-0.1	997	: W4BCX W5LUA RRR	q0
				13cm	
123330	-10	-0.1	833	: W5LUA W4BCX 73	q0
				13cm	
123415	6	-0.1	1004	: W4BCX W5LUA 73	q0
				6cm	
124100	2	-0.1	1004	: K4VJ W5LUA EM13	q3
				6cm	
124130	3	-0.1	1004	: K4VJ W5LUA EM13	q3
				6cm	
124200	2	-0.1	1004	: K4VJ W5LUA EM13	q3
				6cm	
124230	4	0.1	1004	: K4VJ W5LUA R-23	q3
				6cm	
124300	-1	-0.1	1004	: K4VJ W5LUA 73	q3
				6cm	
124330	3	-0.1	1004	: K4VJ W5LUA 73	q3

Rx Frequency

UTC	dB	DT	Freq	Message	
115900	Tx		500	: CQ K4VJ EL98	
115930	Tx		500	: CQ K4VJ EL98	
120000	Tx		500	: CQ K4VJ EL98	
120030	Tx		500	: CQ K4VJ EL98	
120100	Tx		500	: CQ K4VJ EL98	
120445	6	-0.3	793	: CQ W4BCX EL98	
120700	Tx		500	: W4BCX K4VJ EL98	
120730	Tx		500	: W4BCX K4VJ EL98	
120800	Tx		500	: W4BCX K4VJ EL98	
120830	Tx		500	: W4BCX K4VJ EL98	
120845	3	-0.2	800	: K4VJ W4BCX +05	q3
120900	Tx		500	: W4BCX K4VJ R+03	
120915	5	-0.3	800	: K4VJ W4BCX RR73	q3
120930	Tx		500	: W4BCX K4VJ 73	
122045	3	-0.0	1003	: CQ W5LUA EM13	
122132	Tx		500	: W5LUA K4VJ EL98	
122145	2	-0.0	1010	: K4VJ W5LUA -02	q3
122200	Tx		500	: W5LUA K4VJ R+02	
122215	3	-0.0	997	: K4VJ W5LUA RRR	q3
122230	Tx		500	: W5LUA K4VJ 73	
122315	4	0.0	997	: K4VJ W5LUA 73	q3
124100	2	-0.1	1004	: K4VJ W5LUA EM13	q3
124115	Tx		500	: W5LUA K4VJ +02	
124130	3	-0.1	1004	: K4VJ W5LUA EM13	q3
124145	Tx		500	: W5LUA K4VJ +02	
124200	2	-0.1	1004	: K4VJ W5LUA EM13	q3
124215	Tx		500	: W5LUA K4VJ +02	
124230	4	-0.1	1004	: K4VJ W5LUA R-23	q3
124245	Tx		500	: W5LUA K4VJ RR73	
124300	-1	-0.1	1004	: K4VJ W5LUA 73	q3
124330	3	-0.1	1004	: K4VJ W5LUA 73	q3

Log QSO Stop Monitor Erase Clear Avg Decode Enable Tx Halt Tx Tune ☒ Menus

6cm **5,760.170 000** ☐ Tx even/1st Tx 500 Hz

H DX Call DX Grid F Tol 50 Submode A Max Drift 0

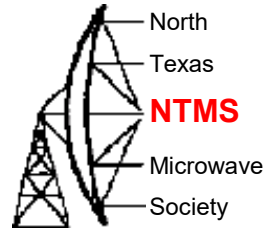
FT8 W5LUA EM13 Rx 1004 Hz

Generate Std Msgs Next Now Pwr

W5LUA K4VJ EL98 ☐ Tx 1

W5LUA K4VJ +02 ☐ Tx 2

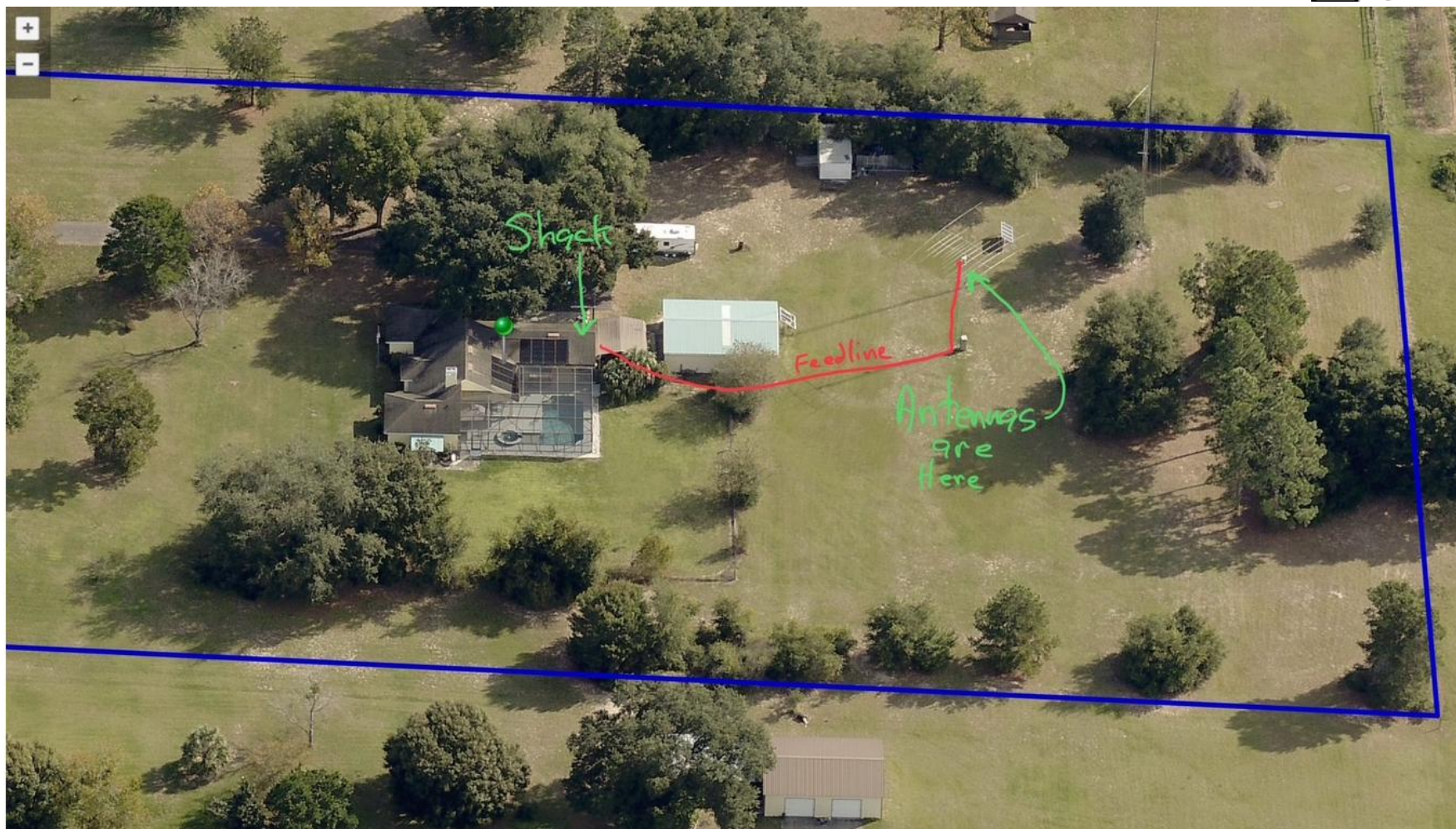
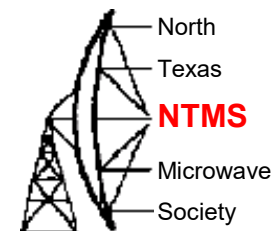
K4VJ IC-905 Setup in EL98cp



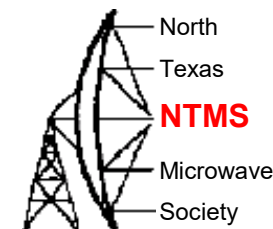
Picture courtesy of K4VJ

IC-905 RF unit is in shack
18" of RG142 jumper from the RF unit to a Radiall 6 port latching relay
3 feet of 1/2" hardline from Radiall switch to disconnect panel on the outside wall
70' of Imr600 to
80' of 7/8 hardline to
2' pieces 1/2" connecting to the 2nd Radiall relay at the base or the tower
1' Imr400 from relay to
55' of 7/8 hardline to top of tower to
15' of Imr600 up to antenna on the pipe.
Measured loss at 5760 MHz is 17 dB dropping his 2 watts down to 40 mW at antenna!

Aerial view of K4VJ Installation



K4VJ 2304 Antenna



eBay item number:363659278617

Antenna World
Model G2424

SPECIFICATIONS:

Frequency Range

Gain

VSWR

Beamwidth, -3dB point

Beamwidth, -3dB point

Cable Length, Type

Connector

Mounting Bracket,

Wind Rating

Dimensions

Weight

2.40-2.49GHz (2.30-2.56Ghz Extended Range)

24dBi Rated

1.2:1 average

Azimuth 7.5 degrees

Elevation 8.0 degrees

10" RG-8

N-type Female

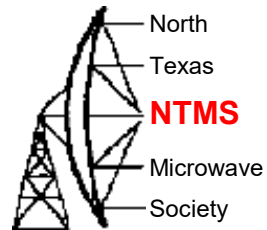
U-Bolts fit 1" - 1-3/4" mast

120 MPH

39" x 24" rectangle grid (2 sections bolted together)

5.5 lbs. (7 Lbs boxed)

K4VJ 5760 Antenna



5GHz 5.8Ghz 802.11a ac 30dBi Outdoor Parabolic Grid Antenna N-F Mounting Kit



Antenna World (11537)

98.7% positive · [Seller's other items](#) · [Contact seller](#)



US \$69.00

or 4 interest-free payments of \$17.25 available with **Klarna**. [Learn more](#)

Condition: **New** ⓘ

Quantity: **Out of Stock** · 36 sold

[Add to Watchlist](#)

Pickup: Free local pickup from [Miami, Florida, United States 33172](#)

Shipping: **US \$23.08** UPS Ground. [See details](#)

Located in: Miami, Florida, United States

Save on combined shipping ⓘ

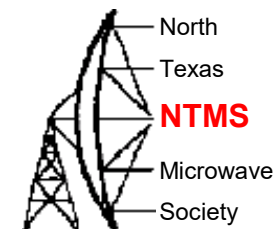
Delivery: Estimated between **Tue, Jun 10** and **Fri, Jun 13** to 75071 ⓘ

Returns: Seller does not accept returns. [See details](#)

eBay item number:363483427639

ANT-5158-30DBI, G5730

K4VJ 5760 Antenna

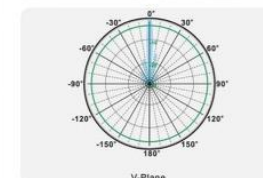
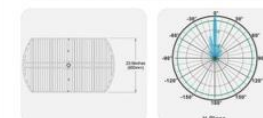


Electrical Data

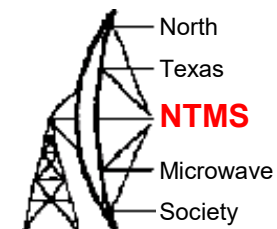
Frequency:	5725-5850 MHz
Gain:	30 dBi
VSWR:	<1.5:1
Polarization:	Horizontal or Vertical
Horizontal Beamwidth:	4°
Vertical Beamwidth:	4°
Nominal Impedance:	50 Ohms
F/B Ratio:	>30
Max Input Power:	100 W
Lightning Protection	DC Ground



Mechanical Data	
Connector:	N Female
Dimensions:	90x60x38cm
(diameter*height)	35.44x23.63x14.96in
Weight:	4.5kg/9.91lb
Reflector Material:	Cast Aluminum
Mounting Method:	Mast
Mast Size:	1.2"-2.0" Ø30-Ø50mm
Rated Wind Velocity:	140MPH 210km/h
Operating Temperature:	-40 ~ +65 °C

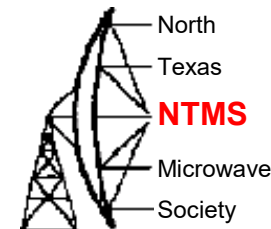


W5LUA Log



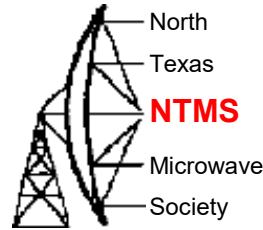
15-May	0011Z	K4VJ	2 m	FT8	-2	-2	EL98cp91cc	1502 km			
	0037Z	K4VJ	13 cm	Q65-15A	-6	-6	EL98cp91cc	1502 km			
	0113Z	WB4OMG	2 m	FT8	24	26	EL98ad	1509 km			
	0120Z	WB4OMG	13 cm	Q65-15A	6	5	EL98ad	1509 km			
	0127Z	WB4OMG	6 cm	Q65-30A	0	-6	EL98ad	1509 km			
	0251Z	WB4OMG	13 cm	FT8	12	8	EL98ad	1509 km			
	0308Z	K4NDZ	2 m	FT8	-9	-3	EL89xe	1456 km			
	0417Z	AC4TO	70 cm	FT8	7	-4	EM70xl	1226 km			
	1222Z	K4VJ	13 cm	Q65-15A	2	2	EL98cp	1501 km			
15-May-25	1227Z	W4ERP	13 cm	Q65-15A	-18	-2	EL95ww	1783 km	New US distance record		
	1233Z	W4BCX	13 cm	Q65-15A	-14	-6	EL98pd	1617 km			
	1242Z	K4VJ	6 cm	Q65-15A	-23	2	EL98cp	1501 km	Note 1		
	1440Z	W9BS	2 m	FT8	-6	-3	EL96bm	1600 km			
	1442Z	KD4VRY	70 cm	FT8	-17	-3	EL96df	1631 km			
	1443Z	WB5FKO	2 m	FT8	10	19	EL89	? On call			
	1451Z	W9BS	70 cm	FT8	-2	-1	EL96bm	1600 km			
	1509Z	W9BS	23 cm	Q65-15A	-22	-8	EL96bm	1600 km			
16-May	0132Z	K4QXX	2 m	FT8	-16	-5	EL87rn	1486 km			
	0221Z	WB4OMG	70 cm	FT8	-1	-2	EL89ad	1509 km			

Crew meeting at Antenna World in Miami, FL



Raul W4AWI
is the owner
of AWI

Where to Coordinate



- NTMS Slack
- 4 Landers on VHF-Chat Slack
- ON4KST
- K4JMX <https://k4jmx.com/chat/account.php>
- W4DEX <http://w4dex.com/qso>
- Other places?
- Questions and or comments?