

SIR42-365AI SIR42-365AIP

Operational Manual

42 IR Day & Night Weatherproof Color Camera with Mechanical IR Cut Filter



FEATURES

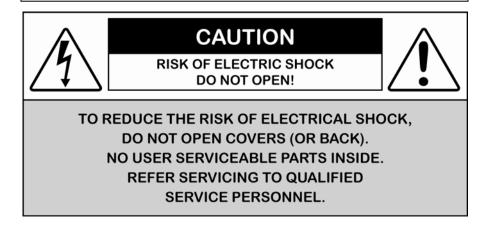
- 1/3" Ex-View CCD
- 650 TV Lines
- 42 IR LED
- 3.7mm~12.0mm Aspherical Auto Iris Vari-Focal Lens
- Mechanical IR Cut Filter ICR
- IR Distance up to 120ft / 40m
 Selectable IR projecting distance design (Hi/Mid/Low)
- 0.3 Lux @ F1.6
- External Function Adjustors
- Cable Management Bracket; IP66 Rating
- IR "on": 320mA (Low) / 420mA (Mid) / 750mA (High) IR "off": 130mA
- 12V DC







Please read the Manual before attempting to use this product.





Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems).

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

CAUTION

1. Never point the camera toward the sun

Do not expose the lens directly to the sun or to strong light as this may damage the pick-up device.

2. Handle this camera with care

Avoid any shock or bumping of the camera. Improper handling could damage the camera.

3. Requires a proper operating environment

This camera is designed for indoor use. The allowable temperature range for operation of this camera is between $-4^{\circ}F \sim 122^{\circ}F / -10^{\circ}C \sim 50^{\circ}C$.

4. Clean the front face or lens

It is recommended that the surface be cleaned every 3~6 months. Cleaning should be done by using a chamois, a very fine soft cloth, lens tissue, or cotton tipped applicator and ethanol to carefully remove any fingerprint or dust.

5. Check the power source voltage

The power source voltage should be within the specified range. (Camera must meet the specifications). Camera must be connected to a surge protector at all times.

6. Objects and liquid entry

Never push objects of any kind into this camera as this may touch dangerous voltage points of short out parts that could result in a fire or electric shock. Never spill any kind of liquid on the video product.

7. Servicing

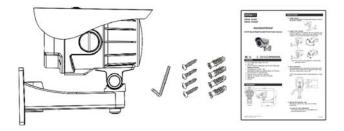
Do not attempt to service this video product by yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all service to qualified servicing personnel.

8. Damage requiring service

Unplug this video product from the wall outlet and refer service to qualified servicing personnel under the following conditions:

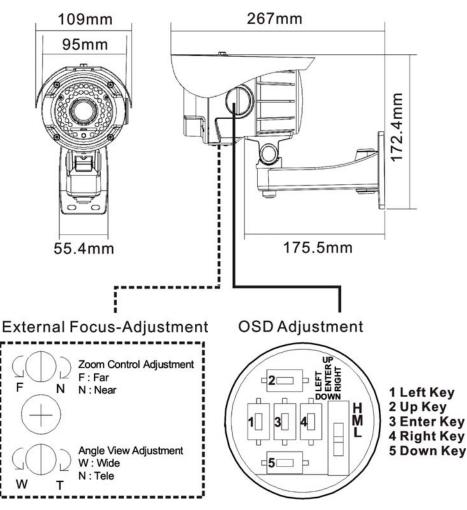
- a. When the power supply cord or plug is damaged.
- b. If liquid has been spilled, or objects have fallen into the video product.
- c. If the video product has been exposed to rain or water.
- d. If the video product has been dropped or the cabinet has been damaged.
- e. When the video product exhibits a distinct change in performance.

PACKAGE CONTENTS



- One (1) SIR42-365AI/SIR42-365AIP Camera with power/video cable and sunshield
- One (1) Allen Wrench
- Four (4) Screws
- Four (4) Wall Anchors
- One (1) Operational Manual
- * For any returns, please include all components listed above with original packaging in <u>Resalable Condition</u>. Absolutely No Returns will be accepted if any component is missing/damaged.

DIMENSIONS & PARTS FUNCTIONS



OSD Button (Menu):

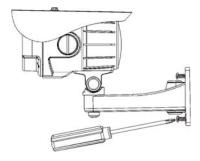
No.	Name	Function
1	LEFT	LEFT
2	UP	UP
3	ENTER	Get in MENU and ENTER
4	RIGHT	RIGHT
5	DOWN	DOWN

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INSTALLATION

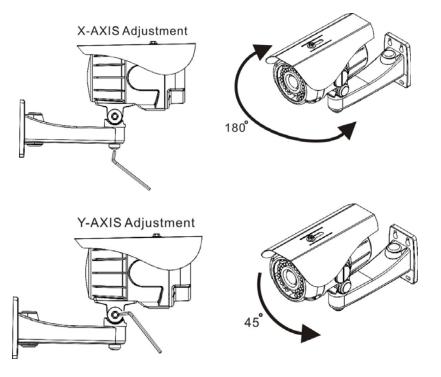
1. Install Camera

Use the supplied screws and secure the camera in position.



2. Adjust 2-Axis Bracket

Adjust the bracket while checking the view angle from the monitor. Loosen the X-Y screws and then adjust the 2-Axis bracket (X-Y Axis) to get the desired viewing angle.

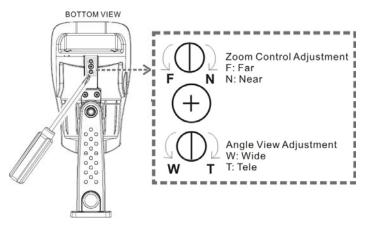


NOTE: This product is not suitable for horizontal 360° continuous rotation.

3. Focus Adjustment

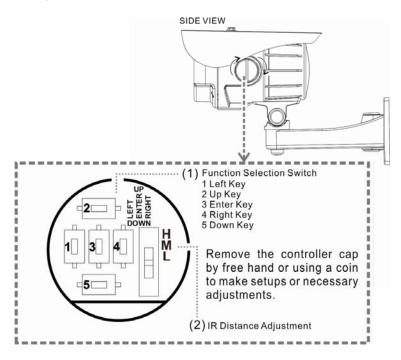
Focus adjustment should be done with zoom focus at the same time. Use the screwdriver to adjust the zoom/ focus ratio (from wide to tele or near to far).

NOTE: Focus adjustment position differs depending on model type.



4. Remove the Controller Cap

With your free hand or a coin remove the controller cap and make adjustments.



(1) Function Switch

- 1 Left Key
- 2 Up Key
- 3 Enter Key
- 4 Right Key
- 5 Down

(2) IR Distance/Power Consumption Adjustment

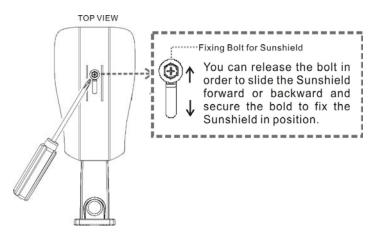
Installer may use IR adjustment function according to installation conditions. It is suggested that the view angle should be checked before setting up the IR distance. Below is the suggested LED brightness and IR distance adjustment table:

LED Brightness	IR Distance	Focal Length	Power Consumption
H (High)	80ft~130ft / 25m~40m	9mm~22mm	750mA
M (Middle)	50ft~80ft / 15m~25m	6mm~12mm	420mA
L (Low)	30ft~50ft / 10m~15m	3.7mm~6mm	320mA

* The suggested LED brightness and IR distance adjustment is for reference only. Please adjust accordingly in regards to the environment the camera is mounted. Use less power if there are reflections.

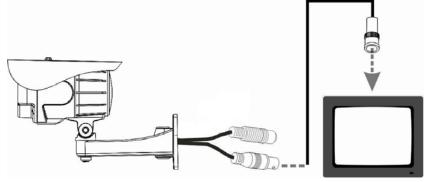
5. Install Sunshield

To install the sunshield, please follow the instruction shown below:

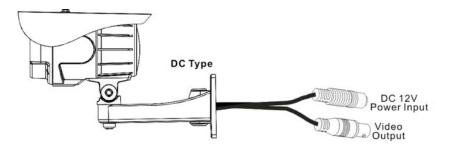


6. Connect to Monitor

Connect the Video-out port of the camera to a monitor. As the connecting method varies depending on the instrument, therefore refer to the manual supplied with the instrument for more information.



7. Connect the Power Connect to a 12V DC, 500mA adaptor.



OPERATION

1. OSD Framework

(A) Main Menu Display

OSD Setup Menu page 1		
LENS		L OTUA
SHUTTER /AG	С	Ļ OTUA
WHITE BAL		ATW
BACKLIGHT		OFF
ATR		OFF
NR		Ļ
PICT ADJUST		ا ب
NEXT		
EXIT	SAVE ALL	

OSD Setup Menu page 2		
PRIVACY		OFF
MOTION DET		OFF
CAMERA ID		OFF
LANGUAGE		ENGLISH
CAMERA RES	ET	
BACK₄I		
EXIT₄J	SAVE ALL	

(B) Main Menu Setup

- In order to display the setup menu on the screen, set the menu command or press the button panel.
- Use UP/ DOWN control buttons to select each item.
- Use LEFT/ RIGHT control buttons to change the data.
- Use MENU control button to ENTER/ EXIT the menu display.

• J=ENTER

2. OSD Main Menu Description

LENS: Manual / Auto Selectable

- LENS: MANUAL
 Not adjustable.
- LENS: AUTO

	TYPE : DC
AUTO	MODE : AUTO/ OPEN /CLOSE
	SPEED : 000~255

- AUTO Camera automatically controls the lens
- OPEN Lens fully open
- CLOSE Lens fully close
- SPEED Lens speed

SHUTTER/AGC: Auto / Manual Selectable • SHUTTER/AGC: AUTO

	HIGH LUMINANCE
	MODE : SHUT+AUTO IRIS / AUTO IRIS / SHUT
	BRIGHTNESS : 000~255
AUTO	LOW LUMINANCE
	MODE : AGC / OFF
	BRIGHTNESS : x0.25 \ x0.50 \ x0.75 \ x1.00

HIGH LUMINANCE

When LENS is setup to AUTO mode

SHUT+AUTO IRIS: Exposure is controlled by auto electronic shutter combined with auto iris.

AUTO IRIS: Exposure controlled by auto iris.

When LENS is setup to Manual mode

SHUT: Exposure controlled by electronic shutter.

LOW LUMINANCE

Setup low lux environment, minimum AGC level.

• SHUTTER/AGC: MANUAL

	MODE : SHUT+AGC
	SHUTTER: 1/60, 1/100, 1/250, 1/500, 1/1000,
MANUAL	1/2000, 1/4000, 1/10000
	AGC : 6.00 \ 12.00 \ 18.00 \ 24.00 \ 30.00 \ 36.00 \
	42.00 \ 44.80

SHUTTER: Fixed electronic shutter speed. AGC: Fixed AGC gain control.

WHITE BALANCE:

ATW / PUSH / USER1 / USER2 / ANTI CR / MANUAL / PUSH LOCK selectable.

• WHITE BAL: ATW

	SPEED : 000~255
ATW	DELAY CNT : 000~255
	ATW FRAME : x0.50 \ x1.00 \ x1.50 \ x2.00
	ENVIRONMENT : INDOOR \ OUTDOOR

 SPEED : ATW Speed

 DELAY CNT :
 ATW Delay Time

 ATW FRAME :
 ATW Frame Range Setup

 ENVIRONMENT :
 ATW Environment Range Setup

• WHITE BAL: PUSH

The function will keep detecting the Color Temperature, and then it will keep saving the parameter to camera.

WHITE BAL: USER1

LISER1	B-GAIN : 000~255	
USERI	R-GAIN : 000~255	

• WHITE BAL: USER2

LISER2	B-GAIN : 000~255
OOLINZ	R-GAIN : 000~255

• WHITE BAL: MANUAL

	MANUAL	LEVEL : 19~54
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• WHITE BAL: ANTI CR

The function can reduce the color rolling issue, and it is the same with CRS (Color Rolling Support) function.

• WHITE BAL: PUSH LOCK

The function will detect the Color Temperature to save into the camera

BACKLIGHT: BLC / HLC / Off Selectable

BACKLIGHT: BLC

Enable the function of Back Light Compensation, and the detection

method is the BLC Smart.

BACKLIGHT: HLC

Enable the function of High Light Compensation.

ATR: On / Off Selectable

ATR: ON

LUMINANCE	LOW 、 MID 、 HIGH	
CONTRAST	$LOW \land MIDLOW \land MID \land MIDHIGH \land HIGH$	

LUMINANCE : Set the extent of the luminance compression CONTRAST : Set the extent of the contrast enhancement.

NOTE: If you enable the ATR funciton, please avoid to enable the BACKLIGHT function in the same time.

NR:

NR MODE	$Y/C \cdot Y \cdot C \cdot OFF$
Y LEVEL	000~015
C LEVEL	000~015

NR MODE: Set the DNR mode of Y/C, Y and C.

Y LEVEL: Set the Y filter strength.

C LEVEL: Set the "C" filter strength.

NOTE: The Y/C mode is the automanic DNR mode.

PICTURE ADJUST

MIRROR	ON / OFF
BRIGHTNESS	000~255
CONTRAST	000~255
SHARPNESS	000~255
HUE	000~255
GAIN	000~255

Adjust all camera parameters here.

NEXT:

Move to MAIN MENU, page 2

EXIT:

Exit OSD to choose the list.

SAVE ALL

When you change the OSD menu settings, SAVE ALL before leaving the OSD. Press ENTER key to change the memory settings for the OSD.

PRIVACY: On / Off Selectable

AREA SEL	Max. 8
ТОР	000~244 (NTSC) / 000~288(PAL)
BOTTOM	000~244 (NTSC) / 000~288(PAL)
LEFT	560TVL:000~378 (NTSC)、000~370 (PAL) 650TVL:000~474 (NTSC)、000~468 (PAL)
RIGHT	560TVL:000~378 (NTSC)、000~370 (PAL) 650TVL:000~474 (NTSC)、000~468 (PAL)
COLOR	1~8
TRANSP	0.00/0.50/0.75/1.00
MOSAIC	ON / OFF

• PRIVACY: ON

AREA SEL: Select the mask frame to be adjusted.

NOTE: When the MONITOR AREA has been set to ON by the MOTION DET setting, only 4 PRIVACY AREA SEL are selectable (1 / 4, 2 / 4, 3 / 4, 4 / 4).

TOP: Set the top side of the mask frame selected

- BOTTOM: Set the bottom side of the mask frame selected
- LEFT: Set the left side of the mask frame selected
- RIGHT: Set the right side of the mask frame selected
- COLOR: Set the colors of the mask frames.
- TRANSP: Set the transparency ratio of the mask frames.
- MOSAIC: Set the mask frame mosaic function to ON or OFF.

MOTION: On / Off Selectable

MOTION DET: ON

DETECT SENSE	000~127	
BLOCK DISP	ON / OFF / ENABLE	
MONITOR AREA	ON / OFF	
AREA SEL	1~4	
ТОР	000~244 (NTSC)/000~288(PAL)	
BOTTOM	000~244 (NTSC)/000~288(PAL)	
LEFT	540TVL : 000~378 (NTSC) \ 000~370 (PAL)	
	650TVL:000~474 (NTSC)、000~468 (PAL)	
RIGHT	540TVL : 000~378 (NTSC) \ 000~370 (PAL)	
	650TVL : 000~474 (NTSC) \ 000~468 (PAL)	

DETECT SENSE: Set the motion detection sensitivity.

BLOCK DISP: Control the ON/ OFF status of the motion detection block display.

MONITOR AREA: Set whether to use the monitoring frames.

AREA SEL: Select the monitoring frame to be set.

TOP: Set the top side of the monitoring frame selected

BOTTOM: Set the bottom side of the monitoring frame

selected

 LEFT:
 Set the left side of the monitoring frame selected

 RIGHT:
 Set the right side of the monitoring frame selected

CAMERA ID: On / Off Selectable

ABCDEFGHIJKLMNOPQRSTUV ψ WXYZ0123456789-!"#\$%& ψ ()_ `, ¥ : ; < = >?@\ ^*.x+ $\hbar\psi$ CHRI ψ $\leftarrow \rightarrow \uparrow \downarrow$ CLR POS ψ

ABCDEFGHIJK		
LMNOPQRSTUV		
WXYZ01234567	Fach User Font	
89-!"#\$%&'		
()_ , ¥ ∶ ; <		
$= >? @ \land *.x + /$		
$\leftarrow \to \uparrow \downarrow$	The camera ID cursor moves in the direction of the arrow when the Enter operation input is performed from the status in which \leftarrow , \rightarrow , \uparrow or \downarrow has been selected using the character selection cursor.	
CLR	The character selected by the camera ID cursor is cleared when the Enter operation input is performed from the status in which CLR has been selected using the character selection cursor.	
POS	The display switches to the camera ID display position setting screen when the Enter operation input is performed from the status in which POS has been selected using the character selection cursor. On the camera ID display position setting screen, the camera ID display position is changed in real time in response to the left, right, up or down operation input. When the Enter operation input is performed, the display position is entered, and the display returns to the camera ID setting screen.	

LANGUAGE

There are 8 kind of language: English / Japanese / German / French /

Russian / Portuguese / Spanish / Simplified Chinese selectable.

CAMERA RESET

Reset Factory default setup.

BACK

Return to MAIN MENU, page1.

SPECIFICATIONS

Model		SIR42-365AI	SIR42-365AIP	
System		NTSC	PAL	
Image Sensor		1/3" Ex-V	iew CCD	
DSP		Sony		
Total Pixel		976(H) x 494(V)	976(H) x 582 (V)	
Synchronizing		Into	rnal	
System		Internal		
Resolution		650 TV		
Minimum Illum	ination		/ 0 Lux @ IR "on"	
S/N Ratio		More than 48	dB (AGC Off)	
Adaptive Tone		On /	Off	
Reduction (ATE	र)	,	•	
Digital Noise Reduction (DN	р\	On /	Off	
Flickerless	nj	On /	0ff	
Auto Gain Con	trol	Auto / N		
White Balance		ATW / PUSH / USER1 / USER 2 /		
Back Light				
Compensation		On /	Off	
High Light				
Compensation		On /	Off	
Gamma		0.4	45	
Electronic Shutter		Auto: 1/60~1/100,000s Manual: 1/60, 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000	Auto: 1/50~1/110,000s Manual: 1/60, 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000	
Video Output		1Vp-p composite / 75 Ω		
Mechanical IR Filter - ICR	Cut	Yes		
Lens		3.7mm~12.0mm Aspherical Vari-Focal Lens		
IR LED		42 IR LED		
IR Wavelength		850 nm		
IR Distance		120ft / 40m Low, Mid, High Selectable		
Privacy		Maximum 8 Areas		
Motion Detect		4 Areas		
Camera ID		Up to 52 Characters		
Mirror		On / Off		
Positive / Nega	tive	On / Off		
IP Rating		IP66		
Power Supply		12V DC <u>+</u> 10%		
Power	IR ON	320mA (Low) / 420mA (Mid) / 750mA (High)		
Consumption	IR Off	130mA		

Operating
Temperature

14°F ~ 122°F / -10°C ~ +50°C

Dimension

10.51(L) x 4.29(W) x 6.77(H) inches / 267(L) x 109(W) x 172(H) mm with sunshield

* Specifications are subject to change without notice.

LIMITED WARRANTY

OKINA USA products are covered under warranty for one (1) year from the date of purchase. The warranty will automatically be voided if any of the following occurs:

1. Camera sticker is removed

If the camera sticker is removed, we will not be able to confirm any information regarding when and where the product was purchased. We have no other way to verify the purchase record without the serial number on the camera sticker; therefore, it should not be removed.

2. Camera is modified in any way

If the camera is scratched, damaged, or modified in a manner not described in this manual, the warranty will be voided immediately. It is the customer's responsibility to keep the camera in good condition.

3. Video or power cable is cut

The video cable and the power cable should not be tampered with. Cutting or modifying of the cables will result in termination of the warranty.