

CONDITIONED PLAY INNOVATIONS

VRA Systems



VRA PRO 2 Dual System Pictured

VRA PRO 2 SYSTEM

USER MANUAL

Visual Reinforcement Audiometry System (VRA)

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Wireless Remote Control Functions and Operations Overview



The wireless remote consists of a total of 7 buttons that control the function of the VRA Pro 2 Dual or (optional) VRA Pro 2 Trio, Quad or Cinco Systems. The remote control buttons are color coded and tactile for easy identification of its function and which device it will control.

- The LED Status indicator will flash green a number of times when the batteries are first installed. This indicates the operation of
 the remote and the number of flashes indicates the firmware level on the unit. Upon the release of the buttons on the remote, a
 battery check is made and the LED indicator will flash red as a "change battery" indication.
- The yellow button (C) causes the centering/midline distractor toy to illuminate. The light will stay on as long as the button is depressed.
- The left blue button (1) activates the Primary LEFT Reinforcement Unit. Action for this unit will continue as long as the button is depressed.
- The right red button (2) activates the Primary RIGHT Reinforcement Unit. Action for this unit will continue as long as the button is depressed.
- (Optional Quad System). The left blue button (3) activates the Secondary LEFT Reinforcement Unit. Action for this unit will
 continue as long as the button is depressed.
- (Optional Quad System). The right red button (4) activates the Secondary RIGHT Reinforcement Unit. Action for this unit will continue as long as the button is depressed.
- The left black button (5) toggles the current Reinforcement Unit toy light and animation on and off. This is accomplished by pushing and releasing the desired Reinforcement Unit button then pressing and releasing the black toggle button.
- The right black button (6) (FW v2) with <u>Option 1</u> (see Address Switch Instructions) selects a different front LED light sequence on the current Reinforcement Unit. This is accomplished by pushing and releasing the desired Reinforcement Unit button, then pressing and releasing the black LED pattern change button. <u>Option 2</u> will make the LEDs automatically cycle through the different LEDs colors with each push of the reinforcer button, also button (6) will now allow for control of the motion of the servo (toggles off/on)



Wireless Remote Control Pairing/Synchronization



- When using the wireless remote control, all side Reinforcement Units must be synchronized to the wireless remote. This provides immunity from interference from other units in adjacent rooms.
- Install two (2) AA batteries into the battery compartment of the Wireless Remote Control. While doing so observe the LED status indicator on the remote control. It should blink green a number of times indicating the controller is functioning properly. If this does not happen check the batteries for correct orientation and condition.
- With the Wireless Remote Control functional and all Side Reinforcement Units addressed correctly, power on all units in the room.
- Using the Wireless Remote Control, activate each of the Side Reinforcement with the appropriate button control. Each side unit should respond accordingly.
- The Wireless Remote Control and the Side Reinforcement Units will remain synchronized as long as the side units remain powered.
- If power to the Side Reinforcer Units is removed for any reason, the simple synchronization process must be repeated.
- If power is removed to multiple systems in adjacent rooms (i.e. power outage), each system, must be removed from power, and then resynchronized one system at a time, to avoid synchronizing multiple systems to one wireless remote.
- Changing the batteries in the Wireless Remote Controller will not require a re-synchronization but if the controller is replaced with a different unit, it must be synchronized to the Side Reinforcement Units in the room.

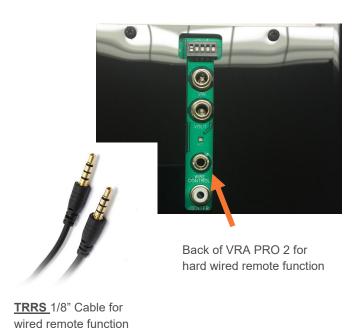


Wired Remote Control—ASP and ASP 2 Pairing/Synchronization



- Wired remote function is only compatible with "DUAL" and "TRIO" Unit Systems.
- It is NOT with "QUAD" or "CINCO" Unit Systems
- Wired remote function has only been tested for compatibility with the GSI Audio Star Pro (ASP) and the GSI Audio Star Pro 2. All
 side Reinforcement Units must be synchronized to the Audio Star Pro. This provides immunity from interference from other unts
 in adjacent rooms.
- Install VRA system, run either the TRS -1/8" stereo cable— (Original ASP) or a TRRS-(ASP 2) from the audiometer to the nearest side reinforcer unit.
- If you have an <u>ORIGIANAL ASP</u> you will need the optional TRS cable (add on OPTION). If you have an <u>ASP 2</u> you will need the TRRS cable (add on OPTION). THESE CABLES ARE <u>NOT</u> INTERCHANGABLE AND <u>WILL NOT</u> ALLOW FOR PROPER DEVICE FUNCTION.
- With the wired control cable ran (TRS for ASP or TRRS for ASP 2) and all Side Reinforcement Units addressed correctly, power
 on all units in the room.
- Using the Wired Remote Control buttons on the ASP or ASP 2, activate each of the side reinforcement and midline distractor/centering toy unit with the appropriate button control. Each unit should respond accordingly.
- The Wired Remote Control and the Side Reinforcement Units will remain synchronized as long as the units remain powered.
- If power to the Side Reinforcer Units is removed for any reason, the simple synchronization process must be repeated.
- If power is removed to multiple systems in adjacent rooms (i.e. power outage), each system, must be removed from power, and then resynchronized one system at a time, to avoid synchronizing multiple systems to one remote.
- The wired remote will not require the use of batteries.





for ASP 2 audiometer.

Visual Reinforcement Audiometry (VRA) Introduction



Purpose

Visual Reinforcement Audiometry (VRA) is a audiological testing technique used to estimate frequency and ear specific hearing sensitivity and hearing loss type using a conditioned response procedure.

Intended Populations:

Infants between approximately 6-30 months developmental age.

Expected Outcome:

Estimation of hearing thresholds based on minimum response levels (MRLs) that have a close relationship with perceptual thresholds.

Practice Guidelines:

- Test Area: Sound treated audiometric booth
- Calibration: All transducers should be calibrated to meet current ANSI standards
- Otoscopy: Otoscopy should be performed prior to testing to ensure clear external auditory canals and to determine insert ear tip size to be used for testing.
- Patient preparation: Seated in a highchair or, when preferred, in the parent/caregiver's lap. Parents should be cautioned not to cue their children when a stimulus is presented.

Procedure:

- Transducers: Inset earphones coupled with an ear tip or child's personal earmolds, bone conduction vibrator, or sound field speaker(s) as determined by specific circumstances or test needs.
- Conditioning: Most children will provide a clear spontaneous head turn within 2-3 seconds upon the presentation of the first stimulus without classical conditioned (i.e., pairing the stimulus and reinforcer). Other children, might require additional conditioning. The preferred response with VRA is a 90 degree head turn. This response is less ambiguous for an audiologist to observe as compared to a 45 degree head turn.
- If no responses can be elicited, the use of a bone vibrator and/or a low frequency signal or speech can be used to illicit a vibrotactile response. If the child does not respond to a vibrotactile or a combination stimulus, it is likely that the task is not developmentally appropriate for the child or that the task is not sufficiently interesting to the child. In these circumstances, alternate hearing assessment procedures should be considered.
- Threshold search: Testing should begin after two consecutive correct responses have been obtained. A systematic bracketing protocol
 with a pre-determined start level, and step-sizes is recommended.
- Order of Presentation: Minimum Response Levels (MRLs) should be obtained for speech stimuli, followed by tonal stimuli with center frequencies of 500 Hz, 1000Hz, 2000 Hz, and 4000 Hz; order of the evaluation will depend on the focus of thee evaluation. For example, starting with high frequencies first has the advantage of making an early determination of the need for amplification in case the child cannot participate in testing for all test frequencies. If insert phones can be utilized, consideration should be given to alternating ears between stimuli in order to obtain partial or complete data on both ears. (i.e. obtain MRL for speech in the right ear, then in the left ear,: MRL for 2000 Hz in the right ear then in the left ear and so on).
- Midline Distractor/Centering Toy: Following the child's head turn towards the reinforcer, the centering/midline distractor toy in the booth can serve the function of returning the child's attention and gaze to the midline. This can also be done with the use of an assistant (i.e. student, parent, audiology assistant, or audiologist) in the test booth.
- Test Interpretation: Thresholds or minimum response levels consistent with normal hearing sensitivity vary depending upon the age of the child and are available in the literature (Sabo et al., 2003; Widen et al., 2005)
- Equipment Specifications: Audiometer with sound field capability; visual reinforcers (e.g. multiple animated toys individually housed in dark plexiglass boxes; illuminated and activated remotely, located 90 degrees to one or both sides of the child at eye level (reinforcers positioned at a 45 degree angle are generally insufficient for eliciting an observable head turn).
- Supplies: Disposable child-sized foam insert tips; quiet toys for mild-line distraction.

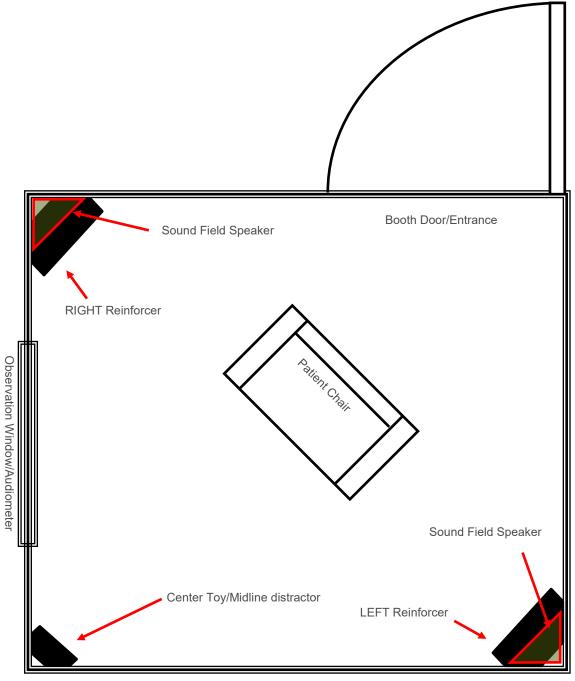
References:

Audiologic Guidelines for the Assessment of Hearing in Infants and Young Children, August 2012 https://img1.wsimg.com/blobby/go/85344bb4-4e29-4e7f-a55a-d096d7b6f0e9/downloads/1csukbfdm_128734.pdf

Visual Reinforcement Audiometry (VRA) Typical Booth Layout Example #1



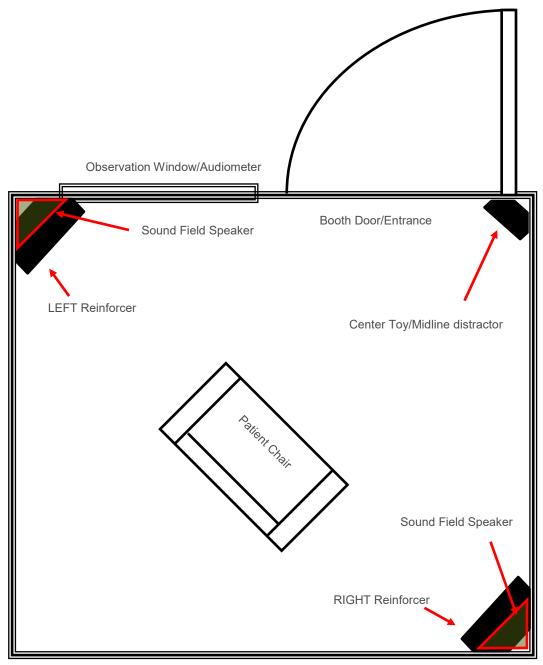
- Reinforcers are placed at 90 degrees to each side of the patient. The preferred response with VRA is a 90 degree head turn. This response is less ambiguous for an audiologist to observe as compared to a 45 degree head turn.
- Reinforcers are placed close to the sound field speakers
- Midline Distractor/Centering Toy: Following the child's head turn towards the reinforcer, the centering/midline distractor toy in the booth can serve the function of returning the child's attention and gaze to the midline. Placed near 0 degrees azimuth.
- visual reinforcers (e.g. multiple animated toys individually housed in dark plexiglass boxes; illuminated and activated remotely, located 90 degrees to one or both sides of the child at eye level (reinforcers positioned at a 45 degree angle are generally insufficient for eliciting an observable head turn).



Visual Reinforcement Audiometry (VRA) Typical Booth Layout Example #2



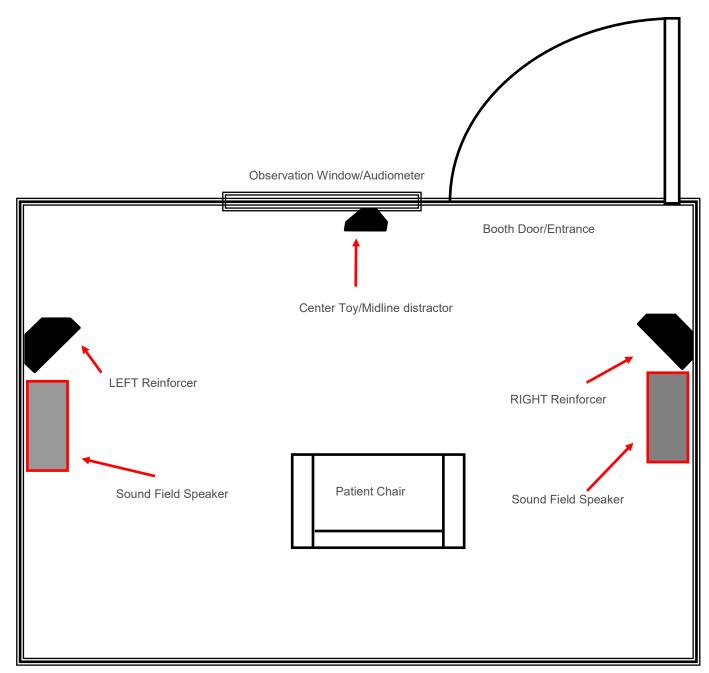
- Reinforcers are placed at 90 degrees to each side of the patient. The preferred response with VRA is a 90 degree head turn. This response is less ambiguous for an audiologist to observe as compared to a 45 degree head turn.
- Reinforcers are placed close to the sound field speakers
- Midline Distractor/Centering Toy: Following the child's head turn towards the reinforcer, the centering/midline distractor toy in the booth can serve the function of returning the child's attention and gaze to the midline. Placed near 0 degrees azimuth.
- Visual reinforcers (e.g. multiple animated toys individually housed in dark plexiglass boxes; illuminated and activated remotely, located 90 degrees to one or both sides of the child at eye level (reinforcers positioned at a 45 degree angle are generally insufficient for eliciting an observable head turn).



Visual Reinforcement Audiometry (VRA) Typical Booth Layout Example #3



- Reinforcers are placed at 90 degrees to each side of the patient. The preferred response with VRA is a 90 degree head turn. This response is less ambiguous for an audiologist to observe as compared to a 45 degree head turn.
- Reinforcers are placed close to the sound field speakers
- Midline Distractor/Centering Toy: Following the child's head turn towards the reinforcer, the centering/midline distractor toy in the booth can serve the function of returning the child's attention and gaze to the midline. Placed near 0 degrees azimuth.
- Visual reinforcers (e.g. multiple animated toys individually housed in dark plexiglass boxes; illuminated and activated remotely, located 90 degrees to one or both sides of the child at eye level (reinforcers positioned at a 45 degree angle are generally insufficient for eliciting an observable head turn).



Visual Reinforcement Audiometry (VRA) Templated Installation Procedure



The VRA PRO 2 system has an included template that is designed to assist in new installations.

(Note: due to the variety of audiometric suite configurations, not all installation applications can benefit from the VRA install template and may require a disassembled VRA installation)

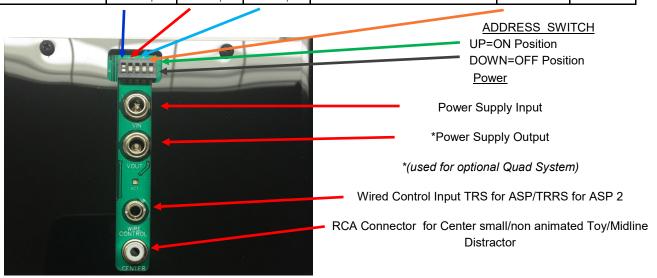
- Carefully fold the install template to a 90 degree angle at the indicated fold line.
- Removed the precut keyholes on the template.
- Place the template in the corner of the audiometric booth to the desired position of the VRA unit, with a pencil, mark the keyholes on the template.

(Note: if installing the VRA system below a sound field speaker or other object, you will need to leave at least 1 inch above the install template for the side reinforcer to go onto the screws and then drop down into the keyhole slots. Some other objects such as power cords or other wires may preclude the effective use of the install template)

- With a power drill, install the provided (SIDE) sheet metal screws at the top of the keyhole mark. Leave about 1/4" sticking out from the wall to allow for the plexi material to fit between the head of the screw and the audiometric booth wall.
- **Prior** to hanging the VRA Pro on the wall and plugging into power, double check that the side unit address is properly assigned:

Side Unit Address Switch:

Switch Assignment	1	2	3		4	5
LEFT Primary	Off/Down	Off/Down	On/UP	Option		
RIGHT Primary	Off/Down	On/Up	Off/Down	1 LED color cycle with remote but-	Off/Down	Off/Down
LEFT Secondary	Off/Down	On/Up	On/Up	ton	Oll/Dowll	Oll/Dowl
RIGHT Secondary	On/Up	Off/Down	Off/Down	2 LEDs Autocycle/LED button tog- gles animation	Off/Down	On/Up
Center Button	On/Up	On/Up	On/Up			



Rear Panel of Side Reinforcer Unit-VRA Pro 2

- Run power cords (supplied) to each side reinforcer unit, use 10" extensions (included) when necessary. (Excess power cable can be hidden easily behind the side reinforcer unit)
- Install Centering Toy/Midline Distractor Unit in the same manner as the Side Units, use the (supplied) #4 sheet metal screws labeled center.

(Note: some applications may require different screws that the ones provided, if this is the case, consult with your local audiology equipment installer)

- Run 25' RCA cable from the centering toy/midline distractor box to the nearest side reinforcer unit.
 - (Excess RCA cable can be hidden easily behind the side reinforcer unit)
- Secure all lose wires and cables with adhesive tabs and zip ties, ensure that all wires are safely secured.

Visual Reinforcement Audiometry (VRA) Non-Templated/Disassembled Installation Procedure



IF the templated installation procedure is not appropriate for your application, use the disassembled installation procedure.

- Remove the 4 pan head screws from the smoke plexi cover panel, set out of the way so as not to get damaged or scratched.
- Remove 4 flat screws from the LED panel, allow the panel to lay flat in front of the side unit. Do not pull or put strain on the LED wires, as this can cause intermittent function.
- Remove VRA figure and magnetic base.
- Remove reflective back by turning the lower corners towards the servo and then tilting the top of the reflective back out of the unit. (This will allow visibility to the keyholes for marking the layout on the booth).
- Place LED panel back into the unit, so it does not put strain on LED wires.

Position the Side Unit to the desired location, mark the keyhole layout on the walls with a pencil or pen. (Note: if installing the VRA system below a sound field speaker or other object, you will need to leave at least 1 inch above the top of the side reinforcer to go onto the screws and then drop down into the keyhole slots.)

- Install #6 –3/4" pan head sheet metal screws with a power drill, leave about 3/16-1/4" of space for plexi material to fit between the wall and pan head install screw.
- Dry fit the disassembled unit to ensure a proper fit. Use same disassembled unit to layout the second, third and 4th units (only necessary to disassemble a single unit).
- Re-assemble the VRA unit :
 - Replace the reflective backing
 - Installing the LED panel flat/tapered screws
 - Replace figure, plug in VRA box and test to make sure the reinforcer faces forwards during movement, adjust appropriately, also test unit to ensure that the LEDs light up when remote is pushed. Remove from power again.
- Replace smoke panel and 4 pan head screws. Do not over tighten screws as this can crack the smoke panel.
- **Prior** to hanging the VRA Pro on the wall and plugging into power, double check that the side unit address is properly assigned:

Side Unit Address Switch: (Firmware Version 2)

Switch Assignment	1	2	3		4	5
LEFT Primary	Off/Down	Off/Down	On/UP	Option		
RIGHT Primary	Off/Down	On/Up	Off/Down	1 LED color cycle with remote button	Off/Down	Off/Down
LEFT Secondary	Off/Down	On/Up	On/Up			
RIGHT Secondary	On/Up	Off/Down	Off/Down	2 LEDs Autocycle/LED button tog- gles animation	Off/Down	On/Up
Center Button	On/Up	On/Up	On/Up			

(See previous page photo/diagram for address questions)

- Run power cords (supplied) to each side reinforcer unit, use 10" extensions (included) when necessary.
 (Excess power cable can be hidden easily behind the side reinforcer unit)
- Install Centering Toy/Midline Distractor Unit in the same manner as the Side Units, use the (supplied) #4 3/4" panhead sheet metal screws labeled center.

(Note: some applications may require different screws that the ones provided, if this is the case, consult with your local audiology equipment installer)

- Run 25' RCA cable from the centering toy/midline distractor box to the nearest side reinforcer unit.
 - (Excess RCA cable can be hidden easily behind the side reinforcer unit)
- Secure all lose wires and cables with adhesive tabs and zip ties, ensure that all wires are safely secured.

Troubleshooting

Troubleshooting VRA PRO 2



Side Units					
Problem	Possible Cause	Remedy			
No Act LEDs	Power connector not connected properly	Seat connector completely in VIN/VOUT jacks			
	2. Power module is not operational	Replace power module			
	Power module not plugged into powered main	3. Plug power module into powered main outlet			
	LED connectors are not plugged in well to connections on Printed Circuit Board (PCB)	4. Double check connections of LEDs into Printed Circuit Board (PCB)			
No response from unit when using Wireless or Wired controllers	Unit # or Unit address not set	Set Unit # or Unit Address selector switch to 1, 2, 3, or 4 as appropriate, cycle power to unit (unplug and re-plug power)			
Servo Motor does not move but white LEDs	Servo motor not plugged in	Check servo connection to Printed Circuit Board (PCB)			
light up	2. Failure of servo motor	2. Replace motor			
While LEDs don't light up in centering toy	Lose connection on RCA cable from side unit. Faulty RCA cable	Check cable connections between Centering Unit and Side unit			
	2. Faulty NOA Cable	2. Replace RCA cable			
Two or more units activate at the same time	 Unit #'s/Unit address are set to the same number. Adjacent rooms systems have lost power, and then remote buttons were pushed causing units to be paired to a single remote 	Reconfigure Unit #s/Unit address and cycle power Unplug all systems, plug one system in at a time and resynchronize, each system, one booth/room at a time			
Wired controller does not work properly	Connector is not inserted completely	Seat connector completely in jack			
Wireless Remote					
Status LED does not	Faulty batteries	Install fresh batteries			
blink when batteries are initially installed	Dirty connectors in the battery compartment Fault in circuit board/wiring	Clean battery compartment connectors with rubbing alcohol on a cotton swab Contact MFG or Service Rep for service.			
Status LED does not turn on when button is pushed and no action is evident on side/center units	Side units not powered Side units not addressed correctly	Check power to side units. Check connection from centering unit to side unit. Set appropriate unit #s on each side unit. (1=LEFT primary, 2=RIGHT primary, 3=LEFT secondary, 4= RIGHT secondary)			
Status LED blinks/ indicates red	Low battery voltage	Replace batteries			
No tactile button feed- back	Stuck button	Wiggle button to free.			
		Check button clearance on remote case			
Side unit functions do not turn off when button is released	Stuck button	Wiggle button to free Check button clearance on remote case			

LIMITED WARRANTY

This is a "Limited Warranty" which gives you specific legal rights. You may also have other rights, which vary from jurisdiction to jurisdiction. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the limitation or exclusion under this Limited Warranty may not apply to you. Please keep your dated sales receipt; it is required for all warranty requests. Any dispute or controversy regarding this Limited Warranty arising from your use of your Conditioned Play Innovations products will be resolved by final and binding bilateral arbitration.

<u>Warranty Coverage</u>: For a period of one (1) year from the date of purchase of your Conditioned Play Innovations product, or one (1) year from the date of purchase of your original Conditioned Play Innovations product. Conditioned Play Innovations, LLC ("CPI") will, at its sole option, repair or replace any CPI products that malfunction due to defective parts or workmanship at no charge to you, the original owner. You will have to pay shipping & handling charges to and from CPI. This warranty is not transferable and applies only to the original consumer purchaser. CPI may, in its sole discretion, make any repair or replacement with new or refurbished product or components. If the product or component requiring repair or replacement is no longer available, CPI may, in its sole discretion, replace such product with a similar product of similar function.

Warranty Term: This warranty lasts one year from the original date of purchase.

<u>Warranty Exclusions</u>: Repair service or damage due to misuse, abuse, negligence, or casualty (e.g., fire), acts of God (including but not limited to lightning, flood, tornado, earthquake, or hurricane), and consumable parts (including batteries) are not covered by this warranty. Damage from unauthorized service or modification of the product or of any furnished component will void this warranty in its entirety. This warranty does not include reimbursement for inconvenience, installation, loss of use, shipping costs, or unauthorized service. In addition, this warranty does not cover any losses, injuries to persons, loss of property or general damages.

CONSEQUENTIAL AND INCIDENTAL DAMAGES ARE NOT RECOVERABLE UNDER THIS WARRANTY. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

IMPLIED WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY IMPOSED ON THE SALE OF THIS VRA UNDER STATE LAW, ARE LIMITED TO ONE YEAR FOR THE VRA OR ANY OF ITS PARTS. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

We strongly suggest that you do not buy CPI products from any unauthorized sellers, as such products may be used, defective, counterfeit or may not be designed for use in your country. This warranty covers only CPI products and is not extended to other equipment, components, or devices that a customer uses in conjunction with our products. CPI's maximum liability under this warranty is limited to the original purchase price of the CPI product in question.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY, REPRESENTATION OR CONDITION OF MERCHANTA-BILITY OR THAT THE PRODUCTS ARE FIT FOR ANY PARTICULAR PURPOSE OR USE, AND SPECIFICALLY IN LIEU OF ALL SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES. IF CPI LLC CANNOT LAWFULLY DISCLAIM STATUTORY OR IMPLIED WARRANTIES, THEN TO THE EXTENT PERMITTED BY LAW, ALL SUCH WARRANTIES SHALL BE LIMITED IN DURATION TO THE DURATION OF THIS EXPRESS LIMITED WARRANTY AND TO REPAIR OR REPLACEMENT SERVICE. SOME JURISDICTIONS DO NOT ALLOW LIMITATIONS ON HOW LONG A STATUTORY OR IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS

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Service: In order to be eligible for service under this warranty, you MUST provide documentation of original receipt and purchase date.

For warranty requests: Please be prepared to describe the product (Make, Model, Serial Number, etc.) that needs service, the nature of the problem and to provide proof of purchase and date of purchase. You will also be required to return your existing device in accordance with directions that will be provided by CPI. CPI has no warranty obligations with respect any products that are excluded from warranty pursuant above, as reasonably determined by CPI, and the owner of such device shall bear all shipping costs to CPI and for the return of such product to owner. Any claim under this Limited Warranty must be submitted to CPI before the end of the warranty period described above. Please allow up to fourteen (14) business days for your warranty request to be processed.

If something goes wrong with your VRA PRO System, contact your local distributor that sold/installed the system. If you purchased the device directly from Conditioned Play Innovations, contact us at conditionedplayinnovations@gmail.com or call us at 801-607-1800 for instructions on warranty service. Once you have obtained a repair authorization number (RMA#) send it postage paid with a brief written description of the problem to:

Conditioned Play Innovations-VRA systems Attn: Service Department 2372 W 1200 N Provo, Utah 84601

We will inspect your VRA and contact you within 14-21 business days of its receipt to give the results of our inspection and an estimate of the labor, time estimate, and charges required to fix the VRA. If you authorize repairs, we will return the repaired VRA within 14-21 business days of your authorization and payment of shipping, labor, or non-warrantied charges. Availability of parts may delay repairs. Payment is due prior to releasing repaired devices. Devices will not be returned prior to payment of repair charges.

There is no charge for inspection.

Applicable Law: This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.