

# DP 2000

## Distortion Product Otoacoustic Emission System

### Feature Summary:

- Easy to use
- Pass/refer criteria
- Test newborns to adults
- Screen students for hearing loss
- Research
- Ototoxic monitoring
- Use for difficult to evaluate individuals:
  - Language disorders
  - Alzheimer's patients
  - Functional hearing loss
  - Behavioral disorders
  - Mentally challenged

### Specifications:

#### Adjustable Parameters:

- Range: 500-16,000 Hz
- Number of test points per octave: 1-50
- Intensity: f1 level (0-70 dB) f2 level (0-70 dB)
- Minimum number of valid test points to pass a test
- Minimum DP level to pass
- Ratio: 1.1 to 1.8 F2/F1
- Minimum DP/NF level to pass
- Average time: 0.25 to 20 sec
- DP Definition Points: f2-f1; 2f2-f1; 2f1-f2; 3f1-2f2;  
3f2-2f1; 4f1-3f2; 4f2-3f1

#### Artifact Rejection Criteria:

- Noise level for rejection
- Noise level above calibrated  
- noise floor for rejection

#### Stopping Rules Criteria:

- Noise Floor level accepting DP measurement
- Acceptable DP to Noise Floor ratio
- Maximum Signal Duration for a frequency point



#### Computer System Recommendations:

- IBM™ compatible computer having an available PCMCIA type II slot
- 128 MB of RAM
- 133 MHz or higher Pentium™ compatible CPU
- CD-ROM drive
- Color Monitor (VGA or higher)
- Windows 2000, XP Home or XP Professional Operating System
- 2 GB hard drive

#### System Environmental Requirements:

- Operating temperature must be within the range of +59° F to +95° F or +15° C to +35° C
- Relative humidity must be within the range of 30 to 90%

Weight: Less than 6 oz. (without computer)

Ear Tips: 8 different disposable eartip sizes

Starkey Support Network

Software Upgradable



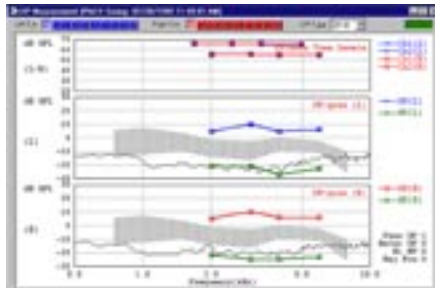
TECHNICAL SPECIFICATIONS

### Easy to use Toolbar.



Just click once to enter patient data, change parameters, perform DPOAE, or print the data.

### A Typical DPOAE in Graphical View



### A Typical DPOAE in Numerical View

F1	F2	DP Level	Pass/Refer
1000	1500	10	P
1500	2000	12	P
2000	2500	15	P
2500	3000	18	P
3000	3500	20	P
3500	4000	22	P
4000	4500	25	P
4500	5000	28	P
5000	5500	30	P
5500	6000	32	P
6000	6500	35	P
6500	7000	38	P
7000	7500	40	P
7500	8000	42	P
8000	8500	45	P
8500	9000	48	P
9000	9500	50	P
9500	10000	52	P

The examiner can save up to 10 curves per test session per patient. An easy to read PASS/REFER determination is calculated for each test

### Patient Database.

Name	Date	Other Info
John Doe	10/10/2000	12345
Jane Smith	11/11/2001	67890
Bob Johnson	12/12/2002	11111
Alice Brown	01/01/2003	22222
Charlie White	02/02/2004	33333
Diana Black	03/03/2005	44444
Frank Green	04/04/2006	55555
Grace Yellow	05/05/2007	66666
Henry Blue	06/06/2008	77777
Ivy Purple	07/07/2009	88888
Jack Red	08/08/2010	99999

The examiner can enter new patient information either immediately before the test, or as a batch, before anyone is tested.

### Artifact Rejection.



User definable criteria and stopping rule.

### Parameter Window.

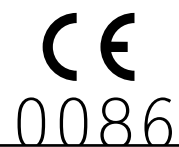


The following parameters may be modified:

- Frequency range
- Stimulus intensity
- F2/F1 ratio
- DP definition
- DPs per octave
- Averaging time per frequency
- Pass/refer criteria

### Special Features.

- Retest a single test point
- Overlay multi-test sessions
- Normative data
- Compatible with OZ/Sims®, Access, High Screen software, and many other databases
- Boystown reporting format option
- Parameter Window can be password protected



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