

Before operating this unit, please read this manual thoroughly and retain it for future reference.

## User's Manual

# **GKB 81 Series AHD Camera**

1080P Quick Guide

## General

Thank you for using our products, Before use, please read this manual carefully to ensure correct use of this series of products. Please keep the manual properly for future use. This series of camera take high – sensitivity CMOS as the image sensor, all circuits have long work life and high reliability.

Excellent image will be your best chose camera. If you had problem when using our products, please contact with our technical support.

## Features

- High definition CMOS progressive scan sensor.
- Support AHD high definition transfer
- BNC(75 ohms)output
- 1080P@25/1080P @30
- Support OSD menu ,On Screen Display (Option)
- DC 12V/AC 24V power supplier (Option)
- Adopt 3D-DNR, better low light quality
- Support ICR auto switch
- Support 960H analog output

## Connecting your camera

### Video out :

Connect the video out of the camera to the monitor or other video equipments with a 75 ohm cable.

### Connecting the power :

Before connecting your power supply, please make sure it's the correct one(12V).Please is connect by two wires. Make sure you plug the power in the right direction "+12V"=" + " , "GND" = " - " .

### Connection RS485 (Option) :

If you want to connect an external control device or a DVR stand alone.

You can connect the two wires to the RS485 on the Terminal Block . Make sure to connect+/- in the right sockets (" + "is the first one from the left and " - " in the one after.

Model.		Without Auto IRIS	Auto IRIS Lens
Video	Image Sensor	1/2.9" SONY CMOS:2.0 Mega	
	Effective Pixels	1920(H) x 1080(V)	
	Resolution	AHD 1080P or 1280H	
	Electronic Shutter	Auto 1/60 (1/50) ~ 1/50,000 sec / FLK	
	Video Output	AHD or CVBS,V1.0p-p,75Ω	
	Sync System	Internal	
	S/N Ratio	More than 42dB	
	OSD	Option	
	Brightness	0 - 100 Levels	
	Sens – up	OFF/X2 - X30	
	AGC	0 - 15 Levels	
	White Balance	ATW/AWC → SET/INDOOR/ OUTDOOR/MANUAL/AWB	
	Backlight	OFF/BLC/HSBLC	
	Day/Night Mode	EXT /AUTO/CLCOR/BW	
	ICR	YES	
	IR Smart	OFF/0 - 15 Levels	
	2DNR/3DNR	OFF/LOW/MIDDEL/HIGH	
	Sharpness	OFF/0 - 10 Levels	
	FREEZE	ON/OFF	
	DWDR	OFF/0 - 8 Levels	
Motion Detection	4 Areas		
Video Out	PAL/NTSC		
Power	Power Supply	DC 12V	DC 12 / AC 24V
Operating Temperature		-10°C ~ 50°C	

## Button Introduction

- The button provides five separate actions: UP, DOWN, ENTER, RIGHT and LEFT.
- **Press RIGHT 5 seconds : 960H change to AHD mode.**
- **Press LEFT 5 seconds : AHD change to 960H mode.**
- **Press DOWN 5 seconds : switch NTSC/PAL.**
- Press ENTER to go to the OSD menu page. Into menu page press UP, DOWN, RIGHT or LEFT to select items on the menu and begin configuration.

Main MENU		Second MENU		Third MENU		Fourth MENU	
LENS	MANUAL						
EXPOSURE		SHUTTER	AUTO,1/30,1/60,FLK, 1/240,1/480,1/1000, 1/2000,1/5000, 1/10000,1/50000, 2,4,6,8,10,15,20,25,30				
		AGC	0-15				
		SENS-UP	OFF				
			AUTO	SENS-UP	x2 ~ x30		
		BRIGHTNESS	0-100				
		D-WDR	OFF				
			ON	LEVEL	0 ~ 8		
			AUTO				
		DEFOG	OFF				
			AUTO		POS/SIZE		
GRADATION	0-2						
			DEFAULT				
BACKLIGHT	OFF						
	BLC	LEVEL	LOW/MIDDLE/HIGH				
			AREA DEFAULT				
	HSBLC	SELECT	AREA 1 ~ 4				
		DISPLAY	OFF/ON				
		BLACK MASK	OFF/ON				
		LEVEL	0-100				
		MODE	ALLDAY				
NIGHT	AGC LEVEL		0 ~255				
		DEFAULT					
WHITE BAL	ATW						
	AWC-->SET						
	INDOOR						
	OUTDOOR						
	MANUAL	BLUE	0 ~ 100				
		RED	0 ~ 100				
AWB							

Main MENU		Second MENU		Third MENU		Fourth MENU		
DAY & NIGHT	EXT	D→N (DELAY)	0 ~ 60					
		N→D (DELAY)	0 ~ 60					
	AUTO	D→N (AGC)	1 ~ 255					
		D→N (DELAY)	0 ~ 60					
		N→D (AGC)	1 ~ 255					
		N→D (DELAY)	0 ~ 60					
	COLOR							
	BW	BURST	OFF/ON					
		IR SMART	OFF/ON	LEVEL	0-15			
AREA								
IR PWM	0-100							
NR	2DNR	OFF /LOW/ MIDDLE/ HIGH						
	3DNR	OFF /LOW/ MIDDLE/ HIGH						
SPECIAL	CAMTITLE	OFF/ON						
	D-EFFECT		FREEZE	OFF/ON				
			MIRROR	OFF/ MIRROR/ VFLIP/ ROTATE				
			NEG_IMAGE	OFF/ON				
	MOTION		OFF/ON	SELECT	AREA 1 ~ 4			
				DISPLAY	OFF/ON			
				SENSITIVITY	0-100			
				COLOR	R/G/B/W			
				TRANS	0.25 ~ 1.00			
				ALARM	VIEW TYPE	OFF/ BLOCK/ OUTLINE/ ALL		
				OSD VIEW	OFF/ON			
	ALARM OUT	OFF/ON						
	ALARM SIG	LOW/HIGH						
	TIME	1-15						
	PRIVACY		OFF/ON	DEFAULT				
				SELECT	AREA 1~ 4			
				DISPLAY	OFF/ MOSAIC/ INV/ COLOR			
				COLOR	W/B/R/B/Y/ G/C			
				TRANS	0.25 ~ 1.00			
				DEFAULT				

Main MENU		Second MENU		Third MENU		Fourth MENU			
SPECIAL	LANGUAGE		ENG/CHN1/CHN2/GER/FRE/ITA/ SPA/POL/RUS/POR/DUT/TUR						
	DEFFECT		LIVE DPC	OFF/ON	AGC LEVEL	0 ~ 255			
					LEVEL	0 ~ 100			
			WHITE DPC	OFF/ON	POS/SIZE				
					START				
					DPC VIEW	OFF/ON			
					LEVEL	0 ~ 60			
					AGC	0~14			
					SENS-UP	x2 ~ x30			
	BLACK		DPC	OFF					
			LEVEL	0~255					
	RS485		CAM ID	0~255					
ID DISPLAY			OFF/ON						
BAUDRATE			2400/4800						
			/ 9600/ 19200/ 38400						
ADJUST	SHARPNESS	OFF/ AUTO	LEVEL	0~10					
			START AGC	0~255					
			END AGC	0~255					
	MONITOR	CRT	BLACK LEVEL	0~60					
			BLUE GAIN	0~100					
			RED GAIN	0~100					
		LCD	GAMMA	0.45 ~ 1.00					
			BLUE GAIN	0~100					
			RED GAIN	0~100					
	LSC	OFF/ON							
	VIDEO OUT	PAL/ NTSC							
	EXIT	SAVE&END RESET NO SAVE							

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