IVM 4

Main Menu Overview

SST 4 / SPR 4

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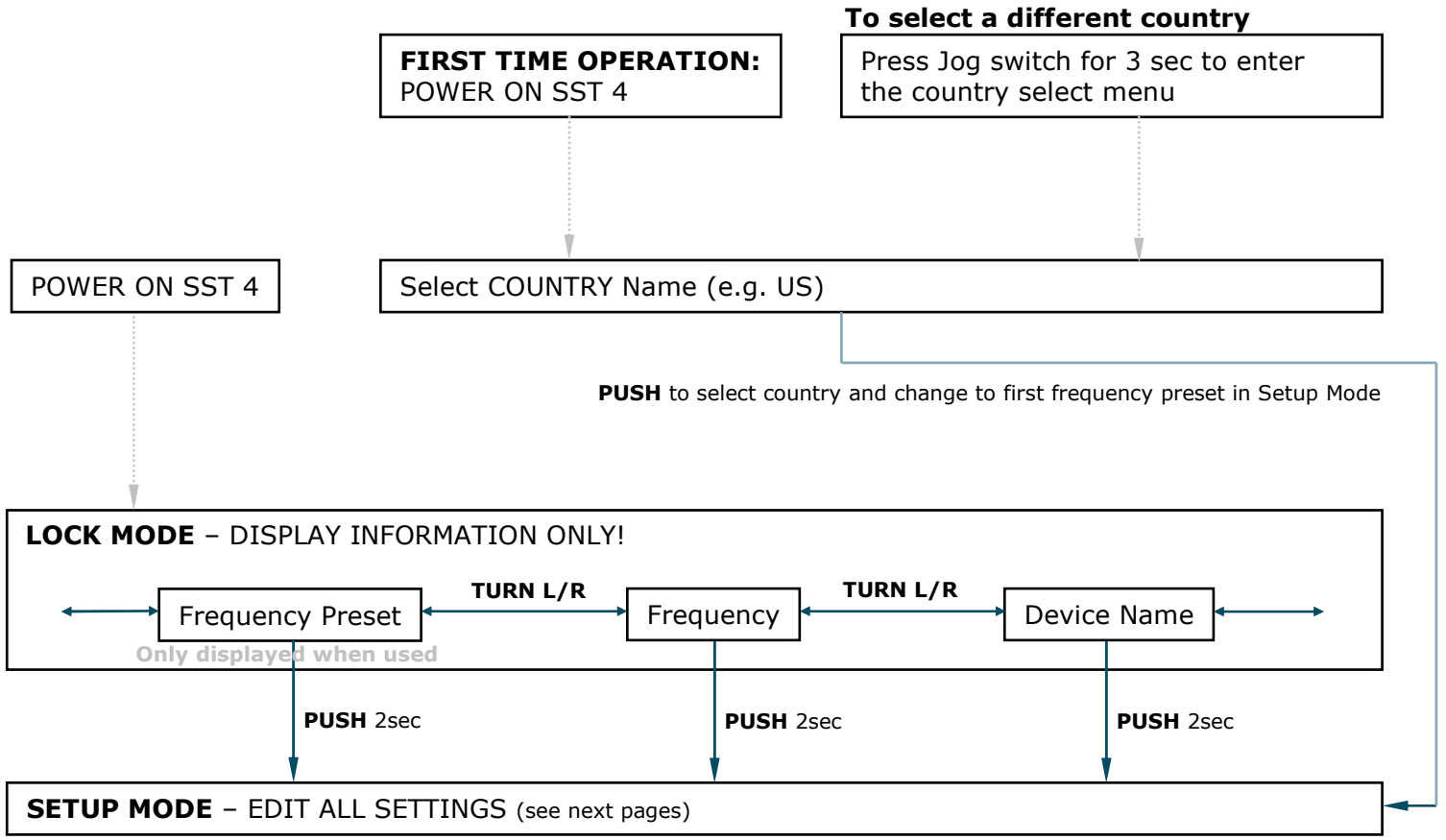
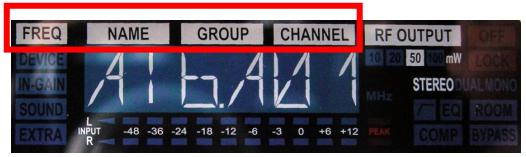
SST 4 – MAIN MENUE – OVERVIEW



SST 4 – MAIN MENUE – SETUP MODE 1/3



Freq. Preset

PUSH TO SELECT **Group, Channel** and **RF Power**
(See Owner Manual Chapter 3.5.7)

TURN RIGHT

Frequency

PUSH TO SELECT **Frequency** and **RF Power**.
(See Owner Manual Chapter 3.5.8)

TURN RIGHT

Device

PUSH TO SET **Device** Name.
(See Owner Manual Chapter 3.5.10)

TURN RIGHT

In-Gain

PUSH TO SET **Input Gain**.
(See Owner Manual Chapter 3.5.11)

TURN RIGHT

Sound | Bass Cut

PUSH TO SET **Bass Cut**-off Frequency.
(See Owner Manual Chapter 4.1.1)

(SOUND Menues – See next Page!)

SST 4 – MAIN MENUE - SETUP MODE 2/3

Sound → Equalizer

PUSH TO SELECT **EQ** Preset.
(See Owner Manual Chapter 4.1.1)

TURN RIGHT

Sound → Room

PUSH TO SELECT **Room Simulation** Preset.
(See Owner Manual Chapter 4.1.1)

TURN RIGHT

Sound → Comp.

PUSH TO SELECT **Compressor** Preset.
(See Owner Manual Chapter 4.1.1)

TURN RIGHT

Sound → Bypass

PUSH TO ACTIVATE/DEACTIVATE **Bypass**.
(See Owner Manual Chapter 4.1.1)

TURN RIGHT

Extra

PUSH TO ENTER **Extra** Menu.

TURN RIGHT to return to **Frequency Preset** Menu.

TURN RIGHT

SST 4 – MAIN MENUE - SETUP MODE 3/3

Mode

PUSH TO SELECT **Mode**.
(See Owner Manual Chapter 4.1.2)

TURN RIGHT

Lock

PUSH TO SET **Auto Lock**.
(See Owner Manual Chapter 4.1.2)

TURN RIGHT

Light

PUSH TO SET **Light**.
(See Owner Manual Chapter 4.1.2)

TURN RIGHT

Info

PUSH TO Display **Info**.
(See Owner Manual Chapter 4.1.2)

TURN RIGHT

Reset

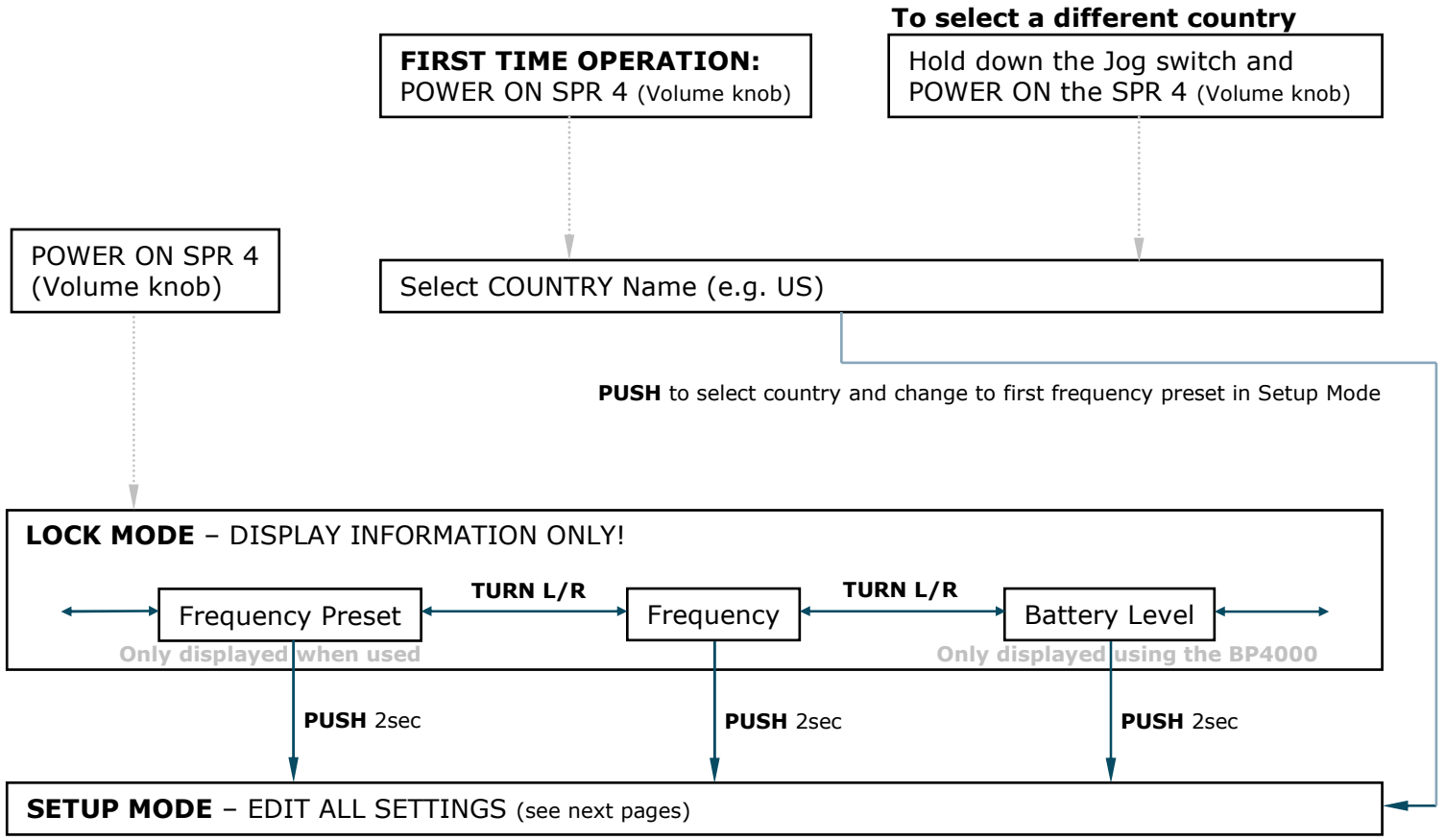
PUSH FOR **Factory Reset**.
(See Owner Manual Chapter 4.1.2)

TURN RIGHT

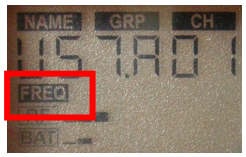
Escape

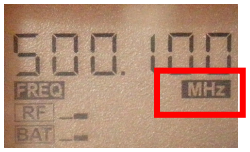
PUSH TO return to **Extra** Menu.

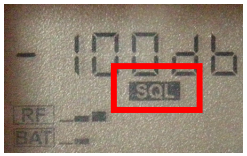
SPR 4 – MAIN MENUE – OVERVIEW

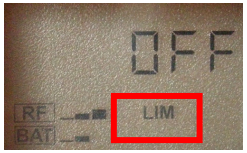


SPR 4 – MAIN MENUE - SETUP MODE 1/2









TURN DOWN

PUSH DOWN TO goto **Auto Channel** Menu.

Freq. Preset

PUSH TO SELECT Frequency **Preset**.
(See Owner Manual Chapter 3.4.6)

TURN UP

Frequency

PUSH TO SELECT **Frequency**.
(See Owner Manual Chapter 3.4.6)

TURN UP

Field Scan

PUSH TO START **Field** Scan.
(See Owner Manual Chapter 4.2.1)

TURN UP

Squelch

PUSH TO SET **Squelch** Level.
(See Owner Manual Chapter 4.2.2)

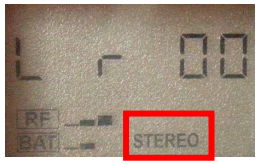
TURN UP

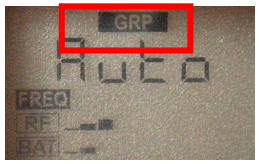
Limiter

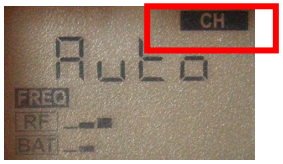
PUSH TO ACTIVATE/DEACTIVATE Safety **Limiter**.
(See Owner Manual Chapter 4.2.3)

TURN UP

SPR 4 – MAIN MENUE - SETUP MODE 2/2







Balance

PUSH TO SET **Balance** and **DUAL** Mode.
(See Owner Manual Chapter 4.2.4)

TURN UP

Info

PUSH TO display **Info**.
(See Owner Manual Chapter 4.2.5)

TURN UP

Auto Group

PUSH TO START **Auto Group** Setup.
(See Owner Manual Chapter 3.4.5)

TURN UP

Auto Channel

PUSH TO START **Auto Channel** Setup.
(See Owner Manual Chapter 3.6)

TURN UP TO return to **Frequency Preset** Menu.

IVM 4

Audio Presets Details

SST 4

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H A Harman International Company

AKG SOUNDS BETTER

COMPRESSOR

All COMPRESSOR Presets have one GOAL:

- Create a precise and well-balanced monitoring level by
  - maintaining all sound nuances and
  - a natural control behavior without artifacts

AKG ROOM SIMULATION

All ROOM SIMULATION Presets have one GOAL:

- Generate a natural listening environment.
- Offering:
  – a precise mix and
  – better wearing comfort of the earphones

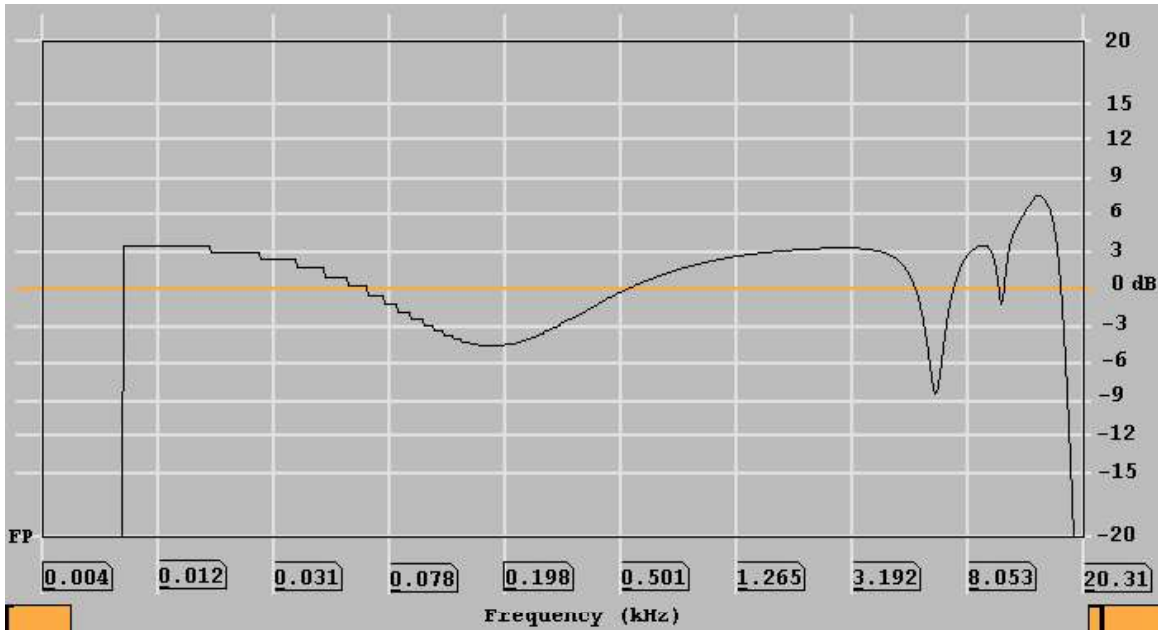
EQUALIZER

All EQUALIZER Presets have one GOAL:

- Provide solutions for typical sound-problems of stage-monitoring:
  - improve transparency
  - soften a harsh sound

EQUALIZER – IP 2 PRESET

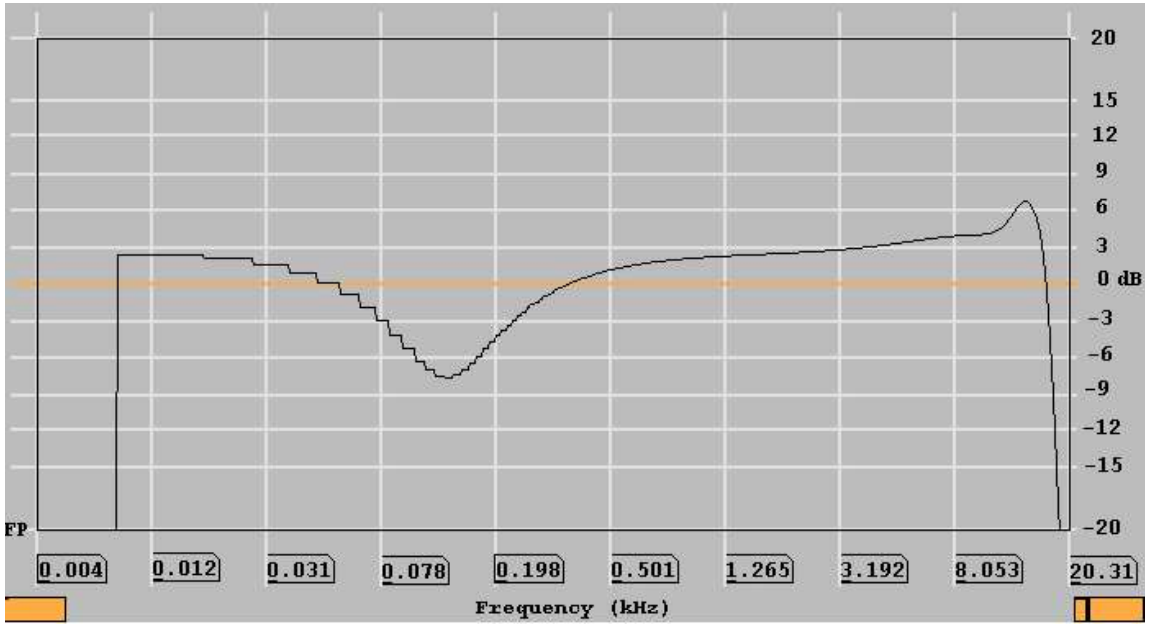
IP 2: Correction curve for a neutral sound with the IP 2 earphones



Remark: The development software has a poor graphical resolution below 100 Hz

EQUALIZER – CLEAR PRESETS

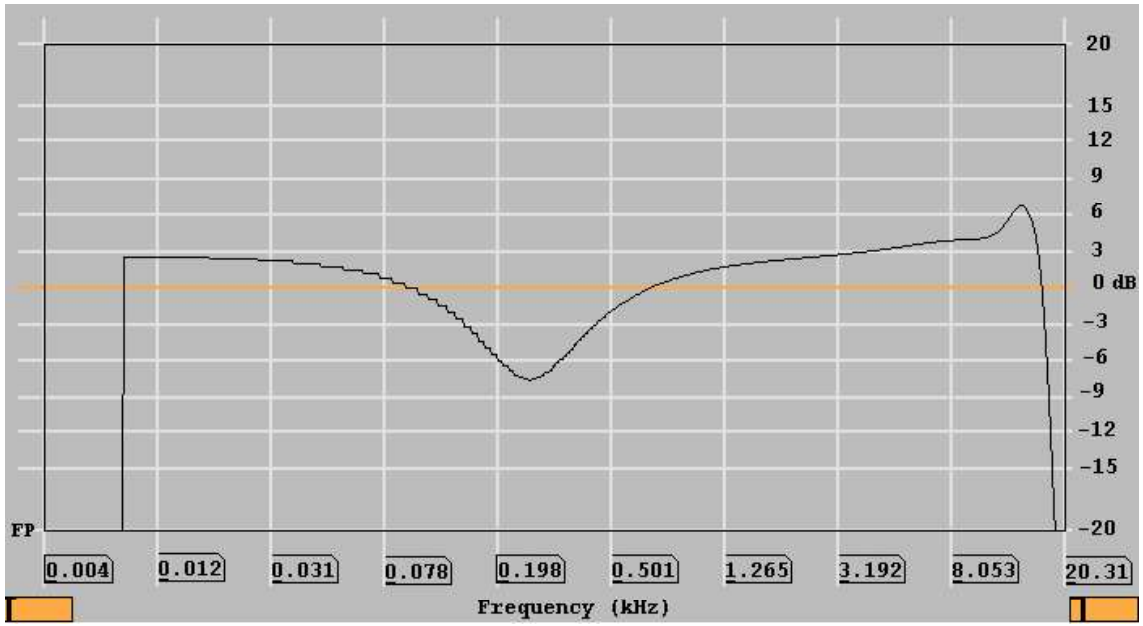
CLEAR 1: 7 dB attenuation at 125 Hz



Remark: The development software has a poor graphical resolution below 100 Hz

EQUALIZER – CLEAR PRESETS

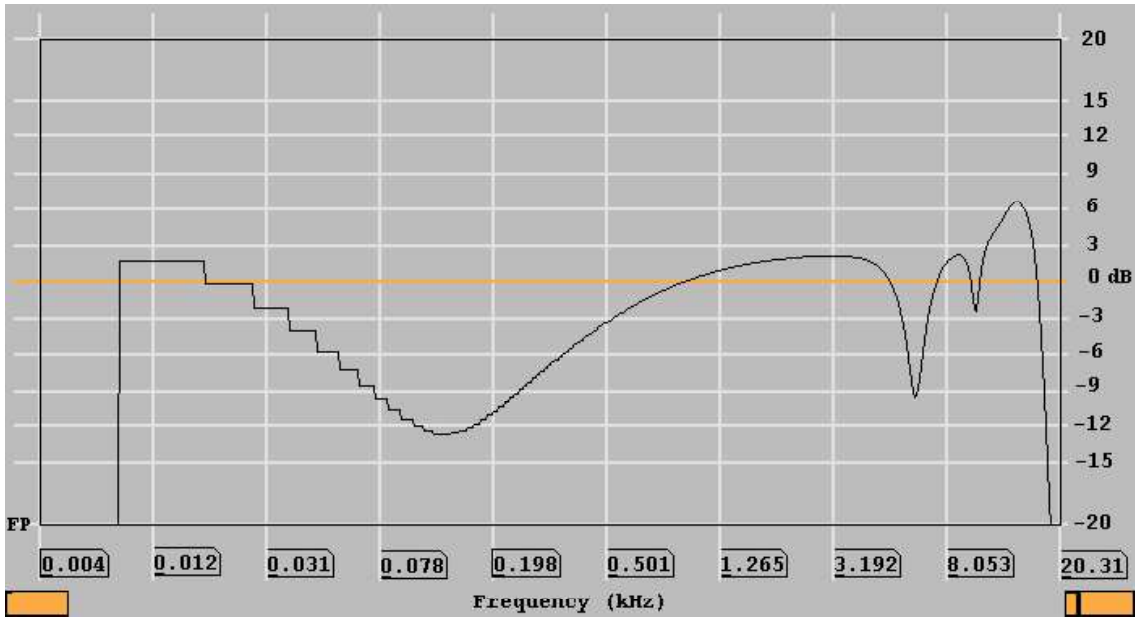
CLEAR 2: 7 dB attenuation at 250 Hz



Remark: The development software has a poor graphical resolution below 100 Hz

EQUALIZER – CLEAR PRESETS

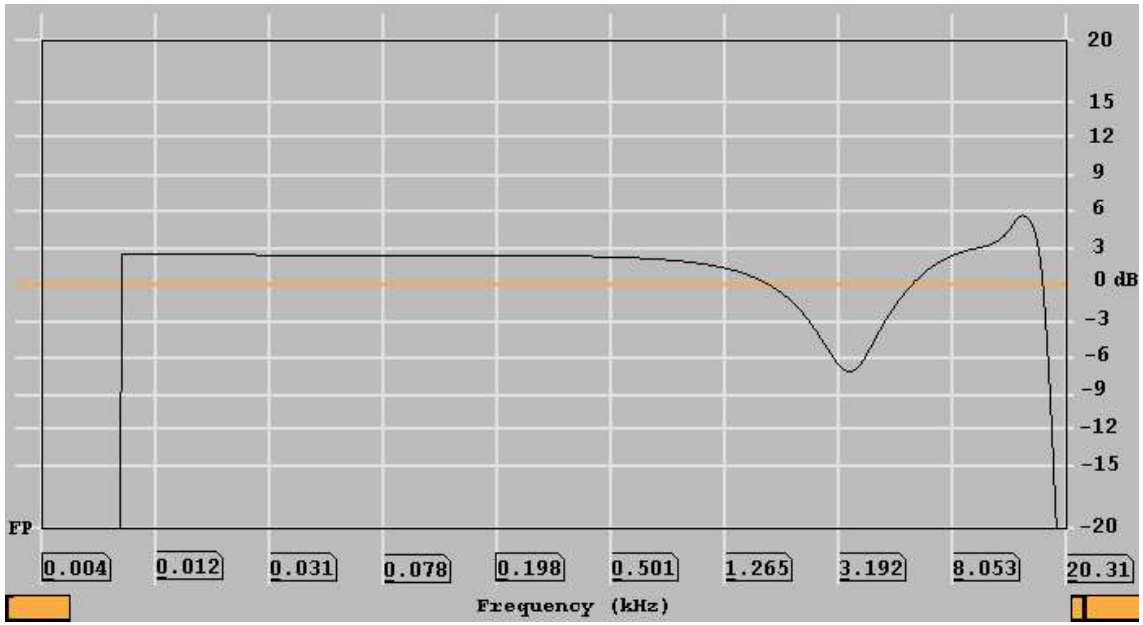
CLEAR 3: IP 2 correction curve plus 7 dB attenuation at 125 Hz



Remark: The development software has a poor graphical resolution below 100 Hz

EQUALIZER – SOFT PRESETS

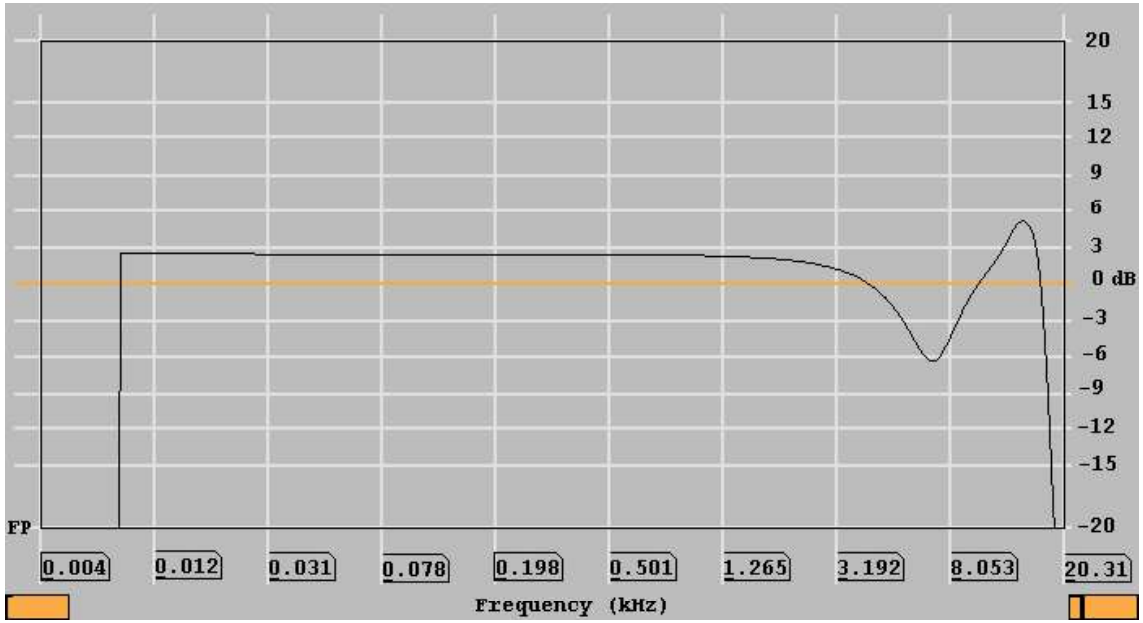
SOFT 1: 7 dB attenuation at 3.4 kHz



Remark: The development software has a poor graphical resolution below 100 Hz

EQUALIZER – SOFT PRESETS

SOFT 2: 7 dB attenuation at 6.8 kHz



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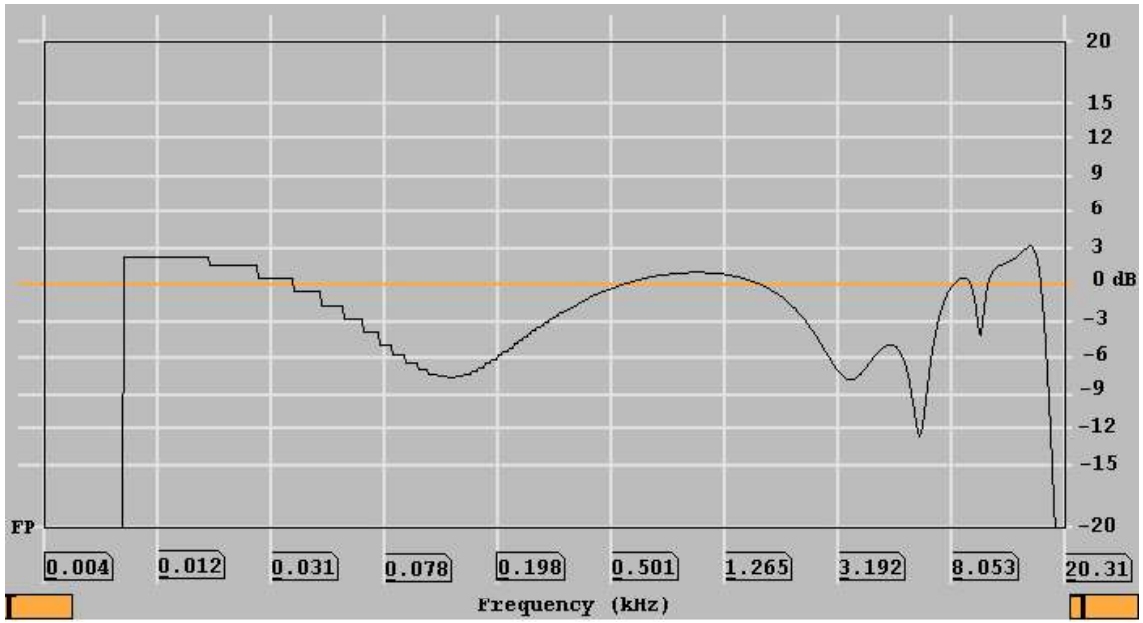
EQUALIZER – SOFT PRESETS

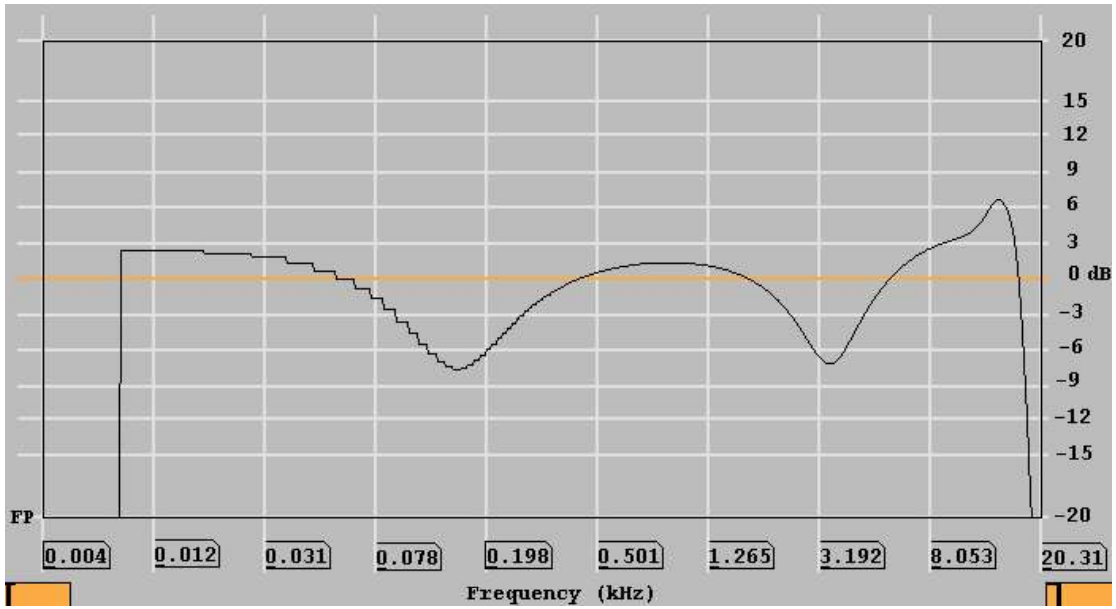
SOFT 3: IP 2 correction curve plus 7 dB attenuation at 3.4 kHz



Remark: The development software has a poor graphical resolution below 100 Hz

EQUALIZER – WARM PRESETS

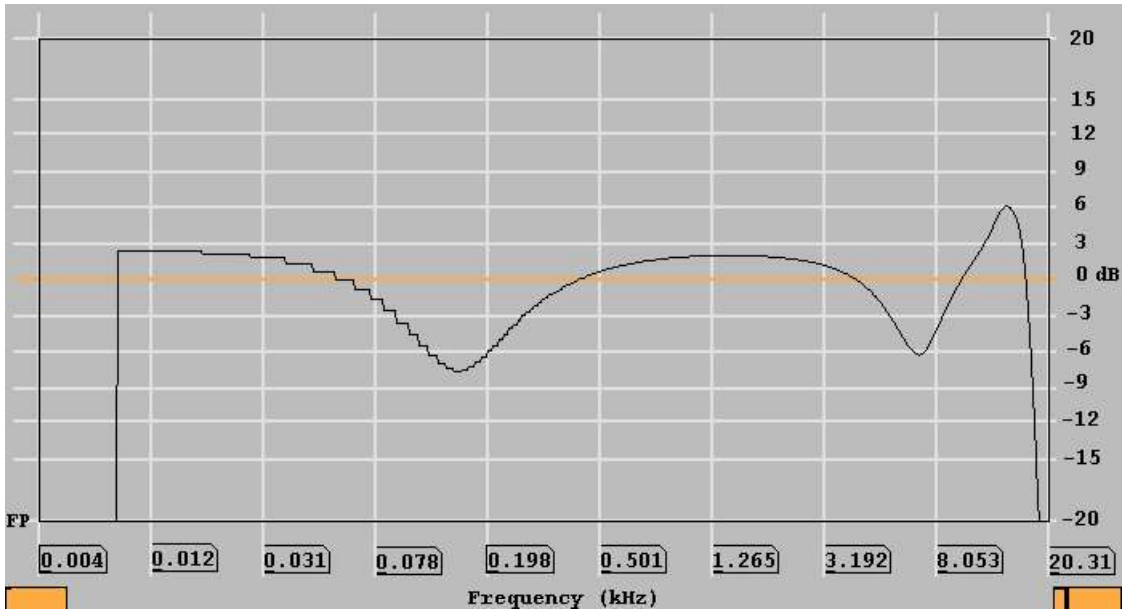
WARM 1: 7 dB attenuation at 125 Hz and 3.4 kHz



Remark: The development software has a poor graphical resolution below 100 Hz

EQUALIZER – WARM PRESETS

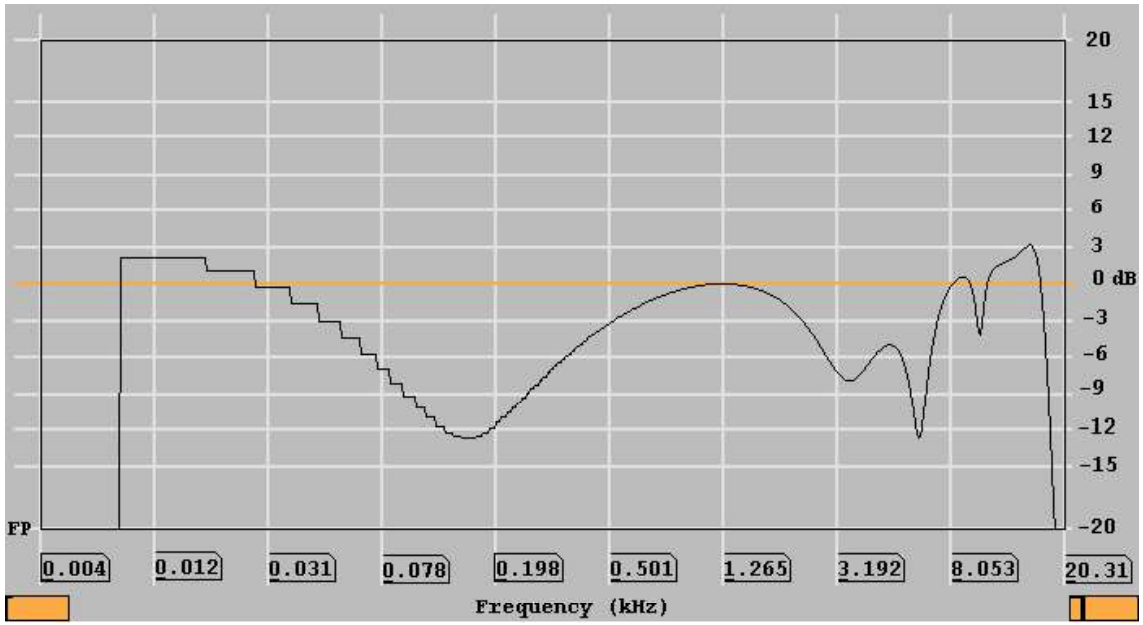
WARM 2: 7 dB attenuation at 125 Hz and 6.8 kHz



Remark: The development software has a poor graphical resolution below 100 Hz

EQUALIZER – WARM PRESETS

WARM 3: IP 2 correction curve plus 7 dB attenuation at 125 Hz and 3.4 kHz



Remark: The development software has a poor graphical resolution below 100 Hz

COMPRESSOR

All COMPRESSOR Presets have one GOAL:

- Create a precise and well-balanced monitoring level by
  - maintaining all sound nuances and
  - a natural control behavior without artifacts

EQUALIZER – COMPRESSOR PRESETS

SOFT 1 - 3: soft and gentle compression

SOFT 1:	**SOFT 2:**	**SOFT 3:**
Threshold: -22 dB	Threshold: -14 dB	Threshold: -22 dB
Ratio: 2 : 1	Ratio: 4.4 : 1	Ratio: 3 : 1
Knee: 0.2	Knee: 0	Knee: 0.2
(0 .. Soft / 1 .. Hard)	(0 .. Soft / 1 .. Hard)	(0 .. Soft / 1 .. Hard)
Makeup Gain: 8 dB	Makeup Gain: 8 dB	Makeup Gain: 12 dB
Attack Time: 32 ms	Attack Time: 32 ms	Attack Time: 32 ms
Release Time: 373 ms	Release Time: 373 ms	Release Time: 373 ms

EQUALIZER – COMPRESSOR PRESETS

MED 1 - 3: standard compression, enhancement of intelligibility and loudness

MED 1:

Threshold: -42 dB
Ratio: 1.4 : 1
Knee: 0
(0 .. Soft / 1 .. Hard)
Makeup Gain: 10 dB
Attack Time: 60 ms
Release Time: 756 ms

MED 2:

Threshold: -42 dB
Ratio: 1.8 : 1
Knee: 0.3
(0 .. Soft / 1 .. Hard)
Makeup Gain: 12 dB
Attack Time: 60 ms
Release Time: 756 ms

MED 3:

Threshold: -50 dB
Ratio: 1.4 : 1
Knee: 0.3
(0 .. Soft / 1 .. Hard)
Makeup Gain: 12 dB
Attack Time: 60 ms
Release Time: 756 ms

EQUALIZER – COMPRESSOR PRESETS

HARD 1 - 3: aggressive compression

HARD 1:

Threshold: -22 dB
Ratio: 3.6 : 1
Knee: 0.3
(0 .. Soft / 1 .. Hard)
Makeup Gain: 14 dB
Attack Time: 32 ms
Release Time: 623 ms

HARD 2:

Threshold: -14 dB
Ratio: 5.2 : 1
Knee: 0.3
(0 .. Soft / 1 .. Hard)
Makeup Gain: 14 dB
Attack Time: 17 ms
Release Time: 60 ms

HARD 3:

Threshold: -32 dB
Ratio: 5.2 : 1
Knee: 0
(0 .. Soft / 1 .. Hard)
Makeup Gain: 20 dB
Attack Time: 17 ms
Release Time: 146 ms

EQUALIZER – COMPRESSOR PRESETS

LIM 1 / 2: limiter settings

LIM 1:

Threshold: -6 dB
Ratio: 10 : 1
Knee: 0.7
(0 .. Soft / 1 .. Hard)
Makeup Gain: 0 dB
Attack Time: 19 ms
Release Time: 1000 ms

LIM 2:

Threshold: -6 dB
Ratio: 10 : 1
Knee: 0.7
(0 .. Soft / 1 .. Hard)
Makeup Gain: 0 dB
Attack Time: 19 ms
Release Time: 100 ms

EQUALIZER – TECHNICAL LIMITER

The technical limiter is the last block in the SST 4 audio processing chain.

It prevents the RF transmission from distortion.

Settings: Threshold: 0 dB
Ratio: (infinite) : 1
Attack Time: 0 ms
Release Time: 70 ms

You get the most gain and the best S/N with the IVM4 system with an optimal modulated RF transmission.

TIPP:

Set the In-Gain so that the gain reduction display indicates a little reduction from time to time!