### Specification

Model	SMC-A130SL20C	
Pick up Element	1/3" Aptina 1.3MP CMOS Sensor	
Effective Picture Elements (H×V)	1280 X960	
Resolution	960P	
Minimum Illumination	0.001 Lux/F1.2	
S/N Ratio	More than 50dB	
Synchronous System	Internal, Negative sync.	
IR Distance	20 Meters (with Φ5X24PCS Infrared LED)	
IR Power On	Photodiode AUTO Control	
Video Output	CVI	
Functions	WDR,3DNR,UTC	
Power/Current	DC12V(+/-10%)/500mA	
Lens	Board Lens 3.6mm	
IP Rating	IP Rating /	
Dimension (mm)	Ф94 x 69(H)	
Weight (g)	ı) 450	
Operating Tempera- ture -10~+50 RH95% MAX		

## **Accessories list**

Name	Number
Camera	1
User Guide	1

### Notes:

Do not attempt to disassemble the camera. If the camera can not work, please contact local franchiser or our company.

# **CCTV Camera**



### Vandalproof IR Dome Camera



Thank you for using our product. Before providing power for the camera, please read this manual carefully before use.

We adopt the latest technical of sensor and driver. It owns the characters of high definition and stability, strong anti-jamming, rich and real color. Fixing and using this model are convenient too. It is very good for you to apply to your CCTV system.

### **Main Features**

#### > Auto Gain Control (AGC)

Built-in auto gain control **(AGC)** circuit. The color camera can get high definition picture in low Lux condition.

#### > Auto Electronic Shutter (AES)

Built-in auto electronic shutter function. The color camera's AES speed can reach 1/100,000s.

#### > Gama Characteristic

Camera Gama characteristic is 0.45.

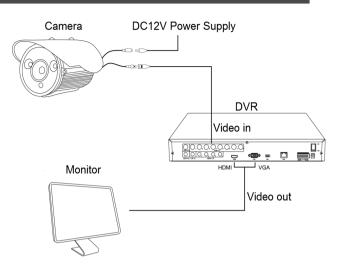
#### > Scanning Mode

NTSC or PAL mode.

#### > OSD MENU

MIRROR OFF/ON FLIP OFF/ON		3D-NR	AUTO/MANUAL			
AE MODE GLOBAL/CENTER/CENTER WEIG/ BACK LIGHT/FRONT LIGHT/ DISTINGUISH/INTELLIGENT BRIGHTNESS 0-250 SHUTTER CONTROL AUTO/MANUAL(0-8) GAIN CON- AUTO/MANUAL(0-8) GAIN CON- AUTO/MANUAL(0-815 TROL AWB-TEMP AWB-AI WB MANUAL:R-GAIN/G-GAIN/B-GAIN AWB-GW AWB-GW AWB-GW AWB-GW AWB-GR GREEN/MAGENT/FELOW/CYAN/ GREEN/MAGENTA/RED/BLUE/BLACK GREEN/MAGENTA/RED/BLUE/BLACK STATUS:OFF/ON AREA NO.1-8 HORIZON MOVE/VERTICAL SIZE HORIZON MOVE/VERTICAL SIZE HORIZON MOVE/VERTICAL SIZE HORIZON MOVE/VERTICAL SIZE HORIZON SIZE/VERTICAL SIZE		WDR	ON/OFF			
AE MODE BACK LIGHT/FRONT LIGHT/ DISTINGUISH/INTELLIGENT BRIGHTNESS 0-250 SURE CONTROL BRIGHTNESS 0-250 SHUTTER CONTROL AUTO/MANUAL(0-8) GAIN CON- TROL AWB-TEMP AWB-AI WB MANUAL:R-GAIN/G-GAIN/B-GAIN WB MANUAL:R-GAIN/G-GAIN/B-GAIN WB SHARPNESS DETAIL/EDGE CONTRAST AUTO/MANUAL COLOR GREEN/MAGENTA/RED/BLUE/BLACK SATURATTON AUTO/MANUAL COLOR GREEN/MAGENTA/RED/BLUE/BLACK SATURATTON AUTO/MANUAL MOSAIC/WHITE/YELLOW/CYAN/ GREEN/MAGENTA/RED/BLUE/BLACK SATURATTON AUTO/MANUAL MOSAIC/WHITE/YELLOW/CYAN/ GREEN/MAGENTA/RED/BLUE/BLACK SATURATTON AUTO/MANUAL MOSAIC/WHITE/YELLOW/CYAN/ GREEN/MAGENTA/RED/BLUE/BLACK SATURATTON AUTO/MANUAL MOSAIC/WHITE/YELLOW/CYAN/ GREEN/MAGENTA/RED/BLUE/BLACK STATUS:OFF/ON AREA NO.1-8 HORIZON SIZE/VERTICAL SIZE HORIZON MOVE/VERTICAL MOVE MIRROR OFF/ON FLIP OFF/ON FLIP OFF/ON DAY&NIGHT EXTERNAL/COLOR/B&W/AUTO VIDEO STANDARD LANGUAGE ENGLISH/ITALIAN/FRENCH/RUSSIAN/CHINESE LOAD DE- SOFT VER- SAVE&EXIT	IMAGE	IRIS	MANUAL/AUTO/CLOSE/OPEN			
IMAGE SURE CONTROL SHUTTER CONTROL AUTO/MANUAL(0-8) SHUTTER CONTROL AUTO/MANUAL(0-8) GAIN CONTROL AWB-TEMP AWB-TEMP AWB-AI WB MANUAL:R-GAIN/G-GAIN/B-GAIN AWB-GW AWB-PRO AWB-PRO IMAGE CONTRAST AUTO/MANUAL/GAIN MAP SATURATTON AUTO/MANUAL/GAIN MAP SATUS:OFF/ON MOSAIC/WHITE/YELLOW/CYAN/ GREEN/MAGENTA/REA NO.1-8 HORIZON SIZE/VERTICAL SIZE HORIZON MOVE/VERTICAL MOVE MIRROR STATUS:OFF/ON FLIP COLOR:WHITE/YELLOW/CYAN/ GREEN/MAGENTA HORIZON SIZE/VERTICAL SIZE HORIZON MOVE/VERTICAL SIZE HORIZON MOVE		SURE	AE MODE	BACK LIGHT/FRONT LIGHT/		
IMAGE CONTROL SHUTTER CONTROL AUTO/MANUAL(0-8) GAIN CON- TROL AWB-TEMP AWB-AI AWB-AI WB MANUAL:R-GAIN/G-GAIN/B-GAIN AWB-GW AWB-PRO IMAGE ENHANCE SATURATTON AUTO/MANUAL/GAIN MAP SATURATTON AUTO/MANUAL/GAIN MAP SATURATTON AUTO/MANUAL/GAIN MAP SATURATTON AUTO/MANUAL AUTO/MANUAL SATURATTON AUTO/MANUAL AUTO/MANUAL AUTO/MANUAL SATURATTON AUTO/MANUAL AUTO/MANUAL SATURATTON AUTO/MANUAL AUTO/MANUAL SATURATTON AUTO/MANUAL AUTO/MANUAL SATURATTON AUTO/MANUAL AUTO/MANUAL AUTO/MANUAL AUTO/MANUAL AUTO/MANUAL AUTO/MANUAL AUTO/MANUAL AUTO/MANUAL SATURATTON AUTO/MANUAL AUTO/MANUAL AUTO/MANUAL SATURATTON AUTO/MANUAL AUTO			BRIGHTNESS			
AUTOMANUAL (0-815 TROL AUTOMANUAL (0-815 AWB-TEMP AWB-AI AWB-AI AWB-AI AWB-QW AWB-PRO AUTO/MANUAL AWDO AREA NO.1-8 AREA NO.1-4 AREA NO.			CONTROL	AUTO/MANUAL(0-8)		
AWB-AI WB AWB-AI WB AWB-AI MANUAL:R-GAIN/G-GAIN/B-GAIN AWB-QW AWB-PRO AWB-PRO SHARPNESS DETAIL/EDGE CONTRAST AUTO/MANUAL/GAIN MAP SATURATTON AUTO/MANUAL/GAIN MAP SATURATTON AUTO/MANUAL/GAIN MAP SATURATTON AUTO/MANUAL/GAIN MAP COLOR COLOR MOSAIC/WHITE/YELLOW/CYAN/ GREEN/MAGENTA/RED/BLUE/BLACK STATUS:OFF/ON AREA NO.1-8 HORIZON MOVE/VERTICAL SIZE HORIZON MOVE/VERTICAL SIZE HORIZON MOVE/VERTICAL SIZE HORIZON MOVE/VERTICAL SIZE HORIZON MOVE/VERTICAL SIZE HORIZON MOVE/VERTICAL SIZE HORIZON MOVE/VERTICAL MOVE MIRROR SENSITIVITY HIGH/MIDDLE/LOW/CYAN/ GREEN/MAGENTA HORIZON SIZE/VERTICAL SIZE HORIZON MOVE/VERTICAL SIZE HORIZON MOVE/VERTICAL MOVE MIRROR OFF/ON FLIP OFF/ON FLIP OFF/ON FLIP OFF/ON LANGE ENGLISH/ITALIAN/FRENCH/RUSSIAN/CHINESE LOAD DE- SOFT VER- SAVE&EXIT						
WB         MANUAL:R-GAIN/G-GAIN/B-GAIN           AWB-GW         AWB-GW           AWB-PRO         AWB-PRO           IMAGE ENHANCE         SHARPNESS         DETAIL/EDGE           CONTRAST         AUTO/MANUAL/GAIN MAP           SATURATTON         AUTO/MANUAL           AWB-PRO         MOSAIC/WHITE/YELLOW/CYAN/ GREEN/MAGENTA/RED/BLUE/BLACK           ABVANCED         COLOR         MOSAIC/WHITE/YELLOW/CYAN/ GREEN/MAGENTA/RED/BLUE/BLACK           AREA NO.1-8         STATUS:OFF/ON           MOTION DETEC- TION         SENSITIVITY         HIGH/MIDDLE/LOW/VEAK           MOTION DETEC- TION         SENSITIVITY         HIGH/MIDDLE/LOW/CYAN/ GREEN/MAGENTA           MIRROR         COLOR:WHITE/YELLOW/CYAN/ GREEN/MAGENTA         HORIZON MOVE/VERTICAL SIZE HORIZON MOVE/VERTICAL SIZE HORIZON MOVE/VERTICAL SIZE HORIZON MOVE/VERTICAL SIZE HORIZON MOVE/VERTICAL SIZE           MIRROR         OFF/ON         EXTERNAL/COLOR/B&W/AUTO           VIDEO STANDARD         T20P-25/720P-30         LANGUAGE           LANGUAGE         ENGLISH/ITALIAN/FRENCH/RUSSIAN/CHINESE         LOAD DE-           SOFT VER-         SAVE&EXIT         SAVE&EXIT		WB				
ADVANCED ADV			AWB-AI			
ADVANCED ADV			MANUAL:R-GAIN/G-GAIN/B-GAIN			
ADVANCED ADV			AWB-GW			
IMAGE ENHANCE ENHANCE ADVANCED			AWB-PRO			
ADVANCED ADV		IMAGE		·		
ADVANCED ADV			CONTRAST	AUTO/MANUAL/GAIN MAP		
ADVANCED ADV			SATURATTON			
ADVANCED ADV			COLOR			
ADVANCED ADV			AREA NO.1-8			
ADVANCED MOTION DETEC- TION AREA NO.1-4 STATUS:OFF/ON COLOR:WHITE/YELLOW/CYAN/ GREEN/MAGENTA HORIZON SIZE/VERTICAL SIZE HORIZON MOVE/VERTICAL SIZE HORIZON SIZE/VERTICAL SIZE SIZE SOFT VER- SAVE&EXIT						
ADVANCED MOTION DETEC- TION AREA NO.1-4 COLOR:WHITE/YELLOW/CYAN/ GREEN/MAGENTA HORIZON SIZE/VERTICAL SIZE HORIZON MOVE/VERTICAL SIZE HORIZON SIZE/VERTICAL SIZE HORIZON SIZE/VERTICAL SIZE SOFT VER- SAVE&EXIT		DETEC-	SENSITIVITY			
DETEC- TION AREA NO.1-4 COLOR:WHITE/YELLOW/CYAN/ GREEN/MAGENTA HORIZON SIZE/VERTICAL SIZE HORIZON MOVE/VERTICAL SIZE HORIZON MOVE/VERTICAL MOVE MIRROR OFF/ON FLIP OFF/ON DAY&NIGHT EXTERNAL/COLOR/B&W/AUTO VIDEO STANDARD 720P-25/720P-30 LANGUAGE ENGLISH/ITALIAN/FRENCH/RUSSIAN/CHINESE LOAD DE- SOFT VER- SAVE&EXIT	ADVANCED					
HORIZON SIZE/VERTICAL SIZE HORIZON MOVE/VERTICAL SIZE HORIZON MOVE/VERTICAL MOVE MIRROR OFF/ON FLIP OFF/ON DAY&NIGHT EXTERNAL/COLOR/B&W/AUTO VIDEO STANDARD 720P-25/720P-30 LANGUAGE ENGLISH/ITALIAN/FRENCH/RUSSIAN/CHINESE LOAD DE- SOFT VER- SAVE&EXIT			AREA NO.1-4	GREEN/MAGENTA		
FLIP         OFF/ON           DAY&NIGHT         EXTERNAL/COLOR/B&W/AUTO           VIDEO STANDARD         720P-25/720P-30           LANGUAGE         ENGLISH/ITALIAN/FRENCH/RUSSIAN/CHINESE           LOAD DE-         SOFT VER-           SAVE&EXIT						
DAY&NIGHT EXTERNAL/COLOR/B&W/AUTO VIDEO STANDARD 720P-25/720P-30 LANGUAGE ENGLISH/ITALIAN/FRENCH/RUSSIAN/CHINESE LOAD DE- SOFT VER- SAVE&EXIT		MIRROR	OFF/ON			
VIDEO     720P-25/720P-30       LANGUAGE     ENGLISH/ITALIAN/FRENCH/RUSSIAN/CHINESE       LOAD DE-     SOFT VER-       SAVE&EXIT     SAVE&EXIT		FLIP	OFF/ON			
STANDARD     720P-25/720P-30       LANGUAGE     ENGLISH/ITALIAN/FRENCH/RUSSIAN/CHINESE       LOAD DE-     SOFT VER-       SAVE&EXIT     SAVE&EXIT	DAY&NIGHT	EXTERNAL/COLOR/B&W/AUTO				
LOAD DE- SOFT VER- SAVE&EXIT		720P-25/720P-30				
SOFT VER- SAVE&EXIT	LANGUAGE	ENGLISH/ITALIAN/FRENCH/RUSSIAN/CHINESE				
SAVE&EXIT	LOAD DE-					
	SOFT VER-					
EXIT						
	EXIT					

### **Device connection**



# Safety instruction

- 1.Before using the camera ,please read this manual carefully and keep it safely for later use.
- 2.Installation should be proceed by professional service and follow manufacturer's instructions, do not dismantle without authoriza tion.
- 3.In order to prevent sensor ,do not expose lens to intense light source in long time.
- 4.Do not touch sensor directly. Please covers the dustproof cover when the camera is not being used.
- 5.Please use a dry soft cloth to clean the camera. If dirt difficult to clean, use detergent with water and wipe dry the camera.
- 6.Do not install camera under air conditioning's air gate ,or else lens blur with condensation of moisture.
- 7.Please ensure that all electric power sources are turned off when not open , installation ,clean, etc operation.
- 8.Please transporting , using and storing the camera in allowable temperature and humidity.
- 9.If the camera was broken, for example power cord or plug damaged,Splash liquid or foreign matter fall into camera, raining, wetting, etc can't work situation, please contact manufacturer or maintenance center (modify and maintenance without perm ission, you must be responsible for the problems).

# **Common Problems and Troubleshooting**

### > No Picture after providing power

May be the power supply voltage abnormity, please check he power supply voltage and pole whether exactitude. Please check all the connecting cable and monitors whether be connected correctly or not.

> The picture level direction have flowing interference ripples

May be caused by the power supply AC ripples, it need filter the wave of the power supply.

Check the monitor and peripheral equipments used.

- > The picture background color changes continuously The fluorescent lamp's electromagnetic field cause color roll. This is proper phenomenon of the cameras. Reduce the fluorescent lamp numbers or increase the distance between the camera and the fluorescent lamps can improve it.
  - Use power supply external sync. camera can solve it.
- > The picture smear too mass

The power supply's voltage unstable. Connecting cables not connect correctly or have high impedance.



- Power supply must pass safety certification , Its output voltage, current, voltage polarity and operating temperature must match requirement of this equipment.
- Please install lightning protection devices or cut off the power in thunder and lightning conditions.
- To capture high-quality video and pictures, please make sure the network connection is stable and smooth.
- Please note the camera's operating temperature and its using environment requirement. Avoid using the camera at too high or too low temperatures. The operating tem-

perature is -30~+60 °C. (Recommendatory operating tem-

perature is -10~+50 °C.)

• Do not mount the camera near by the radiator or heater.