Concept ◆ Pro

AIR30 Range
Weatherproof Colour/Mono IR Camera

USER MANUAL

Powered by

AIR
TECHNOLOGY
ADVANCED INFRARED

CAUTION

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

2. 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.

4. 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.

7. Should any damage or suspected damage occur, shutdown the power source, unplug and contact your service provider.

8. 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.

11. 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.

The Concept Pro AIR30 is a weatherproof IR camera, suitable for monitoring areas in hostile conditions and in low light.
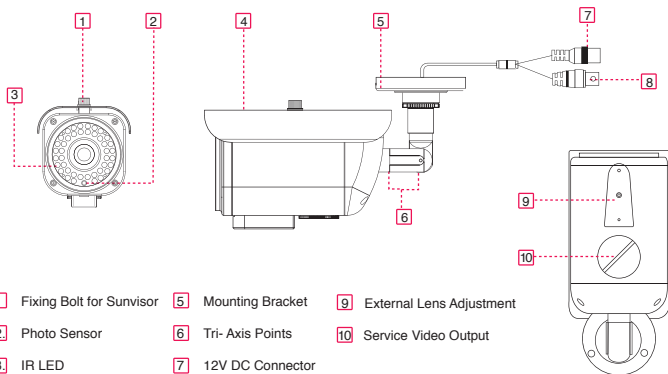
1	Fixing Bolt for Sunvisor	5	Mounting Bracket	9	External Lens Adjustment
2	Photo Sensor	6	Tri- Axis Points	10	Service Video Output
3	IR LED	7	12V DC Connector		
4	Sunvisor	8	Video Out Connector		

PACKING CONTENTS

SCREW
X3

PLASTIC-WALL PLUG
X3

DC CONNECTOR
X1

ALLEN KEY
X2

LENS ADJUSTMENT COVER SCREW
X1

LENS ADJUSTMENT TOOL
X1

USER MANUAL
X1

MOUNTING DRAWING PAPER
X1

SERVICE VIDEO OUT CABLE (AIR3016 / AIR3026 ONLY)
X1

OSD CABLE (AIR3026HG ONLY)
X1
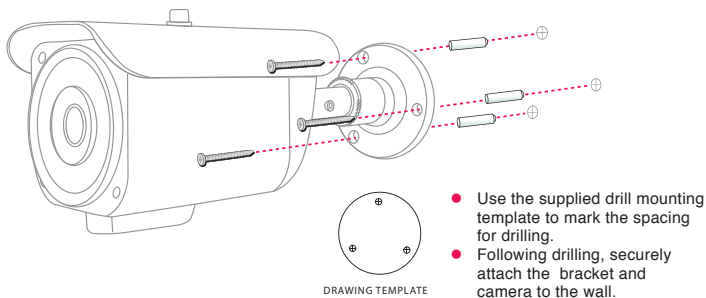
Important: Ensure all cautionary procedures are observed during installation.

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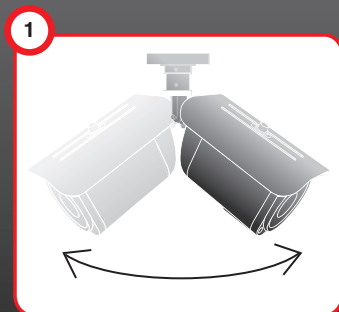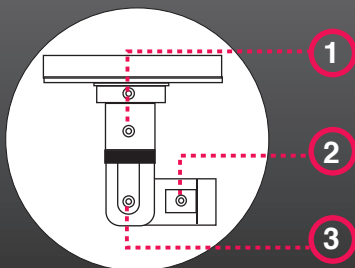
Remove the camera unit carefully from the box, reserving the accessory contents in a safe place.

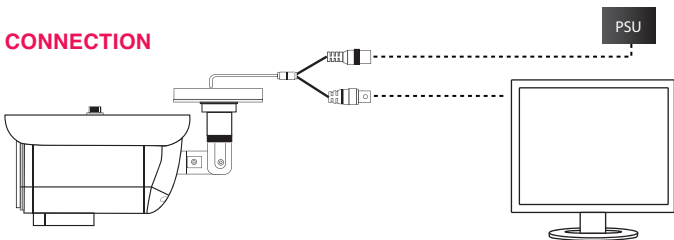## FIXING TO A WALL

DRAWING TEMPLATE

- Use the supplied drill mounting template to mark the spacing for drilling.
- Following drilling, securely attach the bracket and camera to the wall.

POSITIONING

Point the Camera towards the

1

2

3

1

CONNECTION

PSU

- Connect the video out port to your video cable running to the monitoring recorder.
- Check the power supply is of the correct level and connect your power supply into the power port on the Camera.
- View the picture on a monitoring device to check the power and video connection is working properly.

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 the 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.
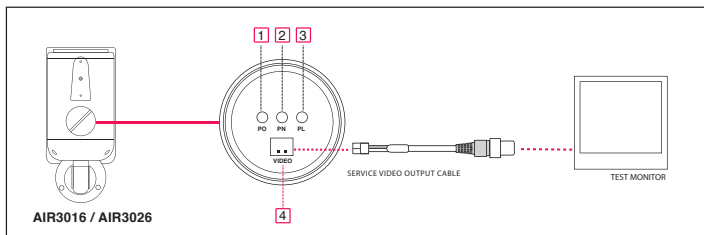
intended area to be monitored.

2

3
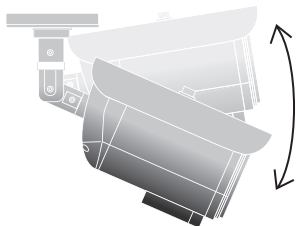
SERVICE VIDEO OUTPUT (AIR3016 / 3026 MODELS ONLY)

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

AIR3016 / AIR3026

PO PN PL

VIDEO

SERVICE VIDEO OUTPUT CABLE
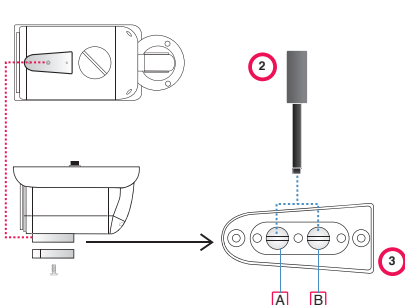
TEST MONITOR

1 2 3

4

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
2. "PN": Green LED - Voltage is correct
3. "PL": Yellow LED - Voltage is too low
4. Extra video out for testing monitor - 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.
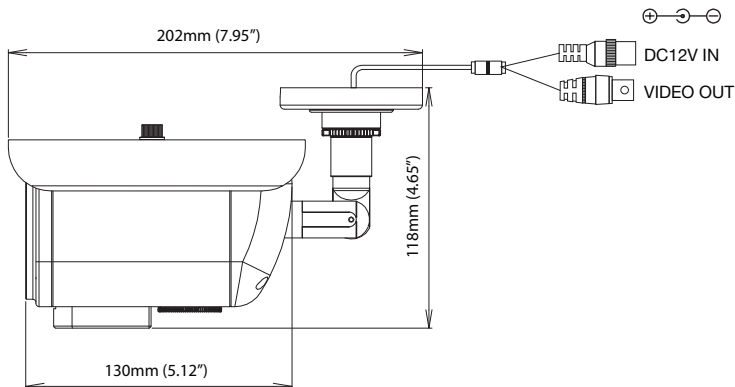
SEE OVERLEAF FOR AIR3026HG ON SCREEN DISPLAY

EXTERNAL LENS ADJUSTMENT

1 Open the lens adjuster cover and adjust focus and zoom. Loose the screw on the lens adjuster cover.

2. Lens Adjustment Tool

3 Focus and Zoom Adjustments

A **Zoom**
Turn clockwise to zoom wide anti-clockwise to zoom narrow

B **Focus**
Turn clockwise to focus far Anti-clockwise to focus near

85mm (3.35")

92mm (3.62")

Ø70mm (2.76")

Ø56mm (2.20")

3 - Ø5mm (0.20")

202mm (7.95")

⊕—⊝—⊖

DC12V IN

VIDEO OUT

118mm (4.65")

130mm (5.12")

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

AIR3026HG
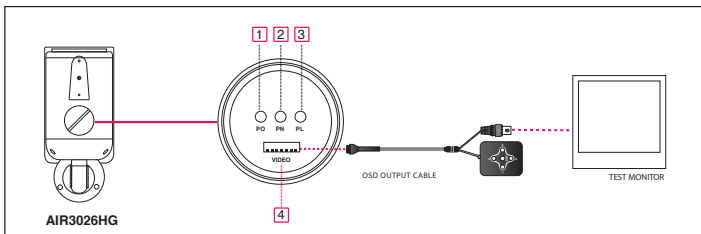
The power indicator LEDs display the power supply being fed into the camera and whether it is too high, low or correct.

1. "PO": Red LED - Voltage is too high
2. "PN": Green LED - Voltage is correct
3. "PL": Yellow LED - Voltage is too low
4. Extra video out and OSD control 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.
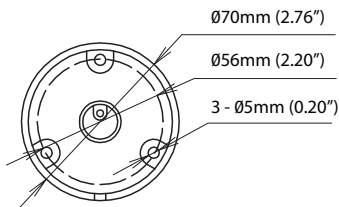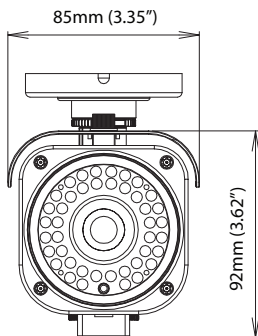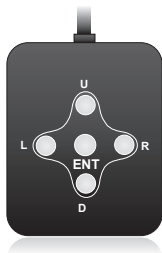

OSD Controller

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

SETUP
▶1. LENS   MANUAL
  2. EXPOSURE   ↵
  3. WHITE BAL   AWB
  4. DAY NIGHT   AUTO↵
  5. 3DNR   OFF
  6. SPECIAL   ↵
  7. ADJUST   ↵
  8. RESET   ↵
  9. EXIT   ↵

LENS	MANUAL

EXPOSURE
▶SHUTTER   AUTO
 BRIGHTNESS ▬▬▬|▬▬▬ 44
 AGC   ---
 SENSE-UP   OFF
 BLC   OFF
 D-WDR   OFF
 RETURN   RET↵

SHUTTER	AUTO, FLK, 1/100000 ~ X256		
BRIGHTNESS	0 - 100		
AGC	OFF / LOW / MIDDLE / HIGH		
SENSE UP	OFF		
	AUTO	X2 ~ X256	
BLC	OFF		
	BLC	GAIN	LOW / MIDDLE / HIGH
		LEFT / RIGHT	0~7
		WIDTH	
		TOP / BOTTOM	
		HEIGHT	
		RETURN	
	HSBLC	LEVEL	0~8
		LEFT / RIGHT	
		WIDTH	
		TOP / BOTTOM	
		HEIGHT	
		RETURN	
D-WDR	OFF / INDOOR / OUTDOOR		
RETURN			

SETUP
 1. LENS   MANUAL
 2. EXPOSURE   ↵
▶3. WHITE BAL   MANUAL↵
 4. DAY NIGHT   AUTO↵
 5. 3DNR   OFF
 6. SPECIAL   ↵
 7. ADJUST   ↵
 8. RESET   ↵
 9. EXIT   ↵

AWB		
AWC➜SET		
MANUAL	BLUE	
	RED	
	RETURN	
INDOOR		
OUTDOOR		
ATW		

DAY NIGHT

AUTO	DELAY	0 - 63
	S-LEVEL	0- 100
	E-LEVEL	0 - 100
	RETURN	
EXT		
B/W	BURST	OFF / ON
COLOUR		
RETURN		

3DNR

OFF		
ON	LEVEL	0-100
	RETURN	
RETURN		

SPECIAL

CAM TITLE		OFF / ON	
D-EFFECT	FREEZE	OFF / ON	
	MIRROR	OFF / MIRROR / V-FLIP / ROTATE	
	D-ZOOM	OFF	
		ON	D-ZOOM	X1.0 ~ 32.0
			PAN	
			TILT	
			RETURN	
	GAMMA		
	NEG.IMAGE		
	RETURN		
PRIVACY	OFF		
	ON	AREA SELECT	AREA 1 - AREA 8
		AREA DISPLAY	ON / OFF
		LEFT/RIGHT	
		WIDTH	
		TOP/BOTTOM	
		HEIGHT	
		COLOR	
		RETURN	
LANGUAGE	ENGLISH/JAPANESE/SIMPLIFIED CHINESE/ TRADITIONAL CHINESE		
RETURN			

ADJUST

SHARPNESS	0 - 31
BLUE	0 - 100
RED	0 - 100
RETURN	

RESET

FACTORY	
RETURN	

OSD FACTORY DEFAULT SETTINGS

FUNCTION	STATUS	
EXPOSURE	SHUTTER	AUTO
	BRIGHTNESS	44
	AGC	MIDDLE
	SENS-UP	OFF
	BLC	OFF
	D-WDR	OFF

WHITE BALANCE	AWB	
DAY/NIGHT	AUTO	
3DNR	ON	
	LEVEL	50
ADJUST	SHARPNESS	16
	BLUE	56
	RED	56

AIR15 Range
18 IR LEDs
420 TVL / 520 TVL Options
3.6mm / 6mm Fixed Lens Options
182 x 70 x 81mm (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.

AIR-IR
It is possible to extend the IR range of the AIR 45/50 range with an easy to attach bolt-on twin IR lamp. The AIR-IR twin lamp allows the camera unit to view up to 80m.

ITEM	AIR3016	AIR3026	AIR3026HG
Type	Colour/Monochrome (Removable IR Cut Filter)		
Signal System	PAL		
Pick Up Device	1/3" Sony Colour CCD	1/3" Sony Colour High Resolution CCD	1/3" Sony Colour High Resolution CCD
Picture Elements	537 (H) × 597 (V)	795H×596V	795H×596V
Resolution	420 TVL	520TVL	600TVL Colour, 650TVL Mono
Minimum Illumination	0 Lux (IR LED ON)	0Lux	0Lux
	(42Pieces IR LED ON)		
Vertical Frequency	50Hz		
Horizontal Frequency	15.625KHz		
Clock Frequency	28.375MHz		
Scanning System	2:1 Interlace		
S/N Ratio	≥48dB	50dB	≥52dB
Electronic Shutter	1/50-1/100,000s		
Lens	3.5-8mm Varifocal IR Lens		
White Balance	AUTO Tracking	AUTO Tracking	Selectable
Back Light	ON	ON	Selectable
Auto Gain Control	ON	ON	Selectable
Gamma	0.45		
Sens-Up/ DSS		-	Selectable. Up to X256
D-WDR	-	-	Selectable
3 DNR	-	-	Selectable
Video Out-put	1V p-p,75Ω		
Power Supply	DC12V ±10%		
Current Consumption	350mA (Max)	380mA (Max)	380mA (Max)
IR Effect Distance	20~25M	25~30m	25~30m
	(65.6~82ft) (Outdoor)	(82~98.3ft) (Outdoor)	(82~98.3ft) (Outdoor)
Dimension	202×85×118mm (7.95"×3.35"×4.65")		
Weight	1300g (45.86oz)		
Storage Temperature	-30°+60° (-22°+140°)		
Operating Temperature	-30°+40° (-22°+104°)		

Design and specification are subject to change without notice.

Concept Pro