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ADA Instruments A00502

ADA Cosmo 120 Video Laser Distance Meter User Manual

Model: A00502

1. INTRODUCTION

The ADA Cosmo 120 Video is a professional digital laser distance meter designed for precise measurements up to 120 meters (394 feet). It features a unique combination of a digital viewfinder and a 360° tilt sensor, enabling measurements that are challenging for ordinary laser distance meters. This device is ideal for both indoor and outdoor applications, providing accurate results with an error margin of ± 1.5 mm.

Key features include:

- **Digital Viewfinder with 3X Zoom:** Allows for precise targeting and measurement in unfavorable light conditions or over long distances, even when the laser dot is not visible.
- **Integrated 360° Tilt Sensor:** Enables horizontal distance measurement even with obstacles, and functions as a digital level for surface inclination.
- **Bluetooth Connectivity:** Facilitates data transmission to other devices.
- **Painter Function:** Automatically calculates the total area of walls in a room.



Image 1.1: The ADA Cosmo 120 Video displaying multiple distance measurements on its digital screen.

2. PACKAGE CONTENTS

Please check the package for the following items:

- ADA Cosmo 120 Video Laser Distance Meter
- Holster
- 2 x AA Batteries
- Reflective Plate
- User Manual

3. SETUP

3.1 Battery Installation

The device requires two AA batteries. To install:

1. Locate the battery compartment cover on the back of the device.
2. Open the cover.
3. Insert two AA batteries, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

3.2 Power On/Off

- To power on: Press the **MEAS** button.
- To power off: Press and hold the **CLEAR/OFF** button for a few seconds.

3.3 Changing Measurement Units

The device can display measurements in meters (m) or feet (ft). To change the unit:

1. Ensure the unit is powered off.
2. Press and hold the **MEAS** button for approximately 8-10 seconds.
3. The unit will beep, and the measurement unit displayed on the screen will change.

4. OPERATING INSTRUCTIONS

4.1 Basic Distance Measurement

To perform a single distance measurement:

1. Point the laser distance meter at the target object.
2. Press the **MEAS** button. The laser will activate.
3. Press the **MEAS** button again to take the measurement. The result will be displayed on the screen.

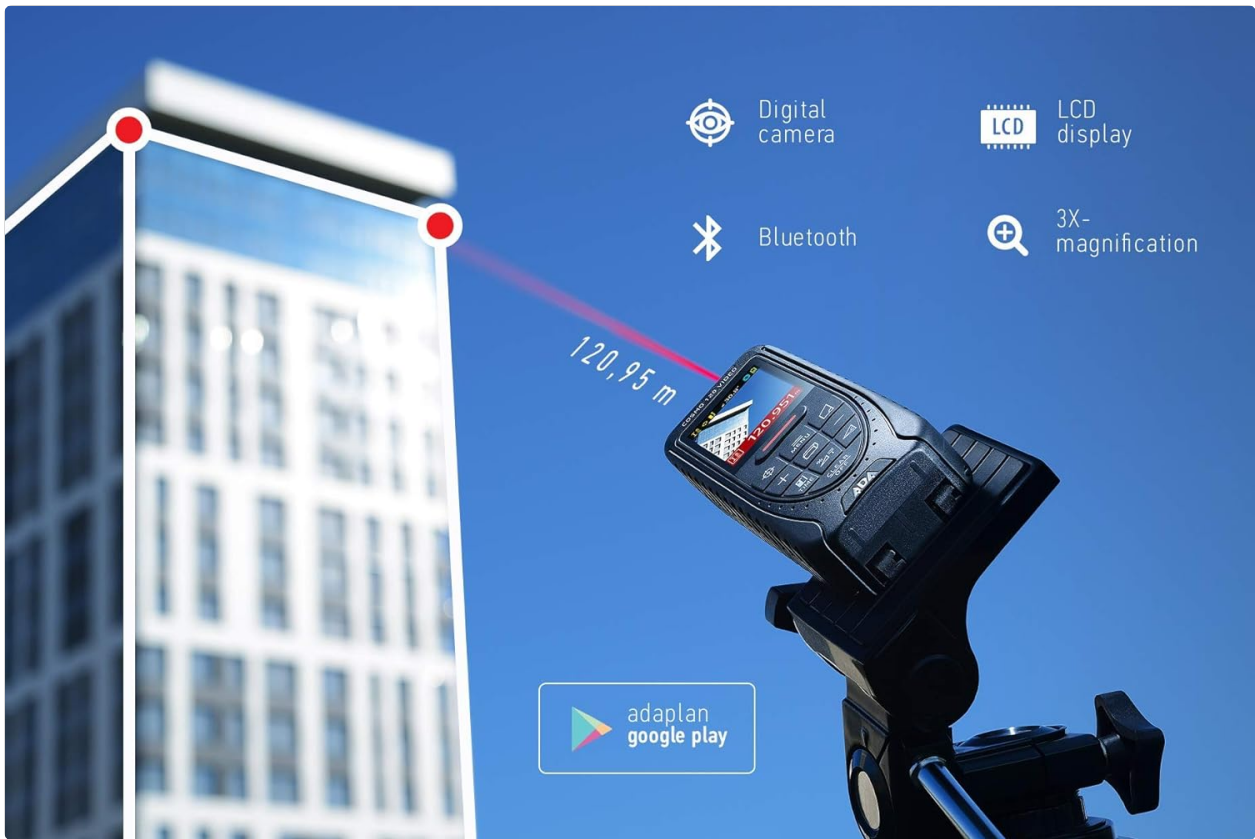


Image 4.1: The ADA Cosmo 120 Video in use, measuring a distance of 120.95 meters to a building.

4.2 Using the Digital Viewfinder

The integrated digital viewfinder with 3X zoom allows for accurate targeting, especially in bright outdoor conditions or when measuring long distances where the red laser dot might be invisible. The viewfinder displays a reticle on the screen, helping you precisely aim the device at your target.



Image 4.2: The ADA Cosmo 120 Video mounted on a tripod, with its screen displaying a digital view of a building and measurement data.

4.3 360° Tilt Sensor

The integrated 360° tilt sensor allows for:

- **Horizontal Distance Measurement:** Combine distance and inclination measurements to determine horizontal distances, even when direct line-of-sight is obstructed.
- **Digital Level Function:** Use the device to measure the inclination of any surface.

4.4 Painter Function

This function simplifies the calculation of the total wall area in a room. To use:

1. Measure the height of the wall once.
2. Measure the length of all walls.
3. The device will automatically calculate the total area.

4.5 Bluetooth Connectivity

The ADA Cosmo 120 Video supports Bluetooth for transmitting measurement data to compatible applications or devices. Refer to the specific application's instructions for pairing and data transfer procedures.

4.6 Using the Reflective Plate

For measurements over very long distances, in bright sunlight, or on surfaces with poor reflection properties, use the included reflective plate. Place the plate at the target point to improve laser detection and measurement accuracy.



Image 4.3: The reflective plate included with the ADA Cosmo 120 Video, used to enhance laser detection.

5. MAINTENANCE

To ensure the longevity and accuracy of your ADA Cosmo 120 Video, follow these maintenance guidelines:

- **Cleaning:** Use a soft, damp cloth to clean the device. Do not use harsh chemicals or abrasive cleaners.

Pay special attention to the lens and display, keeping them free of dust and smudges.

- **Storage:** Store the device in its holster in a dry, cool place, away from direct sunlight and extreme temperatures.
- **Batteries:** Remove batteries if the device will not be used for an extended period to prevent leakage.
- **Avoid Impact:** Protect the device from drops and impacts, as this can affect its calibration and functionality.

6. TROUBLESHOOTING

If you encounter issues with your ADA Cosmo 120 Video, try the following solutions:

- **Device not powering on:** Check if the batteries are correctly inserted and have sufficient charge. Replace batteries if necessary.
- **Inaccurate readings:** Ensure the target surface is suitable for laser measurement. Use the reflective plate for difficult surfaces or long distances. Check for obstructions in the laser path.
- **Laser dot not visible:** This is normal in bright conditions or over long distances. Use the digital viewfinder for targeting.
- **Bluetooth connection issues:** Ensure Bluetooth is enabled on both the device and your receiving unit. Check the pairing process according to your application's instructions.

If problems persist, contact ADA Instruments customer support for assistance.

7. SPECIFICATIONS

Feature	Specification
Manufacturer	ADA Instruments
Model Number	A00502
Dimensions	13.7 x 5.2 x 2.8 cm
Weight	150 g
Power Source	2 x AA Batteries (Alkaline)
Working Range	0.05 to 120 m
Measurement Accuracy	±1.5 mm
Tilt Sensor Accuracy	±0.3°
Display Type	Digital
Material	Plastic with rubber coating
Usage Environment	Indoor and Outdoor

8. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation provided with your purchase or visit the official ADA Instruments website. Keep your proof of purchase for warranty claims.

