

## SHORT RANGE DEVICES.

This Annex details the bands used for Short Range Devices (SRDs). These bands are identified in the main table by footnote UK11.

This Annex has three sub-sections:

Table 1. **Harmonised Use.** This Table lists frequencies or frequency bands which are used in accordance with CEPT/ERC Recommendation 70-03. This is a new Recommendation on SRDs that has been designed to replace the many SRD recommendations that have emerged over the years. It both embodies those recommendations and covers new bands that have been made available for SRDs. The Recommendation consists of a number of annexes covering the major SRD applications and the sub-headings in Table 1 align with the annex numbers in the Recommendation. It is the aim of the Radiocommunications Agency to align the UK with this Recommendation wherever possible.

Table 2. **National Licence-exempt.** This Table lists frequencies or frequency bands for which agreement has been reached for SRDs to operate on a licence-exempt basis. These frequencies or frequency bands have been agreed nationally and may not be available elsewhere within the CEPT. It is the aim of the Radiocommunications Agency to align the UK's use with CEPT/ERC Recommendation 70-03 wherever practical.

Table 3. **National Licensed.** This Table lists frequencies or frequency bands for which agreement has been reached for SRDs to operate on a licensed basis.

In most cases, SRDs share spectrum with other users that generally operate at much higher powers. It should be noted that SRDs are not able to claim protection from any other service operating in the same frequency band. The “Major User” column details the main operators of services in those bands within which SRDs seek to operate.

When selecting parameters for new SRDs, which may have inherent safety of human life implications, manufacturers and users should pay particular attention to the potential for interference from other systems operating in the same or adjacent bands.

**ANNEX B – Table 1**

**Short Range Devices: Use in accordance with CEPT/ERC Recommendation 70-03**

| Code(a)   | Frequencies or Frequency Band | Radiated level(b) | Bandwidth(c) | Music or speech permitted | Duty Cycle  | Specification | Major User |
|---|-------------------------------|-------------------|--------------|---------------------------|-------------|---------------|------------|
| <b>1. Non-specific SRDs including Telemetry and Telecommand</b> |                               |                   |              |                           |             |               |            |
| 1b(d)   | 13 553 – 13 567 kHz(e)        | 42 dBµA/m @10 m   | -            | No                        | -           | EN 300 330    | MoD.       |
| 1d  | 40.66 – 40.7 MHz(e)           | 10 mW             | -            | Yes                       | -           | EN 300 220    | MoD.       |
| 1e  | 433.05 – 434.79 MHz(e)        | 10 mW             | -            | No                        | ≤10%        | EN 300 220    | MoD.       |
| e1  | 433.05 – 434.79 MHz(e)        | 1 mW              |              | No                        | Up to 100%  | EN 300 220    | MoD.       |
| e2  | 434.04 – 434.79 MHz           | 10 mW             | 25 kHz       | No                        | Up to 100%  | EN 300 220    | MoD.       |
| 1f  | 868 – 868.6 MHz               | 25 mW             | ≤ 25 kHz     | No                        | ≤ 1 %       | EN 300 220    | DTI.       |
| 1g  | 868.7 – 869.2 MHz             | 25 mW             | ≤ 25 kHz     | No                        | ≤ 0.1 %     | EN 300 220    | DTI.       |
| 1h  | 869.3 – 869.4 MHz             | 10 mW             | ≤ 25 kHz     | No                        | ≤ 10 %      | EN 300 220    | DTI.       |
| 1i  | 869.4 – 869.65 MHz            | 500 mW            | ≤ 25 kHz     | No                        | ≤ 10 %      | EN 300 220    | DTI.       |
| 1k  | 869.7 – 870 MHz               | 5 mW              | ≤ 25 kHz     | No                        | up to 100 % | EN 300 220    | DTI.       |
| 1l(f)   | 2400.0 – 2483.5 MHz(e)        | 10 mW(g)          | ≤ 20 MHz     | Yes                       | -           | EN 300 440    | MoD. DTI.  |
| 1m  | 5 725 – 5875 MHz              | 25 mW (g)         | -            | Yes                       | -           | EN 300 440    | MoD. DTI.  |

**2. Devices for the Detection of Avalanche Victims**

|    |         |                 |        |    |             |            |           |
|----|---------|-----------------|--------|----|-------------|------------|-----------|
| 2b | 457 kHz | 7 dBµA/m @ 10 m | C.W(h) | No | up to 100 % | EN 300 718 | MoD. DAP. |
|----|---------|-----------------|--------|----|-------------|------------|-----------|

**3. Radio Local Area Networks**

|    |                        |                |   |        |   |               |           |
|----|------------------------|----------------|---|--------|---|---------------|-----------|
| 3a | 2400.0 – 2483.5 MHz(e) | 100 mW (g) (i) | - | Yes(j) | - | EN 300 328    | MoD. DTI. |
| 3b | 5 150 – 5 250 MHz      | 200 mW (g)     | - | Yes(j) | - | ETS 300 836-1 | MoD. DAP. |

(a) The code refers to the CEPT/ERC Recommendation 70-03, the number references the appropriate annex and the letter the appropriate frequency band contained within the annex.

(b) The radiated power is referenced to the effective radiated power, unless otherwise stated

(c) Where the channel spacing is defined the centre frequency of the first channel is at a distance of channel spacing/2 from the lower frequency band edge

(d) Radio Frequency Induction applications

(e) This band is shared with other services with significantly higher radiated powers. SRD Applications cannot claim protection and shall not cause harmful interference to other radio services

(f) General short range device applications including Video applications may also be used in this band

(g) e.i.r.p.

(h) Continuous wave only - no modulation.

(i) e.i.r.p.: Devices using direct sequence spread spectrum are limited to a maximum spectrum power density of -20 dBW/1 MHz without exceeding the eirp value: For frequency hopping spread spectrum, the maximum spectrum power density is limited to -10 dBW/100 kHz without exceeding the eirp value.

(j) Analogue speech is not permitted.

|    |                   |            |   |        |   |               |           |
|----|-------------------|------------|---|--------|---|---------------|-----------|
| 3c | 5 250 – 5 350 MHz | 200 mW (g) | - | Yes(j) | - | ETS 300 836-1 | MoD. DAP. |
| 3d | 5 470 – 5 725 MHz | 1W(g)      | - | Yes(j) | - | ETS 300 836-1 | MoD. DAP. |

#### 4. Automatic Vehicle Identification for Railways

|    |                      |                  |                     |    |   |            |           |
|----|----------------------|------------------|---------------------|----|---|------------|-----------|
| 4a | 2 446 – 2 454 MHz(h) | 500 mW(g)        | ≤ 1.5 MHz           | No | - | EN 300 761 | MoD. DTI. |
| 4b | 27.095 MHz           | 42 dBμA/m @ 10 m | Fo ± < 5 kHz        | No | - | EN 300 330 | MoD. DTI. |
|    |                      | 5 dBμA/m @ 10 m  | Fo ± (5 to 200) kHz | No | - |            | MoD. DTI. |
|    |                      | -1 dBμA/m @ 10 m | Fo ± < 500 kHz      | No | - |            | MoD. DTI. |
| 4C | 4515 kHz             | 7 dBμA/m @ 10 m  |                     | No |   | EN 300 330 |           |

#### 5. Road Transport and Traffic Telematics

|       |                   |              |   |    |   |                             |      |
|-------|-------------------|--------------|---|----|---|-----------------------------|------|
| 5a    | 5 795 – 5 805 MHz | ≤ 33 dBm (g) | - | No | - | EN 300 674                  | DTI. |
| 5b    | 5 805 – 5 815 MHz | ≤ 33 dBm (g) | - | No | - | EN 300 674 or<br>EN 300 440 | DTI. |
| 5c    | 63 – 64 GHz       | tbd          | - | No | - | -                           | DTI. |
| 5d(i) | 76 – 77 GHz       | ≤ 55 dBm(j)  | - | No | - | EN 301 091                  | DTI. |

#### 6. Equipment for Detecting Movement or Alert

|    |                     |            |          |    |   |            |           |
|----|---------------------|------------|----------|----|---|------------|-----------|
| 6a | 2 445 – 2 455 MHz   | 500 mW (g) | ≤ 10 MHz | No | - | EN 300 440 | MoD. DTI. |
| 6d | 10.577 – 10.597 GHz | 500 mW (g) | ≤ 20 MHz | No | - | EN 300 440 | DTI.      |
| 6e | 13.4 – 14.0 GHz     | 500 mW (g) | -        | No | - | EN 300 440 | MoD.      |
| 6f | 24.15 – 24.25 GHz   | 500 mW (g) | -        | No | - | EN 300 440 | DTI.      |

#### 7. Alarms

|       |                     |       |          |    |        |            |      |
|-------|---------------------|-------|----------|----|--------|------------|------|
| 7a    | 868.6 – 868.7 MHz   | 10 mW | ≤ 25 kHz | No | ≤ 0.1% | EN 300 220 | DTI. |
| 7b    | 869.250 – 869.3 MHz | 10 mW | ≤ 25 kHz | No | ≤ 0.1% | EN 300 220 | DTI. |
| 7c    | 869.65 – 869.7 MHz  | 25 mW | ≤ 25 kHz | No | ≤ 10%  | EN 300 220 | DTI. |
| 7d(k) | 869.2 – 869.25 MHz  | 10 mW | ≤ 25 kHz | No | ≤ 0.1% | EN 300 220 | DTI. |

#### 8. Model Control

|    |   |        |        |    |   |            |           |
|----|---|--------|--------|----|---|------------|-----------|
| 8a | 26.995, 27.045, 27.095,<br>27.145, 27.195 MHz | 100 mW | 10 kHz | No | - | EN 300 220 | MoD. DTI. |
|----|---|--------|--------|----|---|------------|-----------|

(h) Channel centre frequencies; 2447, 2448.5, 2450, 2451.5 or 2453 MHz.

(i) Vehicle radar systems

(j) peak power eirp

(k) Social alarms only

(l) Flying models only allowed in this band

|       |  |        |          |    |   |            |           |
|-------|--|--------|----------|----|---|------------|-----------|
| 8b(l) | 34 995 – 35 225 MHz(e)                   | 100 mW | ≤ 10 kHz | No | - | EN 300 220 | MoD, DTI. |
| 8c(m) | 40 665, 40 675, 40 685,<br>40 695 MHz(e) | 100 mW | ≤ 10 kHz | No | - | EN 300 220 | MoD.      |

### 9. Inductive Applications

|     |                                    |  |   |    |   |            |           |
|-----|------------------------------------|--|---|----|---|------------|-----------|
| 9aa | 9 – 30 kHz(e)<br>30 – 59.75 kHz(e) | 72 dBµA/m @ 10 m<br>72 dB(A/m<br>descending<br>3.dB/octave | - | No | - | EN 300 330 | MoD, DTI. |
| 9ab | 59.75 – 60.25 kHz                  | 42 dBµA/m @ 10 m   |   | No |   | EN 300 330 |           |
| 9ac | 60.25 – 70 kHz                     | 69 dBµA/m descending<br>3 dB/octave                        |   |    |   | EN 300 330 |           |
| 9b  | 70 – 119 kHz(e)                    | 42 dBµA/m @ 10 m   | - | No | - | EN 300 330 | MoD, DTI. |
| 9c  | 119 – 135 kHz(e)                   | 66 dBµA/m descending<br>3 dB/octave                        | - | No | - | EN 300 330 | MoD, DTI. |
| 9d  | 6 765 – 6 795 kHz(e)               | 42 dBµA/m @ 10 m   | - | No | - | EN 300 330 | MoD.      |
| 9e  | 7 400 – 8 800 kHz(e)               | 9 dBµA/m @ 10 m  | - | No | - | EN 300 330 | MoD.      |
| 9f  | 13 553 – 13 567 kHz(e)             | 42 dBµA/m @ 10 m   | - | No | - | EN 300 330 | MoD.      |
| 9g  | 26.957 – 27.283 MHz(e)             | 42 dBµA/m @ 10 m   | - | No | - | EN 300 330 | MoD, DTI. |
| 9k  | 3 155 – 3 400 kHz                  | 13.5 dBµA/m @ 10 m   | - | No | - | EN 300 330 |           |

### 10. Radio Microphones

|     |                       |          |         |     |   |                             |  |
|-----|-----------------------|----------|---------|-----|---|-----------------------------|--|
| 10a | 29.7 – 47.0 MHz (n)   | 10 mW    | 50 kHz  | Yes | - | EN 300 422                  |  |
| 10b | 173.965 – 174.015 MHz | 2 mW     | 50 kHz  | Yes | - | EN 300 422                  |  |
| 10c | 863 – 865 MHz         | 10 mW    | 200 kHz | Yes | - | EN 300 422 or<br>EN 301 357 |  |
| 10d | 174 – 216 MHz(q)      | 10 mW(o) | 200 kHz | Yes |   | EN 300 422                  |  |
| 10e | 470 – 862 MHz(q)      | 10 mW(r) | 200 kHz | Yes |   | EN 300 422                  |  |
| 10f | 1 785 – 1 800 MHz(q)  | 10 mW(r) | 200 kHz | Yes |   | EN 301 840                  |  |

(m) Surface models only allowed in this band

(n) A licence is required to operate in this band, which is administered by the Joint Frequency Management Group on behalf of the Agency

(o) Up to 50 mW erp can be used for body worn devices only

### 11. Radio Frequency Identification Applications

|     |                   |               |        |          |                     |            |           |
|-----|-------------------|---------------|--------|----------|---------------------|------------|-----------|
| 11a | 2 446 – 2 454 MHz | 4 W<br>500 mW | -<br>- | No<br>No | < 15%<br>Up to 100% | EN 300 440 | MoD, DTI. |
|-----|-------------------|---------------|--------|----------|---------------------|------------|-----------|

### 12. Ultra Low Power Active Medical Implants

|     |               |      |   |    |   |            |                     |
|-----|---------------|------|---|----|---|------------|---------------------|
| 12a | 402 – 405 MHz | 25µW | - | No | - | EN 301 839 | MoD.<br>Met Office. |
|-----|---------------|------|---|----|---|------------|---------------------|

### 13. Wireless Audio Applications

|     |                 |       |           |     |   |            |      |
|-----|-----------------|-------|-----------|-----|---|------------|------|
| 13a | 863 – 865 MHz   | 10 mW | ≤ 300 kHz | Yes | - | EN 301 357 | DTI. |
| 13b | 864.8 – 865 MHz | 10 mW | 50 kHz    | Yes | - | EN 300 220 |      |

(p) The code refers to the CEPT/ERC Recommendation 70-03, the number references the appropriate annex and the letter the appropriate frequency band contained within the annex.

(q) The radiated power is referenced to the effective radiated power, unless otherwise stated

(r) Where the channel spacing is defined the centre frequency of the first channel is at a distance of channel spacing/2 from the lower frequency band edge

**ANNEX B – Table 2**

**Short Range Devices: Use in accordance with National allocations**

| Code | Frequencies or Frequency Band | Radiated level(s) | Bandwidth | Music or speech permitted | Duty Cycle | Specification | Major User |
|------|-------------------------------|-------------------|-----------|---------------------------|------------|---------------|------------|
|------|-------------------------------|-------------------|-----------|---------------------------|------------|---------------|------------|

**1. General Purpose Short Range Devices**

|      |                   |       |        |     |   |            |      |
|------|-------------------|-------|--------|-----|---|------------|------|
| G.1  | 49.82 – 49.98 MHz | 10 mW | 10 kHz | Yes | - | EN 300 220 | DTI. |
| G.1w | 49.82 – 49.98 MHz | 10 mW | -      | Yes | - | EN 300 220 | DTI. |

**2. Telemetry and Telecommand: General**

|        |  |        |             |     |   |            |           |
|--------|--|--------|-------------|-----|---|------------|-----------|
| T.1    | 26.995, 27.045, 27.095, 27.145, 27.195 MHz | 10 mW  | 10 kHz      | Yes | - | EN 300 220 | MoD, DTI. |
| T.2a   | 173.2 – 173.35 MHz                         | 1 mW   | 12.5 kHz(t) | No  | - | EN 300 220 | DTI.      |
| T.2b   | 173.2 – 173.35 MHz                         | 1 mW   | 25 kHz(u)   | No  | - | EN 300 220 | DTI.      |
| T.3(v) | 173.5875, 173.6 MHz                        | 10 mW  | 12.5 kHz    | Yes | - | EN 300 220 | DTI.      |
| T.4(w) | 212.1875 – 212.5625 MHz                    | 10 mW  | 12.5 kHz(x) | No  | - | EN 300 220 | DTI       |
| T.6    | 417.9 – 418.1 MHz                          | 250 µW | -           | No  | - | EN 300 220 | MoD.      |

**3. Telemetry and Telecommand: Industrial/Commercial**

|        |                      |            |             |    |   |            |           |
|--------|----------------------|------------|-------------|----|---|------------|-----------|
| T.2c   | 173.2 – 173.35 MHz   | 10 mW      | 12.5 kHz    | No | - | EN 300 220 | DTI.      |
| T.2d   | 173.2 – 173.35 MHz   | 10 mW      | 25 kHz      | No | - | EN 300 220 | DTI.      |
| T.2w   | 173.2 – 173.35 MHz   | 10 mW      | -           | No | - |            | DTI.      |
| T.5(w) | 215.4875 – 217.5 MHz | 10 mW      | 12.5 kHz(y) | No | - | EN 300 220 | DTI.      |
| T.7a   | 458.5 – 458.95 MHz   | 500 mW     | 12.5 kHz(z) | No | - | EN 300 220 | DTI.      |
| T.7b   | 458.5 – 458.95 MHz   | 500 mW     | 25 kHz(aa)  | No | - | EN 300 220 | DTI.      |
| T.8    | 2 445 – 2 455 MHz    | 100 mW(bb) | -           | No | - |            | MoD, DTI. |

(s) The radiated power is referenced to the effective radiated power, unless otherwise stated

(t) Channel numbers available 1, 3 – 11; Channel centre frequency = 173.2 MHz + (Bandwidth x Channel number)

(u) Channel numbers available 1- 5; Channel centre frequency = 173.2 MHz + (Bandwidth x Channel number)

(v) General telemetry & telecommand where speech is required as a secondary function

(w) This band is currently not allocated

(x) Channel numbers available 1- 29; Channel centre frequency = 212.1875 MHz + (Bandwidth x Channel number)

(y) Channel numbers available 1- 160; Channel centre frequency = 215.4875 MHz + (Bandwidth x Channel number): [This band may not be usable due to T-DAB.]

(z) Channel numbers available 1- 25, 28 -31, 33 – 35; Channel centre frequency = 458.5 MHz + (Bandwidth x Channel number)

(aa) Channel numbers available 1- 12, 14 – 15, 17; Channel centre frequency = 458.5 MHz + (Bandwidth x Channel number)

(bb) e.i.r.p.

#### 4. Telemetry: Databuoys

|     |   |        |        |    |   |            |           |
|-----|---|--------|--------|----|---|------------|-----------|
| D.1 | 35.3375, 35.3625, 35.3875,<br>35.4125, 35.4375, 35.4625 MHz | 250 mW | 25 kHz | No | - | EN 300 220 | MoD. DTI. |
|-----|---|--------|--------|----|---|------------|-----------|

#### 5. Alarms: For the Elderly and Infirm

|     |                                    |       |          |    |   |            |           |
|-----|------------------------------------|-------|----------|----|---|------------|-----------|
| A.1 | 27.450, 34.925, 34.950, 34.975 MHz | 500µW | 12.5 kHz | No | - | EN 300 220 | MoD. DTI. |
|-----|------------------------------------|-------|----------|----|---|------------|-----------|

#### 6. Alarms: Vehicle Paging

|         |            |        |          |    |   |            |      |
|---------|------------|--------|----------|----|---|------------|------|
| A.2     | 47.4 MHz   | 100 mW | 12.5 kHz | No | - | EN 300 220 | DTI. |
| A.8(cc) | 458.90 MHz | 100 mW | 12.5 kHz | No | - | EN 300 220 | DTI. |

#### 7. Alarms: General Alarms Associated with Marine Applications and Including Fixed Shore Installations

|         |             |       |          |    |   |            |      |
|---------|-------------|-------|----------|----|---|------------|------|
| A.3(dd) | 161.275 MHz | 10 mW | 12.5 kHz | No | - | EN 300 220 | DTI. |
|---------|-------------|-------|----------|----|---|------------|------|

#### 8. Alarms: Mobile and Transportable(ee)

|     |              |        |          |    |   |            |      |
|-----|--------------|--------|----------|----|---|------------|------|
| A.4 | 173.1875 MHz | 10 mW  | 12.5 kHz | No | - | EN 300 220 | DTI. |
| A.7 | 458.8375 MHz | 100 mW | 12.5 kHz | No | - | EN 300 220 | DTI. |

#### 9. Alarms: Fixed

|      |             |        |          |    |   |            |      |
|------|-------------|--------|----------|----|---|------------|------|
| A.5a | 173.225 MHz | 10 mW  | 12.5 kHz | No | - | EN 300 220 | DTI. |
| A.5b | 173.225 MHz | 10 mW  | 25 kHz   | No | - | EN 300 220 | DTI. |
| A.6  | 458.825 MHz | 100 mW | 12.5 kHz | No | - | EN 300 220 | DTI. |

#### 10. Medical and Biological Applications

|       |                         |                |          |    |   |            |                   |
|-------|-------------------------|----------------|----------|----|---|------------|-------------------|
| B.1   | 300 kHz-30 MHz          | 9 dBµA/m @10 m | -        | No | - | W6802      | MoD. DTI.<br>DAP. |
| B.2a  | 173.7 – 174 MHz         | 10 mW          | 12.5 kHz | No | - | EN 300 220 | DTI. HO/SO.       |
| B.2b  | 173.7 – 174 MHz         | 10 mW          | 25 kHz   | No | - | EN 300 220 | DTI. HO/SO.       |
| B.2.w | 173.7 – 174 MHz         | 10 mW          | -        | No | - | EN 300 220 | DTI. HO/SO.       |
| B.3a  | 458.9625 – 459.1000 MHz | 500 mW         | 12.5 kHz | No | - | EN 300 220 | DTI.              |

(cc) Vehicle radio keys may also use this band with a maximum radiated power of 1 mW

(dd) This frequency may also be used on land for the storage or transportation of vessels

(ee) May also be used for Lone Worker Safety Alarms

### 11. Model Control

|         |                     |        |            |    |   |            |           |
|---------|---------------------|--------|------------|----|---|------------|-----------|
| M.1     | 26 960 – 27 280 kHz | 100 mW | 10 kHz(ff) | No | - | EN 300 220 | MoD. DTI. |
| M.2(gg) | 34.945 – 35.305 MHz | 100 mW | 10 kHz(hh) | No | - | EN 300 220 | MoD. DTI. |
| M.3(ii) | 40.66 – 1.00 MHz    | 100 mW | 10 kHz(jj) | No | - | EN 300 220 | MoD.      |
| M.5     | 433.05 – 434.79 MHz | 10 mW  | 25 kHz     | No | - | EN 300 220 |           |
| M.4     | 458.5 – 459.5 MHz   | 100 mW | 25 kHz     | No | - | EN 300 220 | DTI.      |

### 12. Equipment for the Detection of Movement or Alert

|         |                     |            |        |    |   |            |           |
|---------|---------------------|------------|--------|----|---|------------|-----------|
| (kk)    | 888.0 – 889.0 MHz   | 500 mW     | 25 kHz | No | - | EN 300 440 | DTI.      |
| F.1(ll) | 2 445 – 2 455 MHz   | 100 mW(bb) | -      | No | - | EN 300 440 | MOD. DTI. |
| F.6     | 5 725 – 5 875 MHz   | 25 mW(bb)  | -      | No | - | EN 300 440 | -         |
| F.2     | 10.577 – 10.597 GHz | 1 W(bb)    | -      | No | - | EN 300 440 | DTI.      |
| F.3(mm) | 10.675 – 10.699 GHz | 1 W(bb)    | -      | No | - | EN 300 440 | DTI.      |
| F.7     | 13.4 – 14.0 GHz     | 500 mW(bb) | -      | No | - | EN 300440  |           |
| F.4     | 24.150 – 24.250 GHz | 2 W(bb)    | -      | No | - | EN 300 440 | DTI.      |
| F.5(nn) | 24.250 – 24.350 GHz | 2 W(bb)    | -      | No | - | EN 300 440 | DTI.      |

### 13. Radio Microphones

|     |                           |       |         |     |   |            |            |
|-----|---------------------------|-------|---------|-----|---|------------|------------|
| R.1 | 173.775 – 175.075 MHz(oo) | 10 mW | 50 kHz  | Yes | - | EN 300 422 | DTI.       |
| R.2 | 173.7 – 175.1 MHz(pp)     | 10 mW | 180 kHz | Yes | - | EN 300 422 | DTI.HO/SO. |

### 14. Radio Hearing Aids

|     |                         |      |        |     |   |            |  |
|-----|-------------------------|------|--------|-----|---|------------|--|
| H.1 | 173.375-175.075 MHz(qq) | 2 mW | 50 kHz | Yes | - | EN 300 422 |  |
|-----|-------------------------|------|--------|-----|---|------------|--|

(ff) Channel numbers available 1 - 32; Channel centre frequency = 26.955 MHz + (Bandwidth x Channel number)

(gg) Flying models only allowed in this band

(hh) Channel numbers available 1- 30; Channel centre frequency = 34.95 MHz + (Bandwidth x Channel number)

(ii) Surface models only allowed in this band

(jj) Channel numbers available 1- 34; Channel centre frequency = 40.655 MHz + (Bandwidth x Channel number)

(kk) This service is due to be withdrawn by 31st December 2003; Equipment cannot be type approved for use in this band after 31st December 1998

(ll) Tagging and Identification Applications only

(mm) For indoor use only

(nn) For use in mobile applications only, fixed installations are not permitted

(oo) Channel numbers available 10 to 35; Channel centre frequency = 173.3 MHz = (Bandwidth x Channel number)

(pp) Channel numbers available 1 to 7; Channel centre frequency = 173.6 MHz = (Bandwidth x Channel number)

(qq) Preferred channels 1 to 5, 7 to 9. Channels 10 to 35 may be used as an alternative allocation, however, these channels are shared with radio microphones and other applications: Channel centre frequency = 173.3 MHz = (Bandwidth x Channel number)

### 15. Short Range Indoor Data Links

|     |                     |            |   |         |            |            |           |
|-----|---------------------|------------|---|---------|------------|------------|-----------|
| S.1 | 2 445 – 2 455 MHz   | 100 mW(bb) | - | Yes(rr) | -          | EN 300 440 | MoD. DTI. |
| S.3 | 5 725 – 5 875 MHz   | 25 mW(bb)  | - | Yes(rr) | EN 300 440 |            |           |
| S.2 | 10 675 – 10 699 GHz | 1 W(bb)    | - | Yes(rr) | -          | EN 300 440 | DTI.      |

### 16. Cordless Audio Equipment

|     |  |       |   |     |   |            |      |
|-----|--|-------|---|-----|---|------------|------|
| C.1 | 36.61 – 36.79 MHz<br>37.01 – 37.19 MHz | 10 µW | - | Yes | - | EN 300 220 | MoD. |
| C.2 | 2 400 – 2 483.5 MHz                    | 10 mW | - | Yes | - | EN 300 422 | MoD. |

### 17. Wireless Video Cameras – Non Broadcasting

|     |                     |            |        |         |   |            |     |
|-----|---------------------|------------|--------|---------|---|------------|-----|
| V.1 | 1 394 MHz           | 500 mW(bb) | 10 MHz | Yes(ss) | - | EN 300 440 | MoD |
| V.2 | 2 400 – 2 483.5 MHz | 10 mW(bb)  | 20 MHz | Yes     | - | EN 300 440 |     |
| V.3 | 5 725 – 5 875 MHz   | 25 mW(bb)  | 20 MHz | Yes     | - | EN 300 440 |     |

### 18. Video Distribution for Private Use

|     |                   |           |        |         |   |            |      |
|-----|-------------------|-----------|--------|---------|---|------------|------|
| V.2 | 1 389 – 1 399 MHz | 10 mW(bb) | 20 MHz | Yes(ss) | - | EN 300 440 | MoD. |
|-----|-------------------|-----------|--------|---------|---|------------|------|

### 19. Induction Applications

|      |                     |                    |   |         |   |            |                  |
|------|---------------------|--------------------|---|---------|---|------------|------------------|
| I.1  | 9 – 185 kHz         | 48 dBµA/m @ 10 m   | - | Yes     | - | EN 300 330 | MoD,DTI.<br>DAP. |
| I.2  | 240 – 315 kHz       | 24 dBµA/m @ 10 m   | - | No      | - | EN 300 330 | MoD,DTI.<br>DAP. |
| I.3a | 2 – 30 MHz          | -9.5 dBµA/m @ 10 m | - | Yes(tt) |   | EN 300 330 | MoD,DTI.<br>DAP. |
| I.3b | 2 – 30 MHz          | 9 dBµA/m @ 10 m    | - | No      |   | EN 300 330 | MoD,DTI.<br>DAP. |
| I.5  | 6 795 – 6 795 kHz   | 42 dBµA/m @ 10 m   |   | No      |   | EN 300 330 |                  |
| I.4  | 13 533 – 13 587 kHz | 21.5 dBµA/m @ 10 m | - | No      | - | EN 300 330 | Mo.              |
| I.6  | 26 957 – 27 283 MHz | 42 dBµA/m @ 10 m   |   | No      |   | EN 300 330 |                  |

### Metal Detectors: For Hobby use and the Detection of Wiring or Pipes within a Building or Dwelling

|     |               |                 |   |    |   |     |          |
|-----|---------------|-----------------|---|----|---|-----|----------|
| I.7 | 9 – 148.5 KHz | 70 dBµA/m @ 6 m | - | No | - | N/A | MoD,DTI. |
|-----|---------------|-----------------|---|----|---|-----|----------|

(rr) Analogue speech is not permitted

(ss) Only when associated with the video application

(tt) speech is only permitted

**ANNEX B – Table 3**  
**Short Range Devices Not Exempt From Licensing**

|  |
|--|
| <b>1 Radar Level Gauges</b>  |
| Manufacturer is required to submit technical details. A proposal is submitted to the NFAP and, if approved, the user is required to apply for a site licence   |
| <b>2 Ground Probing Radars</b>   |
| The use of 150 – 4000 MHz by Ground Probing Radars employing wide band pulse techniques is permitted on a non-interference basis. This is subject to the following conditions which were set out in T(N)(94)11: <ol style="list-style-type: none"><li>1. That the total radiated power does not exceed 0.25 mW and that the radiated power per spectral line does not exceed 100 nW.</li><li>2. That the radiation measured outside the antenna shield does not exceed 10 nW.</li><li>3. That a specification be written to cover these devices.</li><li>4. That a code of practice be written to cover the use of these types of equipment.</li><li>5. That a label should be prominently attached to the equipment warning that use could be stopped on request by a duly authorised person and that operators must be instructed not to operate the equipment in close proximity to other receiving equipment.</li></ol> In addition, the device must be fitted with an anti-tilt mechanism and the specifications and code of practice must have been agreed by the Home Office. |