

Model 14012

DEPTH PERCEPTION APPARATUS USER INSTRUCTIONS



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Table of Contents:

System Description	_____	3
General Operation	_____	3
References	_____	4
Ordering Information	_____	6

DESCRIPTION:

This device consists of two rods suspended within an enclosed housing that contains its own lighting systems to provide uniformly diffused illumination. The rods are adjustable back and forth by means of a cord set attached to the rod guides.

The unit has been constructed such that external depth cues are eliminated, requiring that a subject make depth discriminations on the basis of binocular or monocular vision cues alone.

The unit is designed to test acuity of depth perception, and has had a long history of development. Its earliest appearance is found in the famous *three-needle experiment* designed by Helmholtz (1856-1866). Howard, in 1919, revised the design by using only two rods instead of three, making each rod moveable and allowing Subject (S) to adjust the rod designated the comparison. These two rods are seen through an aperture to eliminate extraneous cues. This apparatus became known as the Howard-Dolman Apparatus, and was used to screen aviation candidates for poor stereopsis. The present apparatus has been further refined by completely enclosing the rods within a housing and providing a uniform and diffused lighting system. The rods have been connected such that the S moves both rods simultaneously in opposite directions. The scale on top of the housing is graduated in centimeters. The pointer gives the distance *each* rod has moved away from center; therefore, to obtain the total distance between *rods*, it is necessary to double the indicated value.

GENERAL OPERATION:

1. Place the depth perception device on a table or stand at approximately eye level.
2. Connect the unit to any standard 115V AC outlet.
3. Position the subject approximately 15 feet from the unit and place the two control strings one in each hand.

Instruct S to align the rods from several randomly selected starting positions and under both monocular and binocular vision

REFERENCES:

- Andrews, T.G. (ed.), *Methods of Psychology*, New York: John Wiley and Sons, Inc., 1948, Chapter 6.
- Baker, L.M. , *General Experimental Psychology*. New York: Oxford University Press, 1960, Chapter 7.
- Berry, R.N., Riggs, L.A., Duncan, C.P., The Relation of Vernier and Depth Discrimination to Field Brightness. *Journal Exp. Psychology*, 1950, 40, 349-354.
- Boring, E.G., *Sensation and Perception in the History of Experimental Psychology*. New York: D Appleton Century Co., 1942, pages 282-288.
- Garrett, H.E., *Great Experiments in Psychology*, 3rd ed. New York: Appleton-Century-Crofts, Inc., 1951, Chapters 4 & 14.
- Gibson, J.J., *The Perception of the Visual World*. Boston: Houghton Mifflin Company, 1950, Chapters 10 & 13.

Notes:

Lafayette Instrument Depth Perception Apparatus

Model 14012 User's Manual

Ordering Information:

All phone orders must be accompanied by a hard copy of your order. All must include the following information:

- 1) Complete billing and shipping addresses
- 2) Name and department of end user
- 3) Model number and description of desired item(s)
- 4) Quantity of each item desired
- 5) Purchase order number or method of payment
- 6) Telephone number

DOMESTIC TERMS

There is a \$50 minimum order. Open accounts can be extended to most recognized educational institutions, hospitals and government agencies. Net amount due 30 days from the date of shipment. Enclose payment with the order; charge with VISA, MasterCard; or pay COD. We must have a hard copy of your order by mail or fax. Students, individuals and private companies may call for a credit application.

INTERNATIONAL PAYMENT INFORMATION

There is a \$50 minimum order. Payment must be made in advance by: draft drawn on a major US bank; wire transfer to our account; charge with VISA, MasterCard; or confirmed irrevocable letter of credit. Proforma invoices will be provided upon request.

RETURNS

Equipment may not be returned without first receiving a Return Goods Authorization Number (RGA).

When returning equipment for service, please call Lafayette Instrument to receive a RGA number. Your RGA number will be good for 30 days. Address the shipment to: Lafayette Instrument Company, 3700 Sagamore Parkway North, Lafayette, IN 47904, U.S.A. Shipments cannot be received at the PO Box. The items should be packed well, insured for full

value, and returned along with a cover letter explaining the malfunction. Please also state the name of the Lafayette Instrument representative authorizing the return. An estimate of repair will be given prior to completion ONLY if requested in your enclosed cover letter. We must have a hard copy of your purchase order by mail or fax, or repair work cannot commence.

WARRANTY

Lafayette Instrument guarantees its equipment against all defects in materials and workmanship to the ORIGINAL PURCHASER for a period of one (1) year from the date of shipment, unless otherwise stated. During this period, Lafayette Instrument will repair or replace, at its option, any equipment found to be defective in materials or workmanship. If a problem arises, please contact our office for prior authorization before returning the item. This warranty does not extend to damaged equipment resulting from alteration, misuse, negligence or abuse, normal wear or accident. In no event shall Lafayette Instrument be liable for incidental or consequential damages. There are no implied warranties or merchantability of fitness for a particular use, or of any other nature. Warranty period for repairs or used equipment purchased from Lafayette Instrument is 90 days.

DAMAGED GOODS

Damaged equipment should not be returned to Lafayette Instrument prior to thorough inspection.

When a shipment arrives damaged, note damage on delivery bill and have the driver sign it to acknowledge the damage. Contact the delivery service, and they will file an insurance claim. When damage is not detected at the time of delivery, contact the carrier and request an inspection within 10 days of the original delivery. Please call the Lafayette Instrument Customer Service Department for a return authorization for repair or replacement of the damaged merchandise.



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