



#### SALES NETWORK

#### SAMSUNG TECHWIN CO., LTD. 145-3, Sangdaewon 1-dong, Jungwon-gu, Seongnam-si, Gyeonggi-do 462-703, Korea

TEL:+82-31-740-8137-8141 FAX:+82-31-740-8145 • SAMSUNG OPTO-ELECTRONICS AMERICA,INC.

ELECTRONIC IMAGING DIV. 40 Seaview Drive, Secaucus, NJ 07094, U.S.A

40 Seaview Drive, Secaucus, NJ 07094, U.S.A TEL: +1-201-902-0347 FAX: +1-201-902-0429

SAMSUNG TECHWIN MOSCOW OFFICE
 Korp 14, 37-A, PR-KT, Lenningradsky, Moscow 125167, Russia
 TEL: +7-95-258-9296,9298
 FAX: +7-95-258-9297

www.samsungtechwin.com www.samsungcctv.com

#### · SAMSUNG OPTO-ELECTRONICS UK, LTD.

Samsung House, 1000 Hillswood Drive, Hillswood Business Park Chertsey, Surrey KT16 OPS TEL : +44-1932-45-5308 FAX : +44-1932-45-5325

• TIANJIN SAMSUNG OPTO-ELECTRONICS CO., LTD. 7 Pingchang Rd, Nankai Dist. Tianjin 300190, P.R China TEL : +86-22-2761-4724(33821) FAX : +86-22-2761-6514

P/No. : Z6806-0618-01B

High Sensitivity, Day & Night 30X Zoom Color Camera INSTRUCTION MANUAL SDZ-330

SAMSUNG

EDISV

About this manual

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The lightning flash with an arrowhead symbol, within an equilateral triangle 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 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) instructions in the literature accompanying the appliance.

**INFORMATION**-This equipment has been tested and found to comply with 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 his own expense.

**WARNING** - Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

CAUTION : To prevent electric shock and risk of fire hazards:

- Do NOT use power sources other than that specified.
- Do NOT expose this appliance to rain or moisture.

This installation should be made by a qualified service person and should conform to all local codes.

## Features (

## Warning

# 30x Optical Zoom

The built-in SDZ-330 optical zoom lens is a highly durable component. It features auto focus, auto iris, and zoom functions.



SDZ-330 features a powerful DSP that can efficiently remove image noise, producing crisp and clear images even under low lighting conditions.

# Fine Picture Quality under Ultra Low

The integrated SV-III DSP Chip and 1/4" high density CCD allows the user to capture bright, high-quality images under ultra low lighting conditions.

- 0.4 Lux in normal color mode.

# Wide Dynamic Range (WDR)

The WDR feature offers powerful compensation performance and thus allows for crisp, clear, and perfect light contract under any environment.



Featuring 520TV line horizontal resolution in color mode and 570TV line horizontal resolution in BW mode, the camera features Sony's Double Speed 410,000 pixel CCD and captures clean, noiseless, high-quality images.

# Day & Night

The camera automatically determines whether it is night time or day time, selecting operating mode automatically. The camera operates in color mode during day light conditions and BW mode in night conditions for clearer identification.

## Motion Detection

Once motion is detected, the camera sends an alert signal to the processing unit, which, if used in conjunction with an optional alarm, can provide effective surveillance of your property.

## Miscellaneous Functions

Other miscellaneous functions of the camera include privacy zone masking, digital zoom, line lock synchronization (INT/LL), freeze, horizontal inversion, and user-configured presets.

#### Control via OSD Menu and RS-485

The OSD menu and RS-485 pins allow for remote control of the camera. The user can also directly control the lens using external control connection.

#### The camera requires regular maintenance.

Contact an authorized technician for maintenance and/or servicing.

#### Do not continue to use if malfunctioning.

Prolonged use of the camera in abnormal operating conditions (produces smoke, overheats, etc.) may result in a fire.

#### Do not Install the camera on a surface that can not support it.

Installation on an unsuitable surface may cause the camera to fall and/or other hazards.

#### Do not handle the power cable with wet hands.

May result in an electric shock.

#### Do not disassemble the camera.

May result in a fire, electric shock, and/or other hazards.

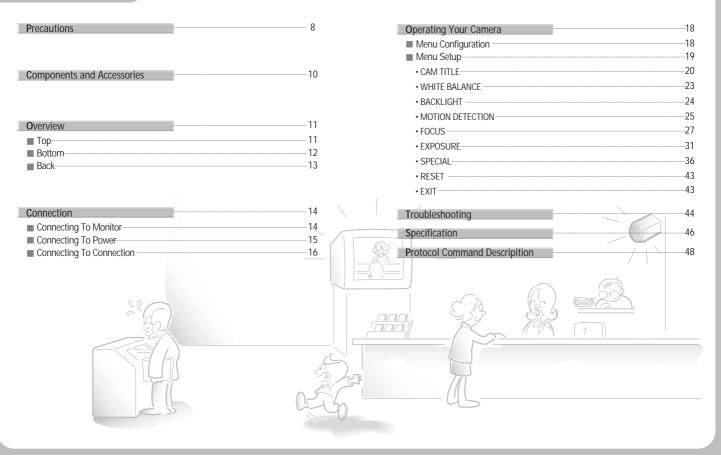
#### Do not place the camera in the vicinity of inflammables.

May result in a fire and/or other hazards.

#### Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems) This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

## Contents 🔘



## Precautions

Do not install under extreme temperature conditions.



Do not install in high humidity environment.



Use only under temperature conditions between -10°C and +50°C. Provide good ventilation when using in high temperature conditions. May lower image quality.

Do not drop the camera or subject it to physical shock.



May cause a product malfunction.

Never keep the camera face to strong light directly.



May damage the CCD.

Do not expose the camera to rain or other types of liquids.



Do not expose the camera to radioactivity.



Wipe dry any liquids. Liquids may contain minerals that are corrosive to electronic components.

Radioactivity exposure may damage the CCD.

Solution Notes

- Exposure to a spotlight or an object emitting strong light may cause smear or blooming.
- Ensure that the power source complies with normal specifications before supplying it to the camera.

Do not install under unstable lighting conditions.



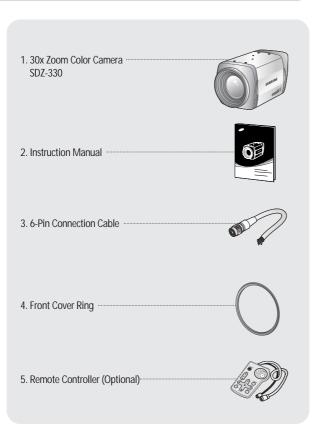
Severe lighting changes or flickering may hinder normal camera operation.



Avoid touching the camera lens.

The lens is the most important component of the camera. Be careful not to smear it with fingerprints.

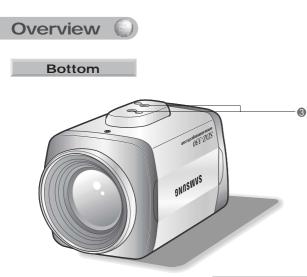
## Components and Accessories





Tripod Mounting Bracket Screw Hole Used to fix tripod mounting bracket on top of the camera.

Pront Cover Ring Removable for replacement with a filter.



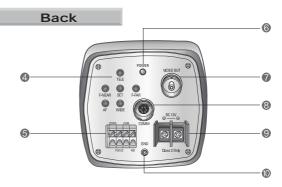
#### Tripod Mounting Hole

Used to install the camera on an optional tripod. The tripod must be equipped with screws with specifications shown on the right.

1/4"-20 UNC (20 THREAD)
L:4.5mm±0.2mm (ISO standard),
or 0.197" (ASA standard)



Attach the bracket to the top of the camera. Use screws included in the package or their equivalent (less than 6mm). Otherwise, the bracket may not assemble to the camera properly.



#### Key Buttons

· Following buttons control zoom, focus, and auto focus functions.

WIDE button : To widen the view. (ZOOM OUT)

TELE button : To close in on a far object. (ZOOM IN)

F-NEAR button : To see a near object clearly.

F-FAR button : To see a far object clearly.

AF button : To activate auto focus just once.

Pressing the 'SET' button locks the zoom control function of these buttons and prompts the main setup menu.

## Solution Notes

The zoom postion is saved after 5 seconds when you set zoom function.

Main setup menu can be navigated using these buttons.
 SET : To access the main setup menu.
 UP (WIDE button) : To move the arrow indicator to up.
 DOWN (TELE button) : To move the arrow indicator to down.
 LEFT (F-NEAR button) : To move the arrow indicator to left.
 RIGHT (F-FAR button) : To move the arrow indicator to right.

## Overview 🌍

#### External Control Connector

Relates to the motion detection output signal.

Zoom and focus functions can be controlled using external siganals.

#### Power LED

Illuminates when power is supplied.

#### Video Output Jack

Used to connect an external video monitor in jack.

#### Operation Control Connector

Used to connect the Remote Controller (Optional). Includes external 'SYNC' signal input pin, which is used for the line lock function. Includes the RS-485 communication pin.

#### Over Input Terminal

Power supply terminal (DC12V±10%).

#### Frame Ground Terminal

It is the GND terminal of the motion detection signal.

# Connection

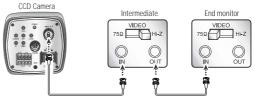
#### Connecting to Monitor

Connect Video Out Jack to the monitor's Video In jack as shown below.



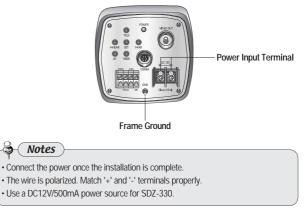
- Connection methods may vary depending on the video equipment. Please refer to the model specific instruction manual.
- · Connect cables with the unit powered down.

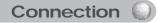
- Set the 75 $\!\Omega$  / Hi-Z selection switch as shown below if you have an intermediate device.



#### Connecting to Power

Connect the power cable to the camera's Power In as shown in the figure below.

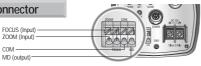




#### Connecting to connection

#### **External Control Connector**

COM -MD (output)



Connector	Function	Signal Level	I/O	
ZOOM	Tele	+6V-+12V	I	
2001	Wide	-6V12V		
FOCUS	Far	+6V-+12V COM	I	
10005	Near	-6V12V		
COM		СОМ	-	
N	1D	+4.0V-+5.0V There is motion There is no motion	0	

\* MD (Motion Detection) Output Signal Level (less than 10mA)

\* When using the MD function, the 'GND' should be connected to the frame ground.

#### **Communication Control Connector**

The camera can be controlled by using external controllers like a Remote controller. (RS485 Communication)



SCC-100. SDZ-160C0 Cable

\* Communication Control Connector Pin Description

Number	Name	Description	Number	Name	Description
1	GND	-	4	TRX +	RS-485 Communication
2	EXT.SYNC	External 'SYNC' Signal	5	TRX -	RS-485 Communication
3	GND	-	6	Output Power	Remote Controller only



\* EXT. SYNC 3V or 5V 0V Min: 500ns

60Hz ± 0.1Hz(NTSC), 50Hz ± 0.1Hz(PAL)

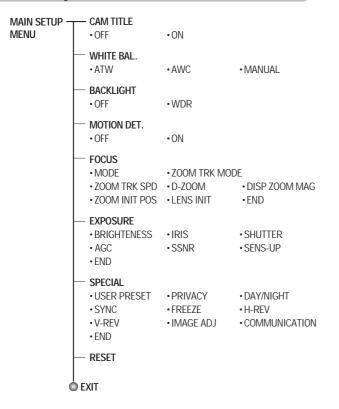
\* Communication Setting can set the communication setting as shown in the table below. When you use to connect SCC-100 or SCC-3000, the default sets for SCC-100.

ITEM	SCC-100	SCC-3000
MODE	Serial	Serial
Data Bit	8 bit	8 bit
Bit/Sec	9600bps	9600bps
Parity	EVEN	NON
CAM ID NO.	0	1~255
RETURN PACKET	ENABLE	See the SCC-3000 settigs

#### Notes

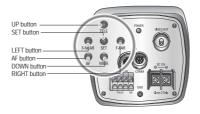
· Contact an authorized technician for inspection.

#### Menu Configuration



#### Menu Setup

Use the six buttons on back of the camera.



1. Press the SET button to access the main setup mode.

• Main setup menu is displayed on the monitor screen.

MAIN SET	rup
► CAM TITLE	OFF
WHITE BAL	ATW
BACKLIGHT	OFF
MOTION DET	OFF
FOCUS	
EXPOSURE 🚽	
SPECIAL	
RESET	
EXIT	

- 2. Select the desired feature using the UP or DOWN button.
  - Each pressing of the UP or DOWN button moves the indicator to the next or previous feature.
  - Move the arrow indicator to the desired feature item.

# Operating Your Camera Image: Comparison of the status using the UP Select feature using the UP Comparison of the status using the stat



3. Change the status of the selected feature using the LEFT or RIGHT button.

4. When completed, move the arrow indicator to 'EXIT' and press the SET button.

Notes\_

- Features marked with a ,J have an accessible submenu
- · Access the submenu by pressing the SET button.

#### Cam Title

Use this feature to designate a name for the camera, which will display on the monitor screen.

- Press the SET button to display the main setup menu and move the arrow indicator to 'CAM TITLE' using the UP or DOWN button.
- 2. Set 'CAM TITLE' to 'ON' using the LEFT or RIGHT button.



3. Press SET button.



- 4. You can enter up to 20 characters.
  - Move the cursor to the character entry field using the LEFT or RIGHT button.
  - **2** Use UP, DOWN, LEFT, and RIGHT buttons to select a desired character.

C.	AM T	ITLE	
ABCDI	EFGH	IJKI	LMNC
PQRS	TUVW	XYZa	abcd
efgh	ijkl	mnoj	pqrs
tuvw			
89(	) < > -	/#!	?,
	CLR	POS	RND

Press the SET button to confirm selection of the blinking character. The character is then saved, and the cursor in the entry field moves to the next position.

Provide the steps Through Suntil the desired name has been entered.

### > Notes

#### Correcting Mistakes

Move the cursor to 'CLR' and press the SET button to clear the entire entry. To modify one character, use  $\leftarrow$  or  $\rightarrow$  to position the cursor above the character to be modified and click the SET button after selecting the character to enter.

5. Select on screen position of the CAM TITLE.

Move the cursor to 'POS' and press SET button.



The CAM TITLE is displayed on the top-left of the monitor screen. (Default position)



Select the position by using the 4-directional buttons, then press the SET button to confirm the position.



6. When completed, move the cursor to 'END' and press SET button.

#### White Balance Control

Your camera provides three 'WHITE BAL' control modes for your choosing in adjusting the white balance.

- 1. Press the SET button to access the main setup menu and move the indicator to 'WHITE BAL' using the UP or DOWN button.
- 2. Set 'WHITE BAL' using the LEFT or RIGHT button.

MAIN	SETUP
CAM TITLE	OFF
▶WHITE BAL	ATW
BACKLIGHT	OFF
MOTION DET	OFF
FOCUS→	
EXPOSURE 🚽	
SPECIAL	
RESET	

The three white balance control modes are as follows :

- CATW (Auto Tracking White Balance): When color temperature is 1800 ~ 10500°K, select this mode.
- CAWC (Auto White balance Control): The white balance is automatically adjusted in a specific environment. In order to obtain the best result, press the SET button while the camera focuses on white paper. If the environment including the light source is changed, you have to adjust the white balance again.
- CManual: To fine adjust, select the Manual mode. You can increase or decrease the red or blue factor while monitoring the difference on the screen. Set to 'MANUAL' mode and press the SET button. Increase or decrease the value for red(R-Gain) and blue(B-Gain), watching the color of the picture, and press the SET button when you obtain the best color.

#### Notes

- Proper White Balance may not be obtained under the following conditions.
   When the scene contains mostly high color temperature object, such as a blue sky or sunset.
- When the scene is dim.
- If your camera directly faces a fluorescent lamp or is used in an environment of varying lighting conditions.

#### Backlight

The built-in SVIII DSP chip provides intelligent light level control to overcome the severe 'BACKLIGHT' conditions.

 Press the SET button to display the main setup menu and move the arrow indicator to 'BACKLIGHT' using the UP or DOWN button.

MAIN SETUP	
CAM TITLE	OFF
WHITE BAL	ATW
▶ BACKLIGHT	OFF
MOTION DET	OFF

2. SET 'BACKLIGHT' to the desired mode using the LEFT or RIGHT button.
 WDR: Compensates for scenes simultaneously containing bright and dark elements.
 OFF: Deactivation



3. Select the 'WDR' mode and Press the SET button •You can adjust the LIMIT for WDR



You can select the level(LOW,MIDDLE,HIGH). WDR sensitivity is increased or decreased.

4. When completed, press the SET button.



- $\bullet$  The WDR mode cannot be used if 'Shutter of Exposure Menu' is set to 'MANUAL'.
- The following phenomenon may occur when operating under the WDR mode. In such event, do not continue use under the WDR mode.
- Unnatural color change or screen phenomenon.
- Screen noise on bright elements.
- WDR performance vary on bright on screen elements. Adjust the camera angle accordingly when installing the camera to compensate.
- Making changes to the WDR LIMIT may result in unnatural screen phenomenon.

#### Motion Detection

alert signal upon detecting motion. When used in conjunction with an external alarm, the user can receive MD alerts. This feature is useful when monitoring several screens simultaneously.

- 1. Press the SET button to access the main setup menu and move the indicator to 'MOTION DET' using the UP or DOWN button.
- 2. Set 'MOTION DET' to ON using the LEFT or RIGHT button.

#### **Operating Your Camera** MAIN SETUP CAM TITLE OFF WHTTE BAL ATH OFF BACKLIGHT ▶ MOTION DET ON FOCUS Press the SET button. MOTION DETECTION SENSITIVITY 50 ----

Increase or decrease detection sensitivity by setting the 'SENSITIVITY' value.

Press SET to Return

· When completed, press SET button.

## Notes

the camera

#### Tips on Using the Motion Detection Feature

- · Once the sensitivity level has been set, perform a test to verify proper operation of the feature.
- The feature may not function properly under flickering light conditions.
- The camera interprets sudden changes in lighting and subsequent change in brightness of an object as motion.
- · With the feature enabled, other algorithms may require additional time to operate than usual
- This system does not guarantee prevention of fire or theft. The manufacturer shall not be held responsible for any accident or damage incurred.



#### FOCUS

MAIN SETUP	
CAM TITLE HHITE BAL BACKLIGHT MOTION DET ▶FOCUS→J	off Atw Off Off
EXPOSURE 🚽	

- 1. Press the SET button to access the main setup manu and then position the indicator over FOCUS using the UP or DOWN button.
- 2. Press the SET button.
  - **CMODE:** You can select the most suitable zoom mode. Move the arrow indicator to 'MODE' using UP or DOWN button.

FOCUS SETUP	
► MODE	AUTO 🚽
ZOOM TRK MODE	ON
ZOOM TRK SPD	FAST
D-ZOOM	OFF

•AUTO : Select AUTO and press the SET button to confirm. Increase or decrease

optical zoom (ZOOM) or digital zoom (D-ZOOM) positions using the UP or DOWN button while verifying the changes on screen. Enabling D-ZOOM (ON) means that digital zoom will activate once optical zoom ends. Focus is automatically adjusted with moving 700M.



 ONE PUSH : Focus is automatically adjusted just once, after zoom position is changed. Select ' ONE PUSH' and press the SET button to confirm. Increase or decrease optical zoom (ZOOM) or digital zoom (D-ZOOM) positions using the directional buttons



while verifying the changes on screen. Press the SET button once desired image quality is obtained.

 MANUAL : Select 'MANUAL' and press the SET button to confirm. Increase or decrease optical zoom (ZOOM) or digital zoom (D-ZOOM) positions using the directional buttons while verifying the changes on screen. Press the SET button once desired image quality is obtained. Focus



can be manually adjusted, independent of moving zoom.

ZOOM TRK MODE: You can select to use 'ZOOM TRK MODE'. Move the arrow indicator to 'ZOOM TRK MODE' using UP or DOWN button. Set 'ZOOM TRK MODE' to on using LEFT or RIGHT button.

	F	OCUS	SETUP		
MODE				AUTO 🚽	
► 200M	TRK	MODE		ON	

ZOOM TRK SPD: Configure zoom tracing speed using this feature. Position the indicator over 'ZOOM TRK SPEED' using the UP or DOWN button and then set to desired mode using the LEFT or RIGHT button.

FOCUS SETUP	
MODE	AUTO 🚽
ZOOM TRK MODE	ON
ZOOM TRK SPD	FAST

•FAST: To move zoom fast.

#### •SLOW: To move zoom slowly.



- The 'ZOOM TRK SPEED' mode cannot be used if 'MODE' is set to 'AUTO' and 'ZOOM TRK MODE' is 'ON'.

D-ZOOM: Configure magnification limit from x1, x2, x4, or x8 using this feature. Position the indicator over 'D-ZOOM' using the UP or DOWN button. Set 'D-ZOOM' to 'ON' and press the SET button to confirm.

FOCUS SETUP	
MODE	AUTO 🚽
ZOOM TRK MODE	ON
ZOOM TRK SPD	FAST
▶ D-200M	ON₊J

 $\cdot$  Set 'ZOOM LIMIT' to the desired level using the LEFT or RIGHT button.



DISP ZOOM MAG: Use this feature to display the current zoom magnification level on screen. Position the indicator over 'DISP ZOOM MAG' using the UP or DOWN button. Then set to ON using the LEFT or RIGHT button.

FOCUS SETUP	
MODE	AUTO 🚽
ZOOM TRK MODE	ON
ZOOM TRK SPD	FAST
D-200M	OFF
► DISP ZOOM MAG	ON

ZOOM INIT POS: Moves to the controlled ZOOM position when the power truned on and is a function of the initial ZOOM position control.

FOCUS SETUP	
MODE	AUTO 🚽
ZOOM TRK MODE	ON
ZOOM TRK SPD	FAST
D-ZOOM	OFF
DISP ZOOM MAG	ON
► ZOOM INIT POS	ON 🚽 🗌
LENS INIT	



CLENS INIT : Use this feature to initialize the lens. Position the indicator over LENS INIT. using the UP or DOWN button. Press the SET button to confirm.

FOCUS SETUP	
MODE 200M TRK MODE 200M TRK SPD D-200M DISP 200M MAG 200M INIT POS LENS INIT	auto → ON Fast OFF ON OFF
END	

CEND: To revert to the main setup menu.

EXP

EXPOSURE	SETUP
BRIGHTNESS	50
IRIS	AUTO
SHUTTER	
AGC	MIDDLE
SSNR	MIDDLE
SENS-UP	AUTO 🚽
END	

- 1. Press the SET button to access the main setup menu and then position the indicator over 'EXPOSURE' using the UP or DOWN button.
- 2. Press the SET button to confirm.
  - BRIGHTNESS: Use this feature to adjust image brightness. Position the indicator over 'BRIGHTNESS' using the UP or DOWN button. Then increase or decrease brightness level using the LEFT or RIGHT button while verifying the changes on screen. Set END once desired level is obtained.

EXPOSURE	SETUP	
▶ BRIGHTNESS	50	
IRIS	AUTO	
SHUTTER		
AGC	MIDDLE	

IRIS: Set 'IRIS' to 'AUTO' or 'MANUAL'. Position the indicator over 'IRIS' using the UP or DOWN button and then select the desired iris mode using the LEFT or RIGHT button.

EXPOSURE SETUP			
BRIGHTNESS	50		
▶ IRIS	AUTO		
SHUTTER			

AUTO: The iris is automatically activated upon illumination.

 MANUAL: Manual iris configuration. Set 'IRIS' to 'MANUAL' using the LEFT or RIGHT button and then press the SET button. Increase or decrease iris level using the LEFT or RIGHT button while verifying the changes on screen.

LEN	S MANU	JAL SE	TUP
IRIS	MANUAI	, 50·····	
Press	SET t	o Reti	ırn

**SHUTTER** : Control image brightness by adjusting shutter speed.

 Position the indicator over 'SHUTTER' using the UP or DOWN button. Then select the desired shutter mode (A.FLK, ESC, MANUAL) using the LEFT or RIGHT button.

EXPOSURE SETUP				
BRIGHTNESS	50			
IRIS	AUTO			
► SHUTTER				
AGC	MIDDLE			

- A.FLK (NTSC: 1/100, PAL: 1/120): Flicker-free mode
   ESC: Automatic shutter speed setting (optimal)
   MANUAL: Manual shutter speed setting
- 2. If you choose 'MANUAL', select the optimal shutter speed
  - In MANUAL mode, the optimal shutter speed needs to be designated. Select from 1/60 to 1/120,000 (NTSC) or from 1/50 to 1/120,000 (PAL).
  - \* 'Sens-Up' mode can be configured manually (2x to 128x).
  - Verify changes made to the shutter speed by referencing to changes in on screen brightness.



3. Press the SET button to complete.



- Set the 'WDR' mode under the Backlight menu to OFF for maximum A.FLK performance. 'A.FLK' will not function properly otherwise.
- Image may become unstable if the camera is set to 'ESC' mode and faces a strong fluorescent light.
- Under 'ESC' mode, the brightness can be adjusted using the LEFT or RIGHT button.
- The WDR feature is not available under MANUAL mode.
- · Sens-up is disabled under 'MANUAL' or 'A.FLK' mode.

#### CAGC (Auto Gain Control): For brighter images.

Position the indicator over 'AGC' using the UP or DOWN button.
 Set 'AGC' to the desired mode using the LEFT or RIGHT button.

- HIGH : Wide range gain value adjustment
- MIDDLE : Middle range gain value adjustment
- LOW : Narrow range gain value adjustment
- OFF : Disabled

EXPOSURE	SETUP
BRIGHTNESS	50
IRIS	AUTO
SHUTTER	
► AGC	MIDDLE

#### SSNR(Samsung Super Noise Reduction): On screen noise reduction.

- 1. Position the indicator over 'SSNR' using the UP or DOWN button.
- 2. Set 'SSNR' to the desired mode using the LEFT or RIGHT button.
  - LOW : Low noise reduction
  - MIDDLE : Medium noise reduction
  - HIGH : High noise reduction
  - OFF : Disabled

EXPOSURE SETUP		
50		
AUTO		
MIDDLE		
MIDDLE		

#### ≫–( Notes

- Changing 'AGC' setting from LOW to HIGH results in greater sensitivity, as well as on screen noise.
- Setting 'AGC' to OFF locks 'SSNR' configuration.
- SENS-UP : This feature ensures clear images at night or under low lighting conditions.
  - 1. Position the indicator over 'SENS-UP' using the UP or DOWN button.
  - 2. Set 'SENS-UP' to the desired mode using the LEFT or RIGHT button.
  - AUTO : Select this mode for use in night time or under low lighting conditions.
     OFF : Disabled

EXPOSURE SETUP				
BRIGHTNESS	50			
IRIS	AUTO			
SHUTTER				
AGC	MIDDLE			
SSNR	MIDDLE			
► SENS-UP	AUTO 🚽			
END				



- Once 'AUTO' mode is set, the user can configure Sens-Up limit by increasing /decreasing the shutter speed (e.g.: x2,...,x32, x64,..., x128).
- Enabling Sens-Up increases camera sensitivity and may result in additional noise and/or other phenomenons. This is normal.

#### SPECIAL

SPECIAL SE	TUP
USER PRESET	OFF
PRIVACY	OFF
DAY/NIGHT	COLOR 🚽
SYNC	INT
FREEZE	OFF
H-REV	OFF
U-REU	OFF
IMAG ADJ∡J	
COMMUNICATION	
END	

1. Press the SET button to access the main setup menu and then position the indicator over 'SPECIAL' using the UP or DOWN button.

#### 2. Press the SET button to confirm.

USER PRESET: Preset user-designated configurations using this feature. Position the indicator over 'USER PRESET' using the UP or DOWN button and then set to 'ON' using the LEFT or RIGHT button. Press the SET button to confirm.

SPECIAL SETUP		
▶ USER PRESET	ON	
PRIVACY	OFF	
DAY/NIGHT	COLOR 🚽	
SYNC	INT	
FREEZE	OFF	
H-REV	OFF	

• PRESET NO: Up to eight different preset configurations are supported.

SI	et user pr	ESET	
PRESET	NO.	NO. 1	
PRESET	MODE	OFF	
PRESET	SAVE		
PRESET	CLEAR		
END			
PRESET NOT DEFINED			

#### • PRESET MODE: Configure initial settings under FOCUS, EXPOSURE, etc.

USER	PRESET MODE SETUR
FOCU	r s
EXPO	SURE _J
ETC .	
END	

## Operating Your Camera \, 💭

#### • PRESET SAVE: Save configured preset.

SE	t user	PRESET	
PRESET I	NO.	NO.	1
PRESET I	MODE	NO	
▶ PRESET S	SAVE		
PRESET (	CLEAR		
END			
PR	ESET	DEFINED	

#### • PRESET CLEAR: Clear configured preset.

SET USER PRESET		
PRESET NO.	NO. 1	
PRESET MODE	OFF	
PRESET SAVE		
▶ PRESET CLEAR		
END		
PRESET NOT	DEFINED	

#### • END: Revert to the SPECIAL SETUP menu.

SET USER	PRESET
PRESET NO.	NO. 1
PRESET MODE	OFF
PRESET SAVE	
PRESET CLEAR	
► END	
PRESET NOT	DEFINED

PRIVACY: Mask privacy area using this feature. The mask area expand/contract upon the zoom position.

SPECIAL	SETUP
USER PRESET	OFF
▶ PRIVACY	ON
DAY/NIGHT	COLOR 🚽
SYNC	INT
FREEZE	OFF

- **GROUP SEL** : Choose up to four groups. Each group can consist of eight mask areas.
- MASK COLOR : Select desired mask color(BLACK, BLUE, GREEN, WHITE).
- AREA SEL : Configure eight mask areas.
- AREA MODE : Mask area display.
- •TOP : To move the mask area up.
- •BOTTOM : To move the mask area down.
- LEFT : To move the mask area left.
- **RIGHT** : To move the mask area right.

SET	PRIVACY
GROUP SEL	GROUP 1
MASK COLOR	BLACK
AREA SEL	AREA 1
AREA MODE	OFF
TOP	155
BOTTOM	255
LEFT	100 4
RIGHT	220
Press SE	T to Return

CDAY/NIGHT: Select from COLOR, BW or AUTO modes.

SPECIAL SETUP		
USER PRESET	OFF	
PRIVACY	OFF	
► DAY/NIGHT	COLOR 🚽 🗌	
SYNC	INT	

- COLOR : Color mode.
- B/W : BW mode.
- AUTO : The camera automatically detects lighting conditions and selects the mode accordingly.
- SYNC : Two synchronization modes are available INTERNAL and EXTERNAL LINE-LOCK. In LINE-LOCK mode, it synchronizes the camera's video out signal to the external SYNC signal.

SPECIAL SETUP		
USER PRESET	OFF	
PRIVACY	OFF	
DAY/NIGHT	COLOR 🚽	
► SYNC	INT	
FREEZE	OFF	
H-REV	OFF	

- INT : Internal synchronization
- LL : External line-lock synchronization
- $\cdot$  If you choose 'LL', you can adjust the desired phase. Press the SET button.
- · You can adjust the desired phase from 0 to 359.

#### Notes

- For NTSC models, the line-lock mode can be used if the external SYNC signal frequency is at 60Hz.
- For PAL models, the line-lock mode can be used if the external SYNC signal frequency is at 50Hz.
- FREEZE: Use this feature to freeze capture an image. Position the indicator over 'FREEZE' using the UP or DOWN button and then set to 'ON' using the LEFT or RIGHT button. Press the SET button to confirm.

SPECIAL	SETUP
USER PRESET	OFF
PRIVACY	OFF
DAY/NIGHT	COLOR 🚽
SYNC	INT
► FREEZE	ON
H-REV	OFF

H-REV: Use this feature to horizontally inverse the screen. Position the indicator over 'H-REV' using the UP or DOWN button and then set to ON using the LEFT or RIGHT button. Press the SET button to confirm.

SPECIAL	SETUP
USER PRESET	OFF
PRIVACY	OFF
DAY/NIGHT	COLOR 🚽
SYNC	INT
FREEZE	OFF
► H-REU	ON
U-REU	OFF



LINE LOCK

Press SET to Return

V-REV: Use this feature to vertically inverse the screen. Position the indicator over 'V-REV' using the UP or DOWN button and then set to 'ON' using the LEFT or RIGHT button. Press the SET button to confirm.

SPECIAL	SETUP
USER PRESET	OFF
PRIVACY	OFF
DAY/NIGHT	COLOR 🚽
SYNC	INT
FREEZE	OFF
H-REV	OFF
► U-REU	ON
IMAG ADJ⊸J	

CIMAGE ADJ: Includes image quality or special function factors.

- TONE : Increasing this value increases the overall brightness.
- SHARPNESS : Increasing this value sharpens object edges. Too high of a setting, however, produces noise and may obscure the image.
- COLOR : Adjusting this value affects the chroma level only; the burst level is unaffected.
- COMMUNICATION: Use this feature to select communication protocol (refer to p.48~ p.53 for details). Position the indicator over 'COMMUNICATION' using the UP or DOWN button.

SET COMMUNI	CATION
CAM ID NO.	0
CAM ID DISP	ON
BAUD RATE	9600
UART MODE	8-E-1
RETURN PACKET	ENABLE

- CAM ID NO. : Assign an ID number to the camera (1 to 255). Identification number zero is used for Remote controller setup.
- CAM ID DISP: Displays camera ID on top left corner of the screen.
- BAUD RATE : Configure baud rate from 9600, 19200, or 38400bps.
- UART MODE : Configure parity bit to NON, EVEN, or ODD. Data bit is set to 8bit, and stop bit to 1bit. Set the UART MODE to EVEN if using the Remote Controller.
- RETURN PACKET : Used to transfer a packet.

CEND: evert back to the USER PRESET menu.

#### RESET

To reset your camera to factory default condition.

#### EXIT

To finish setup menu.



Refer to the following table if you are experiencing trouble with your camera. Contact an authorized technician if the table does not provide you with a solution to the trouble.

Problem	Solution
No display	<ul><li>Check the power cable and the wiring between the camera and the monitor.</li><li>Ensure proper video cable connection (Video Out Jack).</li></ul>
Dim display	<ul> <li>The lens could be dirty. Clean with a soft, clean piece of cloth.</li> <li>Adjust monitor settings.</li> <li>Adjust camera position if exposed to a strong light source.</li> </ul>
Dark display	• Adjust the monitor's contrast level. • Set the intermediate device, if in use, to $75\Omega$ / Hi-z (refer to p.15).
The camera is not functioning properly and its surface is hot	Check the power source for compliance with specifications.
Motion Detection feature is not active.	<ul><li>Ensure that the feature is set to ON.</li><li>Check the SENSITIVITY level.</li></ul>
Uneven colors	Adjust and configure WHITE BAL.

Problem	Solution
Flickering	The camera may be facing the sun or a fluorescent light. Adjust the position of the camera.
Can't select LL mode	The camera may be connected to a DC power source. Connect to an AC power source.
LL is not function properly.	Check external SYNC signal frequency (should be 60Hz for NTSC, 50Hz for PAL).

# Specifications

		NTSC (SDZ-330N) PAL (SDZ-330P)					
Р	Input Voltage	DC12V	(±10%)				
0 W	Input Current	300 mA : S	teady-state				
E		450 mA : Max. (Zoom,Focus,	Day&night motor operating)				
R	Power Consumption	3.6 W : St	eady-state				
С	Size	1/4 inch, Vertical doub	le density interline CCD				
Č	Total Pixels	811(H) x 508(V)	795(H) x 596(V)				
D	Effective Pixels	768(H) x 494(V)	752(H) x 582(V)				
Q	Optics	30X, f=3.3 to 99.0	Omm (F 1.6 to 3.2)				
	Min. Focus Distance	1000	)mm				
L C	D. ZOOM	X2, X	(4, X8				
Š	Angle Field of view	H : Appr. 58.0 (Wide) to 2.22 (Tele)	V : Appr. 44.8 (Wide) to 1.68 (Tele)				
S	Scanning System	2:1 Interlace					
S y n	Synchronization	Internal / Line Lock					
C.	Frequency	Horizontal: 15.734 KHz/Vertical : 59.94 Hz Horizontal: 15.625 KHz/Vertical					
	Camera Title	ON/OFF (Displayed 20 characters)					
	Camera ID	255 ID Selectable					
	Resolution	520 TV Lines(Min.) : Color 570 TV Lines(Min.) : B/W					
	Video Output	CVBS : 1.0	)Vp-p/75Ω				
	S/N (Y signal)	50 dB (AGC O	ff, Weight ON)				
	Min. Illumination	0.4Lux : Color	0.08Lux : B/W				
E	WDR	52	dB				
Ē	Day & Night	AUTO/MANUAL(CO	LOR, B/W) (ICR type)				
E C T	Gain Control	Low, Middle, Hig	h,OFF Selectable				
	White Balance	ATW/AWC/Manual	(1800 <sup>·</sup> K ~ 10,500 <sup>·</sup> K)				
R I C	Electronic shutter speed	AUTO/MANUAL (X128 ~ 1/60sec ~ 1/120,000sec) Sens-up Limit is selectable	AUTO/MANUAL (X128 ~1/50sec ~ 1/120,000sec) Sens-up Limit is selectable				
A	O.S.D	Bui	lt-In				
L	Motion Detection	ON/OFF (outpu	ut via Terminal)				
	SSNR	Low, Middle, High,Off					
	Focus	Auto / Manual / One Push					
	Zoom Movement Speed	d 5.2 Sec : Wide to Tele 5.4 Sec : Wide to Te					
	Lens Initialize	Bui	lt-In				
	Preset	8-Pos	sitions				
	Privacy Function	ON/OFF(32 Programmable Zone/	8 Programmable Zone per Screen)				

		NTSC (SDZ-330N)	PAL (SDZ-330P)				
E	FLIP	LEFT/RIGHT, UP/DOWN					
L	FREEZE	On/Off					
E L E C T R I C A L	IRIS Control	Auto/Manual					
Contr	ol Output	Output RS-485(9,600bps, 19,200bps, 384,000bps Seclecta					
		/ External Control by V	/oltage(ZOOM,FOCUS)				
Opera	ting Temperature/Humidity	-10°C to +50°C /	20% to 80% RH				
Storg	e Temperature/Humidity	-20°C to +60°C / 20% to 95% RH					
Dimer	nsion	67.4(W) x 67.6(H) x 120(D)mm (Without Tripod Base)					
Weigh	nt	450g					
Optio	ption Remote Controller(RS-485 type)						

# Protocol Command Description

Command Name		Byte1	Byte2	Byte3	Byte4    Byte5	Byte6	Byte7	Byte8	Byte9	Byte10	Byte11	
	Function	Execution	Description.									
	Command Packet	STX	CAM ID	HOST ADDR	Command	Data3	Data4	Data5	Data6	ETX	CHECK SUM	
	Return Packet	STX	CAM ID	HOST ADDR	Response	Data3	Data4	Data5	Data6	ETX	CHECK SUM	
Reset	Function	Reset all da	Reset all data to factory default value.									
	Command Packet	A0h	CAM ID	HOST ADDR	000Fh	00h	00h	00h	00h	AFh	CHECK SUM	
	Return Packet	A0h	CAM ID	HOST ADDR	000Fh	00h	00h	00h	00h	AFh	CHECK SUM	
Focus Far	Function	Move focu	s lens to far d	irection.								
	Command Packet	A0h	CAM ID	HOST ADDR	0100h	00h	00h	00h	00h	AFh	CHECK SUM	
	Return Packet	A0h	CAM ID	HOST ADDR	0100h	00h	00h	00h	00h	AFh	CHECK SUM	
Focus Near	Function	Move focu	s lens to near	direction.								
	Command Packet	A0h	CAM ID	HOST ADDR	0200h	00h	00h	00h	00h	AFh	CHECK SUM	
	Return Packet	A0h	CAM ID	HOST ADDR	0200h	00h	00h	00h	00h	AFh	CHECK SUM	
Zoom Wide	Function	Move zoor	Move zoom lens to wide direction.									
	Command Packet	A0h	CAM ID	HOST ADDR	0040h	00h	00h	00h	00h	AFh	CHECK SUM	
	Return Packet	A0h	CAM ID	HOST ADDR	0040h	00h	00h	00h	00h	AFh	CHECK SUM	
Zoom Tele	Function	Move wide	Move wide lens to tele direction.									
	Command Packet	A0h	CAM ID	HOST ADDR	0020h	00h	00h	00h	00h	AFh	CHECK SUM	
	Return Packet	A0h	CAM ID	HOST ADDR	0020h	00h	00h	00h	00h	AFh	CHECK SUM	
AF Stop	Function	Stop zoom	Stop zoom & focus lens moving.									
	Command Packet	A0h	CAM ID	HOST ADDR	0000h	00h	00h	00h	00h	AFh	CHECK SUM	
	Return Packet	A0h	CAM ID	HOST ADDR	0000h	00h	00h	00h	00h	AFh	CHECK SUM	
One push AF	Function	Unconditio	Unconditionally execute auto focus.									
	Command Packet	A0h	CAM ID	HOST ADDR	0045h	00h	00h	00h	00h	AFh	CHECK SUM	
	Return Packet	A0h	CAM ID	HOST ADDR	0045h	00h	00h	00h	00h	AFh	CHECK SUM	
ZOOM Direct	Function	Move to ZO	OM position th	at is set up by users			•					
	Command Packet	A0h	CAM ID	HOST ADDR	00FFh	P1	P2	P3	00h	AFh	CHECK SUM	
	Return Packet	A0h	CAM ID	HOST ADDR	00FFh	P1	P2	P3	00h	AFh	CHECK SUM	
	Parameter	P1, P2 : ZO	OM position s	et (0000h~06EAh)								
		P3 : D-ZO0	OM position s	et(00h~03h)								
USER PRESET Save	Function	Save current	user preset confi	guration information.								
	Command Packet	A0h	CAM ID	HOST ADDR	0003h	P1	00h	00h	00h	AFh	CHECK SUM	
	Return Packet	A0h	CAM ID	HOST ADDR	0003h	P1	00h	00h	00h	AFh	CHECK SUM	

# Protocol Command Description

	Parameter	P1: 00h =	USER PRESE	T 1									
		01h = US	ER PRESET 2										
		02h = US	ER PRESET 3										
		03h = US	ER PRESET 4										
		04h = US	ER PRESET 5										
		05h = USER PRESET 6 06h = USER PRESET 7											
		07h = US	ER PRESET 8										
USER PRESET EXEC.	Function	Execute s	Execute selected user preset.										
	Command Packet	A0h	CAM ID	HOST ADDR	0007h	P1	00h	00h	00h	AFh	CHECK SUM		
	Return Packet	A0h	CAM ID	HOST ADDR	0007h	P1	00h	00h	00h	AFh	CHECK SUM		
	Parameter	P1: 00h = USER PRESET 1											
		01h = USER PRESET 2											
		02h = USER PRESET 3											
		03h = USER PRESET 4											
		04h = US	04h = USER PRESET 5										
		05h = US	05h = USER PRESET 6										
		06h = US	SER PRESET 7										
		07h = US	07h = USER PRESET 8										
OSD Menu On/Off	Function	Display C	SD menu on	the screen.									
		Clear OS	D menu and s	ave current menu se	etup.								
	Command Packet	A0h	CAM ID	HOST ADDR	00B1h	P1	00h	00h	00h	AFh	CHECK SUM		
	Return Packet	A0h	CAM ID	HOST ADDR	00B1h	P1	00h	00h	00h	AFh	CHECK SUM		
	Parameter	P1: 00h =	= ON										
		01h = 0l	FF										
OSD Menu Up	Function	Move OS	SD arrow to u	p.									
	Command Packet	A0h	CAM ID	HOST ADDR	0008h	00h	00h	00h	00h	AFh	CHECK SUM		
	Return Packet	A0h	CAM ID	HOST ADDR	0008h	00h	00h	00h	00h	AFh	CHECK SUM		

# Protocol Command Description

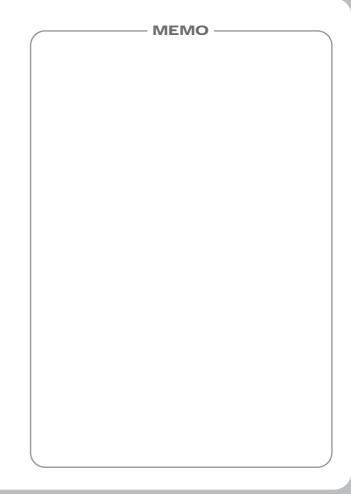
OSD Menu Down	Function	Move OSD	arrow to do	wn.							
	Command Packet	A0h	CAM ID	HOST ADDR	0010h	00h	00h	00h	00h	AFh	CHECK SUM
	Return Packet	A0h	CAM ID	HOST ADDR	0010h	00h	00h	00h	00h	AFh	CHECK SUM
OSD Menu Left	Function	Move OSD	arrow to left		•						·
	Command Packet	A0h	CAM ID	HOST ADDR	0004h	00h	00h	00h	00h	AFh	CHECK SUM
	Return Packet	A0h	CAM ID	HOST ADDR	0004h	00h	00h	00h	00h	AFh	CHECK SUM
OSD Menu Right	Function	Move OSD arrow to right.									
	Command Packet	A0h	CAM ID	HOST ADDR	0002h	00h	00h	00h	00h	AFh	CHECK SUM
	Return Packet	A0h	CAM ID	HOST ADDR	0002h	00h	00h	00h	00h	AFh	CHECK SUM
OSD Menu Set	Functio	Move to in	iside menu								
	Command Packet	A0h	CAM ID	HOST ADDR	0100h	00h	00h	00h	00h	AFh	CHECK SUM
	Return Packet	A0h	CAM ID	HOST ADDR	0100h	00h	00h	00h	00h	AFh	CHECK SUM
OSD Menu ESC	Function	Move to upper menu.									
	Command Packet	A0h	CAM ID	HOST ADDR	0200h	00h	00h	00h	00h	AFh	CHECK SUM
	Return Packet	A0h	CAM ID	HOST ADDR	0200h	00h	00h	00h	00h	AFh	CHECK SUM

## DECLARATION OF CONFORMITY

Application of Council Directive(s)	89 / 336 / EEC
Manufacturer's Name	SAMSUNG TECHWIN CO., LTD
Manufacturer's Address	SAMSUNG TECHWIN CO., LTD
	42, SUNGJU-DONG CHANGWON-CITY,
	KYUNGNAM, KOREA, 641-120
European Representative Name	
European Representative Address	
Equipment Type/Environment	CCTV Camera
Model Name	SDZ-330
Beginning Serial NO.	S5900001
Year of Manufacture	2005. 9. 1
Conformance to	EN 50081-1 : 1992
	EMC-Directive 89/336 EEC and 92/31/EEC
	EN 50130-4 : 1996

We, the undersigned, hereby declare that the equipment specified above conforms to the above Directive(s).

Manufacturer	SAMSUNG TECHWIN CO., LTD	Legal Representative in Europe
Signature	Young Tack, SCN	Signature
Full Name	YOUNG TAEK SON	Full Name
Position	QUALITY CONTROL MANAGER	Position
Place	CHANGWON, KOREA	Place
Date	2005. 9. 1	Date



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