

|                                                                                  |                                 |          |        |                 |
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|  | Doc name                        | Revision | Page   | Creator         |
|                                                                                  | Operational description Litecom | a.00     | 1 of 4 | PRPU 2019-03-14 |
|                                                                                  | Doc Type, Doc Description       |          | Scale  | Checked         |
|                                                                                  | Operational description letter  |          | N/A    |                 |
|                                                                                  | LiteCom                         |          |        | Approved        |

## Operational description 3M Peltor Litecom

To Whom It May Concern

### 1.1 Statement

This is a refiling to move into the FRS band only away from the GMRS band as approved earlier fro this product

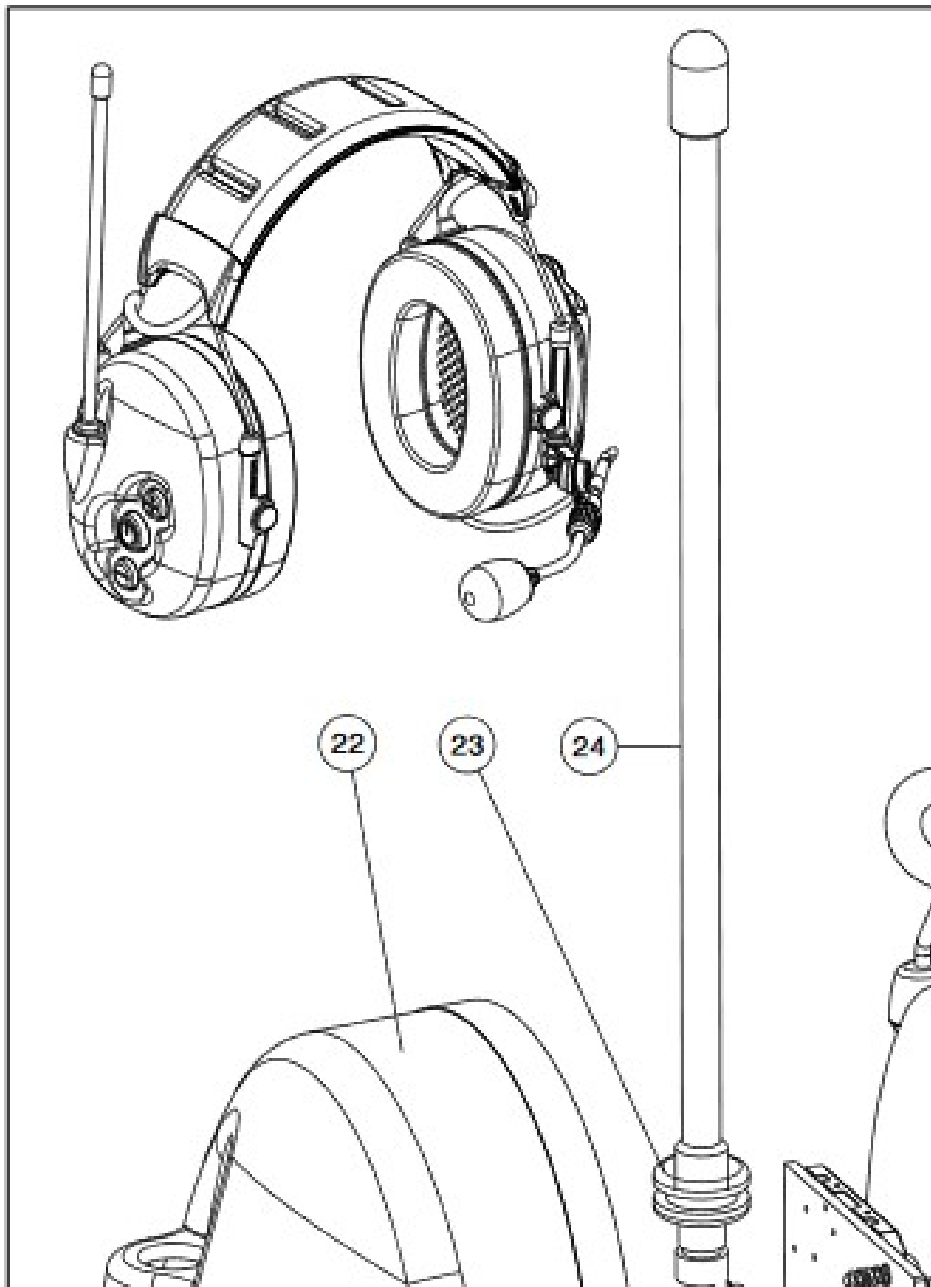
### 1.2 Theory of operation

The 3M Peltor Litecom is a hearing protector worn over the ear. It includes a half duplex Communication radio. The Litecom is working on the 462 and 467 MHz FRS band.

The headset is using 2 AA Alkaline batteries.

### 1.3 Antenna

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

## 1.4 Technical data

|                       |                                                 |
|-----------------------|-------------------------------------------------|
| Type of Equipment:    | Family Radio Service Device (FRS),              |
| Frequency Range: FRS: | 462.5500-462.7250 MHz;<br>467.5625-467.7125 MHz |
| GMRS:                 | 462.5500-462.7250 MHz                           |
| Maximum Tune Up Tol.  | 1 dB                                            |
| Antenna Information:  | Integrated Antenna                              |
| Emission Designation: | 7K10F3E                                         |

|                                                                                  |                                        |          |        |                 |
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|                                                                                  |                                        |          |        | Approved        |

Operation mode: Half duplex  
 Channels: Max 30  
 Channel separation: 12.5 kHz  
 Modulation: FM: 2.5 kHz  
 Microphone type: Electret (MT53)  
 Receiver sensibility: Typical-122 dBm  
 Output power: 150mW  
 Selective squelch: CTCSS (38 sub channels)  
 Range: Up to 3 km depending on conditions  
 Power supply: 2x AA alkaline (3,0 V) or NiMH (2,4 V )  
 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. |
| 2. | 71.9 | 9.  | 91.5  | 16. | 114.8 | 23. | 146.2 | 30. |
| 3. | 74.4 | 10. | 94.8  | 17. | 118.8 | 24. | 151.4 | 31. |
| 4. | 77.0 | 11. | 97.4  | 18. | 123.0 | 25. | 156.7 | 32. |
| 5. | 79.7 | 12. | 100.0 | 19. | 127.3 | 26. | 162.2 | 33. |