



national treasury

Department:
National Treasury
REPUBLIC OF SOUTH AFRICA

RT55-2021

ANNEXURE E1 AUDIOLOGY

TECHNICAL SPECIFICATIONS

RT55-B-1 : SCREENING TYMPANOMETER (226HZ)

Description

Portable screener for tympanometry and ipsilateral acoustic reflex testing

Technical Specification

Tympanometry measurement capability of 226Hz.

Must test tympanometry across range of +200 -to -400daPa with accuracy of ± 10 daPa

Ipsi-lateral testing range from 500,1000,2000 and 4000Hz

Must include probe/ear tips

Must be supplied with protective carry case

Must have A/C power supply

Must have printing capabilities and supplied with two rolls of paper

Must have a memory for at least 12 tests, with probe assembly

Must be supplied with a box of ear tips of at least six different sizes, with at least three tips of each size

Accessories:

probe/ear tips of at least six different sizes, with at least three tips of each size

protective carry case

two rolls of paper

memory for at least 12 tests

probe assembly

box of ear tips

All accessories and consumables must be supplied standard with the unit

A separate price of each accessory and consumables listed above must also be supplied with this offer

Any other additional accessories, consumables and spare parts not listed above but applicable for the functionality of the unit must be supplied on a separate price list

RT55-B-3 : SCREENING TYMPANOMETER (226HZ AND 1000HZ)

Description

Portable screener for tympanometry and ipsilateral acoustic reflex testing

Technical Specification

Tympanometry measurement capability of 226Hz.

Must test tympanometry across range of +200 -to -400daPa with accuracy of ± 10 daPa

Ipsi-lateral testing range from 500,1000,2000 and 4000Hz

Must include probe/ear tips

Must be supplied with protective carry case

Must have A/C power supply

Must have printing capabilities and supplied with two rolls of paper

Must have a memory for at least 12 tests, with probe assembly

Must be supplied with a box of ear tips of at least six different sizes, with at least three tips of each size

Accessories:

probe/ear tips of at least six different sizes, with at least three tips of each size

protective carry case

two rolls of paper

memory for at least 12 tests

probe assembly

box of ear tips

All accessories and consumables must be supplied standard with the unit

A separate price of each accessory and consumables listed above must also be supplied with this offer

Any other additional accessories, consumables and spare parts not listed above but applicable for the functionality of the unit must be supplied on a separate price list

RT55-B-4 : SCREENING AUDIOMETER

Description

Portable audiometer for hearing screening

Technical Specification

Compact, lightweight and portable screening audiometer

Must be supplied with protective carry case

Must be supplied with a response button and 1 set of spare audiocups

Is a 1 channel audiometer with testable frequency range of 125Hz - 8000Hz

Must have decibel intensity range of -10dBHL to at least 100dBHL

Must be supplied with TDH39 or equivalent head phones

Must have A/C power supply and battery

Accessories:

a response button

1 set of spare audiocups

Must be compliant to ANSI S3-6 (Type 4) or equivalent (certificate required)

All accessories and consumables must be supplied standard with the unit

A separate price of each accessory and consumables listed above must also be supplied with this offer

Any other additional accessories, consumables and spare parts not listed above but applicable for the functionality of the unit must be supplied on a separate price list

RT55-B-5 : SCREENING AUDIOMETER (WITH INSERT EARPHONES)

Description

Portable audiometer for hearing screening

Technical Specification

Compact, lightweight and portable screening audiometer

Must be supplied with protective carry case

Is a 1 channel audiometer with testable frequency range of 125Hz - 8000Hz

Must have decibel intensity range of -10dBHL to at least 100dBHL

Must be supplied with TDH39 or equivalent head phones and insert earphones (EAR 3A or equivalent insert earphones to be included)

Must have A/C power supply and battery

Accessories:

a response button

1 set of spare audiocups to be included.

Must be compliant to ANSI S3-6 (Type 4) or equivalent (certificate required)

All accessories and consumables must be supplied standard with the unit

A separate price of each accessory and consumables listed above must also be supplied with this offer

Any other additional accessories, consumables and spare parts not listed above but applicable for the functionality of the unit must be supplied on a separate price list

RT55-B-6 : SCREENING AUDIOMETER AND TYMPANOMETER (226HZ)

Description

Audiometry equipment used for screening of hearing, tympanometry and acoustic reflexes

Technical Specification

Compact, lightweight and portable screening tympanometer and audiometer combination unit

Must be supplied with a carry case

Must have A/C power supply and battery

Tympanometry measurement capability of 226Hz.

Must have printing capabilities for audiometer and tympanometer

Must be supplied with two rolls of paper

Must have a memory for at least 12 tests, with probe assembly

Must be supplied with tympanometry probes/ear tips

Must be supplied with a box of tympanometry ear tips of at least six different sizes, with at least three tips of each size

Must include ipsilateral reflexes with frequency range from 500Hz to 4000Hz.

Screening audiometer module must include a testable frequency range of 125Hz - 8000Hz and decibel intensity range of -10dBHL to at least 100dBHL

Must be supplied with TDH39 or equivalent head phones

Must be supplied with 1 set of spare audiocups

Must be supplied with patient response button

Accessories:

set of headphones

set of insert earphones

set of audio cups

patient response button

Must be compliant to ANSI S3-6 (Type 4) or equivalent (certificate required)

All accessories and consumables must be supplied standard with the unit

A separate price of each accessory and consumables listed above must also be supplied with this offer

Any other additional accessories, consumables and spare parts not listed above but applicable for the functionality of the unit must be supplied on a separate price list

RT55-B-7 : SCREENING AUDIOMETER AND TYMPANOMETER (226HZ) WITH INSERT EARPHONES

Description

Audiometry equipment used for screening of hearing, tympanometry and acoustic reflexes

Technical Specification

Compact, lightweight and portable screening tympanometer and audiometer combination unit

Must be supplied with a carry case

Must have A/C power supply and battery

Tympanometry measurement capability of 226Hz.

Must have printing capabilities for audiometer and tympanometer

Must be supplied with two rolls of paper

Must have a memory for at least 12 tests, with probe assembly

Must be supplied with tympanometry probes/ear tips

Must be supplied with a box of tympanometry ear tips of at least six different sizes, with at least three tips of each size

Must include ipsilateral reflexes with frequency range from 500Hz to 4000Hz.

Screening audiometer module must include a testable frequency range of 125Hz - 8000Hz and decibel intensity range of -10dBHL to at least 100dBHL

Must be supplied with TDH39 or equivalent head phones and insert earphones (EAR 3A or equivalent insert earphones to be included)

Must be supplied with 1 set of spare audiocups

Must be supplied with patient response button

Accessories:

set of headphones

set of insert earphones

set of audio cups

patient response button

Must be compliant to ANSI S3-6 (Type 4) or equivalent (certificate required)

All accessories and consumables must be supplied standard with the unit

A separate price of each accessory and consumables listed above must also be supplied with this offer

Any other additional accessories, consumables and spare parts not listed above but applicable for the functionality of the unit must be supplied on a separate price list

RT55-B-8 : SCREENING AUDIOMETER AND TYMPANOMETER (226HZ AND 1000HZ)

Description

Audiometry equipment used for screening of hearing, tympanometry and acoustic reflexes

Technical Specification

Compact, lightweight and portable screening tympanometer and audiometer combination unit

Must be supplied with a carry case

Must have A/C power supply and battery

Tympanometry measurement capability of 226Hz and 1000Hz.

Must have printing capabilities for audiometer and tympanometer

Must be supplied with two rolls of paper

Must have a memory for at least 12 tests, with probe assembly

Must be supplied with tympanometry probes/ear tips

Must be supplied with a box of tympanometry ear tips of at least six different sizes, with at least three tips of each size

Must include ipsilateral reflexes with frequency range from 500Hz to 4000Hz.

Screening audiometer module must include a testable frequency range of 125Hz - 8000Hz and decibel intensity range of -10dBHL to at least 100dBHL

Must be supplied with TDH39 or equivalent head phones

Must be supplied with 1 set of spare audiocups

Must be supplied with patient response button

Accessories:

set of headphones

set of insert earphones

set of audio cups

patient response button

Must be compliant to ANSI S3-6 (Type 4) or equivalent (certificate required)

All accessories and consumables must be supplied standard with the unit

A separate price of each accessory and consumables listed above must also be supplied with this offer

Any other additional accessories, consumables and spare parts not listed above but applicable for the functionality of the unit must be supplied on a separate price list

RT55-B-9 : SCREENING AUDIOMETER AND TYMPANOMETER (226HZ AND 1000HZ) WITH INSERT EARPHONES

Description

Audiometry equipment used for screening of hearing, tympanometry and acoustic reflexes

Technical Specification

Compact, lightweight and portable screening tympanometer and audiometer combination unit

Must be supplied with a carry case

Must have A/C power supply and battery

Tympanometry measurement capability of 226Hz and 1000Hz.

Must have printing capabilities for audiometer and tympanometer

Must be supplied with two rolls of paper

Must have a memory for at least 12 tests, with probe assembly

Must be supplied with tympanometry probes/ear tips

Must be supplied with a box of tympanometry ear tips of at least six different sizes, with at least three tips of each size

Must include ipsilateral reflexes with frequency range from 500Hz to 4000Hz.

Screening audiometer module must include a testable frequency range of 125Hz - 8000Hz and decibel intensity range of -10dBHL to at least 100dBHL

Must be supplied with TDH39 or equivalent head phones and insert earphones (EAR 3A or equivalent insert earphones to be included)

Must be supplied with 1 set of spare audiocups

Must be supplied with patient response button

Accessories:

set of headphones

set of insert earphones

set of audio cups

patient response button

Must be compliant to ANSI S3-6 (Type 4) or equivalent (certificate required)

All accessories and consumables must be supplied standard with the unit

A separate price of each accessory and consumables listed above must also be supplied with this offer

Any other additional accessories, consumables and spare parts not listed above but applicable for the functionality of the unit must be supplied on a separate price list

**RT55-B-14 : SCREENING OTO-ACOUSTIC EMISSION AND AUTOMATED
BRAINSTEM RESPONSE COMBO**

Description

Portable and rechargeable oto-acoustic emission and Automated brainstem response (OAE and ABR) system allowing for the screening of outer hair cell functioning and auditory brainstem response.

Technical Specification

Technical specifications for Screening OAE:

Must be capable of measuring DPOAEs with frequencies: 2,3,4,5 kHz and intensity: 65/55 dB

With an option of measuring TEOAE's with frequencies: 1.5-4 kHz and intensity: 83 dB SPL

Must have predefined and user defined protocols

Should be able to connectable to a PC or printer

Must be supplied with:

carry case

electrode probes or pads for the ABR

various ear tips sizes for the OAE including neonatal sizes

USB cable to connect to PC

probe case

Must provide electrodes and electrodes pads or insert earphones

Must include tips of various sizes including neonates

Accessories:

ear tips

electrode pads

Technical specifications for ABR:

Must have the following parameters:

stimulus types: Click 90-100 μ sec

ABR waveform capture, display and archives tests

Stimulus Rate: 40 to 60 per second

Stimulus Intensity: 35dB

input frequency Range: 30Hz to 3,000Hz

waveform latency delay: ± 0.4 msec, Gain: 40-45 dB

Should contain integrated electrodes pads or insert earphones.

Must be able to be connected to a printer for printing purposes, with a rechargeable printer

Provide inserts of various sizes including neonates.

Laptop requirements are a minimum of 5GB free disk space, minimum 1GB of RAM, latest Intel version

All accessories and consumables must be supplied standard with the unit

A separate price of each accessory and consumables listed above must also be supplied with this offer

Any other additional accessories, consumables and spare parts not listed above but applicable for the functionality of the unit must be supplied on a separate price list

RT55-B-15 : SCREENING OAE

Description

Portable device used for screening of outer hair cell functioning in the cochlear.

Technical Specification

Portable and rechargeable system allowing for the screening of outer hair cell functioning with software allowing for test and patient management.

Must be capable of measuring DPOAEs with frequencies: 2,3,4,5 kHz and intensity: 65/55 dB

With an option of measuring TEOAE's with frequencies: 1.5-4 kHz and intensity: 83 dB SPL

Must store at least 50 tests

Must have software for download to PC based database with capabilities for printing

Must include probe tips of various sizes including for neonates

Probe calibration test cavity to be also included

Must have database software, micro USB charging / transfer cable

Must come with a carry case

Must come with 2 replacement probe tips

Should be able to connect to a PC or printer

Must provide electrodes and electrodes pads or insert earphones

Accessories:

replacement probe tips

electrodes

electrodes pads

insert earphones

Instruction manual and protocols

Should have predefined and user defined protocols (normative data-bases) to reference pass/refer results

All accessories and consumables must be supplied standard with the unit

A separate price of each accessory and consumables listed above must also be supplied with this offer

Any other additional accessories, consumables and spare parts not listed above but applicable for the functionality of the unit must be supplied on a separate price list

RT55-B-22 : DIAGNOSTIC AUDIOMETER (HEADPHONES AND INSERTS), INCLUDING: AIR AND BONE CONDUCTION, SPEECH AUDIOMETRY, MASKING

Description

Audiometer used to test and diagnose hearing thresholds.

Technical Specification

Clinical, two-channel audiometer that must test in increments of no more than 5db.

Capable of performing masked and unmasked pure tone and warble tone air and bone conduction and speech testing

Masking sounds must include narrowband, white and speech noise

Frequency range for air conduction must be within a range of 125Hz to 8000Hz, with intensity range of -10dB to 120dB.

The intensity range for bone conduction to span between -10dB to 80dB for frequencies of 250-4000Hz.

Must provide for contralateral white noise, speech noise and narrow band noise for air / bone and free field audiometry must be provided on the unit offered

The audiometer offered must allow for user selectable attenuation over the entire range

Must have the option to add following special tests:

SISI

ABLB

stenger

bekesy

weber

tone-in-noise

speech-in-noise

Must come with:

earphones

paired insert phones

bone conductor

response button

talk-forward

built-in or gooseneck microphone or operator's headset with microphone

Must provide auditory as well as visual patient response monitoring and intensity controls in order to further enhance user control of its operation.

Pre-recorded speech wordlists in English (with the option of other South African languages) in male and female voice can be built-in, failing which the audiometer must have a built-in CD player or must have a USB connection and come with a compatible external CD Player

Accessories:

earphones

paired insert phones

bone conductor

response button

talk-forward

built-in or gooseneck microphone or operator's headset with microphone

Optional accessories:

field speakers

SISI

ABLB

stenger

bekesy

weber

tone-in-noise
speech-in-noise

All accessories and consumables must be supplied standard with the unit

A separate price of each accessory and consumables listed above must also be supplied with this offer

Any other additional accessories, consumables and spare parts not listed above but applicable for the functionality of the unit must be supplied on a separate price list

RT55-B-23 : DIAGNOSTIC AUDIOMETER (WITH EXTENDED HIGH FREQUENCY TESTING CAPABILITIES)

Description

PC-based audiometer used to test and diagnose hearing thresholds.

Technical Specifications

PC-controlled, clinical two-channel audiometer that must test in increments of no more than 5db

Capable of performing masked and unmasked pure tone and warble tone air and bone conduction and speech testing

Masking sounds must include narrowband, white and speech noise

Frequency range for air conduction must be within a range of 125Hz to 20 000Hz with intensity range from -10dB to 120dB

-10dB to 80 or 100dB SPL Intensity range for air conduction (125-250Hz): -10dB to 100dB
decibel range for bone conduction: 250-4000Hz

Must have the option to add following special tests:

SISI

ABLB

stenger

bekesy

weber

tone-in-noise

speech-in-noise

Must come with:

earphones

paired insert phones

bone conductor

response button

talk-forward

built-in or gooseneck microphone or operator's headset with microphone

pair of sound-field speakers

The audiometer offered must allow for user selectable attenuation over the entire range

Must provide auditory as well as visual patient response monitoring from its frequency and intensity controls in order to further enhance user control of its operation

Pre-recorded speech wordlists in English, with the option of South African languages in male and female voice, must be built-in, failing which the audiometer must have a built-in CD player or must have a USB connection and come with a compatible external CD Player

Contralateral white noise, speech noise and narrow band noise for air / bone and free field audiometry masking must be provided on the unit offered

Must be supplied with field speakers

Specifications of field speakers are as follows:

Space saving, high efficiency, flat response, low distortion speakers

Speakers should have a frequency response range of 250Hz to 6000Hz with extendable range up to 8000Hz

Meets ANSI or equivalent standards.

Impedance of 8 Ω (Ohm) and efficiency of 100dB HTL Speech Level

Must be compatible with booths and diagnostic audiometers

Must include mounting brackets for installation

Accessories:

earphones

paired insert phones

bone conductor

response button

talk-forward

built-in or gooseneck microphone or operator's headset with microphone

field speakers in terms of the specifications above

Optional accessories:

SISI

ABLB
stenger
bekesy
weber
tone-in-noise
speech-in-noise

All accessories and consumables must be supplied standard with the unit

A separate price of each accessory and consumables listed above must also be supplied with this offer

Any other additional accessories, consumables and spare parts not listed above but applicable for the functionality of the unit must be supplied on a separate price list

RT55-B-24 : DIAGNOSTIC AUDIOMETER (WITH EXTENDED HIGH FREQUENCY TESTING CAPABILITIES)

Description

Non-PC-based audiometer used to test and diagnose hearing thresholds.

Technical Specifications

Non-PC-controlled, clinical two-channel audiometer that must test in increments of no more than 5db

Capable of performing masked and unmasked pure tone and warble tone air and bone conduction and speech testing

Masking sounds must include narrowband, white and speech noise

Frequency range for air conduction must be within a range of 125Hz to 20 000Hz with intensity range from -10dB to 120dB

-10dB to 80 or 100dB SPL Intensity range for air conduction (125-250Hz): -10dB to 100dB
decibel range for bone conduction: 250-4000Hz

Must have the option to add following special tests:

SISI
ABLB
stenger
bekesy
weber
tone-in-noise

speech-in-noise

Must come with:

earphones

paired insert phones

bone conductor

response button

talk-forward

built-in or gooseneck microphone or operator's headset with microphone

pair of sound-field speakers

The audiometer offered must allow for user selectable attenuation over the entire range

Must provide auditory as well as visual patient response monitoring from its frequency and intensity controls in order to further enhance user control of its operation

Pre-recorded speech wordlists in English, with the option of South African languages in male and female voice, must be built-in, failing which the audiometer must have a built-in CD player or must have a USB connection and come with a compatible external CD Player

Contralateral white noise, speech noise and narrow band noise for air / bone and free field audiometry masking must be provided on the unit offered

Must be supplied with field speakers

Specifications of field speakers are as follows:

Space saving, high efficiency, flat response, low distortion speakers

Speakers should have a frequency response range of 250Hz to 6000Hz with extendable range up to 8000Hz

Meets ANSI or equivalent standards.

Impedance of 8 Ω (Ohm) and efficiency of 100dB HTL Speech Level

Must be compatible with booths and diagnostic audiometers

Must include mounting brackets for installation

Accessories:

earphones

paired insert phones

bone conductor

response button

talk-forward

built-in or gooseneck microphone or operator's headset with microphone

field speakers in terms of the specifications above

Optional accessories:

SISI

ABLB

stenger

bekesy

weber

tone-in-noise

speech-in-noise

All accessories and consumables must be supplied standard with the unit

A separate price of each accessory and consumables listed above must also be supplied with this offer

Any other additional accessories, consumables and spare parts not listed above but applicable for the functionality of the unit must be supplied on a separate price list

RT55-B-25 : DIAGNOSTIC MIDDLE EAR ANALYZER (TYMPANOMETRY AND ACOUSTIC REFLEX MEASUREMENTS) 226HZ

Description

A diagnostic immittance unit used to perform tympanometry, ipsi- and contra-lateral reflexes, reflex decay and Eustachian tube function.

Technical Specification

Must have 226Hz probe tone

Must have test reflexes at 250, 500, 1000, 2000 and 4000Hz (pure tone)

Must have 400-4000Hz BBN

Must have clicks in the range of 35-120dB

Must have test tympanometry across range of +200 - -400daPa with accuracy of ± 10 daPa

Must include a eustachian tube function

Must have a USB PC interface

Must come with the following:

probe assembly (including contra-lateral insert earphone)

probe mount kit/accessory (or shoulder strap)

ear tips (minimum six different sizes, with minimum three of each tip size)

calibration test cavity

cleaning kit

Accessories:

probe assembly (including contra-lateral insert earphone)

probe mount kit/accessory (or shoulder strap)

ear tips (minimum six different sizes, with minimum three of each tip size)

calibration test cavity

cleaning kit

Optional accessories:

eustachian tube function

reflex decay test

All accessories and consumables must be supplied standard with the unit

A separate price of each accessory and consumables listed above must also be supplied with this offer

Any other additional accessories, consumables and spare parts not listed above but applicable for the functionality of the unit must be supplied on a separate price list

RT55-B-26 : DIAGNOSTIC OAE WITH STANDARD FREQUENCY

Description

Device used for diagnostic assessment of oto-acoustic emissions within the cochlear region.

Technical Specification

Advanced clinical oto-acoustic emission system, able to record and archive completed tests

Must be able to perform TEOAEs and DPOAEs

DPOAE frequencies: 1.5- 6 kHz, Intensities: 40-70 dB SPL SNR: 3-10 dB, Averaging Time: 0.5,1,2,4 sec

TEOAE frequencies: 0.7-4 kHz Intensity: 83 dB pe SPL SNR: 3-10 dB, Averaging Time: 8, 16, 32, 64 sec

Must include the following:

bilateral probes

probe cable clips

nubs and probe pouch

USB cable to computer connection

Must be able to indicate noise flow measurements

Laptop requirements are a minimum of 5GB free disk space, minimum 1GB of RAM, Latest Intel version (for the option of connecting to a laptop or PC for printing purposes)

Accessories

bilateral probes

probe cable clips

nubs and probe pouch

USB cable to computer connection

All accessories and consumables must be supplied standard with the unit

A separate price of each accessory and consumables listed above must also be supplied with this offer

Any other additional accessories, consumables and spare parts not listed above but applicable for the functionality of the unit must be supplied on a separate price list

RT55-B-27 : DIAGNOSTIC OAE WITH EXTENDED HIGH FREQUENCY

Description

Device used for diagnostic assessment of oto-acoustic emissions within the cochlear region.

Technical Specification

Advanced clinical oto-acoustic emission system, able to record and archive completed tests

Must be able to perform TEOAEs and DPOAEs recordings up to at least 12 000Hz

DPOAE frequencies: 1.5- atleast 12 kHz and above, Intensities: 40-70 dB SPL SNR: 3-10 dB, Averaging Time: 0.5,1,2,4 sec, Frequencies for Pass: 0-6

TEOAE frequencies: 0.7-4 kHz Intensity: 83 dB pe SPL SNR: 3-10 dB, Averaging Time: 8, 16, 32, 64 sec, Frequencies for Pass: 0-6

Must be able to indicate noise flow measurements

Must include the following:

bilateral probes

probe cable clips

nubs and probe pouch

USB cable to computer connection

Laptop requirements are a minimum of 5GB free disk space, minimum 1GB of RAM, Latest Intel version.

Accessories

bilateral probes

probe cable clips

nubs and probe pouch

USB cable to computer connection

All accessories and consumables must be supplied standard with the unit

A separate price of each accessory and consumables listed above must also be supplied with this offer

Any other additional accessories, consumables and spare parts not listed above but applicable for the functionality of the unit must be supplied on a separate price list

RT55-B-28 : ELECTROPHYSIOLOGY TESTING EQUIPMENT WITH ABR (AIR AND BONE CONDUCTION), ASSR, DPOAE

Description

Device used for assessing the peripheral auditory system from the cochlear. Base system which must be pre-loaded with diagnostic ABR software with the ability to add additional modules.

Technical Specification

Complete evoked potential system able to perform diagnostic ABR (click, tone burst, chirp), auditory steady state response (ASSR), diagnostic TEOAES and DPOAEs, middle latency response (MLR), late latency responses (LLR)

Must include laptop, software, clearline adaptor and free field aided testing capacity

Laptop requirements are a minimum of 5GB free disk space, minimum 1GB of RAM, latest Intel version

Base unit must come pre-loaded with ABR software

Must include a minimum of:

2 sets of cup electrodes

2 sets of snap electrodes

pack of electrode pads

OAE nubs

2 packets of large insert earphones (yellow)

2 packets of small insert earphones (pink)

2 packets of infant insert earphones (red)

Circumaural headset

bone conductor

probe cables

carry case

2x Nuprep gel

2 tubs of EEG conduction paste

The service provider will be required to load additional software onto base system once ordered.

Accessories:

TDH Headphones

Bone vibrator

2 sets of cup electrodes

2 sets of snap electrodes

pack of electrode pads

OAE nubs

2 packets of large insert earphones (yellow)

2 packets of small insert earphones (pink)

2 packets of infant insert earphones (red)

Circumaural headset

bone conductor

probe cables

carry case

Consumables

2x Nuprep gel

2 tubs of EEG conduction paste

Optional accessories

Test software for ASSR which includes diagnostic ABR

Test software for TEOAEs and DPOAEs which includes diagnostic ABR

Test software for MLR and LLR which includes diagnostic ABR

All accessories and consumables must be supplied standard with the unit

A separate price of each accessory and consumables listed above must also be supplied with this offer

Any other additional accessories, consumables and spare parts not listed above but applicable for the functionality of the unit must be supplied on a separate price list

RT55-B-30 : VISUAL RESPONSE AUDIOMETRY (VRA) UNIT (1 TOY X 2 SIDES)

Description

Equipment used together with audiometer for paediatric hearing evaluations consisting of toy cabinets or video re-enforcers and sound-field speakers.

Technical Specifications

The unit must be a 1 toy x2 sides i.e., 2 cabinets containing 1 toy each

Illuminated and animated child friendly toys, placed within a cabinet, obscured by tinted perspex screen.

Switch must be able to be installed in the observation room to control animation (i.e. on and off), and light up/ illuminated the toys.

No time elapse should occur between the initiation of VRA system and illumination and activation of toy reinforce.

Must include x2 mounting bracket for installation of the cabinets.

2 colour monitors or 2 boxes with toys that light up and move, compatible with diagnostic audiometer and intermediary compute/laptop system with HDMI connecting cables to be included if system requires.

Reinforcement activated by push of button by either wireless remote or through computer system.

Silent switch that can be connected to the audiometer for easy changes between right and left monitors

Variety of animated characters in reinforcement playlist

Must include x2 mounting bracket for installation to mount flush against wall or on arm lever

Must be compatible with audiometer installed and sound field speakers if not included

Must include AC power supplies

Must include switch for easy changes between right and left monitors

All accessories and consumables must be supplied standard with the unit

A separate price of each accessory and consumables listed above must also be supplied with this offer

Any other additional accessories, consumables and spare parts not listed above but applicable for the functionality of the unit must be supplied on a separate price list

RT55-B-31 : VISUAL RESPONSE AUDIOMETRY UNIT (2 TOYS X 2 SIDES)

Description

Equipment used together with audiometer for paediatric hearing evaluations consisting of toy cabinets or video re-enforcers and sound-field speakers.

Technical Specifications

The unit must be a 2 toys x 2 sides i.e. 2 cabinets containing 2 toys each

illuminated and animated child friendly toys, placed within a cabinet, obscured by smoked perspex screen

Switch must be able to be installed in the observation room to control animation (i.e. on and off), and light up/ illuminated the toys

Each toy should be able to be lit up independently

No time elapse should occur between the initiation of VRA system and illumination and activation of toy reinforce.

Must include x2 mounting bracket for installation of the cabinets.

2 colour monitors or 2 boxes with toys that light up and move, compatible with diagnostic audiometer and intermediary compute/laptop system with HDMI connecting cables to be included if system requires.

Reinforcement activated by push of button by either wireless remote or through computer system.

Silent switch that can be connected to the audiometer for easy changes between right and left monitors

Variety of animated characters in reinforcement playlist

Must include x2 mounting bracket for installation to mount flush against wall or on arm lever

Must be compatible with audiometer installed and sound field speakers if not included

Must include AC power supplies

Must include switch for easy changes between right and left monitors

All accessories and consumables must be supplied standard with the unit

A separate price of each accessory and consumables listed above must also be supplied with this offer

Any other additional accessories, consumables and spare parts not listed above but applicable for the functionality of the unit must be supplied on a separate price list

RT55-B-32 : VISUAL RESPONSE AUDIOMETRY UNIT (4 TOYS X 2 SIDES)

Description

Equipment used together with audiometer for paediatric hearing evaluations consisting of toy cabinets or video re-inforcers and sound-field speakers.

Technical Specifications

The unit must be a 4 toys x 2 sides i.e. 2 cabinets containing 4 toys each

Illuminated and animated child friendly toys, placed within a cabinet, obscured by smoked perspex screen

Switch must be able to be installed in the observation room to control animation (i.e. on and off), and light up/ illuminated the toys

Each toy should be able to be lit up independently

No time elapse should occur between the initiation of VRA system and illumination and activation of toy reinforcer

Must include x2 mounting bracket for installation of the cabinets

2 colour monitors or 2 boxes with toys that light up and move, compatible with diagnostic audiometer and intermediary compute/laptop system with HDMI connecting cables to be included if system requires.

Reinforcement activated by push of button by either wireless remote or through computer system.

Silent switch that can be connected to the audiometer for easy changes between right and left monitors

Variety of animated characters in reinforcement playlist

Must include x2 mounting bracket for installation to mount flush against wall or on arm lever

Must be compatible with audiometer installed and sound field speakers if not included

Must include AC power supplies

Must include switch for easy changes between right and left monitors

All accessories and consumables must be supplied standard with the unit

A separate price of each accessory and consumables listed above must also be supplied with this offer

Any other additional accessories, consumables and spare parts not listed above but applicable for the functionality of the unit must be supplied on a separate price list

RT55-B-36 : VISUAL RESPONSE AUDIOMETRY UNIT (VIDEO)

Description

Equipment used together with audiometer for paediatric hearing evaluations consisting of toy cabinets or video re-inforcers and sound-field speakers.

Technical Specifications

A Video VRA reinforcer

Two colour LED flatscreen 15" - 20" monitors that display motion action cartoon images for the use during paediatric hearing testing

Switch must be able to be installed in the observation room to control animation (i.e. on and off), and switch on the screen

No time elapse should occur between the initiation of VRA system and illumination and activation of toy reinforcer/ screen

Must include x2 mounting bracket for installation of the screens

Each screen should be able to be lit up independently

2 colour monitors or 2 boxes with toys that light up and move, compatible with diagnostic audiometer and intermediary compute/laptop system with HDMI connecting cables to be included if system requires

Reinforcement activated by push of button by either wireless remote or through computer system

Silent switch that can be connected to the audiometer for easy changes between right and left monitors

Variety of animated characters in reinforcement playlist

Must include x2 mounting bracket for installation to mount flush against wall or on arm lever

Must be compatible with audiometer installed and sound field speakers if not included

Must include AC power supplies

Must include switch for easy changes between right and left monitors

All accessories and consumables must be supplied standard with the unit

A separate price of each accessory and consumables listed above must also be supplied with this offer

Any other additional accessories, consumables and spare parts not listed above but applicable for the functionality of the unit must be supplied on a separate price list

RT55-B-37 : VISUAL RESPONSE AUDIOMETRY UNIT (VIDEO) WITH DVD PLAYER

Description

Equipment used together with audiometer for paediatric hearing evaluations consisting of toy cabinets or video re-enforcers and sound-field speakers.

Technical Specifications

A Video VRA reinforce unit with DVD player

Two colour LED flat screen 15" - 20" monitors that display DVD recording for the use during paediatric hearing testing.

Switch must be able to be installed in the observation room to control animation (i.e. on and off), and switch on the screen.

No time elapse should occur between the initiation of VRA system and illumination and activation of toy reinforce/ screen.

Unit must come with DVD player option to provide video stimulus. Must include x2 mounting brackets for installation of the screens.

Each screen should be able to be lit up independently.

2 colour monitors or 2 boxes with toys that light up and move, compatible with diagnostic audiometer and intermediary compute/laptop system with HDMI connecting cables to be included if system requires

Reinforcement activated by push of button by either wireless remote or through computer system

Silent switch that can be connected to the audiometer for easy changes between right and left monitors

Variety of animated characters in reinforcement playlist

Must include x2 mounting bracket for installation to mount flush against wall or on arm lever

Must be compatible with audiometer installed and sound field speakers if not included

Must include AC power supplies

Must include switch for easy changes between right and left monitors

All accessories and consumables must be supplied standard with the unit

A separate price of each accessory and consumables listed above must also be supplied with this offer

Any other additional accessories, consumables and spare parts not listed above but applicable for the functionality of the unit must be supplied on a separate price list

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