

WSJTX V4.0 Setup Instructions Complete With PC Sound Settings and N1MM+

Band Activ	vitv						Rx Frequency			
B DT Freq	Message			UTC	dB	DT Freq				
J 0.4 1208 ~	CQ DX GUDBE 1083	England	^				~			
		L								
4 0.5 1833 ~										
7 0.4 305 ~										
	17m	ı								
)3 Japan								
		ı								
4 0.3 846 ~	К9КЈ W7WHO -07									
							~			
		is Japan								
		ı						*		
		1	_							
	17m	ı		<mark>201546</mark>	Тx	1037 ~	CQ WW4LL H			
1 0.4 556 ~	SP5BBG ND7J +04									
9 0.3 805 ~										
5 0.6 1833 ~										
				<mark>201845</mark>	Тx	1037 ~	CQ WW4LL B	FN67		
	CQ NA JA8BNP QNC)3 Japan		<mark>202045</mark>	Тx	1037 ~	CQ WW4LL E			
9 0.6 358 ~		1								
		۱								
7 0.3 840 ~	CQ W7WHO CN94	U.S.A.				1037 ~	CQ WW4LL H	FN67		
/ 0.2 986 ~	HB9TOC KG7L 73		~		Тx	1037 ~	CQ WW4LL H	M67		
			>	<						>
Log QSO	Stop Moni	tor	Erase	Dec	ode	Enable Tx	Halt Tx		Tune	✓ Me
18	100 000	Tx even/1st	Hold Tx	Freq						
10.		Tx 1037 Hz 🖨		>		Gene	erate Std Msgs		Next Nov	w
DX Call	DX Grid			2	JF1SEK	WW4LL FN67			ОТх	1
JF1SEK		Rx 2132 Hz 🖨			JF1SEK	WW4LL -10				2
		Report -10 🗘								
Lookup	Add	Auto Seq	Call 1st							
202	1 Jun 12				JF1SEK	WW4LL 73		N	Y O Tx	5
					CQ WW	4LL FN67			• Tx	6
20	.12.1/									
N67 FT8 Last	Tx: CO WW4LL FN67 0								2/15	WD:
lide Grank										
/ide Graph 500	100 <mark>0,</mark> 1	500	2000		05	00	3000	3500		400
	3 DT Freq 0 4 1208 ~ 3 0.3 1559 ~ 4 0.5 1833 ~ 7 0.4 305 ~ 4 0.5 1833 ~ 7 0.4 2706 ~ 4 0.5 1833 ~ 7 0.4 2706 ~ 4 0.3 846 ~ 5 0.5 1833 ~ 0.3 1558 ~ 6 0.4 555 ~ 5 0.5 1833 ~ 6 0.4 556 ~ 6 0.5 1833 ~ 6 0.5 1833 ~ 6 0.5 1833 ~ 6 0.5 1833 ~ 6 0.6 1833 ~ 7 0.2 986 ~ 1.03 840 ~ ~ 1.02 986	DT Freq Message 0.4 1208 CQ DX GUDBE 1083 10.3 1559 DL6NW KJOB -11 0.4 2706 OE5TKF ND7J R-04 0.5 1833 CQ NA JA8BNP QNC	3 DT Freq Message 0.4 1208 CQ DX GUDBE 1083 England 1 0.4 1559 DL6NW KJOB -11 0.4 2706 OE5TXF ND7J R-04 1 0.4 2706 OE5TXF ND7J R-04 1 0.4 2706 OE5TXF ND7J R-04 1 0.4 305 DB1BW ZP9MCE -20	3 DT Freq Message 0.4 1208 ~ CQ DX GUDBE 1083 England 0.3 1559 ~ DL6NW KJOB -11	3 DT Freq Message UTC 0.4 1208 ~ CQ DX GODBE 1083 England 200945 10.4 1208 ~ CQ DX GODBE 1083 England 200945 0.4 2706 ~ OE5TXF ND7J R-04 201030 0.5 1833 ~ CQ NA JA8BNP QN03 Japan 20115 0.4 305 ~ DB1BW ZP9MCE -20 201145 0.4 2706 ~ OE5TXF ND7J 73 201245 0.4 2706 ~ OE5TXF ND7J 73 201315 0.4 2706 ~ OE5TXF ND7J 73 201345 0.3 846 ~ K9KJ W7WO -07 201315 30.6 1833 ~ CQ NA JA8BNP QN03 Japan 201415 0.3 806 ~ IV3GOW W7SX 73 201415 0.5 1208 ~ W0JS GODE -13 201415 0.5 1834 ~ CQ NA JA8BNP QN03 Japan 201415 0.4 555 ~ CQ DX ND7J EM85 U.S.A. 201630 0.5 1833 ~ A CQ NA JA8BNP QN03 Japan 201415 201426 0.4 555 ~ CQ DX ND7J EM85 U.S.A. 201630 0.5 1833 ~ CQ NA JA8BNP QN03 Japan 201635 201715 0.5 1833 ~ CQ NA JA8BNP QN03 Japan 201715 201455	3 DT Freq Message UTC dB 0.4 1208 - CQ DX GUDBE 1083 England 200916 TX 10.4 2706 - OESTXF NDJ R-04 201015 TX 10.4 2706 - OESTXF NDJ R-04 201015 TX 10.4 2706 - OESTXF NDJ R-04 201015 TX 10.4 2706 - OESTXF NDJ 73 201115 TX 10.4 2706 - OESTXF NDJ 73 201215 TX 10.4 2706 - OESTXF NDJ 73 201215 TX 10.4 2706 - OESTXF NDJ 73 201215 TX 10.3 846 - KPKJ W7WH0 -07 201315 TX 10.3 1558 - L220 A KJ0B R-17 201415 TX 10.5 1834 - CQ NA JA8BNP QN03 Japan 201400 -15 10.5 1834 - CQ NA JA8BNP QN03 Japan 201415 TX 10.4 556 - SF5BEG NDJJ +04 201645 TX 201616 TX 10.4 305 - ON8BE W75X DN18 - 17m </td <td>3 DT Freq Message UTC dB DT Freq 0.4 1205 - CQ DX GUBBE 1083 England 200945 TX 1037 1.0.3 1559 - CQ DX MABBP QNO3 Japan 201015 TX 1037 0.4 2005 CQ NA JABBNP QNO3 Japan 201015 TX 1037 0.4 305 - DB1BW ZP9KCE -20 201015 TX 1037 0.4 270 - OCSTXF ND7J 73 20145 TX 1037 0.3 846 - K9KJ WWHO -07 1031 503 1037 0.3 1058 - L220K KJUB R-17 1037 20145 TX 1037 0.3 1058 - L220K KJUB R-17 17m 201415 TX 1037 0.4 555 - CQ DX ND7J EM85 U.S.A. 20140 -10 21530 1305 21530 0.4 555 - CQ DX ND7J EM85 U.S.A. 1037 20145 1037 20145 1037 20145 1037 20145 1037 20145 1037 20145 1037 20145 1037 20145 1037</td> <td>DT Freg Message UTC GB DT Freg Message 0.4 2004 CQUX OUBLE 1063 England 200945 Tx 1037 CQ W4LL 0.3 1559 DLGW K0B -11 200945 Tx 1037 CQ W4LL 0.4 2706 OESTXF ND7J R-04 20100 -9 0.3 1642 WM4LL 74 0.4 305 OENA JA86NP QN03 Japan 20100 -7 0.3 1642 WM4LL 74 0.4 205 OESTXF ND7J 73 -20 201100 -7 0.3 1642 WM4LL 74 0.4 205 OESTXF ND7J 73 -17m 201105 Tx 1037 - CQ W44LL 201345 Tx 1037 - CQ W44LL 201345 Tx 1037 - CQ W44LL 201345 Tx 1037 - CQ W44LL 102145 Tx 1037 CQ W44LL 102145 Tx 1037 CQ W44LL 102145 Tx 1037</td> <td>DT Freq Message 0.4 128 - CQ CQ Message 1.7m England 7 1037 - CQ CQ WALL FN67 0.4 305 - DLGNK XOB -11 1037 - CQ WALL FN67 0.4 305 - OLSKYK NDJJ R-04 200945 TX 1037 - CQ WALL FN67 0.15 1833 - CQ NA JABSNP QN03 Japan 7 1037 - CQ WALL FN67 0.15 1833 - CQ NA JABSNP QN03 Japan 1016 TX 1037 - CQ WALL FN67 0.15 1833 - CQ NA JABSNP QN03 Japan 1016 TX 1037 - CQ WALL FN67 0.3 1558 - MUJJ T3 1037 - CQ WALL FN67 201215 TX 1037 - CQ WALL FN67 0.3 1585 - MALL FN67 201415 TX 1037 - CQ WALL FN67 0.4 555 - CQ NA JABSNP QN03 Japan 1037 - CQ WALL FN67 0.5 1833 - WALL JALONT FNE 1037 - CQ WALL JALONT FNE 1037 - CQ WALL JALONT FNE 0.5 1206 A MUS GODEL</td> <td>b DT Freq Message 0.4.1 CQL X CQL X Sengland 2009.6 Tx 10.3 CQL X WestLip TN67 0.3.1 1559 ~ DLENN KJDB -11 2009.6 Tx 10.37 CQL WestLip TN67 0.4.3 2706 ~ OESTXF ND7X R-04 2010.05 Tx 10.37 -0.3 MestLip TN67 0.4.3 0.5 DBLEW ZEMEK -20 Tm 10.37 -0.3 MestLip TN67 201045 Tx 10.37 -0.3 MestLip TN67 0.4.3 0.4 2006.7 0.5 1833 -00 NA ABBNP QN03 Japan 20115 Tx 10.37 -0.3 MestLip TN67 201245 Tx 10.37 -0.0 MestLip TN67 0.4.3 366 KSK WTWID -007 Tm 10.3 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 <td< td=""></td<></td>	3 DT Freq Message UTC dB DT Freq 0.4 1205 - CQ DX GUBBE 1083 England 200945 TX 1037 1.0.3 1559 - CQ DX MABBP QNO3 Japan 201015 TX 1037 0.4 2005 CQ NA JABBNP QNO3 Japan 201015 TX 1037 0.4 305 - DB1BW ZP9KCE -20 201015 TX 1037 0.4 270 - OCSTXF ND7J 73 20145 TX 1037 0.3 846 - K9KJ WWHO -07 1031 503 1037 0.3 1058 - L220K KJUB R-17 1037 20145 TX 1037 0.3 1058 - L220K KJUB R-17 17m 201415 TX 1037 0.4 555 - CQ DX ND7J EM85 U.S.A. 20140 -10 21530 1305 21530 0.4 555 - CQ DX ND7J EM85 U.S.A. 1037 20145 1037 20145 1037 20145 1037 20145 1037 20145 1037 20145 1037 20145 1037 20145 1037	DT Freg Message UTC GB DT Freg Message 0.4 2004 CQUX OUBLE 1063 England 200945 Tx 1037 CQ W4LL 0.3 1559 DLGW K0B -11 200945 Tx 1037 CQ W4LL 0.4 2706 OESTXF ND7J R-04 20100 -9 0.3 1642 WM4LL 74 0.4 305 OENA JA86NP QN03 Japan 20100 -7 0.3 1642 WM4LL 74 0.4 205 OESTXF ND7J 73 -20 201100 -7 0.3 1642 WM4LL 74 0.4 205 OESTXF ND7J 73 -17m 201105 Tx 1037 - CQ W44LL 201345 Tx 1037 - CQ W44LL 201345 Tx 1037 - CQ W44LL 201345 Tx 1037 - CQ W44LL 102145 Tx 1037 CQ W44LL 102145 Tx 1037 CQ W44LL 102145 Tx 1037	DT Freq Message 0.4 128 - CQ CQ Message 1.7m England 7 1037 - CQ CQ WALL FN67 0.4 305 - DLGNK XOB -11 1037 - CQ WALL FN67 0.4 305 - OLSKYK NDJJ R-04 200945 TX 1037 - CQ WALL FN67 0.15 1833 - CQ NA JABSNP QN03 Japan 7 1037 - CQ WALL FN67 0.15 1833 - CQ NA JABSNP QN03 Japan 1016 TX 1037 - CQ WALL FN67 0.15 1833 - CQ NA JABSNP QN03 Japan 1016 TX 1037 - CQ WALL FN67 0.3 1558 - MUJJ T3 1037 - CQ WALL FN67 201215 TX 1037 - CQ WALL FN67 0.3 1585 - MALL FN67 201415 TX 1037 - CQ WALL FN67 0.4 555 - CQ NA JABSNP QN03 Japan 1037 - CQ WALL FN67 0.5 1833 - WALL JALONT FNE 1037 - CQ WALL JALONT FNE 1037 - CQ WALL JALONT FNE 0.5 1206 A MUS GODEL	b DT Freq Message 0.4.1 CQL X CQL X Sengland 2009.6 Tx 10.3 CQL X WestLip TN67 0.3.1 1559 ~ DLENN KJDB -11 2009.6 Tx 10.37 CQL WestLip TN67 0.4.3 2706 ~ OESTXF ND7X R-04 2010.05 Tx 10.37 -0.3 MestLip TN67 0.4.3 0.5 DBLEW ZEMEK -20 Tm 10.37 -0.3 MestLip TN67 201045 Tx 10.37 -0.3 MestLip TN67 0.4.3 0.4 2006.7 0.5 1833 -00 NA ABBNP QN03 Japan 20115 Tx 10.37 -0.3 MestLip TN67 201245 Tx 10.37 -0.0 MestLip TN67 0.4.3 366 KSK WTWID -007 Tm 10.3 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 <td< td=""></td<>

Open WSJTX V2.4.0 - Click File, Settings, **GENERAL** – Insert your callsign, grid and the rest of the information shown completed on this page.

eneral <u>R</u> adio Audio Tx <u>M</u> acros Reporting Frequencies Colors Advanced	
tation Details	
Iy Call: WW4LL My Grid: FN67	AutoGrid IARU Region: All
tessage generation for type 2 compound callsign holders: Full call in Tx3	
isplay	
Start new period decodes at top	Font
Blank line between decoding periods	
Display distance in miles	Decoded Text Font
✓ Ix messages to Rx frequency window	
$ar{}$ Show DXCC, grid, and worked-before status $\hfill \square$ Show principal prefix instead of country name	
Phavior Monitor off at startup Enable VHF and submode features	
Monitor off at startup Enable VHF and submode features Monitor returns to last used frequency Image: Allow Tx frequency changes while transmitting	
Double-click on call sets Tx enable Single decode	
Digable Tx after sending 73 Decode after EME delay	
Calling CQ forces Call 1st	
Alternate F1-F6 bindings	Tx watchdog: 6 minutes
CW ID after 73	Periodic CW ID Interval: 0

Then click on the **RADIO** Tab. Set this page up exactly as it is in the example below. In the PTT section, you will have to click on DTR to gain the ability to change the port to USB, then click back on CAT.

	udio Tx Macros	Reporting Frequencies	Colors Advanced		
ig: Kenwood TS-480					V Poll Interval: 1 s
CAT Control			PTT Method		
Serial Port: COM50			✓ ○ VOX		DTR
Serial Port Parameters	5		● C <u>A</u> T	C	RIS
Baud Rate: 4800		~	Port: USB		~
			Transmit Audio So	ource	
			○ Rear <u>/</u> Data		Eront/Mic
Data Bits			Mode		
			None	⊖ US <u>B</u>	O Data/P <u>k</u> t
Default	O Se <u>v</u> en	○ E <u>ig</u> ht	I None		
			Split Operation		
Stop Bits			None	🔘 Rig	🔘 Fake It
Default	On <u>e</u>	○ Т <u>w</u> o			
Handshake					
Default	\bigcirc N	one			
○ XON/XOFF	Он	ardware	Test C	CAT	Test PTT
Force Control Lines					
DTR:	✓ RTS:	~			

Audio Tab - Setting up the Audio to Cable A and Cable B in the example below assumes that you have already installed VB-Audio Cable A and Cable B. This is a download available at https://vb-audio.com/Cable/ There is a "donation" required and if you don't "donate" at least \$20, you're only going to get half of the cable pair.

Settings	? >
enera <u>l</u> <u>R</u> adio <u>Audio</u> Tx <u>Macros</u> <u>Reporting</u> <u>Frequencies</u> <u>Colors</u> <u>Advanced</u>	
Soundcard	
Input: CABLE-A Output (VB-Audio Cable A)	✓ Mono ∨
Output: CABLE-B Input (VB-Audio Cable B)	
Save Directory	
Location: C:/Users/fredd/AppData/Local/WSJT-X/save	Select
AzEI Directory	
Location: C:/Users/fredd/AppData/Local/WSJT-X	Select
	Sciect
Remember power settings by band	
Transmit Tune	
	OK Cancel

WSJTX has it's own logging software, however, if you want to have all of your QSOs blown into N1MM at the same time, you have to have 2 instances of BeLoud Connect open, one listing N1MM in the pull-down and one listing FT8 in the second pull-down. Once they connect, you can minimize them. If you don't want the QSOs logged in N1MM, you only have to open 1 instance of BeLoud Connect and it is set in the pull-down to FT8. If you switch radio stations like from Maine to Georgia, you will have to pull-up two new instances of BeLoud Connect because of the station change.

BeLoud CONSOLE Reservation	s Usage		Fred Dennin 👻
Maine 1A	\$0.79/min	In Use By Me 4h 03m 07s	Disconnect
Network Latency (ms): 124	Off On AMP / ROTOR / ANT	Open Connect Digi-Monitor	Radio Status: ON
	30m 20m 17m 15m 12m USB AM CW CW-R RTTY	10m 6m (Amp-Off) MOD-SOURCE U RF-PWR	SB TBW WIDE
<mark>⊡18·1</mark> (UP RF-GAIN	3 49
	5 5 0 0 A/B A=B SF AGC-F BeLoud Connect —	PLIT AF-GAIN At-GAIN Audio Lev PAMP RX-LEVEL © BeLoud Connect	as} 30 as} 50
Wide MNF Cor	nnected: 90 ms	Connected: 113 ms VF0-A 18.100.0	
TUNE T	Virtual Com Port	Winkey COM Enable CW WinKey V	PC COM Setting Winkey COM Virtual Com Port Enable CW FT-8 WinKey TX Enable VFO Enable
	Start Close		Start Close
CW		Clear	Clear

The N1MM setup for FT8 is the same way every time. In the Configurer tab of N1MM, open the tab and make the Port number on the first line (Radio) COM60 and select Kenwood as the radio. Then click Set and you'll find the Speed, Parity, etc. window and set them as is depicted in this example.

🔛 Config	urer											\times
Hardware Port COM60 None None None None None LPT1 LPT2 LPT3		Radio Radio Kenwu None None None None None		Digi (Winkey	Mode Control Details Set Set Set Set Set Set Set Set Set Set	11520	Always ((msec)	O SO2V vays On,RTS=/ Always Off,TS Data V 8 7) Dn V Enable Both H PTT via Radio PTT via Radio PTT via Radio PTT via Radio PTT via Radio	O S Always O x=1 aBits	SO2R In,Tx=1 Stop Bits 2 Radio Nr 1 & Software P d SSB Mode d CW Mode	up ×
							4800, N, 8, 2, Use the TS-9	9 Rate	dshake r:	, TS-811		
			ОК		Cancel		Help			ОК	Cancel]

Still on the **Hardware** tab and on the second line down, the Port and Radio should be set to NONE. Place a checkmark in Digi, then click Set and you'll get the following dropdown window. Set yours just like this example to run FT8 and log the Qs in N1MM.

🞇 Config	urer										\times
Hardware	Function	n Keys	Digital Mo	des	Other	Winkey	Mode Control	Antennas	Score Reporting	Broadcast Data	WSJT/JTDX Setup
Port COM60	~	Radio			Digi C	W/Other	Details	1150	SO1V 00,N,8,2,DTR=Alwa	0	SO2R
None	~	None					Set		Always On,RTS=A	- · ·	iys on, ix=i
None		None		$\overline{\mathbf{v}}$				Com0	Aways on, K13-2	awaya on, ix-i	×
None	~	None					Set	Comu			^
None	~	None		$\overline{}$			Set				
None	~	None		$\overline{}$			Set	DTR (pin 4)	RTS (pin 7)		Radio Nr
None	~	None		\sim			Set	Always On			1 ~
None	~	None		\sim			Set				Dig Wnd Nr
LPT1					C		Set			0=N	lone 1 V
LPT2							Set	Allow ex	t interrupts		
LPT3					C		Set		FootSw	itch (pin 6)	
									None	~	
							Γ				
				_							
			ОК			Cancel		Help			OK Cancel

Setting Up the Audio

Now, right click the speaker icon at the bottom right of the PC screen to pull-up the Sound settings screen that has 4 tabs (Playback, Recording, Sounds & Communications).



Right click on Cable – A Input and you'll get this Sound Playback screen. Just make sure on this screen that "Use This Device (enable) is in the pull-down box below.

Sound		\times
Playback Recording So	unds Communications	
🥌 CABLE-A Input Prop	perties	×
General Levels Advance	ed Spatial sound	
	CABLE-A Input Change Icon	
Controller Information	1	
VB-Audio Cable A		Properties
VB-Audio Software		
Jack Information No Jack Information	n Available	
Device usage:	Use this device (enable)	~
	OK Cance	Apply

Click on Cable – A Input Levels to adjust your levels as appropriate but something around 80 is a good starting point.

Sound			\times
Playback Recording Sounds (Communication	S	
🚭 CABLE-A Input Properties	5		×
General Levels Advanced Sp	atial sound		
CABLE-A Input		78	
	ОК	Cancel	Apply

Click on Cable – A Input Advanced, set like this screenshot, click OK then close Cable – A.

Sound	×
Playback Recording Sounds Communications	
CABLE-A Input Properties	×
General Levels Advanced Spatial sound	
Default Format	
Select the sample rate and bit depth to be used when running in shared mode.	
24 bit, 48000 Hz (Studio Quality) V Test	
Exclusive Mode Allow applications to take exclusive control of this device Give exclusive mode applications priority	
Restore Defaults	
OK Cancel Apply	

The Spatial Sound Tab is set to OFF.

Now go back to the original Sound screen and right click on Cable – B Input under the Playback Tab.



The General Tab Cable – B Input will appear and just make sure under Device Usage, that "Use this device (enable) is shown in the pull-down window.

🥘 CABLE-B Input P	roperties	\times
General Levels Adva	nced Spatial sound	
	CABLE-B Input Change Icon	
Controller Informat	ion	
VB-Audio Cable	В	Properties
VB-Audio Softw	are	
Jack Information	tion Available	
Device usage:	Use this device (enable)	~
	OK Cancel	Apply

Next, click on the Cable – B Input Properties Levels Tab and use this level around 80 as a starting point.



Next, click on the Cable – B Input Properties Advanced Tab and setup like example.

Sound	\times
Playback Recording Sounds Communications	
🥰 CABLE-B Input Properties	\times
General Levels Advanced Spatial sound	
Default Format	
Select the sample rate and bit depth to be used when running in shared mode.	
24 bit, 48000 Hz (Studio Quality) V Test	
Exclusive Mode Image: Allow applications to take exclusive control of this device Image: Give exclusive mode applications priority	
Restore Defaults	
OK Cancel Apply	

The Spatial Sound Tab is set to OFF.

The Sound Panel will appear, then right click on Cable – A Output. Under the General Tab, just make sure under Device Usage, that "Use this device (enable) is shown in the pull-down window.

Sound				\times
Playback Recording Sou	unds Communication	S		
🥌 CABLE-A Output Pr	operties			\times
General Listen Levels	Advanced			
	CABLE-A Output Change Icon]
Controller Information				
VB-Audio Cable A			Properties	
VB-Audio Software				
Jack Information No Jack Informatior	n Available			
Device usage:	Use this device (enab	le)		~
	ОК	Cancel	Appl	y

Next, click on the Listen Tab under Sound – Recording - Cable - A Output Properties and set like the example below.

Sound	\times
Playback Recording Sounds Communications	
GABLE-A Output Properties	×
General Listen Levels Advanced	
You can listen to a portable music player or other device through this CABLE-A Output jack.	
Listen to this device	
Playback through this device:	
Default Playback Device \vee	
Power Management	
Continue running when on battery power	
O Disable automatically to save power	

Next, click on the Levels Tab under Sound – Recording - Cable - A Output Properties and set like the example below as a starting place.

Sound	\times
Playback Recording Sounds Communications	
Generation CABLE-A Output Properties	×
General Listen Levels Advanced	
CABLE-A Output	
Wave In Volume	
OK Cancel	Apply

Next, click on the Advanced Tab under Sound – Recording - Cable - A Output Properties – Advanced Tab and set like the example below.

🚳 CABLE-A Output Properties	\times
General Listen Levels Advanced	
Default Format Select the sample rate and bit depth to be used when running in shared mode.	
2 channel, 24 bit, 48000 Hz (Studio Quality) $$	
Exclusive Mode Allow applications to take exclusive control of this device Give exclusive mode applications priority	
Restore Defaults	
Restore Delaults	
OK Cancel Apply	

Under the Sound – Recording Tab, right click on Cable – B Output and select the General Tab Set as displayed in the example below:

Sound		\times
Playback Recording Sou	inds Communications	
🚳 CABLE-B Output Pro	operties	×
General Listen Levels	Advanced	
	CABLE-B Output Change Icon	
Controller Information		
VB-Audio Cable B		Properties
VB-Audio Software		
Jack Information No Jack Informatior	n Available	
Device usage:	Use this device (enable)	~
	OK Cancel	Apply

Click the Listen Tab under Sound – Cable – B Output Properties – Listen Tab and make your settings the same.

Sound			\times
Playback Recording Sounds	Communications	5	
CABLE-B Output Proper	ties		×
General Listen Levels Adva	nced		
You can listen to a portable m CABLE-B Output jack.	nusic player or ot	ner device throug	h this
Listen to this device			
Playback through this device:			
Default Playback Device		\sim	
Power Management			
Continue running when	on battery powe	r	
O Disable automatically to	save power		
	OK	Cancel	Apply
	ON	Curreer	VPPN

Next, click on the Cable – B Recording Tab - Output Properties – Levels Tab and use these settings as a starting point.

Sound	\times
Playback Recording Sounds Communications	
🥳 CABLE-B Output Properties	×
General Listen Levels Advanced	
CABLE-B Output	
Wave In Volume	
OK Cancel A	pply

Next, click on the Advanced Tab and set this window up just like the example and click OK.

Sound	<
Playback Recording Sounds Communications	
CABLE-B Output Properties	<
General Listen Levels Advanced	
Default Format	
Select the sample rate and bit depth to be used when running in shared mode.	
2 channel, 24 bit, 44100 Hz (Studio Quality) $$	
Exclusive Mode Allow applications to take exclusive control of this device Give exclusive mode applications priority	
Restore Defaults	
OK Cancel Apply	

Under the Sounds Tab there is nothing to set. In the Communications Tab, click on Do Nothing, then click on OK.

OK, there's one last sequence of settings and the setup is complete. Open Sound by right clicking the Speaker icon in the bottom right side of your PC screen. Click on Playback Tab, click on Speakers to highlight it then right click and choose Properties. Left click Properties and you click on the General Tab. Set yours to look like the example below:

General	Levels	Enhanc	ements	Advanced	Spatial sound		
l	0	•	Speaker Chan	s ge lcon			
Contr	oller Info	ormatior	1				
2-	Logitec	n USB He	eadset			Properties	
(G	eneric U	SB Audio	D)				
Jack I	eneric U nformat	on		ble			
Jack I	nformat	on		ble			
Jack I	nformat	on	n Availa	ble is device (er	nable)		

Click on Speaker Properties and Levels. Use these starting settings in the example below:

Speakers Properties	\times
General Levels Enhancements Advanced Spatial sound	
Speakers 43 Balance	
Sidetone 42	
OK Cancel Appl	y

Skip the Enhancements Tab and click on Advanced. Setup this tab on your PC the same as below as a starting point. We have Sidetone muted so we don't hear the audio from FT8.

Speakers Properties	\times
General Levels Enhancements Advanced Spatial sound	
Speakers 43 ()) Balance	
Sidetone 42	
OK Cancel App	ly

Last, make sure the Spatial Sound Tab is set to OFF.

That's it so you now have the complete setup for WSJTX, N1MM+ and your PC Sound Settings to Operate FT8/4. Give it a try and have fun. 73' from the BeLoud group!