

TeleEye Pro

Camera Control Unit

User Guide

SiCOM

Notice:

Signal Communications Limited reserves the right to make improvements to the products described in this manual at any time and without notice.

This manual is copyrighted. All rights are reserved. This manual may not be copied, reproduced or translated in whole or part without prior consent from **Signal Communications Limited**.

Third party trademarks are the properties of their respective holders.

Copyright (c) 1995-98 **Signal Communications Limited**.
All rights reserved.

Version 1.7a

Limits of Liability and Disclaimer of Warranty

Signal Communications Limited has taken care in preparation of this manual, but makes no expressed or implied warranty of any kind and assume no responsibility for errors or omissions. No liability is assumed for incidental or consequential damages in connection with or arising out of the use of the information or programs contained herein.

FCC Statement on Class B

WARNING

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determine by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- **Reorient or relocate the receiving antenna.**
- **Increase the separation between the equipment and receiver.**
- **Connect the equipment into an outlet on a circuit different from that to which the receiver is needed.**
- **Consult the dealer or an experienced radio/TV technician for help.**

Shielded cables must be used with this unit to ensure compliance with the Class B FCC limits.

Installation and location hints

1. Do not install the *Camera Control Unit* in a location near heat sources, such as radiators or air-ducts, or in place subject to direct sunlight.
2. To prevent overheating, never cover the unit with cloth and never install in ill-ventilated and narrow place.
3. Do not expose the unit to rain or place in an excessive moisture or dust environment. Do take immediate action if ever the unit do become wet. Turn off and refer servicing to qualified service personnel. Moisture can damage the unit and also create the danger of electric shock.
4. To prevent electric shock, do not remove screws or cover. There is no user-serviceable part inside.
5. Do not operate the unit beyond its temperature, humidity or power ratings.
6. Make sure before install those pan/tilt head, camera housing or lens if they are usable.
7. Every necessary procedure with regard to install this product should be made by qualified service personnel or system installers.



WARNING:

TO PREVENT FIRE OR ELECTRIC SHOCK HAZARD, DO NOT
EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE

Table of Contents

Section 1 INTRODUCTION

Features	1
Standard packages	1

Section 2 INSTALLING *Camera Control Unit*

What you need	2
Front panel and rear panel	2
Hardware installation	3
System diagram	4
Wiring diagrams	5
Connection for external devices	6
Device ID setting	7

Section 3 INSTALLING *Camera Control Software*

Software installation	8
Start execution	8

Section 4 SPECIFICATIONS 9

SECTION 1

INTRODUCTION

Camera Control Unit provides remote and local control of the camera system. One, may, through the *TeleEye Pro camera control Software*, controls the remote site camera to pan left/right, tilt up/down, zoom in/out, adjusts focus and aperture, and switches on/off washer and wiper of the camera house.

Features

- ♦ Manual controls :
 - Pan/Tilt head : Pan, Auto pan, Tilt
 - Zoom lens : Zoom, Focus, Aperture
 - Camera house : Washer and Wiper.
- ♦ Remote controls :
 - Pan/Tilt head : Pan, Auto pan, Tilt
 - Zoom lens : Zoom, Focus, Aperture
 - Camera house : Washer and Wiper.
- ♦ “Power On” indication and “Auto Pan” indication.

Standard Packages

- | | |
|--|------|
| ♦ <i>Camera Control Unit</i> | 1 pc |
| ♦ AC-DC adapter (output 9V 1000mA) | 1 pc |
| ♦ Shielded cable DB9female to DB9male | 1 pc |
| ♦ 6pins plug for Pan/tilt Control | 1 pc |
| ♦ 4pins plug for Environmental Control | 1 pc |
| ♦ 5pins plug for Lens Outputs | 1 pc |

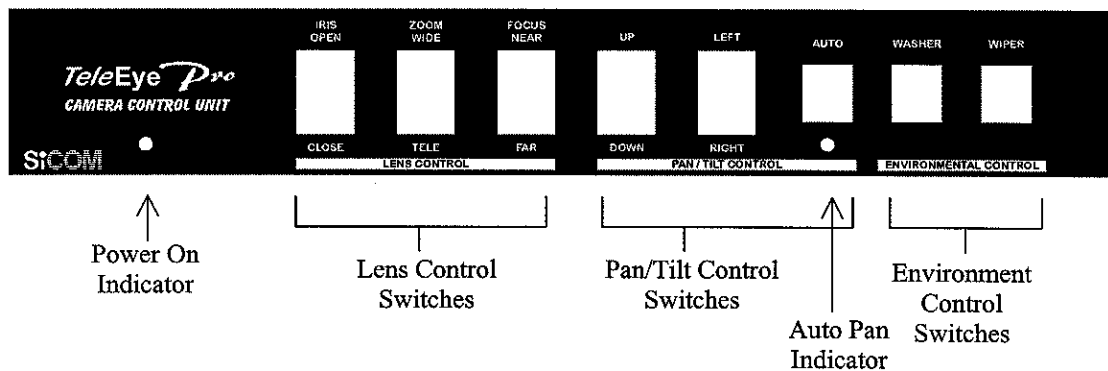
SECTION 2

INSTALLING REMOTE PTZ UNIT

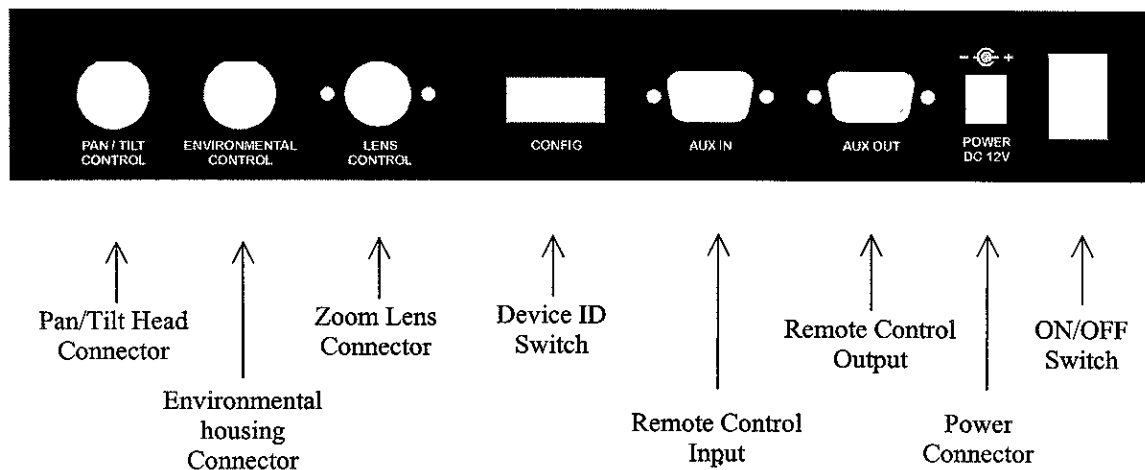
What you need

- ♦ IBM compatible PC.
- ♦ **Camera Control Unit.**
- ♦ DB9female to DB9male shielded cable.
- ♦ AC-DC adapter : DC9V 1A.
- ♦ 24VAC Pan/tilt head with power supply. (optional)
- ♦ Zoom lens. (optional)
- ♦ 24VAC Camera house with power supply. (optional)

Front Panel



Rear Panel



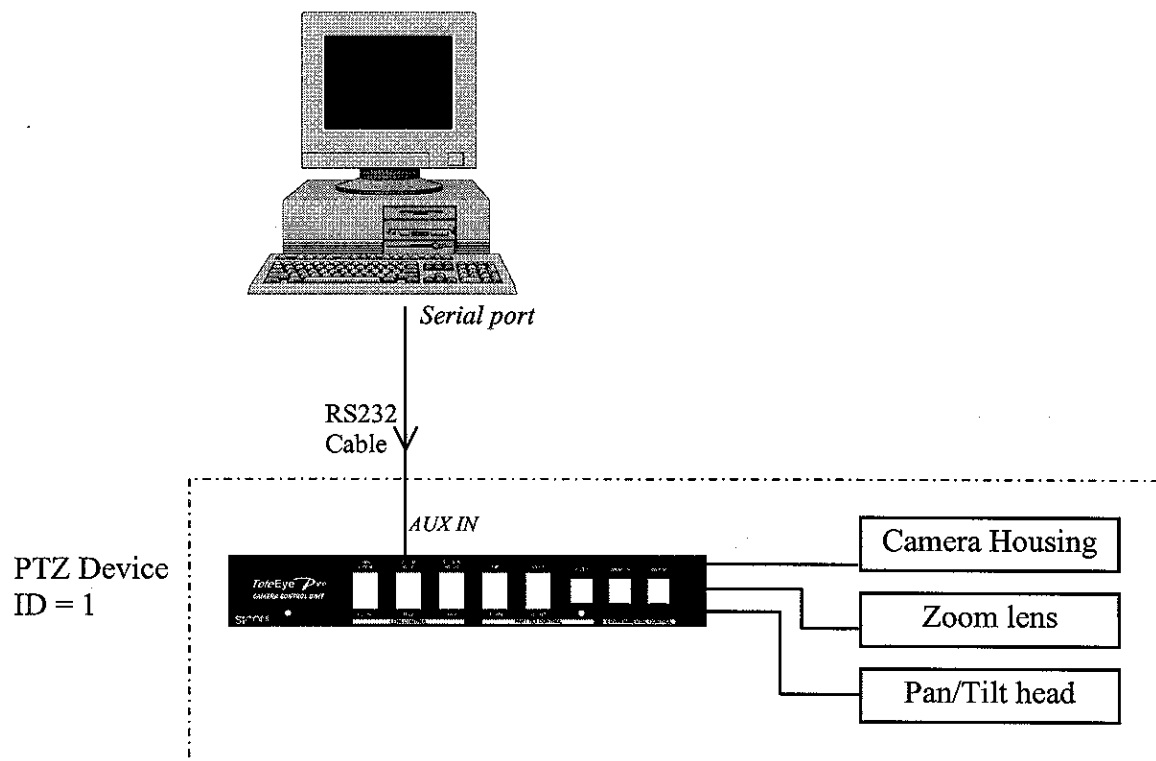
Hardware Installation

Setup Procedures:

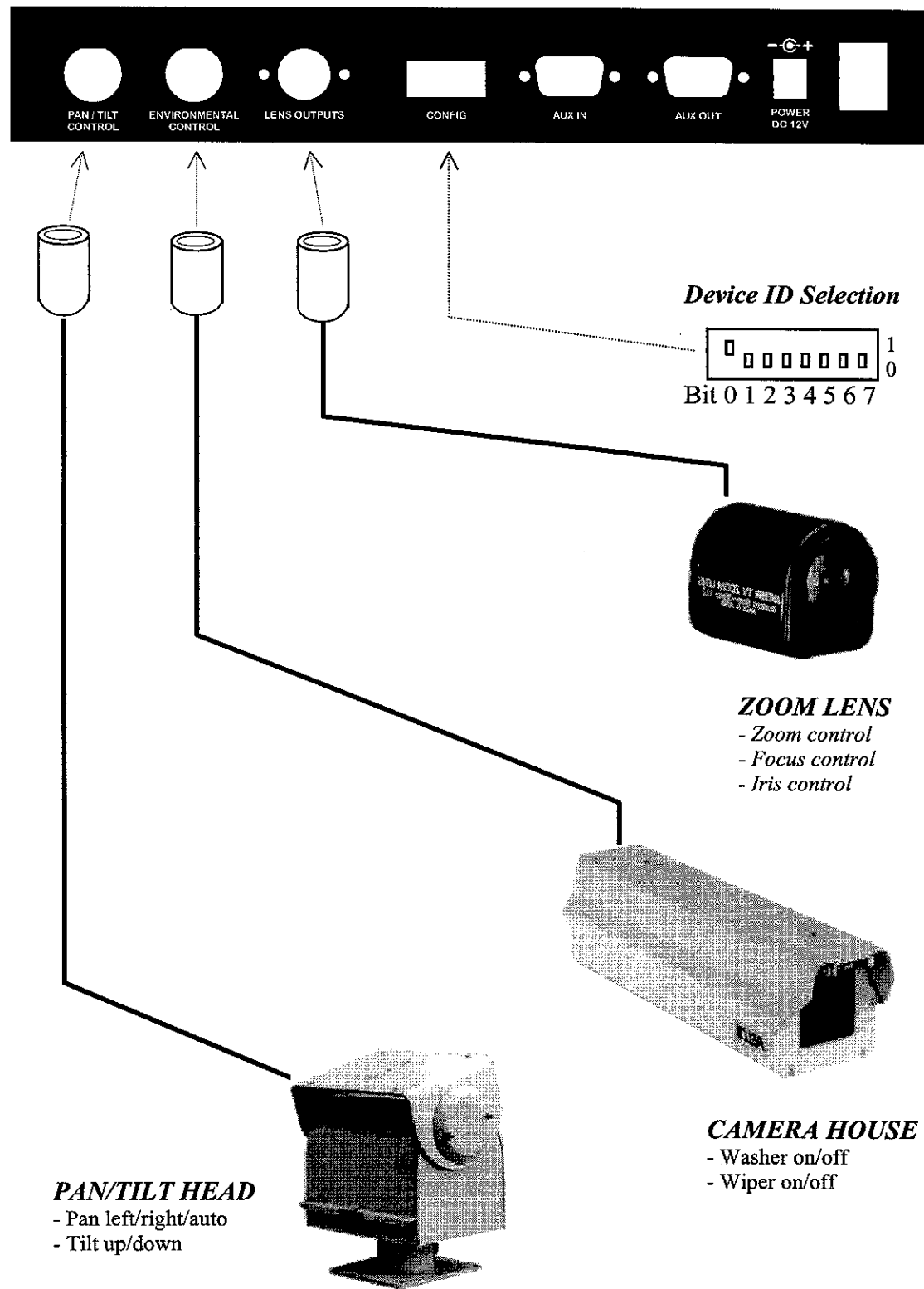
- Step 1: Connect one end of a RS232 cable to the computer. Afterward, plug the other end of the cable into the AUX port on the back of the *Camera Control Unit*. Tighten the retaining screws to ensure proper connection.
- Step 2: Connect the zoom lens, camera house, pan tilt head to the 5-pin DIN plug, 4-pin metal plug and 6-pin metal plug respectively. Please refer to page 6.
- Step 3: Adjust the 'CONFIG' switch on the rear panel of the *Camera Control Unit*. Please refer to page 7. Factory default setting is ID=1.
- Step 4: Plug the round end of the AC adaptor into the socket marked 'POWER' on the rear panel of the unit. (The *Camera Control Unit* support 9VDC to 12VDC supply voltage)
- Step 5: Power on the Camera Control Unit, computer, and plug the pan tilt head, housing's transformers to the main socket. The power indicator of Camera Control Unit should light up.

System diagram

This is the system diagram of a *PC* and the *Camera control unit*.



Wiring diagram

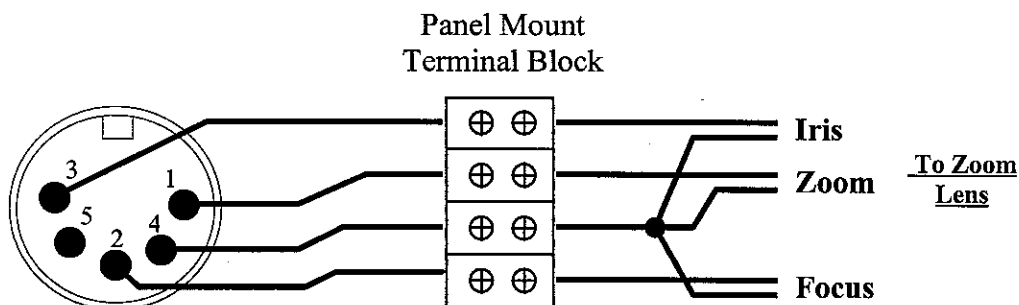


Connection for external devices

This is an example of the connections between *Camera Control Unit* and external devices. Different brand name and model may be different. Please refer to the instruction manuals of the external devices for exact connections.

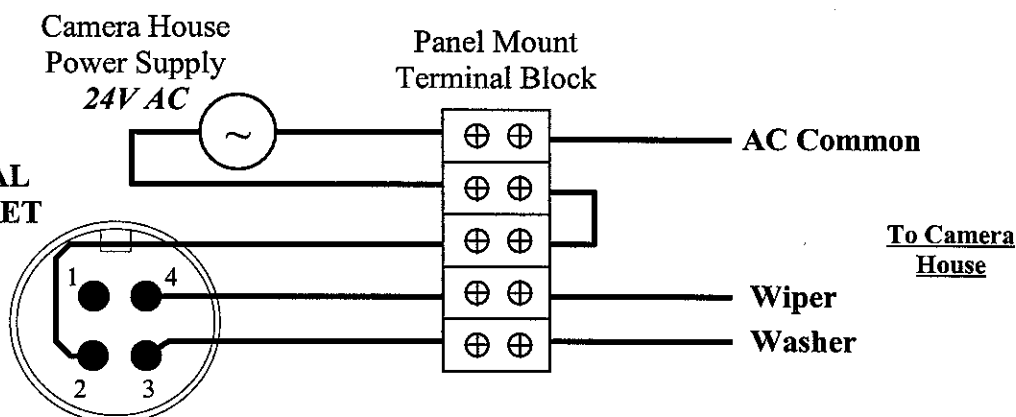
LENS OUTPUT SOCKET 6.5Vdc $\pm$ 10%

- 1 ZOOM OUTPUT
- 2 FOCUS OUTPUT
- 3 IRIS OUTPUT
- 4 DC COMMON
- 5 N.C.



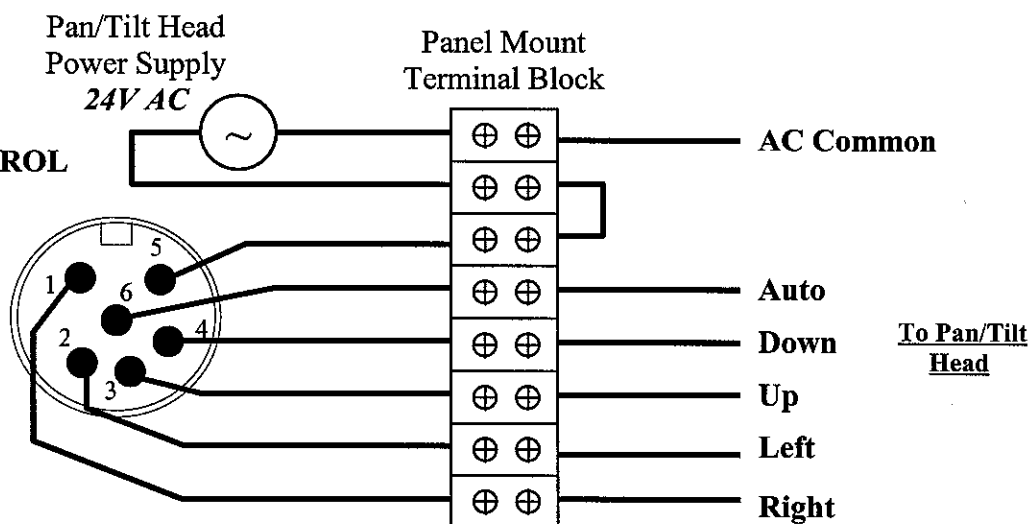
ENVIRONMENTAL CONTROL SOCKET

- 1 N.C.
- 2 AC COMMON
- 3 WASHER
- 4 WIPER



PAN/TILT CONTROL SOCKET

- 1 PAN RIGHT
- 2 PAN LEFT
- 3 TILT UP
- 4 TILT DOWN
- 5 AC COMMON
- 6 AUTO

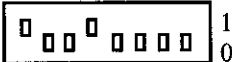
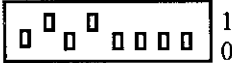
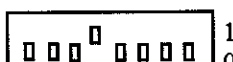
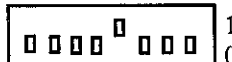


CAUTION :

1. Do Not Supply Voltage To Lens Outputs Socket.
2. Environmental Control and Pan/Tilt Control are Dry Contact Switches
Switch Rating : 24Vac, 10A

Device ID setting

The ID number of the *Camera Control Unit* should be set such that the correct camera could be controlled. The factory default setting is ID = 1.

Cam 1 : ID = 1		Cam 9 : ID = 9	
Cam 2 : ID = 2		Cam 10 : ID = 10	
Cam 3 : ID = 3		Cam 11 : ID = 11	
Cam 4 : ID = 4		Cam 12 : ID = 12	
Cam 5 : ID = 5		Cam 13 : ID = 13	
Cam 6 : ID = 6		Cam 14 : ID = 14	
Cam 7 : ID = 7		Cam 15 : ID = 15	
Cam 8 : ID = 8		Cam 16 : ID = 16	

SECTION 3

SOFTWARE INSTALLATION

Software Installation

Create a subdirectory called *TeleEye* and copy all the files on the floppy disk of the *SiCOM TeleEye Pro Camera Control Software* to the harddisk. You may also execute the main program from the floppy disk.

Start Execution

To start the *Camera Control Software*, run the "PTZControl.EXE" from the floppy disk or type at the DOS prompt:

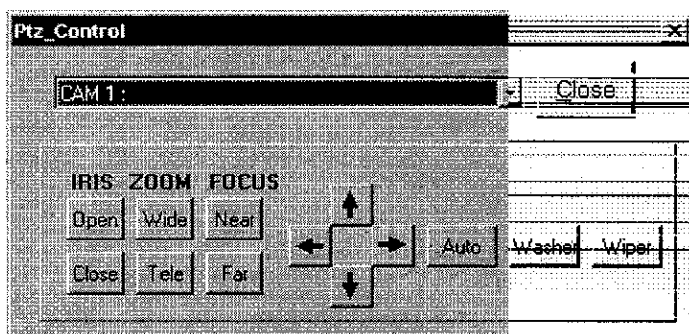
```
C:>cd\teleeye ↵
```

```
C:\TELEEEYE>PTZControl ↵
```

The application program is shown below. COM1 is the default communication port of the program. If you want to change the port, you may change it from the Event Window.

You may now control the Camera Control Unit by clicking on the buttons. The corresponding functions of the camera Control Unit will be activated.

To exit the *Camera Control Software*, click on the 'Close' button.



SECTION 4**SPECIFICATIONS**

CONTROLS	
Type of control	PANEL CONTROL and REMOTE CONTROL
Pan controls	AUTOMATIC or MANUAL LEFT/RIGHT
Tilt control	UP/DOWN selectable
Focus	NEAR/FAR selectable
Zoom	WIDE/TELE selectable
Iris	OPEN/CLOSE selectable
Environmental controls	Push on WASHER/WIPPER
CONNECTIONS	
Input voltage	9V DC 1A nominal
Lens output voltage	6.5V DC $\pm 10\%$, 200mA
Environmental control switches	Dry contact 24Vac, 10A
Pan/Tilt control switches	Dry contact 24Vac, 10A
Auto control switches	Dry contact 24Vac, 10A
Output connector	DIN 4-pin, 5-pin and 6-pin
Maximum length of AUX cable	50 ft
MECHANICAL DESIGN	
Construction	Metal case
Colour	Black finish
Dimension	254(W) $\times$ 39(H) $\times$ 183(D) mm
Net weight	1.4 kg
ENVIRONMENT CONDITION	
Ambient operating temperature	+10 ~ +50 ° Celsius
Ambient operating humidity	90% relative humidity, non-condensing