

RET1031

Retina Weatherproof Day/Night IR Color Camera
with SONY High Resolution CCD Sensor & On-Screen Adjustability



INTRODUCTION

The RET1031 color camera employs the latest SONY technology optical components. This high definition stability camera provides strong anti-jamming, rich and real color. Easy to install and convenient to use. It will adapt to most CCTV systems. Please read this instruction manual carefully to ensure proper use of the product.

WARNINGS



To prevent fire or shock hazard, do not expose the unit to prolonged contact with water.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the application.



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electrical shock to persons.



CAUTION
Risk of Electrical Shock DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRICAL SHOCK DO NOT REMOVE COVER OR BACK. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

CAUTION: TO PREVENT ELECTRICAL SHOCK AND RISK OF FIRE HAZARDS, DO NOT USE OTHER THAN SPECIFIED POWER SOURCE.



CAUTION
Risk of Damaging Camera



CAUTION: PLEASE NOTE THE CAMERA'S OPERATING TEMPERATURE AND ENVIRONMENT REQUIREMENTS. AVOID USING THE CAMERA AT EXTREME TEMPERATURES.

CAUTION: NEVER POSITION THE CAMERA TO FACE THE SUN OR A BRIGHT OBJECT. THIS MIGHT DAMAGE THE CCD.

CAUTION: DO NOT MOUNT THE CAMERA NEAR A HEAT SOURCE.

CAUTION: USE ONLY THE RECOMMENDED POWER SUPPLY.

CAUTION: WHEN USING THE CAMERA IN LIGHTNING CONDITIONS, BE SURE TO INSTALL A SURGE - PROTECTION DEVICE, OR DISCONNECT POWER SUPPLY PLUG AND CABLE.

CAUTION: IN ORDER TO CAPTURE HIGH QUALITY PICTURES, THE POWER SUPPLY'S CABLE AND VIDEO OUTPUT CABLE SHOULD NOT BE TOO LONG.

IN THE BOX

- (1) RET1031 Weatherproof Day/Night IR Color Camera
- (1) User Manual

PRODUCT OVERVIEW

Sensor (CCD)

SONY 1/3" High Resolution CCD Sensor

Auto Gain Control (AGC)

Built-in auto gain control (AGC) circuit. The color camera can provide high definition picture in low light conditions.

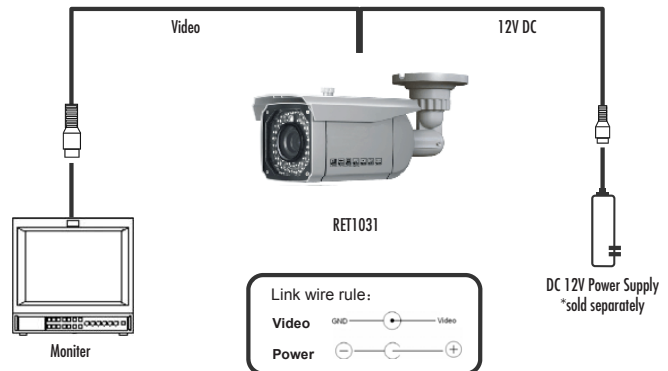
Scanning Mode

NTSC or PAL mode.

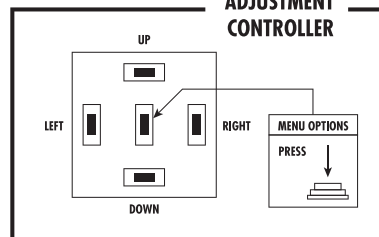
On-Screen Adjustability

The camera has a built-in OSD with an easy-to-use adjustment controller that gives you complete control over the picture.

CONNECTIONS



ADJUSTMENT CONTROLLER



USER MANUAL



RET1031

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SPECIFICATIONS

Model	RET1031
Pick Up Element	1/3" SONY Super HAD CCD
Effective Picture Elements (H X V)	NTSC: 811(H) X 508(V) PAL: 795(H) X 596(V)
Horizontal Resolution	600 TV Lines
Minimum Illumination	0.001 Lux, 0 Lux (with IR LED ON)
S/N Ratio	More than 48db
Scanning System	2.1 interface
Synchronous System	Internal, Negative sync.
Auto Electronic Shutter	NTSC: 1/60s~1/100,000s, PAL: 1/50s~1/100,000s
Gama Characteristic	0.45
IR Distance	50 Meters (with ϕ 5 x 65PCS infrared LED)
IR Status	Under 10 Lux by CDS
IR Power ON	CDS Auto Control
Video Output	1Vpp, 75 Ω
Auto Gain Control	Auto
Power/Current	DC12v (+/-10%) 600 mA
Lens	2.8-12mm Manual Zoom Lens
Dimension (mm)	310(W) x 200 (H) x 148 (D) mm
Weight (g)	1600
Storage Temperature	-30~+60°C RH 95% MAX
Operating Temperature	-10~+45°C RH 95% MAX

ON-SCREEN SETTINGS

LENS		MANUAL/DC/VIDEO
EXPOSURE	SHUTTER	AUTO, 1/50, 1/250, 1/500, 1/2000, 1/5000, 1/10000, 1/100000, x2, x4, x8, x16, x32, x64, x128, x256
	BRIGHTNESS	0-100
	AGC	LOW/MIDDLE/HIGH/OFF
	SENSE UP	2x TO 128x
	BLC	OFF/BLC/HSBLC
	D-WDR	OFF/INDOOR/OUTDOOR
WHITE BAL		ATW/AWB/AWC/MANUAL/INDOOR/OUTDOOR
DAY/NIGHT		AUTO/COLOR/BW
3DNR		ON/OFF
SPECIAL	CAM TITLE	ON/OFF
	D-EFFECT	FREEZE/ON/OFF
		MIRROR
		D-ZOOM
		GAMMA
		NEG. IMAGE
		RETURN
	RS485	CAM ID
		ID DISPLAY
		BAUD RATE
	MOTION	ON/OFF
		OFF
	PRIVACY	AREA SELECT
		AREA DISPLAY
		LEFT/RIGHT
ADJUST		WIDTH
		TOP/BOTTOM
		HEIGHT
		COLOR
	SYNC	INT
	LANGUAGE	CHINESE/ENGLISH/JAPANESE
RESET	RETURN	
	SHARPNESS	0-31
	BLUE	0-100
	RED	0-100
EXIT		FACTORY RESET/RETURN

TROUBLESHOOTING

- No picture after providing power.**
Possible power supply voltage abnormality. Check for proper power supply voltage and polarity. Ensure that all the connecting cables and monitors are hooked up properly.
- Interference (hum bars) are moving through the picture.**
Check the monitor and peripheral equipment used.
- The picture background changes color continuously.**
The fluorescent light's electromagnetic field can cause color roll. This is a normal phenomenon. Reduce the number of fluorescent lights, or increase the distance between the camera and the fluorescent lights.
- The picture quality is poor or "fuzzy"**
This is usually due to poor quality cables or poor connections. Ensure that all the connecting cables and monitors are hooked up properly, or switch to higher quality connecting cables.

LIMITED WARRANTY

This warranty remains in effect for one year from the date of purchase. Except as specified below, this warranty covers all defects in material and workmanship. The following are not covered: Damaged caused by accident, misuse, abuse, product modification or neglect, damage occurring during shipment, damage from failure to follow instructions contained in the owner's instruction booklet, damage resulting from the performance of repairs by someone not authorized by Retina Security Equipment, or any claims based on misrepresentations by the seller. This warranty does not cover incidental or consequential damages. It does not cover the cost of removing or reinstalling the unit. This warranty is void if the serial number has been removed or defaced.

This warranty gives you specific legal rights. You may also have other rights which vary from state to state. Some states do not allow the exclusion or limitations of incidental or consequential damages or limitation on how long an implied warranty lasts so the above may not apply to you.

HOW TO OBTAIN SERVICE

Please call us at (800) 844-9555 Monday – Friday 8am – 5pm. Central Standard Time. We may direct you to an authorized dealer/technician or request that you return the product for repair. You must present the original bill of sale to establish the date of purchase.

Please do not ship your product to us for repair without prior authorization. You are responsible for transportation of your product and payment of any shipping charges. If the repairs are covered under warranty, we will pay the return shipping charges.

NOTE: Do not attempt to disassemble the camera. Doing so may void your warranty.
No user-serviceable parts inside.

USER MANUAL

