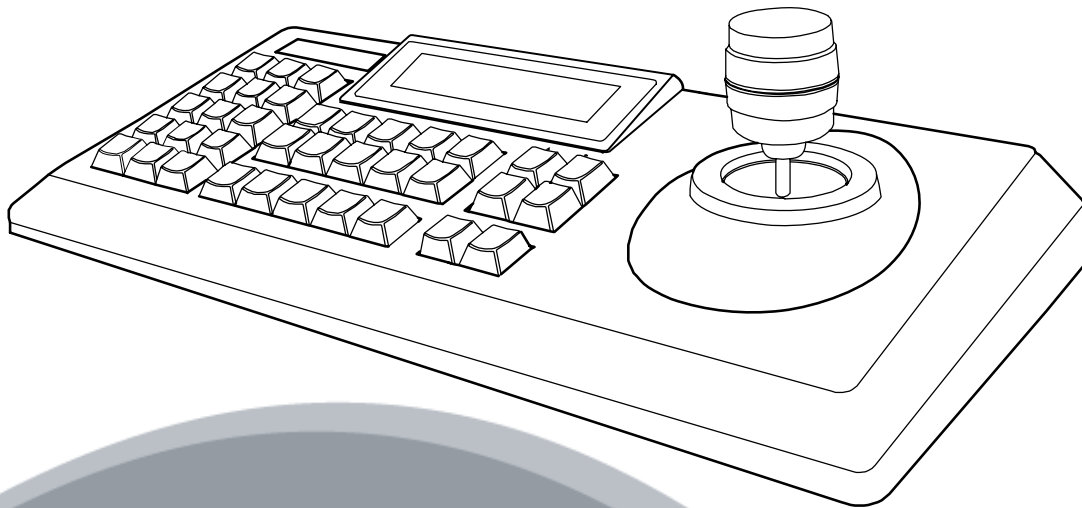




Optix Keyboard Controller

User Manual

model no. CM-250J



OPTIX

Please carefully read these instructions before using this product.

Save this manual for future use.

Manual Edition 27196 AC– SEPTEMBER
2006

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OPTIX® PTZ Controller
User Guide

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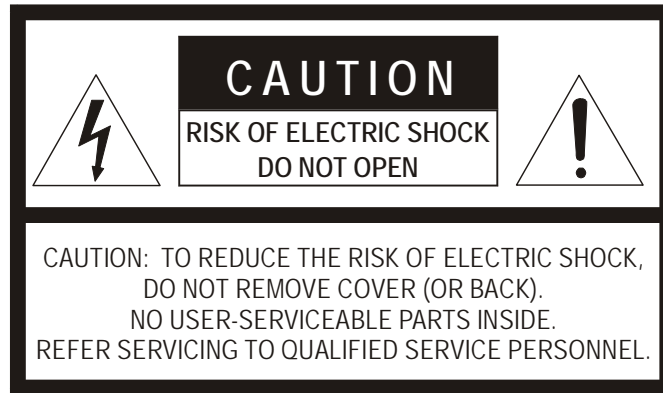
OpenEye Incorporated
www.openeye.com
1-888-542-1103

WARNINGS AND CAUTIONS

WARNINGS

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK
-DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE
-DO NOT INSERT ANY METALLIC OBJECTS THROUGH THE VENTILATION GRILLS OR OTHER OPENINGS ON THE EQUIPMENT

CAUTIONS



EXPLANATION OF GRAPHIC SYMBOLS



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instruction in the literature accompanying the product.

COMPLIANCE STATEMENT

FCC INFORMATION: THIS EQUIPMENT HAS BEEN TESTED AND FOUND TO COMPLY WITH THE LIMITS FOR A CLASS "A" DIGITAL DEVICE, PURSUANT TO PART 15 OF THE FCC RULES. THESE LIMITS ARE DESIGNED TO PROVIDE REASONABLE PROTECTION AGAINST HARMFUL INTERFERENCE WHEN THE EQUIPMENT IS OPERATED IN A COMMERCIAL ENVIRONMENT. THIS EQUIPMENT GENERATES, USES, AND CAN RADIATE RADIO FREQUENCY ENERGY AND IF NOT INSTALLED AND USED IN ACCORDANCE WITH THE INSTRUCTION MANUAL, MAY CAUSE HARMFUL INTERFERENCE TO RADIO COMMUNICATIONS. OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA IS LIKELY TO CAUSE HARMFUL INTERFERENCE IN WHICH CASE THE USER WILL BE REQUIRED TO CORRECT THE INTERFERENCE AT THEIR OWN EXPENSE.

CAUTION: CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

THIS CLASS "A" DIGITAL APPARATUS COMPLIES WITH CANADIAN ICES-003.

CET APPAREIL NUMERIQUE DE LA CLASSE "A" EST CONFORME A LA NORME NMB-003 DU CANADA.

CE COMPLIANCE STATEMENT

WARNING: THIS IS A CLASS "A" PRODUCT. IN A DOMESTIC ENVIRONMENT THIS PRODUCT MAY CAUSE RADIO INTERFERENCE IN WHICH CASE THE USER MAY BE REQUIRED TO TAKE ADEQUATE MEASURES.

IMPORTANT SAFEGUARDS

1. **READ INSTRUCTIONS** - All the safety and operating instructions should be read before the appliance is operated.
2. **RETAIN INSTRUCTIONS** - The safety and operating instructions should be retained for future reference.
3. **CLEANING** - Unplug the equipment from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
4. **ATTACHMENTS** - Do not use attachments not recommended by equipment manufacturer as they may result in the risk of fire, electrical shock or injury to persons.
5. **WATER AND MOISTURE** - Do not use equipment near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool or the like.
6. **ACCESSORIES** - Do not place equipment on an unstable cart, table, or other surface. The equipment may fall, causing serious injury to a child or adult and serious damage to the equipment. Place equipment on a stable surface or uses a mounting kit approved by the manufacturer.

Equipment and cart combinations should be moved with care. Quick steps, excessive force, and uneven surfaces may cause the equipment and cart combination to become unstable and overturn.
7. **VENTILATION** - Slots and openings in the cabinets and the back or bottom are provided for ventilation to ensure reliable operation of the equipment and to protect it from overheating. These openings must not be blocked or covered. Do not place the equipment on a bed, sofa, rug, or other similar surface. The equipment should never be placed near or over a radiator or heat register. Equipment should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided.
8. **POWER SOURCES** - Equipment should be connected only to the type of power rating indicated on the label. If you are not sure of the type of power supplied to your home, consult your equipment dealer or local power company. For equipment designed to operate from battery power refer to the operating instructions.
9. **GROUNDING OR POLARIZATION** - This equipment may be equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug into the outlet contact your electrician to replace the obsolete outlet. Do not defeat the safety purpose of the polarized plug.

This equipment may be equipped with a three wire grounding plug (a plug having a third grounding pin). This plug will only fit into a grounded power outlet. This is a safety feature. If you are unable to insert the plug into the outlet contact your electrician to replace the obsolete outlet. Do not defeat the safety purpose of the plug.
10. **POWER CORDS** - Do not allow anything to rest on the power cord. Do not place the equipment where the cord will be damaged or otherwise compromised by persons walking on it.
11. **OBSERVE WARNINGS** - Follow all instructions marked on the equipment.
12. **LIGHTNING** - For added protection of equipment during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect any cables attached to it. This will prevent damage to the equipment due to lightning and power-line surges.
13. **OVERLOADING** - Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.
14. **OBJECT AND LIQUID ENTRY** - Never push objects of any kind into this equipment through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on this equipment.
15. **SERVICING** - Do not attempt to service video monitor or equipment yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
16. **OPERATION** - Adjust only those controls that are covered in the operating instructions. Improper adjustment of other controls may result in damage or void the manufacturer's warranty.
17. **DAMAGE REQUIRING SERVICE** - Unplug equipment and refer servicing to qualified service personnel under the following conditions:
 - A. When the power cord or plug has been damaged.
 - B. If an object has fallen or been inserted into any part of the equipment.
 - C. If the equipment has been exposed to liquid of any kind through spillage or any other means such as exposure to the elements, submersion, or condensation.
 - D. If the video product does not operate normally by following the operating instructions.
 - E. When the video product exhibits a distinct change in performance compared to normal operation.
18. **REPLACEMENT PARTS** - When replacement parts are required ensure the service technician uses replacement parts specified by the manufacturer or that they have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or void of warranty.
19. **SAFETY CHECK** - Upon completion of any service or repairs to this equipment, ask the service technician to perform safety checks to determine that the equipment is in proper operating condition.
20. **FIELD INSTALLATION** - This installation should be made by a qualified service person and should conform to all local codes.



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INTRODUCTION

Package Contents

Optix PTZ Controller	1
Junction Box	1
Serial Cable	1
RJ45 Cable	2
Instruction Manual	1

Features

The OpenEye Optix PTZ Controller is an important building block for any surveillance/security system. Extensive and flexible architecture across the OpenEye Optix product line facilitates remote control functionality for a variety of external switching devices such as multiplexers and DVRs. Using multiple controllers connected to PTZ dome cameras, no facility is too large for monitoring.

Standalone Unit

- Built in 3 Axis Joystick
- Built in Pan/Tilt, zoom In/Out Controls
- Focus Near/Far, IRIS Open/Close
- Auto Focus Available
- Main Menu Set Up Available
- Preset, Auto Scan, Tour and Pattern Control
- RS-485 or RS-422 Operation
- Easy Wiring Connection and Operation
- Quick Preset Set Up and Recall
- Slave Controller Expandable

Connected to DVR

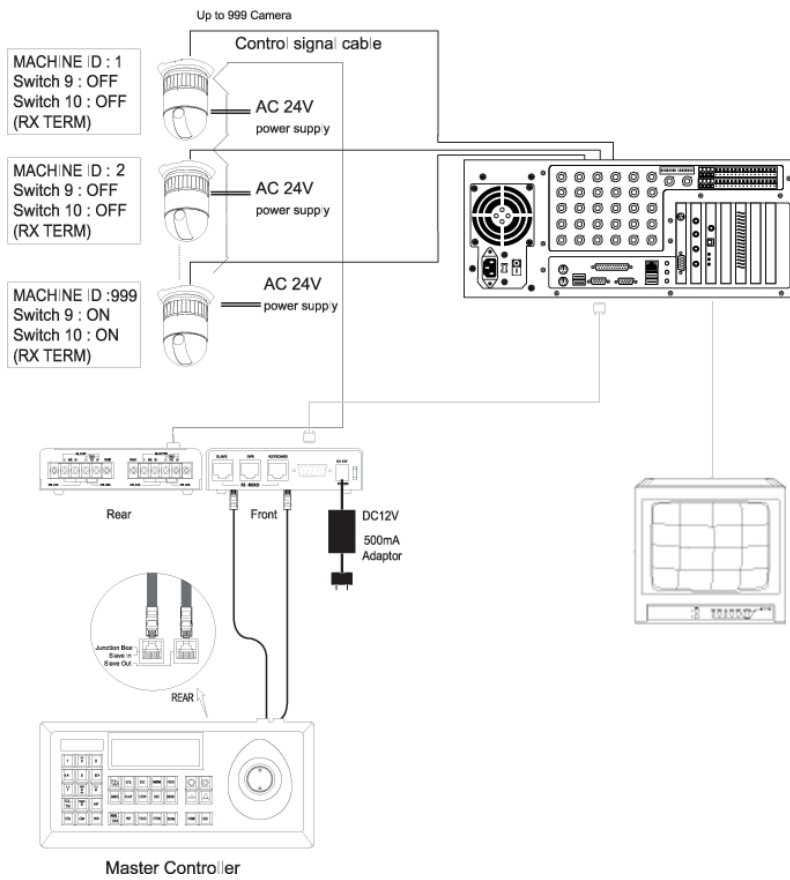
- Function Keys to control DVR.
- Image Sequence /Multi Screen /Freeze /ESC/Menu Buttons.
- Control REC, STOP, Reverse Playback, and Play
- Multi Camera Control Available (Max 999, 4095 Optional)
- Direct connection from Junction Box for easy wiring
- Slave Controller Expandable



INSTALLATION AND CONFIGURATION

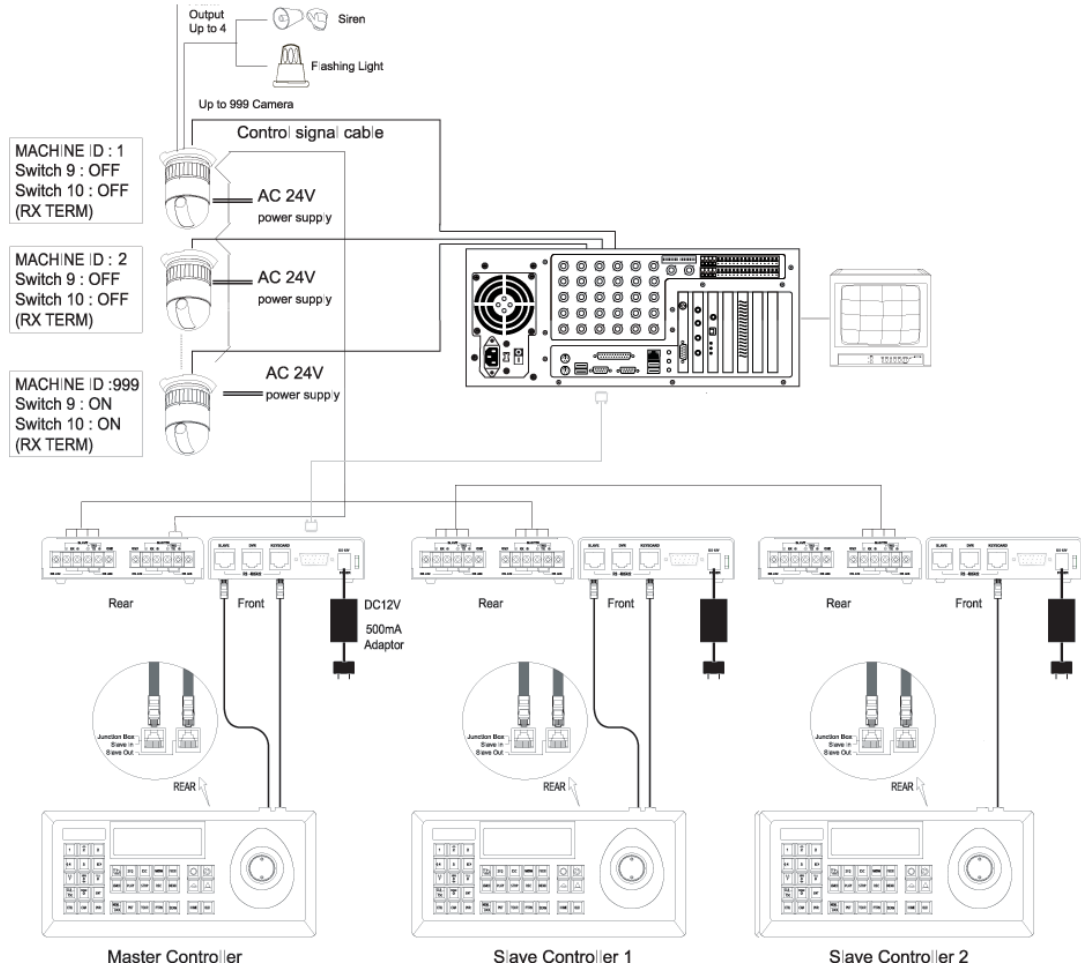
General Configuration

Basic Installation Diagram



INSTALLATION AND CONFIGURATION

Advanced Installation Diagram



INSTALLATION AND CONFIGURATION

Starting a PTZ Controller for the first time

To start a PTZ Controller for the first time:

Note: Do not turn on the controller power until all connected domes have initialized (at least 30 seconds).

1. First connect the supplied **RJ-45** cable from the **Keyboard port** of the junction box to the **Junction Box port** on the Keyboard controller.
2. Connect the supplied power cable to the Junction Box, the Controller will now begin to boot.
3. When prompted for a password enter **8 8 8 8** and press **ENT**.
Exact Command: (8-8-8-8-ENT)

```
INPUT PASSWORD
INPUT?:
```

4. If this is the Master PTZ Controller press **1** and **ENT** for master if only one controller is connected.
Note: If more than one controller is connected, place all additional controllers in slave mode.
Exact Command: (2 -ENT)

```
CONFIG  ENT:SKIP
MASTER:1  SLAVE:2
```

5. The PTZ Controller is now ready for addition configuration or use.

Adding a camera to the PTZ Controller

To add a camera to the PTZ Controller:

1. From the Main Screen press **5** three times followed by **GLB** to enter the camera setup menu.
Exact Command: (5-5-5-GLB)

```
DVR:001  CAM:001
INPUT?:
```

2. Enter the address of the camera you are adding and press **ENT**.
Exact Command: ([Camera Address] - ENT)

```
SELECT CAM ADDR
INPUT?:
```

3. Select the type of camera you are adding by using the joystick and press **ENT**.
Exact Command: ([Protocol] - ENT)

```
KIND OF CAM?      ↑↓
1. Optix I
```

4. Select the Baud Rate of the camera you are adding by using the joystick and press **ENT**.
Exact Command: (9600 - ENT)

```
BAUD RATE      ↑↓
3. 9600 BPS
```


INSTALLATION AND CONFIGURATION

Device Setup

Single PTZ Controller Setup Without a Connected DVR

To set up a PTZ Controller as a Master Controller:

1. Connect the supplied RJ-45 cable from the **Keyboard port** on the junction box to the **Junction Box port** on the PTZ Controller.
2. Connect the camera's RS-422 or RS-485 connections to the **MASTER TRX +/-** screw-terminal connector..
3. The last camera on each run of cable must be terminated. Consult the manual which shipped with your camera.
4. Proceed to *Starting the PTZ Controller for the first time* at the beginning of this chapter.

Connecting Multiple PTZ Controllers

NOTE: Only the first PTZ Controller connected to the system may act as a Master control all Cameras must be connected to this first Controller and all subsequent PTZ Controllers must be connected as slaves.

To connect an additional PTZ Controllers:

1. Using the supplied RJ-45 cables connect the **Junction Box port** on the **Slave** PTZ Controller to the **Slave Port** on the Master PTZ Controller..
2. Proceed to *Starting the PTZ Controller for the first time* at the beginning of this chapter..

Connecting an OpenEye DVR to the PTZ Controller

To connect a PTZ Controller to an OpenEye DVR:

1. Connect the RS-232 Jack on the Junction Box to the COM 1 Port on the OpenEye DVR using the provided Serial Cable.
2. Connect the TX +/- camera connections on the RS-485 output on the back of the DVR. Please refer to the DVR manual for further assistance on connecting a PTZ camera to the DVR.
3. Click **Setup** in the main menu of the OpenEye DVR software and click the Network Communications.
4. Ensure that **Use Controller Keyboard** is checked and click **Setup Keyboard Control**.
5. Set the **DVR ID** in the Setup Keyboard Control Menu.
Exact Command: 001 <From the drop down list>
6. Click **OK** to save and close the Setup Keyboard Control Menu.
7. Click **OK** to save and close the Network Menu.
8. Click **Apply** then OK in the Main Setup Menu.
9. Proceed to *Starting the PTZ Controller for the first time* at the beginning of this chapter.

INSTALLATION AND CONFIGURATION

Connecting an OpenEye Optix Matrix Switch to the PTZ Controller

To connect a PTZ Controller to an Optix Matrix Switch:

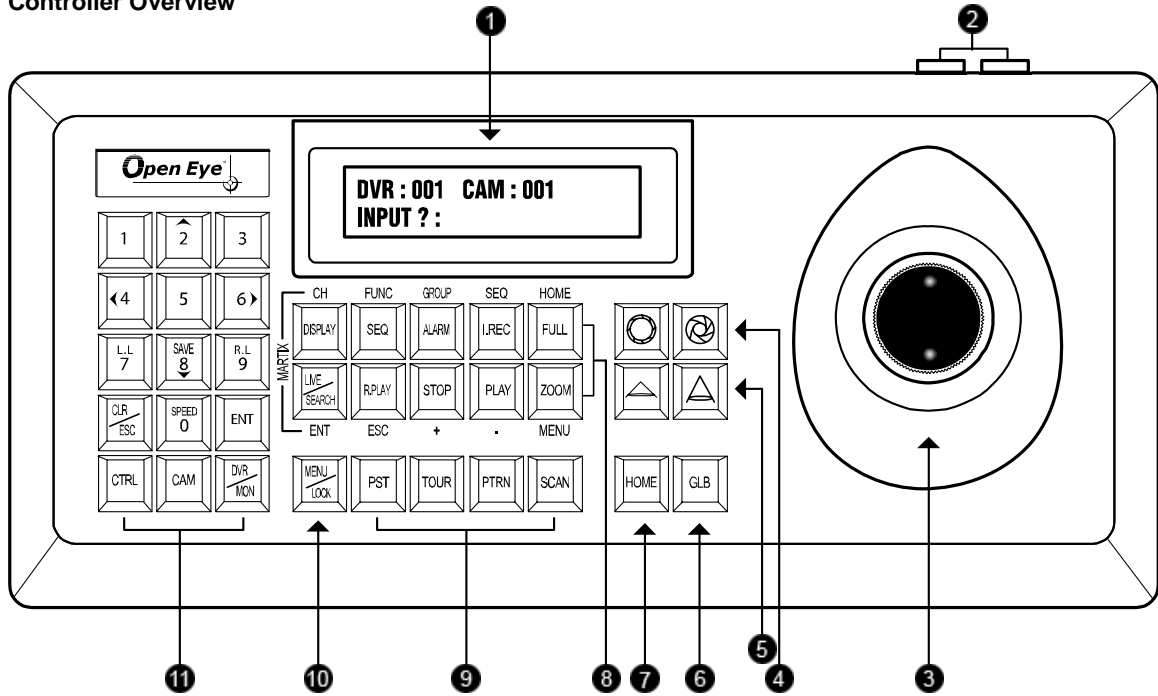
1. Using the supplied RJ-45 cable connect the **Junction Box port** on the PTZ Controller to the **Local Keyboard Port** on the Matrix Switch.
2. Connect the RS-485 TRX +/- to the back of the Matrix.
3. Proceed to *Starting the PTZ Controller for the first time* at the beginning of this chapter.



OPERATION

General Operation

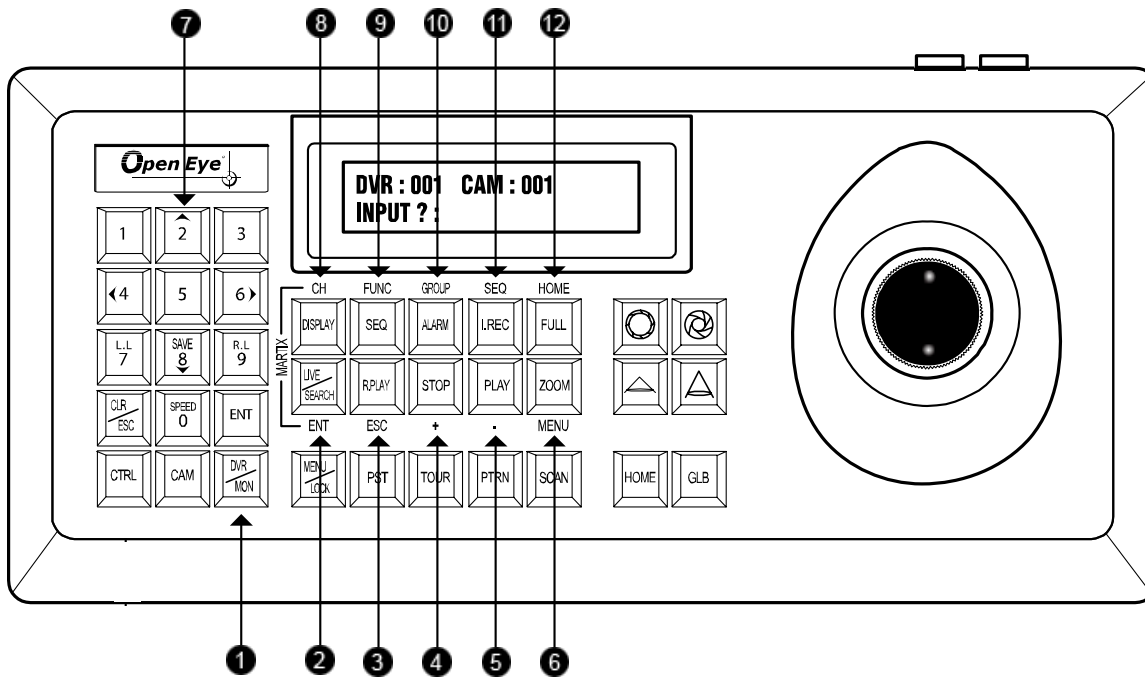
Controller Overview



1. **LCD Display:** Displays current Controller function status and operating instructions.
2. **RJ-45 Jacks:** Connects to the supplied Junction Box or a Matrix Switch.
3. **Joystick:** The 3-Axis joystick is used for menu navigation and camera control.
4. **Iris Control Buttons:** Controls the iris on connected PTZ cameras supporting this feature.
5. **Focus Control Buttons:** Controls the focus on connected PTZ cameras supporting this feature.
6. **GLB:** Sends global commands to either the Optix Cameras or the Optix Matrix. (Note: this is a multifunction button)
7. **HOME:** Press to move to the desired set home position.
8. **DVR/MATRIX Control Buttons:** Switches modes from either connected DVR or Matrix Switch.
9. **PRESET/TOUR/PATTERN/AUTO SCAN Buttons:** Controls the **Preset**, **Tour**, **Pattern**, and **Scan** functions of connected cameras.
10. **MENU/LOCK Button:** Displays the camera menu or locks the PTZ Controller
11. **Numeric Control and Function Buttons:** Controls camera functions, preset shortcuts, and device selection/configuration.

OPERATION

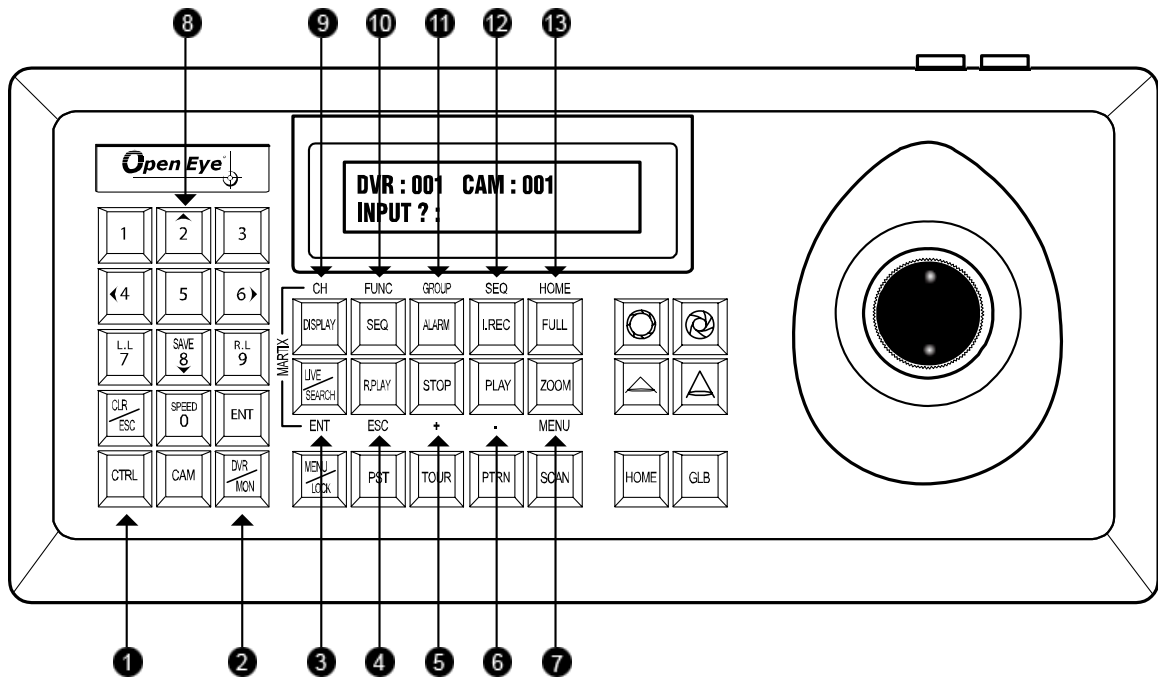
DVR Operations



1. **DVR/MON:** Toggles between DVR and Matrix control.
2. **LIVE/SEARCH:** Toggles between the Live and Search screens.
3. **R.PLAY:** Plays video backwards from the currently selected time when in the Search Screen.
Exact Command: (Camera# + FULL + R.PLAY)
4. **STOP:** Stops video playback in the Search Screen.
5. **PLAY:** Begin video playback in the Search Screen.
Exact Command: (Camera# + FULL + PLAY)
6. **ZOOM:** Increases the size of the video display in the Search Screen.
Exact Command: (Zoom Value# + ZOOM)
7. **Numeric Key Buttons:** Controls DVR functions, preset shortcuts, and selection/configuration.
8. **DISPLAY:** Cycles through the split screen views in the Live Screen.
9. **SEQ:** Activates the sequencing of cameras in the Live Screen.
10. **ALARM:** Activates/Deactivates a control output on the DVR.
Exact Command: (Activate/Deactivate(Control Output# + ALARM))
11. **I.REC:** Begins recording selected camera.
Exact Command: (Activate/Deactivate(Camera# + I.REC))
12. **FULL:** Displays a single selected camera in the Live Screen.
Exact Command: (Camera# + FULL)

OPERATION

Matrix Operations



1. **CTRL:** Hold CTRL and press the arrowed number keys to move the cursor on screen.
Exact Command: Press and hold CTRL and press either 2,4,6, or 8.
2. **DVR/MON:** Toggles between DVR and Matrix control.
3. **ENT:** Save and Exit / Go to next menu.
4. **ESC:** Exit without saving / Go to previous menu.
5. **+** : Change value.
6. **-** : Change value.
7. **MENU:** Turn On/Off the Camera System Menu.

NOTE: To access the menu on the Matrix, change to Matrix Control (press **DVR,/MON**) then use the **ZOOM/MENU** key.

8. **Numeric Key Buttons:** Controls DVR functions, preset shortcuts, and selection/configuration.
9. **CH:** Channel Selection.
10. **FUNC:** Various command functions (see appendix A).
11. **GROUP:** Page up function in menu / Group Function in Normal Mode
12. **SEQ:** Page down in menu / Sequence Function in Normal Mode.
13. **HOME:** Sends the selected camera to the home position.

OPERATION

Changing the password

To change the current password:

1. From the Main Screen press **GLB**.
Exact Command: (GLB)

```
DVR:001 CAM:001
INPUT?:
```

2. Enter the new password and press **ENT**.
Exact Command: ((new password) - GBL)

```
CHANGE PASSWORD
INPUT?:
```

3. Enter the new password again to confirm and press **ENT**.
Exact Command: (ENT)

```
CONFIRM PASSWORD
INPUT?:
```

Resetting the password

To reset the password to its default setting:

1. From the Main Screen press and hold **CLR/ESC**, **ENT**, and **HOME** then release
Exact Command: (CLR/ESC+ENT+HOME)

```
DVR:001 CAM:001
INPUT?:
```

2. Select **1** to reset the password to factory default or **2** to leave it unchanged then press **ENT**.
Exact Command: (1-ENT)

```
INIT. PASSWORD?
1: YES 2: NO
```

Note: You must reset the password AFTER logging in correctly. If you have lost the password to the PTZ controller you must call Technical Support.

OPERATION

Locking the PTZ Controller

This will lock out unauthorized use of the PTZ Controller.

To lock the PTZ Controller:

1. From the Main Screen press and hold **CTRL** and **MENU/LOCK**.
*Exact Command: **(CTRL+MENU/LOCK)***

DVR:001 CAM:001
INPUT?:

2. Enter the correct password and press **ENT** to lock the unit.
*Exact Command: **((new password) -ENT)***

LOCK SETTING?
INPUT?:

3. To unlock the unit and return to the Main Screen enter the correct password and press **ENT**.

LOCK MODE
INPUT?:

Selecting a DVR or Camera

To select a DVR or Camera:

1. From the Main Screen enter the DVR or Camera ID using the number keys.
2. Press the CAM button to select camera or the DVR/MON button to select a DVR.

Selecting a Matrix

To select a Matrix:

1. From the Main Screen Press the DVR/Mon button to enter the Monitor Mode.
2. Enter the Matrix ID using the number keys and press DVR/MON

OPERATION

Advanced Operations

Searching a specific time on an OpenEye DVR

To search a specific time on a DVR:

1. Press **LIVE/SEARCH** to toggle to the Search Screen on the DVR.
2. Press and hold **CTRL+LIVE/SEARCH** to open the Search Time Selection Dialog.
3. Press **CTRL+ [UP/DOWN/LEFT/RIGHT ARROWS]** to select the date.
4. Press **CTRL+CLR/ESC** to tab down.
5. Press **CTRL+ [UP/DOWN/LEFT/RIGHT ARROWS]** to select a time to search.
6. Press **CTRL+CLR/ESC** to tab down and select **OK**
7. Press **CTRL+ENT** to complete.
8. Press the **camera# + FULL + Play** to begin playback.

Activating a Tour, Pattern, or Preset

To activate a Tour, Pattern, or Preset:

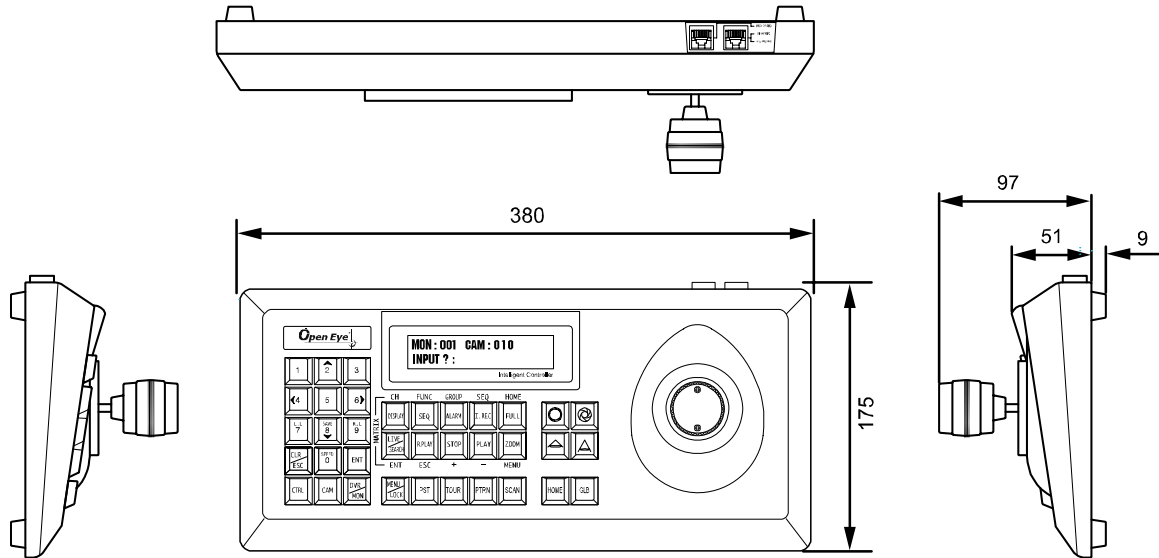
1. Enter the Tour, Pattern or Preset ID number using the **Numeric Key Buttons**.
2. Press the Tour(**TOUR**), Pattern(**PTRN**), or Preset(**PST**) button.

TECHNICAL SPECIFICATIONS

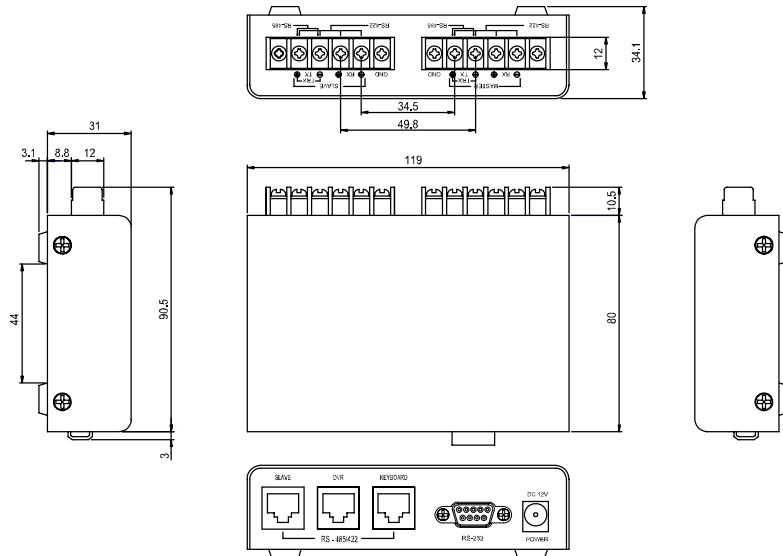
Dimensions

Joystick Controller

All measurements are in millimeters



Junction Box





APPENDIX A

Global Short Cut Keys

When using Optix Dome Cameras in conjunction with the Optix PTZ Controller you may use the following Global Short Cut Keys for ease of operation without accessing the setup menu of the camera (Global mode must be enabled on the Optix Camera. Works with Optix protocol only).

Enter the numerical value from the Main Screen on the PTZ Controller and press MENU.

Camera Functions

Key	Function	On/Off	Display
11 12	Privacy Zone	Off On	
12 14	Over Tilt	Off On	
20 21 22	Day / Night	Auto Off On	
23 24	Digital Zoom	Off On	
25 26	Back Light	Off On	
27 28 29	WB (White Balance)	ATW Indoor Outdoor	
31 32	Flickerless	Off On	
33 34	Auto Focus	Auto Manual	

Display Functions

Key	Function	On/Off	Display
71 72	All Display	Off On	
73	Zoom Magnitude	On / Off	Toggle
74	Dome ID	On / Off	Toggle
75	Dome Mode	On / Off	Toggle

Dome Operation Functions

Key	Function	On/Off	Display
81 82	Flip	Off On	

Matrix Functions

Key	Function	On/Off	Display
71 72	All Display	Off On	
73	MON/CHAN number display	On / Off	Toggle
74	Channel Title Display	On / Off	Toggle
75	Group Title Display	On / Off	Toggle
233	Reset System		



APPENDIX B

Trouble Shooting

If problems occur, verify the installation of the camera with the instructions in this manual and with other operating equipment. Isolate the problem to the specific pieces of equipment in the system and refer to the equipment manual for further instructions.

Problem	Possible Solution
I forgot my password	<ul style="list-style-type: none">A. In Normal Mode press and hold CLR/ESC, HOME, and GLB to reset the password to 8888B. In Lock Mode press and hold CTRL, HOME, and GLB to reset the password to 8888C. Press and hold 5 and DVR then cycle the power on the PTZ Controller. Upon restarting the password will be reset to 8888
The camera is not working	<ul style="list-style-type: none">A. Check the ID, Protocol, Baud Rate and Address of the camera then re-enter them into the PTZ ControllerB. Check the connections and cabling between the camera to the PTZ Controller
The controller is not working	<ul style="list-style-type: none">A. Check the power cable and connection to the Junction BoxB. Check the RJ45 cable and connections from the Junction box to the PTZ ControllerC. Confirm the PTZ Controller is not in Lock Mode



PRODUCT SERVICE

OpenEye website: <http://www.openeye.net>

Call 1-888-542-1103 for questions or comments regarding your OpenEye Optix Products or Accessories

SHIPPING YOUR OPTIX PRODUCT

Make sure to carefully package your OpenEye Optix Product or Accessory when shipping, preferably in the original packaging. Send the unit to an authorized dealer / service center, prepaid and adequately insured. Do not send the unit to the OpenEye headquarters address listed below.

OpenEye Inc.
165 S. Pine St.
Spokane, WA 99202

1-888-542-1103

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