



**LUM-500-PTZ**  
**Analog Surveillance Camera**

# **Quick Start Guide**

## Inspection

Ensure that the device is in good condition and all the assembly parts are included. If the product does not function properly, please contact technical support. Do not disassemble the camera for repair or maintenance.

### Box Contents

- Camera with arm mount
- 24VAC power adapter with two wire leads
- Steel cable lanyard with two carabiners
- Mount coupling with lanyard hook
- Hex wrench
- 4 expansion screws

### Required Equipment

To install this camera, you must provide

- Small slot-head screwdriver
- CC-TV tester (recommended)

### Preparation

- **Ensure that your recorder has the very latest firmware.** Use OvrC to update the firmware, or consult your DVR manual.
- Make sure that all equipment is powered off during installation.
- Ensure the wall is strong enough to withstand three times the weight of the camera and the mount.

We recommend installing with RG-59 or RG-6 cabling with two-wire power (the power supply is included). This provides better performance over distance than traditional category cable with baluns.

## Overview

Before installing, familiarize yourself with the parts of your camera.

### Tails

The PTZ camera has five different tails.

#### BNC Video Cables

Two black BNC cables are labeled for CVBS and TVI. These connectors are also provided with protective sheaths to prevent accidental cross-connection.

#### Power Cable

The power cable ends in a red screw terminal. Insert the two wires of the power supply into the red and black inputs. Do not use the yellow/green input. For grounding instructions, see the product manual.

#### Interface Cables

The RS-485 cable ends in a black screw terminal. Insert the positive line into the orange terminal, and the negative line into the yellow terminal.

The alarm cable is a bundle of wires that have no terminal.

- **Alarm In 1:** Yellow/blue
- **Alarm In 2:** Yellow/orange
- **Ground:** Yellow/black
- **Alarm Out 1:** White/red
- **Alarm Com 1:** White/black

When the camera triggers an alarm, it closes the circuit between Out 1 and Com 1.

## Installing the Camera with an DVR

First, choose which of the connectors you will use.

### Using the TVI Connector

**This is the recommended method.**

1. Use your RG59 or RG6 cable to connect the analog PTZ to a channel on the DVR. The TVI connection allows control of the PTZ.
2. Power up the DVR.
3. Power up the camera by using the 24VAC power supply provided with the camera.

### Using the CVBS connector

1. Use your RG59 or RG6 cable to connect the analog PTZ to a channel on the DVR.
2. Make the RS-485 connections to allow control of the PTZ camera.
3. Power up the DVR.
4. Power up the camera by using the 24VAC power supply provided with the camera.

## Physical Installation

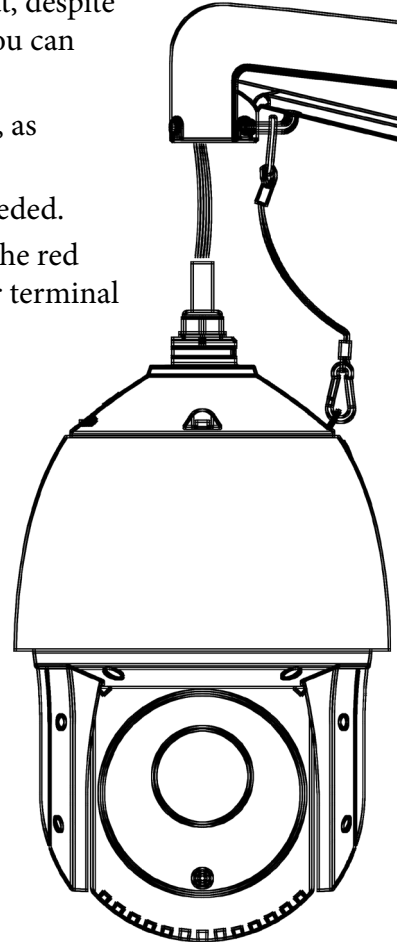
1. Attach the mount coupling to the camera. Note that, despite its appearance, the lanyard hook does not rotate; you can only tighten the two hex screws.
2. Attach the lanyard to the camera and to the mount, as shown.
3. Connect the video, power, and RS-485 cables as needed.
4. Attach power to the camera: attach the hot line to the red power terminal, and the ground to the black power terminal (refer to page 3 for details).
5. Insert the camera into the mount and secure it by rotating the camera clockwise.
6. Fasten the two lock screws with the Allen wrench.

### Set the Camera Parameters

You may, if you wish, set the camera's channel number, protocol, and baud mechanically, by using the DIP switches on the camera. Setting these allows your joystick controller to interact with the camera.


We recommend instead that you use the camera's OSD to set these parameters as it is much easier.

Regardless, please refer to the manual for details on how to set the DIP switches.



## Menu Operation

This camera does not have a web interface. All camera options can be handled by the in-camera OSD menu.

**To access the OSD menu**, click the PTZ icon (  ) in the lower part of the DVR interface, then click on the arrow (shown at right) to call Preset 95 and open the menu.

### Menu Operation

If you see a menu item that is enclosed in carats <Like This>, that menu item can be opened by pressing Iris+ (Open).

Otherwise the menu item can be edited directly. When editing:

- **Iris+** (Open) accepts all changes and closes the menu item.
- **Iris-** (Close) closes the item without saving changes.

Other selectable menu items include Back (which navigates you through the panes) and Exit (which takes you to the root).

### Menus with Multiple Pages

Some menus have more options than can be displayed on the screen. Instead, these menus have multiple pages. If a menu has additional pages available, special cursors display on the Back and Exit menu items.

- ◆ This icon shows if additional pages are available to the right.
- ◆ This shows if additional pages are available to the left.
- ◆ This icon shows if there are pages in both directions.
- ◆ If there are no additional pages, this icon shows.

To access these additional pages, tap your joystick (or the arrows of the DVR interface) left and right. For full menu details, refer to the online manual.



## Troubleshooting

### I'm Getting "Protocol Error 100"

Protocol Error 100 occurs when the camera notices that your PTZ joystick controller has RS-485 settings (e.g., baud) that do not match those of the camera.

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## Support

### Need Help? Contact Tech Support!

If you need further clarification, please email [support@SnapAV.com](mailto:support@SnapAV.com). For more information, instructional videos, support documentation, or ideas, visit our website and view your item's product page.

### 3-Year Limited Warranty

This Luma Surveillance™ product has a 3-Year Limited Warranty. This warranty includes parts and labor repairs on all components found to be defective in material or workmanship under normal conditions of use. This warranty shall not apply to products that have been abused, modified or disassembled. Products to be repaired under this warranty must be returned to a designated service center with an assigned return authorization (RA) number. Contact technical support for an RA number.

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