

AIR701/IRH

Weatherproof Zoom Colour/Mono IR Camera

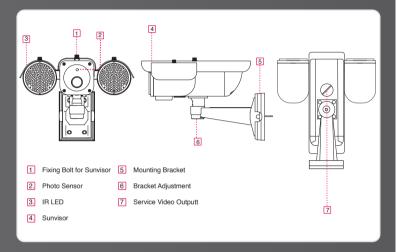
USER MANUAL



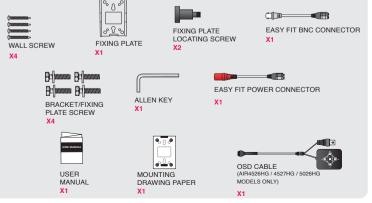




The Concept Pro AIR701/IRH is a weatherproof IR camera, suitable for monitoring areas in hostile conditions and in low light.







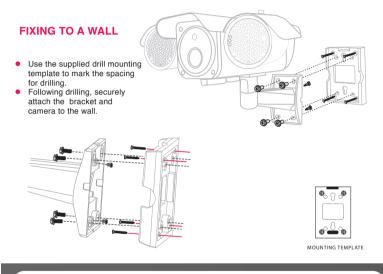
- This installation should be made by a qualified service person and should abide to all local codes.
- In order to prevent electronic shock and/or destroy waterproof seals, do not loosen any screws on the camera body.
- 3. Adjust the sunshield cover to avoid exposure of direct sunlight on the lens.
- Do not touch the front glass directly. If necessary, use a soft cloth moistened with alcohol to wipe off dust or debris.
- 5. Avoid installation on a surface subjected to frequent vibration or shocks.
- 6. Do not operate the camera beyond its temperature range or power source ratings.
- Should any damage or suspected damage occur, shutdown the power source, unplug and contact your service provider.
- Do not install the camera under unstable lighting conditions. Severe lighting change or flicker can cause the camera to work improperly.
- 9. Never use the camera close to a gas or oil leak.
- 10. Do not disassemble the camera.
- Do not drop the camera or subject the unit to physical shocks. Never keep the camera face to strong light directly, this can damage the CCD.
- 12. Ensure all removable covers are replaced to protect the inner components.
- 13. Do not install near devices which emit a strong electro-magnetic field.
- 14. Use a dry or damp cloth only for cleaning.

PLEASE FOLLOW THE ABOVE CAUTIONS – FAILURE TO DO SO MAY INVALIDATE THE WARRANTY OR CAUSE SERIOUS INJURY

Remark: Changes or modifications not expressly approved by the manufacturer can cause the camera to be damaged and become inoperable. This may invalidate the user warranty. Important: Ensure all cautionary procedures are observed during installation.

It is recommended the camera is tested during the most demanding environmental conditions such as low light or bright sunlight to ensure continuity of effective CCTV monitoring. You may find the use of an ND filter helpful.

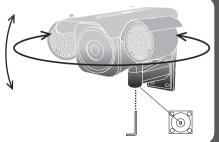
Remove the camera unit carefully from the box, reserving the accessory contents in a safe place.



POSITIONING

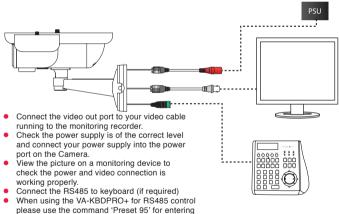
Point the Camera towards the intended area to be monitored.





CONNECTION



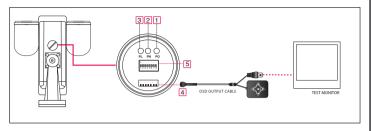


the menu and again for entering sub-menus

Troubleshooting

- Ensure all power and cable connections are correct with the Camera, DVR and Test monitor or Telemetry devices if used.
- Power Voltage Check Remove the OSD cover to see if the green correct power LED is lit. If there red LED is lit the power voltage is too high. If the yellow LED is lit the power voltage is not high enough. If there are no LEDs lit there is no power getting to the camera
- If all power and cable connections are correct and the camera picture can not be produced or configured then contact your supplier for technical support.

The Service Video Out panel contains a power indicator and test monitor connection for ease of adjusting the camera settings during installation.



The power indicator LEDs display the power supply being fed into the camera and whether it is too high, low or correct.

- 1. "PO": Red LED Voltage is too high
- "PN": Green LED Voltage is correct
- 3. "PL": Yellow LED Voltage is too low
- 4. Extra video out and OSD Connector Attach your Video test monitor with the service video cable enclosed in your camera box. The camera footage will appear on your test monitor and zoom/focus adjustments can be carried out as the installation requires.
- 5. Camera ID Setup

ID number of camera is set using binary numbers.

PIN	1	2	3	4	5	6	7	8
ID Value	1	2	4	8	16	32	64	128

The example is shown to the right shows ID 1

ON 1 2 3 4 5 6 7 8



OSD Controller

- 1) Press "U" to navigate upwards
- 2) Press "D" to navigate downwards
- 3) Press "L" to navigate left
- 4) Press "R" to navigate right
- 5) Press "ENT" to open menu/sub-menu

FOCUS

200M START 200M END 200M SPEED REFRESH NODE REFRESH TIME INITIAL	

FOCUS	FOCUS MODE	AUTO
		MANUAL
		PUSH [PRESS ENT]
	FOCUS DIST	1CM ~ 3M
	ZOOM START	x001 ~ x027
	ZOOM END	x001 ~ x270
	ZOOM SPEED	1~3
	REFRESH MODE	ON / OFF
	REFRESH TIME	[SET TIME]
	INITIAL	OFF / ON

EXPOSURE

	EXPOS	105			
	EXPUS	ORE	EXPOSURE	AE MODE	AUTO / SHUT MAN / IRIS
	AE MODE	AUTO			MAN / AGC MAN
	HUTTER RIS	NOT USED NOT USED		SHUTTER	NORMAL / x125 ~ x10000
AI	GC	NOT USED		IRIS	0~255
	IGHTNESS ICKERLESS	25 0FF		AGC	0~255
D.S.S.		FLD 4		BRIGHTNESS	0~48
INIT: EXIT	EAL	ON		FLICKERLESS	OFF / ON
		*		D.S.S.	OFF / FLD 2 ~ 128
				INITIAL	OFF / ON

DAY	/ NIGHT					
	MEN	U				
	FOCUS	4	DAY / NIGHT	AUTO	D&N MODE	AE / EXT D&N
	EXPOSURE	4			DWELL TIME	1 ~ 10SEC
tr.	DAY/NIGHT BLC	AUTO# Normal			INITIAL	OFF / ON
	WHITE BAL	ATW		NIGHT	D&N MODE	AE / EXT D&N
	3D-DNR SPECIAL	OFF			DWELL TIME	1 ~ 10SEC
	GENERAL	a l			INITIAL	OFF / ON
	INITIAL	ON .		DAY	D&N MODE	AE / EXT D&N
	LATI				DWELL TIME	1 ~ 10SEC
					INITIAL	OFF / ON

.C			
MEN FOCUS EXPOSURE DAY/NIGHT BLC UHITE BAL 3D-DNR SPECIAL GENERAL INITIAL EXIT	U a auto auto auto atu atu atu atu atu atu atu atu	BLC	NORMAL / C1 / C2 / L1 / L2 / U1 / U2 / D1 / D2 / R1 / R2

WHITE BALANCE

	MEN	U
	FOCUS	4
	EXPOSURE	4
	DAY/NIGHT	AUTO
	BLC	NORMAL
0°	WHITE BAL	ATW
	3D-DNR	OFF
	SPECIAL	4
	GENERAL	4
	INITIAL	ÖN
	EXIT	4

WHITE BAL	ATW		
	MANUAL	RED CONT	0~255
		BLUE CONT	0~255
	INDOOR		
	OUTDOOR		
	PUSH	[PRESS ENT]	

MEN	U		
FOCUS EXPOSURE DAY/NIGHT BLC WHITE BAL WHITE BAL WHITE BAL SPECIAL GENERAL INITIAL EXIT		<u>3D-DNR</u>	OFF / LOW / MIDDLE / HIGH

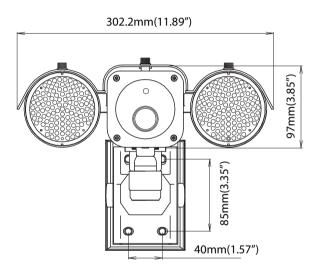
SPEC	IAL	SPECIAL	D-EFFECT	OFF / V-FLIP / R	OTATE / MIRROR
			SHARPNESS	1~16	
HARPNESS	OFF 6		FREEZE	OFF / ON	
FREEZE	OFF		COLOUR	ON / OFF	
COLOR MOTION PRIVACY	OFF 로 로		MOTION	ZONE SELECT	CENTRE / WHOLE UPPER / OUT
INITIAL EXIT	ON			ZONE STATE	OFF / ON
2011				SENSITIVITY	1 ~ 15
				INITIAL	OFF / ON
			PRIVACY	MASK NUMBER	0~3
				MASK STATE	OFF / ON
				MASK COLOUR	GREY / BLACK / WHITE / YELLOW
				TOP	(SELECT SIZE)
				BOTTOM	(SELECT SIZE)
				LEFT	(SELECT SIZE)
				RIGHT	(SELECT SIZE)
				INITIAL	OFF / ON
			INITIAL	OFF / ON	

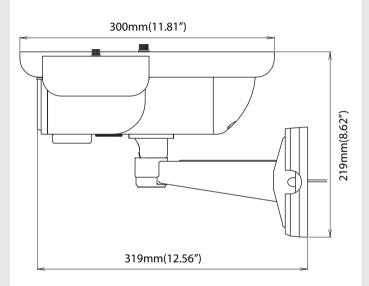
GENERAL

	GENE	RAL	
	CAM ID	NOT	USED
	ID DISPLAY	NOT	USED
(r	CAM TITLE	ON+	
	LANGUAGE	ENG	
	PROTOCOL	NOT	USED
	BAUDRATE	NOT	USED
	VERSION	VER	1.5J
	INITIAL	ON	
	EXIT		

GENERAL	CAM ID	NOT USED
	ID DISPLAY	NOT USED
	CAM TITLE	ON / OFF
	LANGUAGE	ENG
	PROTOCOL	NOT USED
	BAUDRATE	NOT USED
	VERSION	
	INITIAL	OFF / ON

MEN	4U			
		INITIAL	OFF / ON	
FOCUS EXPOSURE DAY/NIGHT BLC WHITE BAL 3D-DNR SPECIAL GENERAL W INITIAL EXIT	a AUTO-a NDRMAL ATW OFF a a ON a ON a ON a			





ITEM	AIR701/IRH	
Туре	Twin IR Zoom Colour/Monochrome (Removable IR Cut Filter)	
Signal System	PAL	
Image Sensor	1/4 inch SONY Exview CCD	
Total Pixels	795(H)x596(V) 470K	
Effective Pixels	752(H)x582(V) 440K	
Lens	27x. F1.6(W) ~ 3.7(T) (\pm 7 %), f = 3.6 ~ 97.2 mm (\pm 7 %)	
Digital Zoom	x10	
Resolution	580 TV Lines	
Min Illumination	0 Lux (220pcs IR LED ON)	
Focus	Auto/Manual/Push	
Frequency	(H) 15.625 KHz (V) 50 Hz	
Scanning System	2:1 Interlace	
S/N (Y signal)	More than 50 dB	
Electronic Shutter Speed	Normal / x125 ~ x10000	
White Balance	ATW, Manual, Indoor, Outdoor, Push	
Back Light Comp.	Normal / C1 / C2 / L1 / L2 / U1 / U2 / D1 / D2 / R1 / R2	
Auto Gain Control	Auto / 0 ~ 255	
3D-DNR	Off / Low / Middle / High	
DSS	Off / Up to 128x	
Video Output	CVBS : 1.0Vp-p / 75Ω	
Communication	RS-485	
Protocol	Pelco-D	
Power Supply	DC12v (± 10%) AC 24v (±10%)	
Current Consumption (Max)	DC: 2000mA AC: 1400mA	
IR Effect Distance	75~80m (245.9~262.3ft) (Outdoor)	
Dimension	302.2mm (11.98") (W) x 219mm (8.62") (H) x 319mm (12.56") (D)	
Weight (Product)	3.9kg	
Storage Temperature	emperature -30° to +60°	
Operating Temperature	-10° to +40°	

Design and specification are subject to change without notice.



AIR15 Range

18 IR LEDs 420 TVL / 520 TVL Options 3.6mm / 6mm Fixed Lens Options 182 x 70 x 81mm (WxHxD)



AIR30 Range 42 IR LEDs Varifocal Lens Options Service Video Output Option On Screen Display Option External Lens / Zoom Adjustments 202 x 85 x 118mm (WxHxD)



AIR45 / 50 Range

60 IR LEDs Varifocal Lens Options Service Video Output Option On Screen Display Option External Lens / Zoom Adjustments 340 x 219 x 100mm (WxHxD)



Extend the IR range up to 80m with AIR-IR.



