

AmScope PS100E-72P100S22-50PP

AmScope Deluxe Microscope Slide Set User Manual

Model: PS100E-72P100S22-50PP

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1. INTRODUCTION

This manual provides comprehensive instructions for the AmScope Deluxe Assorted Sample Specimens Set. This set is designed for educational use, offering a diverse selection of prepared microscope slides, along with blank slides, coverslips, and pipettes for creating custom specimens. It is suitable for students and enthusiasts of all ages interested in microscopy.

2. PACKAGE CONTENTS

Verify that all items listed below are present in your package:

- 100 Prepared Microscope Sample Slides (Set E)
- 72 Pre-cleaned Clear Blank Glass Slides
- 100 Glass Coverslips
- 50 1mL Plastic Pipettes
- Hardwood Storage Case for Prepared Slides



Image 1: Complete AmScope Deluxe Microscope Slide Set, showing the wooden case containing prepared slides, boxes of blank slides and coverslips, and a bundle of pipettes.



Image 2: Close-up view of the packaged blank slides and coverslips, still sealed in plastic.

3. PRODUCT OVERVIEW

The AmScope Deluxe Microscope Slide Set provides a comprehensive collection for microscopic study and personal specimen preparation.

3.1 Prepared Slides (Set E)

The 100 prepared slides in Set E are professionally mounted, accurately stained, and individually labeled. They cover a diverse range of biological specimens from anatomy, botany, zoology, and hematology. Each slide is cover-slipped and preserved in cedar wood oil, ensuring clarity and longevity. The slides are housed in a varnished wooden case with brass hardware for organized storage and protection.

Prepared Slide List (Set E):

- Bacillus, smear
- Bee Wings, w.m.
- Bee Worker Leg-Composite, w.m.

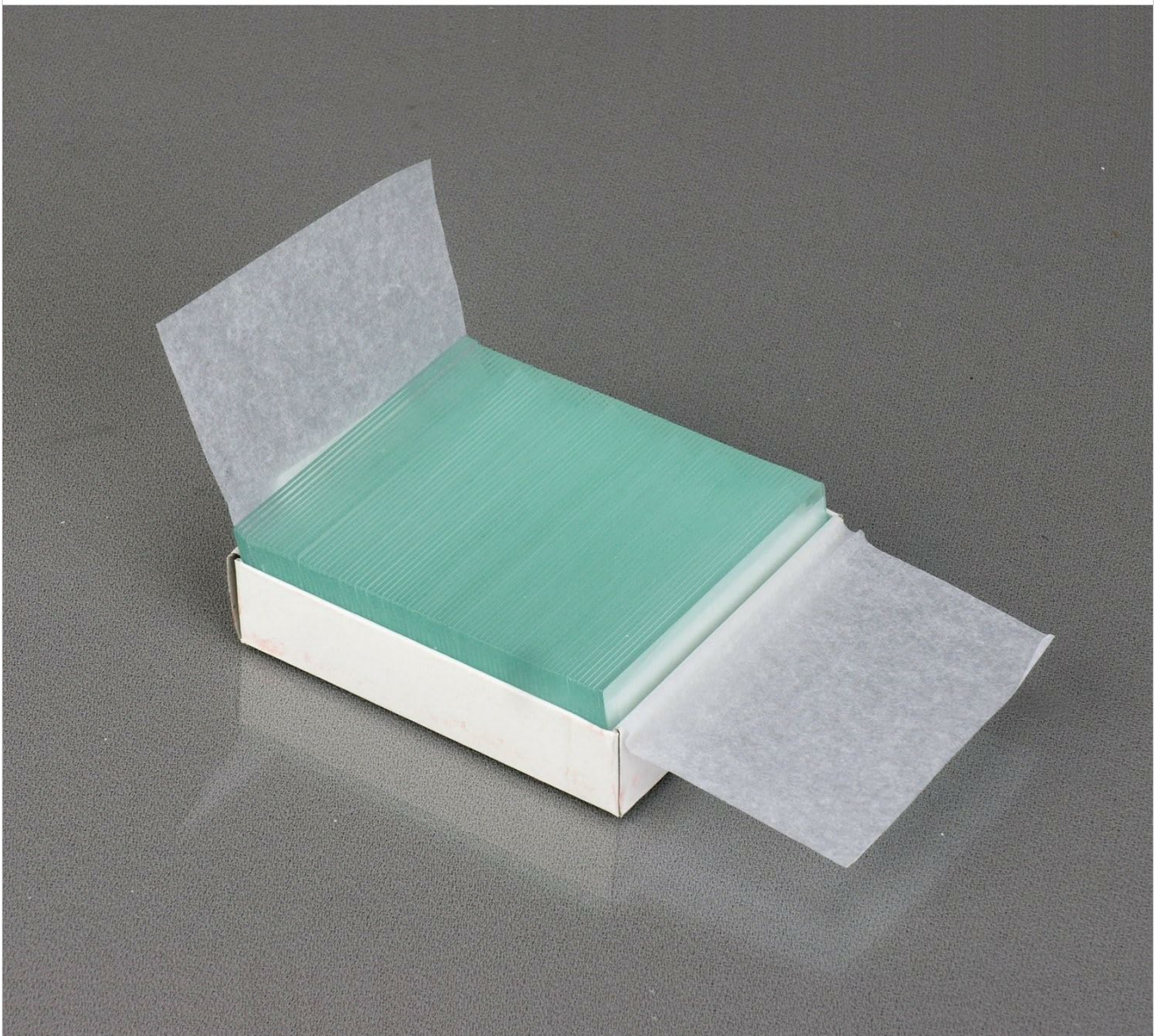
- Bone Marrow Mammal, smear
- Butterfly Wings Ocales, w.m.
- Cerebrum Mammal, sec.
- Chlamydomonas, w.m.
- Coprinus Mushroom Set, c.s.
- Cucurbita Stem, l.s.
- Daphnia, w.m.
- Dog Cardiac Muscle, l.s.
- Dog Duodenum, c.s.
- Dog Esophagus, c.s.
- Dog Ileum, c.s.
- Dog Jejunum, c.s.
- Dog Pancreas, sec.
- Dog Rectum, c.s.
- Dog Skeletal Muscle, l.s. & c.s.
- Dog Small Intestine, sec.
- Dog Smooth Muscle, l.s. & c.s.
- Dog Spleen, sec.
- Dog Squamous Epithelium, w.m.
- Dog Stomach, sec.
- Dog Trachea, c.s.
- Dog Ureter, c.s.
- Dragonfly Wings, w.m.
- Earthworm, c.s.
- Euglena, w.m.
- Feather, w.m.
- Fern Prothallia, w.m.
- Fern Prothallia and Sporangia, w.m.
- Fern Leaf-Sorus, w.m.
- Fish Blood, smear
- Fish Scales, w.m.
- Frog Blood, smear
- Frog Epidermic Cell, sec.
- Frog Liver, sec.
- Frog Lung, sec.
- Frog Showing Spermary, sec.
- Honeybee Mouth Parts, w.m.
- Housefly Compound Eye, w.m.
- Housefly Mouth Parts, w.m.
- Human Blood, smear
- Human Cell Mucus Membrane, smear
- Human Hair, w.m.
- Human Spermatozoa, smear

- Hydra, c.s.
- Hydrilla Verticillata Leaf, w.m.
- Ipomoea Leaf, c.s.
- Ipomoea Root, sec.
- Lilium Anther, c.s.
- Lilium Ovary, c.s.
- Marchantia Mature Sporophyte, l.s.
- Meiosis-Lilium Pollen, w.m.
- Mitosis-Onion Root Tip, l.s.
- Mixed Bacteria, smear
- Mosquito Larva, w.m.
- Mosquito Mouth Parts, w.m.
- Mosquito Wings, w.m.
- Nervous Tissue, sec.
- Onion Epidermis, w.m.
- Paramecium, w.m.
- Penicillium, w.m.
- Pig Motor Nerve, w.m.
- Pine Leaf, c.s.
- Pine Root, c.s.
- Pine Stem, c.s.
- Pine Young Staminate Cone, l.s.
- Poa Leaf, c.s.
- Pollen Grain, w.m.
- Pome Sclereid, w.m.
- Pumpkin Stem, c.s.
- Rabbit Arteriole, c.s.
- Rabbit Artery and Vein, c.s.
- Rabbit Blood, smear
- Rabbit Hyaline Cartilage, sec.
- Rabbit Lymph Node, sec.
- Rabbit Spinal Cord, c.s.
- Rabbit Testis, sec.
- Rhizopus, w.m.
- Rice Stem, c.s.
- Root-Meristem, l.s.
- Smooth Muscle Breakaway, w.m.
- Spirillum, smear
- Spirogyra Conjugation, w.m.
- Stem-Collenchyma, c.s.
- Stem-Parenchyma, c.s.
- Stem-Sclerenchyma, c.s.
- Stem-Tracheid, l.s.

- Stomata-Vicia Faba Leaf, w.m.
- Sunflower Stem, c.s.
- Tilia Stem, c.s.
- Tomato Flesh, w.m.
- Volvox, w.m.
- Yeast-Budding, w.m.
- Zea Root, c.s.
- Zea Root Tip, l.s.
- Zea Seed, l.s.
- Zea Stem, c.s.
- Zea Stem, l.s.

3.2 Blank Slides and Coverslips

The set includes 72 pre-cleaned clear blank glass slides and 100 glass coverslips. These are provided for users to prepare their own specimens, allowing for hands-on learning and experimentation.



3.3 Pipettes

Fifty 1mL plastic pipettes are included for convenient handling and transfer of liquids, such as stains or water, during specimen preparation.

4. SETUP

Before using the microscope slide set, ensure you have a clean, stable workspace and a functional microscope.

1. **Unpack Components:** Carefully remove all items from the packaging. Inspect the slides for any damage.
2. **Organize Prepared Slides:** The 100 prepared slides are stored in a wooden case. Keep them organized by their labels for easy identification.
3. **Store Blank Slides and Coverslips:** Keep blank slides and coverslips in their protective packaging until ready for use to prevent dust and scratches.
4. **Prepare Workspace:** Ensure your microscope is set up according to its own manual. Have necessary tools like distilled water, staining solutions (if preparing new slides), and cleaning supplies readily available.

5. OPERATING INSTRUCTIONS

5.1 Using Prepared Slides

1. **Select a Slide:** Choose a prepared slide from the wooden case based on the specimen you wish to observe.
2. **Place on Microscope Stage:** Carefully place the slide onto the microscope stage, securing it with the stage clips.
3. **Focus and Observe:** Using your microscope's controls, adjust the focus and magnification to view the specimen. Start with the lowest magnification objective lens and gradually increase as needed.
4. **Return to Case:** After observation, carefully remove the slide and return it to its designated slot in the wooden storage case.

5.2 Preparing Your Own Slides

This set includes blank slides, coverslips, and pipettes for creating custom specimens. Basic steps for preparing a wet mount:

1. **Clean Slide:** Ensure a blank glass slide is clean and free of dust or fingerprints.
2. **Apply Specimen:** Place a small, thin specimen in the center of the blank slide.
3. **Add Liquid:** Using a pipette, add a drop of water or a suitable mounting medium over the specimen.
4. **Apply Coverslip:** Gently lower a coverslip over the specimen at a 45-degree angle to avoid air bubbles.
5. **Remove Excess Liquid:** If there is excess liquid, carefully blot it with a piece of filter paper.
6. **Observe:** Place the newly prepared slide on the microscope stage and observe.

6. MAINTENANCE

Proper care and maintenance will ensure the longevity and clarity of your microscope slides.

- **Cleaning Slides:** For prepared slides, gently wipe with a soft, lint-free cloth if necessary. Avoid harsh chemicals. For blank slides, use lens cleaning solution and a soft cloth.
- **Storage:** Always store prepared slides in their wooden case to protect them from dust, scratches, and breakage. Keep blank slides and coverslips in their original packaging or a dust-free container.

- **Handling:** Handle slides by their edges to avoid leaving fingerprints on the viewing area.
- **Pipettes:** Clean pipettes thoroughly after each use if reusing, or dispose of them responsibly if single-use.

7. TROUBLESHOOTING

If you encounter issues during observation, consider the following common solutions:

- **Blurry Image:** Adjust the fine and coarse focus knobs. Ensure the objective lens is clean and properly screwed in. Check if the coverslip is correctly placed on custom slides.
- **Dark or Uneven Illumination:** Adjust the microscope's light source intensity and diaphragm. Ensure the slide is centered on the stage.
- **Dust or Debris on Image:** Clean the microscope's eyepiece, objective lenses, and the slide itself.
- **Air Bubbles in Custom Slides:** Re-prepare the slide, ensuring the coverslip is lowered slowly at an angle.
- **Damaged Slide:** If a prepared slide is damaged, it may not be repairable. Use a new slide.






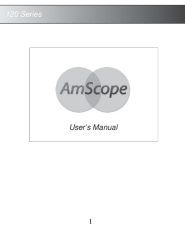
8. SPECIFICATIONS

Feature	Detail
Model Number	PS100E-72P100S22-50PP
Prepared Slides	100 pieces (Set E), glass, 3"x1" (25.4mmx76.2mm), 1mm thickness
Blank Slides	72 pieces, pre-cleaned clear glass, 3"x1" (25.4mmx76.2mm), 1mm thickness
Coverslips	100 pieces, glass
Pipettes	50 pieces, 1mL plastic
Storage Case	Hardwood with brass hardware for prepared slides
Material	Glass (slides, coverslips), Plastic (pipettes), Wood (case)
Product Dimensions (Box)	9 x 7.8 x 3 inches
Item Weight	3 Pounds
Manufacturer	United Scope, LLC
UPC	840979103230

9. WARRANTY & SUPPORT

AmScope products are manufactured under ISO 9001 Quality Control Standard. For specific warranty information and customer support, please refer to the documentation included with your purchase or visit the official AmScope website. If you have questions or require assistance, please contact AmScope customer service.

Related Documents - PS100E-72P100S22-50PP

	<p>AmScope DM150-W Full HD Digital Compound Microscope User Manual</p> <p>Comprehensive user manual for the AmScope DM150-W Full HD Digital Compound Microscope, covering setup, operation, safety, and maintenance for optimal use.</p>
	<p>AmScope M150 Series Microscope User Manual</p> <p>User manual for the AmScope M150 Series microscopes, covering setup, operation, maintenance, specifications, and troubleshooting.</p>
	<p>AmScope 120 Series Microscope User Manual</p> <p>Comprehensive user manual for the AmScope 120 Series microscopes, covering setup, operation, specifications, and troubleshooting for models like B120 and T120.</p>
	<p>AmScope SM-1 Series Stereo Microscope User Manual</p> <p>Comprehensive user manual for the AmScope SM-1 Series stereo microscopes, covering setup, operation, specifications, and troubleshooting for models like SM-1B/T, SM-1TS/BS, and SM-1(B/T)-PL.</p>
	<p>AmScope PM240 Series Stereo Microscope User Manual</p> <p>User manual for the AmScope PM240 Series stereo microscopes, covering setup, operation, specifications, and troubleshooting for binocular and trinocular models.</p>
	<p>AmScope 120 Series Microscope User Manual</p> <p>Comprehensive user manual for the AmScope 120 Series microscopes (B120 and T120), covering setup, operation, specifications, and troubleshooting.</p>