

## Ham Radio Mixer Headset Setup - Equipment Inventory List - Required Items

Item #	Qty	Description	Price	Notes	Required/ Optional	Link	2024 Updated Notes
1	1	Behringer Xenyx 802 Premium 8-Input 2-Bus Mixer	180	Any two bus mixer with FX Send should work.	Required	<a href="http://www.amazon.com/dp/B000J5XS3C">http://www.amazon.com/dp/B000J5XS3C</a>	<b>IMPORTANT</b> - This mixer was originally \$79.99 when this list was made. You may use the mixer below as an alternative, but the wiring diagram will not be exact. The same connects are labeled on both mixers.
2	1	PMXU43BT.5 Pyle Professional Audio Mixer	79.99	Any two bus mixer with FX Send should work.	Required	<a href="https://www.amazon.com/Pyle-Professional-Interface-Bluetooth-Streaming/dp/B07Y8L4CK8/">https://www.amazon.com/Pyle-Professional-Interface-Bluetooth-Streaming/dp/B07Y8L4CK8/</a>	<b>IMPORTANT</b> - Use one of the two mixers. <b>YOU DO NOT NEED BOTH!!</b>
3	2	Yamaha CM500 Headset with Built In Microphone	84.95	Comes with mic power adapter to make mics work with mixer.	Required	<a href="http://www.amazon.com/dp/B000BZ6ZX0">http://www.amazon.com/dp/B000BZ6ZX0</a>	Original price was \$59.99
4	1	2 Pack 3.5mm Male to Male Stereo Audio Cable Cord	6.99	1 - REQUIRED to get audio from radio to mixer. 1 - OPTIONAL to allow recording of both sides of transmission from mixer into User Supplied audio recorder. (2 pack is same price as some single cables)	Required	<a href="https://www.amazon.com/CableCreation-Auxiliary-Compatible-Headphones-iPhones/dp/B01K3WX6JG/">https://www.amazon.com/CableCreation-Auxiliary-Compatible-Headphones-iPhones/dp/B01K3WX6JG/</a>	
5	1	Pyle-Pro PHA40 4-Channel Stereo Headphone Amplifier	24.99	Used for individual volume control	Required	<a href="http://www.amazon.com/dp/B003M8NVFS">http://www.amazon.com/dp/B003M8NVFS</a>	
6	1	Cable Matters 5-Pack, Gold Plated 6.3 mm (1/4 inch) to 3.5 mm Male to Female Stereo Adapter	9.49	2 - REQUIRED One for Operator Headset and One for Logger Headset into Headphone Amplifier. 2 additional MAX allows for 4 total headsets to work together. 1 Adapter will not be needed.	Required	<a href="http://www.amazon.com/dp/B00PIWB2SO">http://www.amazon.com/dp/B00PIWB2SO</a>	
7	1	3 Ft 1/4" TRS to 1/4" TRS Patch Cable (2 Pack)	16.99	1 - Used to feed audio from mixer to headphone amplifier. 1 - Used to feed audio signal from FX Send to iBox/Radio audio input (This side of cable may need to be rewired. Refer to your manual. Ring and Sleeve need to be shorted on iBox [AUDIO IN] side).	Required	<a href="https://www.amazon.com/Audio2000s-C26003P2-Right-Angle-Cable/dp/B00HK1LQ28/">https://www.amazon.com/Audio2000s-C26003P2-Right-Angle-Cable/dp/B00HK1LQ28/</a>	
8	2	1/8" 3.5mm TRS Stereo Female Connector to Dual 1/4" 6.35mm TS Mono Male Connectors	6.65	1 - REQUIRED to get audio from radio to mixer. 1 - OPTIONAL to allow recording of both sides of transmission from mixer into User Supplied audio recorder.	Required	<a href="https://www.amazon.com/Hosa-YMP-434-Stereo-Breakout-Cable/dp/B0010D0HO0/">https://www.amazon.com/Hosa-YMP-434-Stereo-Breakout-Cable/dp/B0010D0HO0/</a>	
9	1	Stereo 3.5mm Mini Female to Male XLR Audio Adaptor	13.99	To allow Headset mics to be plugged into Mixer.	Required	<a href="https://www.amazon.com/Ancable-Mini-Jack-Microphone-Converter-Camcorders/">https://www.amazon.com/Ancable-Mini-Jack-Microphone-Converter-Camcorders/</a>	
10	1	iBox Radio Interface	79.99	Kits are available for \$59.99 ( <a href="https://w2ihy.com/product/ibox-kit/">https://w2ihy.com/product/ibox-kit/</a> ) The iBox circuit diagram is available in the kit assembly manual. The circuit could be DIY wired to save even more money.	Required	<a href="https://w2ihy.com/product/ibox/">https://w2ihy.com/product/ibox/</a>	
11	1	Heil HS-2 Hand switch for PTT	58.95	Requires 1/4 TS female to RCA male adapter	Required	<a href="https://www.amazon.com/Heil-HS-2-Hand-switch-PTT/dp/B00AR0BJFI">https://www.amazon.com/Heil-HS-2-Hand-switch-PTT/dp/B00AR0BJFI</a>	
12	1	Hosa Cable GPR104 1/4 Inch Female TS To RCA Male Adaptor	3.75	Required for Heil HS-2 PTT Switch for iBox connection	Required	<a href="https://www.amazon.com/Hosa-GPR-104-Female-Male-Adaptor/dp/B000068Q3V/">https://www.amazon.com/Hosa-GPR-104-Female-Male-Adaptor/dp/B000068Q3V/</a>	
13	2	NUBWO U3 3.5mm Gaming Headset for PC	19.99	Mic needs a windscreen. I've found item 13 to fit the mic. You may find a better headset. 2 - max for 4 total headsets.	Optional	<a href="https://www.amazon.com/NUBWO-U3-Nintendo-Computer-Microphone/dp/B07MY2BZXY/">https://www.amazon.com/NUBWO-U3-Nintendo-Computer-Microphone/dp/B07MY2BZXY/</a>	Did not purchase and test to ensure mic is hot enough to provide good audio as part of 2024 update. You will need to purchase, test, and return if mic is not acceptable.  Only need if using more than the two required headsets.
14	1	WUGEUSCH 10 Pack Foam Windscreen Mini-size, Lapel Headset Microphone Cover, Black - Noise Reduction and Protection	4.97	Required for Nubwo headsets. Their mic needs a windscreen.	Optional	<a href="https://www.amazon.com/Pack-Mini-Windscreen-Headset-Microphone/dp/B0CJBQMZ4M/">https://www.amazon.com/Pack-Mini-Windscreen-Headset-Microphone/dp/B0CJBQMZ4M/</a>	I found these as a replacement. I have not verified that they will fit the gaming headsets. I would get the gaming headset first and measure the size of the mic to ensure windscreen fits. The windscreen link has multiple size options.
15	2	Hosa YMM232 6-Inch Y Adapter, 1/8-Inch Stereo Male-Dual 1/8-Inch Female	6.95	OPTIONAL - Without these, Operator and Logger headsets will work. 1 each of these adapters to allow each additional headset mic to work. 2 MAX for 4 working headsets total.	Optional	<a href="http://www.amazon.com/dp/B000068Q5G">http://www.amazon.com/dp/B000068Q5G</a>	
16	1	Fosmon Wired Stereo Gaming Headset [3.5mm TRRS Jackport] Adjustable Headband Headphones with Microphone Volume Control Remote (Black/Red)	12.99	The mic on this headset is not hot enough to provide adequate audio. All Headsets with TRRS plug will require this adapter (\$8.99) to breakout Headphone and Mic connections: <a href="http://www.amazon.com/Headphone-Splitter-Separate-Microphone-Aluminum-Adapter-Recommended">http://www.amazon.com/Headphone-Splitter-Separate-Microphone-Aluminum-Adapter-Recommended</a>	Not Recommended	<a href="http://www.amazon.com/Fosmon-Jackport-Adjustable-Headphones-Microphone">http://www.amazon.com/Fosmon-Jackport-Adjustable-Headphones-Microphone</a>	Did not review as part of 2024 update.
17	1	Etekcity RoverBeats Bravo Professional Over Ear Stereo Headset with Microphone, Headset Splitter, Black/Gray	11.95	Plugging in mic from this headset introduces hum into the mixer's audio.	Not Recommended	<a href="http://www.amazon.com/gp/product/B00HIW1E4Y">http://www.amazon.com/gp/product/B00HIW1E4Y</a>	Did not review as part of 2024 update.

Technical Credit:  
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Source Documents and Equipment Inventory List:  
<https://github.com/W4OFO/Ham-Radio-Mixer-Setup/wiki>



github.com