

	Doc name	Revision	Page	Creator
	Operational description LiteCom Plus	a.00	1 of 2	PRPU 2019-08-16
	Doc Type, Doc Description		Scale	Checked
	Operational description letter		N/A	
	LiteCom Plus			Approved

Operational description 3M Peltor LiteCom Plus

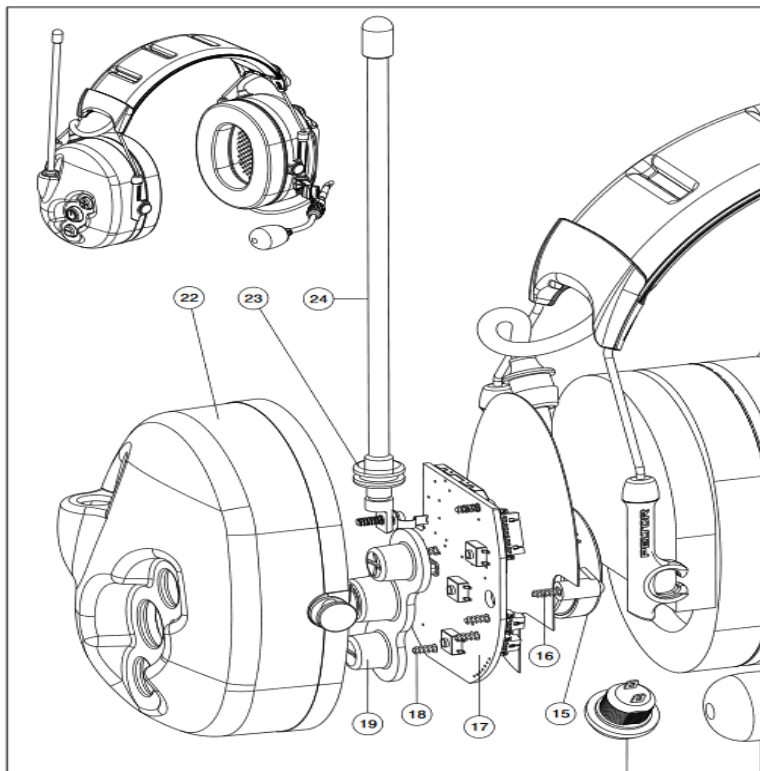
1.1 Statement

The 3M Peltor LiteCom plus is a hearing protector headset with a level dependent ambient listening, external connector to third party communication radio. It also offers built in radio communication over the FRS and BRS bands. The headset is intended for the USA only.

1.2 Theory of operation

The 3M Peltor LiteCom Plus is a hearing protector worn over the ear. It includes a half duplex Communication radio. The LiteCom Plus is working on the 462 and 467 MHz FRS band as well as 464 and 467 MHz BRS channels. The headset is using a dedicated Li-Ion battery pack.

1.3 Antenna



The Litecom antenna can be seen in the picture above as the long stick leaving the headset. The PCB itself works as a ground plane. Antenna gain 3.3 dBi.

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1.4 Technical data

Type of Equipment:	Family Radio Service Device (FRS), Business radio system (BRS)
Frequency Range: FRS:	462.5500-462.7250 MHz; 467.5625-467.7125 MHz
BRS:	464 5000-464.5500 MHz 467.7625-467.9250 MHz
Maximum Tune Up Tol.	1 dB
Antenna Information:	Integrated Antenna
Emission Designation:	6K60F3E
Operation mode:	Half duplex
Channels:	Max 30
Channel separation:	12.5 kHz
Modulation:	FM: 2.5 kHz
Microphone type:	Dynamic (MT7)
Receiver sensibility:	Typical-122 dBm
Output power:	200mW
Selective squelch:	CTCSS (38 sub channels) DCS (83 codes)
Range:	Up to 3 km depending on conditions
Power supply:	3.6 V Lilon ack-pack
Power consumption:	Stand-by: <59 mA
Receiving:	<70 mA
Transmission:	<210 mA
Operating time:	20 hours
Operating temperature:	-4°F to +131°F (-20°C to +55°C)
Storage temperature:	-40°F to +131°F (-40°C to +55°C)

(I) CTCSS (Continuous Tone Coded Squelch System)

1. 67.0	8. 88.5	15. 110.9	22. 141.3	29. 179.9	36. 233.6
2. 71.9	9. 91.5	16. 114.8	23. 146.2	30. 186.2	37. 241.8
3. 74.4	10. 94.8	17. 118.8	24. 151.4	31. 192.8	38. 250.3
4. 77.0	11. 97.4	18. 123.0	25. 156.7	32. 203.5	
5. 79.7	12. 100.0	19. 127.3	26. 162.2	33. 210.7	
6. 82.5	13. 103.5	20. 131.8	27. 167.9	34. 218.1	
7. 85.4	14. 107.2	21. 136.5	28. 173.8	35. 225.7	