



# FILTER SHEET

HK AUDIO CADIS TOP-SUB, LAB.GRUPPEN IPD1200/2400

|            | 2x CAD208 | 4x CAD208 | 6x CAD208 | 8x CAD208 | 12x CAD208 | 16x CAD208 | CAD115 |  |  |  |
|------------|-----------|-----------|-----------|-----------|------------|------------|--------|--|--|--|
|            | 130Hz     | 130Hz     | 130Hz     | 130Hz     | 130Hz      | 130Hz      | 130Hz  |  |  |  |
| Phase      | REV       | REV       | REV       | REV       | REV        | REV        | NORM   |  |  |  |
| Delay [ms] | 0         | 0         | 0         | 0         | 0          | 0          | 0      |  |  |  |

## High Pass

|             |       |       |       |       |       |       |       |  |  |  |
|-------------|-------|-------|-------|-------|-------|-------|-------|--|--|--|
| Frequ. [Hz] | 142   | 142   | 142   | 142   | 142   | 142   | 46    |  |  |  |
| Shape       | But24 | But24 | But24 | But24 | But24 | But24 | But24 |  |  |  |

## Low Pass

|             |     |     |     |     |     |     |       |  |  |  |
|-------------|-----|-----|-----|-----|-----|-----|-------|--|--|--|
| Frequ. [Hz] | Off | Off | Off | Off | Off | Off | 129   |  |  |  |
| Shape       | x   | x   | x   | x   | x   | x   | But24 |  |  |  |

## EQ1

|             |      |      |      |      |      |      |      |  |  |  |
|-------------|------|------|------|------|------|------|------|--|--|--|
| Type        | Bell | Bell | Bell | Bell | Bell | Bell | Bell |  |  |  |
| Frequ. [Hz] | 147  | 147  | 147  | 147  | 147  | 147  | 64   |  |  |  |
| Q/Bandwidth | 2.3  | 2.3  | 2.3  | 2.3  | 2.3  | 2.3  | 2.3  |  |  |  |
| Gain [dB]   | -4   | -4   | -4   | -4   | -4   | -4   | 2.5  |  |  |  |

## EQ2

|             |      |      |      |      |      |      |      |  |  |  |
|-------------|------|------|------|------|------|------|------|--|--|--|
| Type        | Bell | Bell | Bell | Bell | Bell | Bell | Bell |  |  |  |
| Frequ. [Hz] | 190  | 190  | 190  | 190  | 190  | 190  | 129  |  |  |  |
| Q/Bandwidth | 3    | 3    | 3    | 3    | 3    | 3    | 1    |  |  |  |
| Gain [dB]   | -0.5 | -0.5 | -0.5 | -0.5 | -0.5 | -0.5 | -2   |  |  |  |

## EQ3

|             |      |      |      |      |      |       |      |  |  |  |
|-------------|------|------|------|------|------|-------|------|--|--|--|
| Type        | Bell | Bell | Bell | Bell | Bell | Bell  | Bell |  |  |  |
| Frequ. [Hz] | 705  | 705  | 705  | 705  | 705  | 700   | 370  |  |  |  |
| Q/Bandwidth | 2.2  | 2.2  | 2.2  | 2.2  | 2.2  | 2     | 3    |  |  |  |
| Gain [dB]   | -3.4 | -3.4 | -3.4 | -3.4 | -3.4 | -3.75 | -6   |  |  |  |

## EQ4

|             |      |      |      |      |      |      |  |  |  |  |
|-------------|------|------|------|------|------|------|--|--|--|--|
| Type        | Bell | Bell | Bell | Bell | Bell | Bell |  |  |  |  |
| Frequ. [Hz] | 1.5k | 1.5k | 1.5k | 1.5k | 1.5k | 1.5k |  |  |  |  |
| Q/Bandwidth | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  |  |  |  |  |
| Gain [dB]   | -4.6 | -4.6 | -4.6 | -4.6 | -4.6 | -4.6 |  |  |  |  |

## EQ5

|             |       |       |       |       |       |       |  |  |  |  |
|-------------|-------|-------|-------|-------|-------|-------|--|--|--|--|
| Type        | Bell  | Bell  | Bell  | Bell  | Bell  | Bell  |  |  |  |  |
| Frequ. [Hz] | 4.88k | 4.88k | 4.88k | 4.88k | 4.88k | 4.88k |  |  |  |  |
| Q/Bandwidth | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   |  |  |  |  |
| Gain [dB]   | -12   | -12   | -12   | -12   | -12   | -12   |  |  |  |  |

## EQ6

|             |           |           |           |           |           |           |  |  |  |  |
|-------------|-----------|-----------|-----------|-----------|-----------|-----------|--|--|--|--|
| Type        | Low Shelf | Low Shelf | Low Shelf | Low Shelf | Low Shelf | Low Shelf |  |  |  |  |
| Frequ. [Hz] | 453       | 453       | 453       | 453       | 453       | 453       |  |  |  |  |
| Q/Bandwidth | 16dB/oct  | 16dB/oct  | 16dB/oct  | 16dB/oct  | 16dB/oct  | 16dB/oct  |  |  |  |  |
| Gain [dB]   | 1         | -0.2      | -1.75     | -3.25     | -4.75     | -7        |  |  |  |  |

## EQ7

|             |            |            |            |            |            |            |  |  |  |  |
|-------------|------------|------------|------------|------------|------------|------------|--|--|--|--|
| Type        | High Shelf | High Shelf | High Shelf | High Shelf | High Shelf | High Shelf |  |  |  |  |
| Frequ. [Hz] | 10k        | 10k        | 10k        | 10k        | 10k        | 10k        |  |  |  |  |
| Q/Bandwidth | 16dB/oct   | 16dB/oct   | 16dB/oct   | 16dB/oct   | 16dB/oct   | 16dB/oct   |  |  |  |  |
| Gain [dB]   | 0.4        | 0.4        | 0.4        | 0.4        | 0.4        | 0.4        |  |  |  |  |

## EQ8

|             |  |  |  |  |  |  |  |  |  |  |
|-------------|--|--|--|--|--|--|--|--|--|--|
| Type        |  |  |  |  |  |  |  |  |  |  |
| Frequ. [Hz] |  |  |  |  |  |  |  |  |  |  |
| Q/Bandwidth |  |  |  |  |  |  |  |  |  |  |
| Gain [dB]   |  |  |  |  |  |  |  |  |  |  |

## EQ9

|             |  |  |  |  |  |  |  |  |  |  |
|-------------|--|--|--|--|--|--|--|--|--|--|
| Type        |  |  |  |  |  |  |  |  |  |  |
| Frequ. [Hz] |  |  |  |  |  |  |  |  |  |  |
| Q/Bandwidth |  |  |  |  |  |  |  |  |  |  |
| Gain [dB]   |  |  |  |  |  |  |  |  |  |  |

## EQ10

|             |  |  |  |  |  |  |  |  |  |  |
|-------------|--|--|--|--|--|--|--|--|--|--|
| Type        |  |  |  |  |  |  |  |  |  |  |
| Frequ. [Hz] |  |  |  |  |  |  |  |  |  |  |
| Q/Bandwidth |  |  |  |  |  |  |  |  |  |  |
| Gain [dB]   |  |  |  |  |  |  |  |  |  |  |

## Peak Limiter

|              |    |    |    |    |    |    |    |  |  |  |
|--------------|----|----|----|----|----|----|----|--|--|--|
| Vpk [dB]     | 98 | 98 | 98 | 98 | 98 | 98 | 98 |  |  |  |
| Release [ms] | 15 | 15 | 15 | 15 | 15 | 15 | 20 |  |  |  |

## RMS Limiter

|              |       |       |       |       |       |       |       |  |  |  |
|--------------|-------|-------|-------|-------|-------|-------|-------|--|--|--|
| Tresh. [dBu] | 29    | 29    | 29    | 29    | 29    | 29    | 42    |  |  |  |
| Attack [ms]  | 15    | 15    | 15    | 15    | 15    | 15    | 20    |  |  |  |
| Hold [ms]    | 10    | 10    | 10    | 10    | 10    | 10    | 30    |  |  |  |
| Release [ms] | 80    | 80    | 80    | 80    | 80    | 80    | 205   |  |  |  |
| Ratio        | 1.6:1 | 1.6:1 | 1.6:1 | 1.6:1 | 1.6:1 | 1.6:1 | 1.2:1 |  |  |  |
| Gain [dB]    | 0     | 0     | 0     | 0     | 0     | 0     | 0     |  |  |  |



# FILTER SHEET

HK AUDIO CADIS FULLRANGE, LAB.GRUPPEN IPD1200/2400

|            | 2x CAD208 FR |     | 4x CAD208 FR |     | 6x CAD208 FR |     | 8x CAD208 FR |     | 12x CAD208 |     | 16x CAD208 |  |
|------------|--------------|-----|--------------|-----|--------------|-----|--------------|-----|------------|-----|------------|--|
|            |              |     |              |     |              |     |              |     | FR         | FR  |            |  |
| Phase      | REV          | REV | REV          | REV | REV          | REV | REV          | REV | REV        | REV |            |  |
| Delay [ms] | 0            | 0   | 0            | 0   | 0            | 0   | 0            | 0   | 0          | 0   |            |  |

### High Pass

|             |       |       |       |       |       |       |  |  |  |  |  |  |
|-------------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|--|
| Frequ. [Hz] | 91    | 91    | 91    | 91    | 91    | 91    |  |  |  |  |  |  |
| Shape       | But24 | But24 | But24 | But24 | But24 | But24 |  |  |  |  |  |  |

### Low Pass

|             |     |     |     |     |     |     |  |  |  |  |  |  |
|-------------|-----|-----|-----|-----|-----|-----|--|--|--|--|--|--|
| Frequ. [Hz] | Off | Off | Off | Off | Off | Off |  |  |  |  |  |  |
| Shape       | X   | X   | X   | X   | X   | X   |  |  |  |  |  |  |

### EQ1

|             |      |      |      |      |      |      |  |  |  |  |  |  |
|-------------|------|------|------|------|------|------|--|--|--|--|--|--|
| Type        | Bell | Bell | Bell | Bell | Bell | Bell |  |  |  |  |  |  |
| Frequ. [Hz] | 88   | 88   | 88   | 88   | 88   | 88   |  |  |  |  |  |  |
| Q/Bandwidth | 0.9  | 0.9  | 0.9  | 0.9  | 0.9  | 0.9  |  |  |  |  |  |  |
| Gain [dB]   | 3    | 3    | 3    | 3    | 3    | 3    |  |  |  |  |  |  |

### EQ2

|             |      |      |      |      |      |      |  |  |  |  |  |  |
|-------------|------|------|------|------|------|------|--|--|--|--|--|--|
| Type        | Bell | Bell | Bell | Bell | Bell | Bell |  |  |  |  |  |  |
| Frequ. [Hz] | 147  | 147  | 147  | 147  | 147  | 147  |  |  |  |  |  |  |
| Q/Bandwidth | 2.3  | 2.3  | 2.3  | 2.3  | 2.3  | 2.3  |  |  |  |  |  |  |
| Gain [dB]   | -4   | -4   | -4   | -4   | -4   | -4   |  |  |  |  |  |  |

### EQ3

|             |      |      |      |      |      |      |  |  |  |  |  |  |
|-------------|------|------|------|------|------|------|--|--|--|--|--|--|
| Type        | Bell | Bell | Bell | Bell | Bell | Bell |  |  |  |  |  |  |
| Frequ. [Hz] | 705  | 705  | 705  | 705  | 705  | 700  |  |  |  |  |  |  |
| Q/Bandwidth | 2.2  | 2.2  | 2.2  | 2.2  | 2.2  | 2.1  |  |  |  |  |  |  |
| Gain [dB]   | -3.4 | -3.4 | -3.4 | -3.4 | -3.4 | -3.6 |  |  |  |  |  |  |

### EQ4

|             |      |      |      |      |      |      |  |  |  |  |  |  |
|-------------|------|------|------|------|------|------|--|--|--|--|--|--|
| Type        | Bell | Bell | Bell | Bell | Bell | Bell |  |  |  |  |  |  |
| Frequ. [Hz] | 1.5k | 1.5k | 1.5k | 1.5k | 1.5k | 1.5k |  |  |  |  |  |  |
| Q/Bandwidth | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  |  |  |  |  |  |  |
| Gain [dB]   | -4.6 | -4.6 | -4.6 | -4.6 | -4.6 | -4.6 |  |  |  |  |  |  |

### EQ5

|             |       |       |       |       |       |       |  |  |  |  |  |  |
|-------------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|--|
| Type        | Bell  | Bell  | Bell  | Bell  | Bell  | Bell  |  |  |  |  |  |  |
| Frequ. [Hz] | 4.88k | 4.88k | 4.88k | 4.88k | 4.88k | 4.88k |  |  |  |  |  |  |
| Q/Bandwidth | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   |  |  |  |  |  |  |
| Gain [dB]   | -12   | -12   | -12   | -12   | -12   | -12   |  |  |  |  |  |  |

### EQ6

|             |           |           |           |           |           |           |  |  |  |  |  |  |
|-------------|-----------|-----------|-----------|-----------|-----------|-----------|--|--|--|--|--|--|
| Type        | Low Shelf | Low Shelf | Low Shelf | Low Shelf | Low Shelf | Low Shelf |  |  |  |  |  |  |
| Frequ. [Hz] | 453       | 453       | 453       | 453       | 453       | 473       |  |  |  |  |  |  |
| Q/Bandwidth | 16dB/oct  | 16dB/oct  | 16dB/oct  | 16dB/oct  | 16dB/oct  | 16dB/oct  |  |  |  |  |  |  |
| Gain [dB]   | 1.5       | 0.25      | -1.25     | -2.85     | -4.5      | -6.5      |  |  |  |  |  |  |

### EQ7

|             |            |            |            |            |            |            |  |  |  |  |  |  |
|-------------|------------|------------|------------|------------|------------|------------|--|--|--|--|--|--|
| Type        | High Shelf | High Shelf | High Shelf | High Shelf | High Shelf | High Shelf |  |  |  |  |  |  |
| Frequ. [Hz] | 10k        | 10k        | 10k        | 10k        | 10k        | 10k        |  |  |  |  |  |  |
| Q/Bandwidth | 16dB/oct   | 16dB/oct   | 16dB/oct   | 16dB/oct   | 16dB/oct   | 16dB/oct   |  |  |  |  |  |  |
| Gain [dB]   | 0.4        | 0.4        | 0.4        | 0.4        | 0.4        | 0.4        |  |  |  |  |  |  |

### EQ8

|             |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Type        |  |  |  |  |  |  |  |  |  |  |  |  |
| Frequ. [Hz] |  |  |  |  |  |  |  |  |  |  |  |  |
| Q/Bandwidth |  |  |  |  |  |  |  |  |  |  |  |  |
| Gain [dB]   |  |  |  |  |  |  |  |  |  |  |  |  |

### EQ9

|             |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Type        |  |  |  |  |  |  |  |  |  |  |  |  |
| Frequ. [Hz] |  |  |  |  |  |  |  |  |  |  |  |  |
| Q/Bandwidth |  |  |  |  |  |  |  |  |  |  |  |  |
| Gain [dB]   |  |  |  |  |  |  |  |  |  |  |  |  |

### EQ10

|             |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Type        |  |  |  |  |  |  |  |  |  |  |  |  |
| Frequ. [Hz] |  |  |  |  |  |  |  |  |  |  |  |  |
| Q/Bandwidth |  |  |  |  |  |  |  |  |  |  |  |  |
| Gain [dB]   |  |  |  |  |  |  |  |  |  |  |  |  |

### Peak Limiter

|              |    |    |    |    |    |    |  |  |  |  |  |  |
|--------------|----|----|----|----|----|----|--|--|--|--|--|--|
| Vpk [dB]     | 98 | 98 | 98 | 98 | 98 | 98 |  |  |  |  |  |  |
| Release [ms] | 15 | 15 | 15 | 15 | 15 | 15 |  |  |  |  |  |  |

### RMS Limiter

|              |       |       |       |       |       |       |  |  |  |  |  |  |
|--------------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|--|
| Tresh. [dBu] | 29    | 29    | 29    | 29    | 29    | 29    |  |  |  |  |  |  |
| Attack [ms]  | 15    | 15    | 15    | 15    | 15    | 15    |  |  |  |  |  |  |
| Hold [ms]    | 10    | 10    | 10    | 10    | 10    | 10    |  |  |  |  |  |  |
| Release [ms] | 80    | 80    | 80    | 80    | 80    | 80    |  |  |  |  |  |  |
| Ratio        | 1.6:1 | 1.6:1 | 1.6:1 | 1.6:1 | 1.6:1 | 1.6:1 |  |  |  |  |  |  |
| Gain [dB]    | 0     | 0     | 0     | 0     | 0     | 0     |  |  |  |  |  |  |