

Duo
Digital



ACI 25



DESCRIPTION

2 channel, 3 program digital hearing aid
17 programmable parameters
Stand alone software
Faceplate: Pink, tan or brown
Shell: Faceplate matching, red or blue color
Microphone screen

No charge options

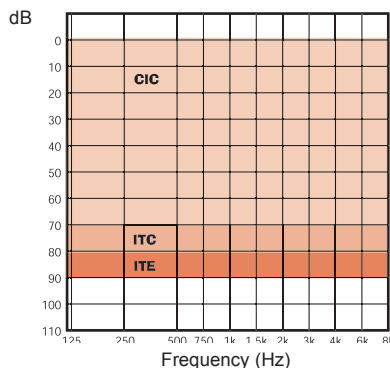
Multiprogram
External volume control
Iros
Adjustable venting selection
Bell canal
Hypoallergenic
Removal notches
Wax guard
On/Off switch

Additional cost options

Programmable telecoil
"Intellimic" directional microphone



FITTING RANGE



Duo, our entirely digital hearing aid, combines Canadian technology and flexibility. To program its two channels, three programs and 17 parameters, takes only a few minutes with our Audio Fit software. It is available in different models : ITE, ITC and CIC and includes a warning signal for low battery and a program change indicator. Our dual point compression system allows to position the thresholds and calculate the ratios. Our programmable telecoil ensures a clear understanding of any conversation. Our I-Fit system adjusts the hearing aid according to the audiogram. Our "PASS" Wizard (Patient Application Solutions System) is used to solve minor changes that may occur while programming the hearing aid. Our "SAM" system (Situations Automated Manager) gives environmental adaptability.



I.T.E.



I.T.C.



C.I.C.

PERFORMANCES DATA	ANSI S3.22-1987				IEC 118-7 1994			
	Typical			Limits	Typical			Limits
Styles	ITE	ITC	CIC		ITE	ITC	CIC	
SSPL Saturation (dB)								
Peak	116	114	109	±4	116	114	109	±4
HF-average	115	113	106	±4	-	-	-	-
SPL Gain (dB)								
Peak	55	50	45	±4	55	50	45	±4
HF-average	47	43	35	±4	-	-	-	-
Reference test gain (dB)								
1 000 - 1 600 - 2 500 Hz	38	33	29	±4	-	-	-	-
1 600 Hz	-	-	-	-	38	34	28	±4
Frequency response (Hz)	200-8000				-			
Total harmonic distortion (%)								
Input 70 dB @ 500 Hz	1,0	0,4	2,7	<8	-	-	-	-
Input 70 dB @ 800 Hz	0,8	0,7	2,8	<8	-	-	-	-
Input 70 dB @ 1 000 Hz	-	-	-	-	1,3	0,8	2,7	<8
Input 65 dB @ 1 600 Hz	1,2	0,5	3,5	<8	-	-	-	-
Battery life (hrs)								
13 ZA	206	-	-	-	222	-	-	-
312 ZA	103	114	-	-	111	125	-	-
10 ZA	-	57	70	-	-	63	71	-
Battery life (mA)	1,07	0,96	0,79	-	0,99	0,88	0,77	-
Equivalent input noise (dB)	23	26	27	<32	24	30	24	<35
Attack time (ms)	-				-			
Release time (ms)	-				-			

Added features

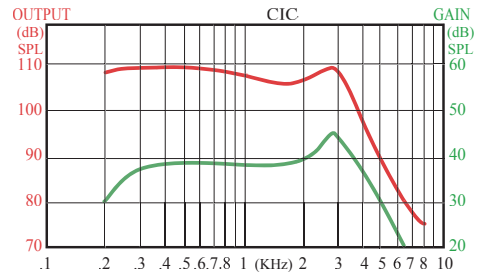
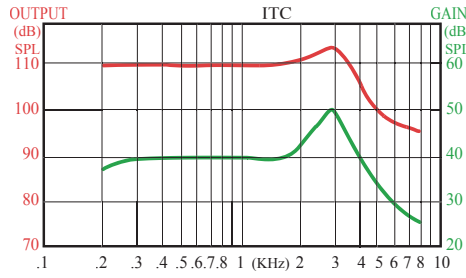
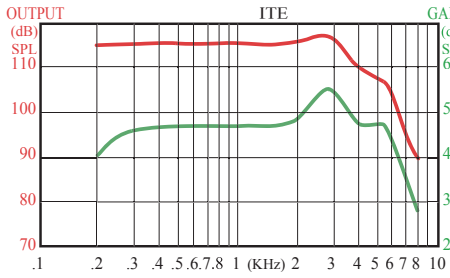
- Low battery indicator
- Program change indicator
- Expansion
- External volume control attenuation (0dB, -8dB, -16dB)

Software features

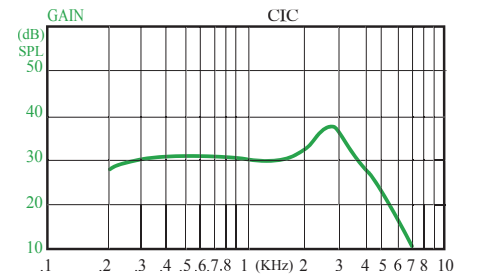
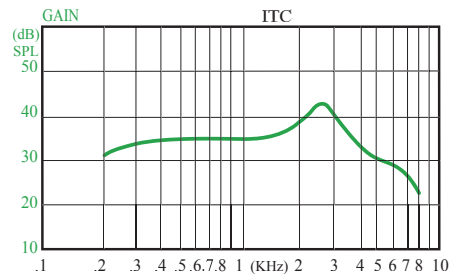
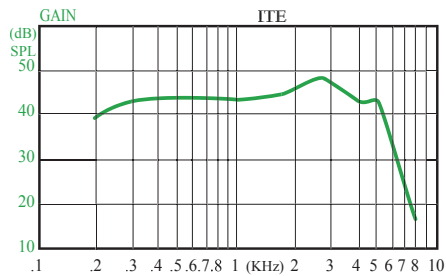
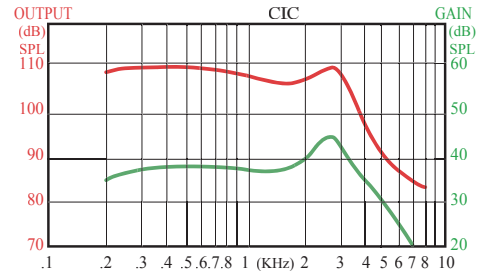
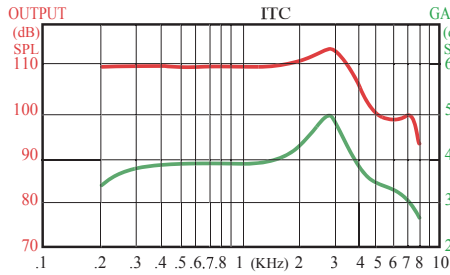
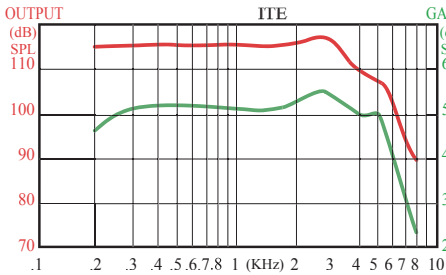
- I-Fit (Automatic adjustment)
- "PASS" Wizard (Patient Application Solutions System)
- FOG (Full On Gain)
- "SAM" System (Situations Automated Manager)

Hear the difference!

ANSI S3.22 1987 DATA



IEC 118-7 1994 DATA



Note: Every hearing aid is built according to the patient audiogram. The given data in this document represent maximal characteristics. They can vary according to the particularities of the order and the shape of the shell. They are also subject to changes without notice..



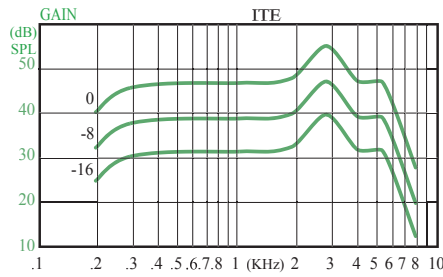
250, King E. Sherbrooke (Qc) Canada J1G 1A9
 Tel.: 1 (800) 567-2711 / (819) 569-9986
 Fax: (819) 823-6696
<http://www.audiocontrole.com>



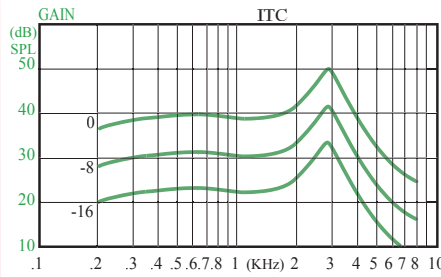
Hear the difference!

60 dB input curves

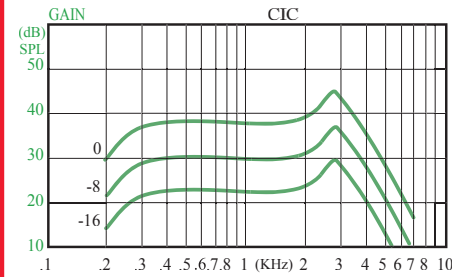
116dB output



114dB output



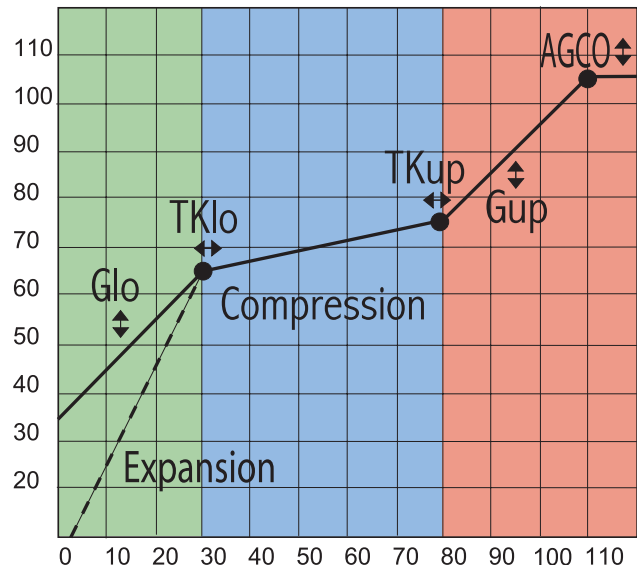
109 dB output



Note : -8dB and -16dB curves are added features for the external volume control.

COMPRESSION FEATURES

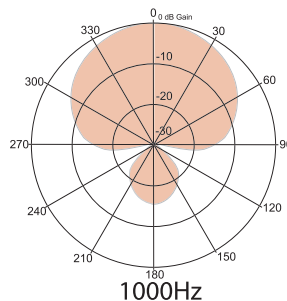
- Glo and Gup gains operate vertically, moving up or down on their own curve.
- TKlo and TKup threshold changes the knee points along Glo and Gup curves.
- Glo varies lower gain sounds (under Tklo level).
- Gup varies upper gain sounds (above TKup level).
- Tklo and TKup adjust the width of compression zone.
- Because the points move along the Glo curve, horizontal movement of Tklo also produces a vertical movement.
- Because the points move along the Gup curve, horizontal movement of Tkup also produces a vertical movement.
- When Glo=Gup, the aid is in its linear mode, therefore varying Tklo and TKup will produce no changes, since those points move along the same curve.
- Expansion level can be set at predetermined fix points or automatic mode where it follows the lowest Tklo to a maximum of 42dB. Expansion ratio is 1:2.
- AGCO allows reduction of the output level up to 16dB.



To increase the compression ratio, increase Glo or TKlo.
To decrease the compression ratio, increase Gup or TKup.

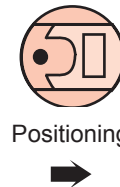
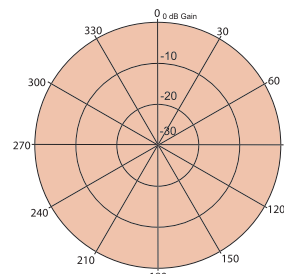
POLAR PATTERN

Intellimic Microphone



Positioning

Directional mode



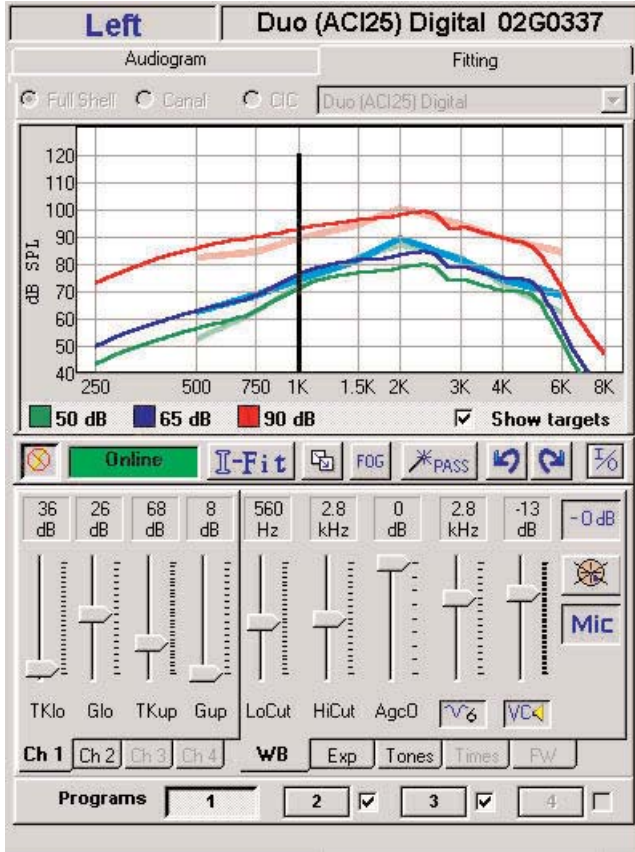
Positioning

Omnidirectional mode

Intellimic microphone allows choosing between two different modes. Those modes are available for each program. Take note that frequency response will be different for each mode. Directional mode lowers low frequencies of approximately 8dB at 500Hz.

Hear the difference!

AVAILABLE ADJUSTEMENTS



Duo (ACI25) Digital 02G0337 Model and serial number of the Hearing Aid (detected automatically).

- "Connected", establishes the link with the hearing aid.
- "Disconnected", disables communication and saves the hearing aid settings.

I-Fit Adjusts parameters according to the targets.

Allows copying adjustments from one program to another.

FOG Adjusts parameters to obtain maximum power from the hearing aid.

'PASS' Wizard providing solutions and applies them for frequently encountered problems.

Undo the last adjustment.

Redo the last adjustment.

Displays output curves and compression ratio.

Ch 1 Ch 2 Allows to select and adjust parameters for each channel.

Glo Adjusts lower gain level from 8dB to 42dB.

Gup Adjusts upper gain level from 8dB to 42dB.

TKlo Adjusts lower compression threshold from 34dB to 80dB.

TKup Adjusts upper compression threshold from 52dB to 110dB.

WB Gives access to parameters that perform changes on the entire frequency response curve.

Exp Allows to activate and deactivate expansion or to select automatic mode.

Tone Allows to choose the signal amplitude of the low battery and program change indicator.

Programs 1 2 3 4
Allows to choose different programs. To activate programs, click the appropriate box.

-0 dB -8 dB -16 dB Matrix choices. Intended to work with the external volume control.

Mic TC Program mode.

LoCut Filter that cuts low frequencies, varying from 125Hz to 2000Hz.

HiCut Filter that cuts high frequencies, varying from 1000Hz to 8000Hz.

Agc0 Output compression circuit that limits the output from 0 to -16dB.

The notch produces no effect on the response frequency curve.

Introduces a 6dB notch on the response frequency curve.

Introduces a 12dB notch on the response frequency curve.

Activates software volume control.

Mutes hearing aid.

Activates, deactivates external volume.

Hear the difference!