

TITMUS*i*500™



P R E M I U M V I S I O N S C R E E N I N G

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TITMUS*i*500™

Premium Vision Screening

The Next Generation of Premium Vision Screening

As the manufacturer of the preferred vision screening instrument for visual health professionals, TITMUS introduces the latest in innovation with the TITMUSi500 vision screening instrument. This new instrument features a touch-screen panel with built-in vision screening software, electronic scoring of test results, an ergonomic design for patient comfort, natural line-of-sight testing, standardized fluorescent test illumination, and an integrated handle for ease-of-transport.

The contemporary compact design and added ergonomic features make the TITMUSi500 more efficient and easier to operate, while maintaining the recognized tradition of quality, durability, and ease-of-use that made TITMUS the industry standard. The TITMUSi500 is the screener of choice for the next generation.

Innovative Design

Designed to meet the unique needs of the 21st century, the TITMUSi500 introduces several new features making it more user-friendly and the clear choice for consistent and dependable performance. With over 50 years' experience, TITMUS continues to deliver the best instrument possible, emphasizing accuracy in the testing of visual performance in adults and children.

The TITMUSi500 incorporates a touch-screen panel that eliminates manual scoring, displays test information and instructions for each patient, compares test results to preset job standards, and generates a final report. The TITMUSi500 features built-in test data storage capability. Data can be imported from the touch-screen panel and printed using your PC (Personal Computer).

The TITMUSi500 features a new ergonomic design that incorporates the unique TITMUSComfort™ height adjustment to easily accommodate

adults and children of varying heights. Unique for the TITMUSi500 is the new natural line-of-sight testing, a feature designed to test at the best line-of-sight for progressive or multi-focal lens users.

The TITMUSi500 incorporates a new fluorescent light source that significantly improves slide illumination, closely replicating actual daylight conditions and providing true color testing. The fluorescent light source will give years of extended service and is placed in a module designed for easy replacement. This improvement, in conjunction with newly redesigned test slides, provides the most reliable test results available.

Designed with a foam headrest that can be easily cleaned, the need for messy replacement tissues is eliminated. The TITMUSi500 features an integrated foldable handle and comes with an optional soft-sided carrying case, making the delivery of vision screening services highly portable and effortless.

TITMUSi500 Vision Screener With Touch-Screen Panel



Other Special Features Include:

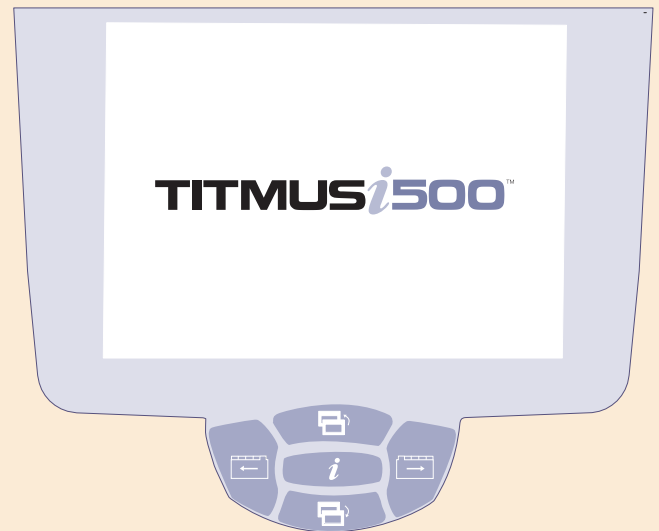
- TITMUSComfort™ height adjustment
- Touch-Screen Panel for instrument control

TITMUSComfort™ Height Adjustment

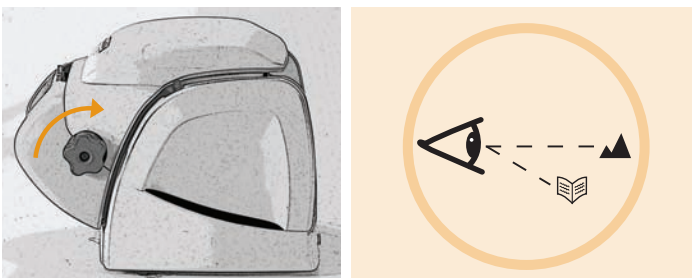


The TITMUSComfort™ height adjustment is designed for patient comfort, to accommodate both children and adults, either standing or seated.

Touch-Screen Panel



Natural Line-Of-Sight Testing



By turning the knob on the TITMUSi500, a progressive lens wearer can be tested at the optimal line-of-sight for far or near vision testing.

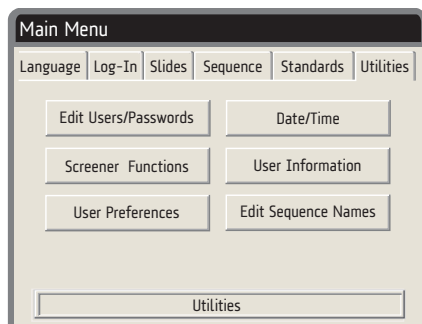
The TITMUSi500 incorporates a convenient touch-screen panel with built-in user-friendly vision screening software.

TITMUSi500 Touch-Screen Panel Software

The touch-screen panel has built-in vision screening software that eliminates manual scoring and provides test interpretation.

Sample screen shots of the TITMUSi500 touch-screen panel software are shown below.

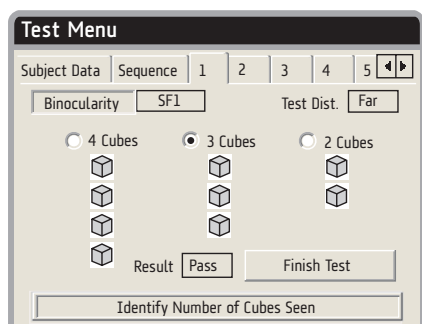
Main Menu



Options on the Main Menu include Language selection,

Log-in for operators, Slides available in the instrument, Test Sequence selection, Job Standards review and Utilities. (Sample screen shown: Utilities).

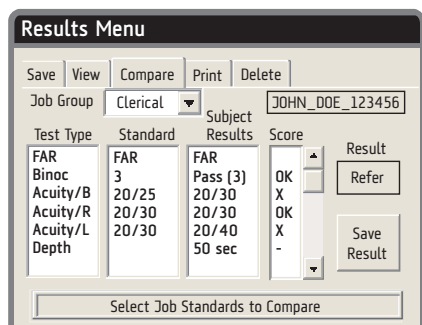
Test Menu



The Test Menu has options to enter patient (subject)

information and select preset sequences. The screen for each test displays information and instructions for a patient and a place to record answers along with test interpretation. (Sample screen shown: Binocular vision test).

Results Menu



The Results Menu has options to save, view and delete test

results. Test results can also be compared to preset Job Standards with the interpretation of the results. (Sample screen shown: Compare results).

Slides for TITMUSi500 Model

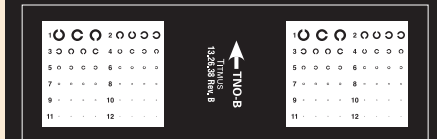
The TITMUSi500 includes test slides to screen a variety of visual functions, thus providing a comprehensive vision screening method. Other test slides are available.

Test No. 1, SF-1: Binocularity Both Eyes



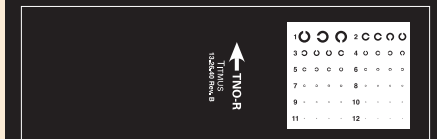
To determine whether both eyes are being used together.

Test No. 2, TN0-B: Acuity Both Eyes



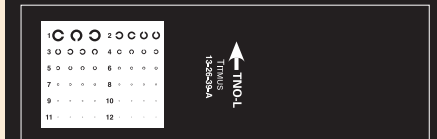
This pattern of Landolt Rings provides a precise measure of acuity with literates or illiterates. The direction of the opening in the ring is to be identified.

Test No. 3, TN0-R: Acuity Right Eye



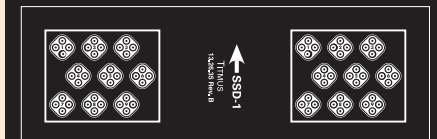
Similar to the Both Eyes Test, with different directions and image omitted for the Left Eye.

Test No. 4, TN0-L: Acuity Left Eye



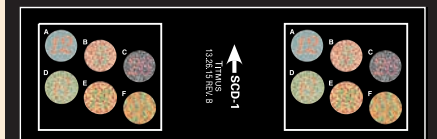
Similar to the Both Eyes Test, with different directions and image omitted for the Right Eye.

Test No. 5, SSD-1: Stereo Depth



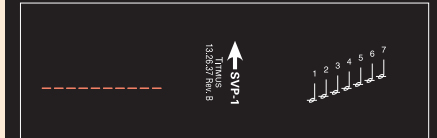
Is a precise measure of one of the important factors of depth perception. It provides an excellent measure of binocular skill.

Test No. 6, SCD-1: Color Perception



Consists of six accurately reproduced Ishihara Pseudo-Isochromatic plates. Detects color deficiency but does not classify.

Test No. 7, SVP-1: Vertical Phoria



Measures vertical muscle balance in 0.5 prism diopter steps.

Test No. 8, SLP-1: Lateral Phoria



Measures horizontal muscle balance in 1 prism diopter steps.

TITMUSi500 Features



Appearance

Modern, sleek, contoured design in contemporary colors.

Ergonomics

The TITMUSi500 instrument incorporates a unique TITMUSComfort™ height adjustment feature that accommodates adults and children of varying heights. This feature ensures that when a patient is seated or standing, they are in a comfortable position for testing. This is essential for efficient and accurate testing.

Natural Line-of-Sight Testing

Vision testing is done with the TITMUSi500 instrument at the natural line-of-sight – looking straight ahead for distance and downward for near vision. This unique feature enables a progressive lens wearer to adjust the line-of-sight, so that the optimum portion of the lens is being used to view the test.

Touch-Screen Panel

The TITMUSi500 incorporates a touch-screen panel that eliminates manual scoring. The panel displays test instructions, allows the operator to record test results, compares test results to preset job standards, and generates a test report. Reduce test time by using the sequencing feature that allows you to select specific tests.

Data Storage and Printing

Test results are stored on the TITMUSi500 touch-screen panel. The TITMUSi500 PC Software is provided for your PC to import test results from the touch-screen panel, print test results from your PC and to download future upgrades to the panel software.

Portability

The TITMUSi500 instrument is designed with an integrated foldable handle for ease-of-transport. It also features side storage pockets to hold accessories and record forms. The touch-screen panel conveniently mounts on the back of the instrument for transport.

New Light Source

The TITMUSi500 instrument meets the ANSI and ISO standards for illumination using a true white light source to give years of extended service. Light module has a warranty of three (3) years.

Foam Headrest

The TITMUSi500 instrument is designed with a new soft foam headrest to provide proper head positioning and comfortable support. The foam headrest can easily be cleaned using a disinfectant solution.

Head Sensor

The TITMUSi500 instrument has a built-in sensor to recognize correct head positioning. The head must be correctly positioned for test slides to be seen. This feature can also be deactivated if a patient continuously moves his or her head.

Peripheral Vision Testing

The TITMUSi500 instrument can perform peripheral vision testing in the horizontal visual field at 85°, 70°, 55° & nasal 45° for each eye.

Night Vision Testing

The TITMUSi500 screens vision at night driving conditions.

Available Tests

A variety of tests are available for the TITMUSi500 instrument to screen for visual acuity, muscle balance (horizontal and vertical phoria), depth perception, color perception, and binocular vision.

Intermediate Lenses (Optional)

Five additional lenses offer the best means of identifying vision problems at intermediate distances of 19, 22, 26, 32 and 40 inches (50, 57, 67, 80 and 100 cm). These lenses provide comprehensive vision screening at the actual working distance from the eye.

Carrying Case (Optional)

An optional soft-sided carrying case with wheels and collapsible handle is available for the TITMUSi500.

Warranty, Accessories, Standards and Technical Data

Warranty

The TITMUSi500 has a warranty for a period of three (3) years against defects in materials and workmanship from date of purchase. Warranty includes the light module.

Standard Accessories

- 8 Test Slides made from high grade photographic film sealed between optical-quality glass.
- Training Manual (technical support available via the internet)
- 10 Lens Cleaning Wipes
- Package of 3 Fog Eliminator Cloths
- Accessory Case for storing lens cleaning wipes, fog eliminator cloths, and lenses
- Dust Cover for instrument storage

Optional Accessories

- Carrying Case - soft-sided, ergonomically designed with wheels, for easy transport of vision screener
- Intermediate Lenses - 19, 22, 26, 32 and 40 inches (50, 57, 67, 80 and 100 cm)
- Plus Lenses with values of +1.00, +1.50, +1.75 and +2.25 are available for testing children's vision

PC Requirements

Intel Pentium processor, 24MB RAM, 15MB hard drive space, CD Drive, USB Port, Windows 2000/XP.

Electrical Standards

The TITMUSi500 meets the CE, UL, and CSA Standards

Europe: EN 55011 Group 1, Class A
EN 60601-2
IEC 601-1-2

USA: UL 2601-1, 1st Ed. Category 355

Canada: CSA-C22.2, No. 601.1-M90, Category 245
Class 1 Device

Technical Data

Power Supply: 110-240 VAC, 0.4-0.2 A, 50/60 Hz

Fuse Rating: 2 A, 250 V

Illumination: As per ISO 8596 and ANSI Z80.21 Standards

Dimensions: W X L X H units

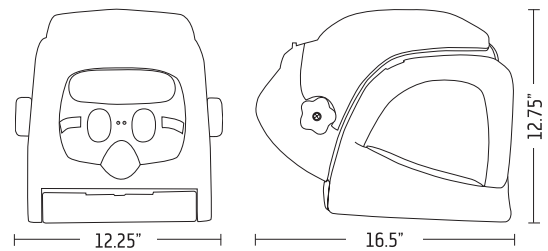
12.25 X 16.5 X 12.75 inches (closed condition)

31 X 42 X 32 cm (closed condition)

Weight: 18 lbs/ 8.5 kg

Temperature: +50°F to +100°F (+10°C to +40°C)

Humidity: 30% to 75%



TITMUSiSeries Model Comparison

| Model Features | i500 | i400 | i250 | i200 |
|---|-----------|-----------|----------|----------|
| Touch-Screen Control Panel with Software | • | | | |
| Membrane Control Panel | | • | | |
| Built-In Membrane Switches | | | • | • |
| Natural Line-of-Sight Testing | • | • | | |
| Ergonomics (TitmusComfort™ Height Adjustment) | • | • | • | • |
| New Fluorescent Light Source | • | • | • | • |
| Portability | • | • | • | • |
| Soft Foam Headrest | • | • | • | • |
| Head Positioning Sensor | • | • | | |
| Peripheral Vision Testing | • | • | • | |
| Test Slide Advance/Reverse | automatic | automatic | manual | manual |
| Night Vision Testing | • | • | | |
| Carrying Case (soft-sided) | optional | optional | optional | optional |
| Standard Accessories | • | • | • | • |

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