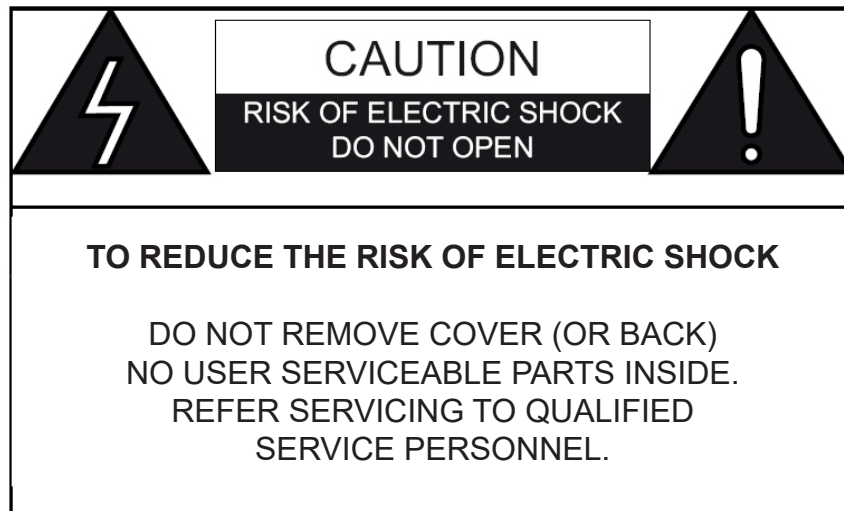




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The lightning with an arrowhead symbol, within an equilateral triangle is intended to alert the users to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point with 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.

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, 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.

Changes or modifications not expressly approved by the manufacturer could void the user’s authority to operate the equipment. To prevent electric shock and risk of fire hazards : Do not use power sources other than that specified.

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

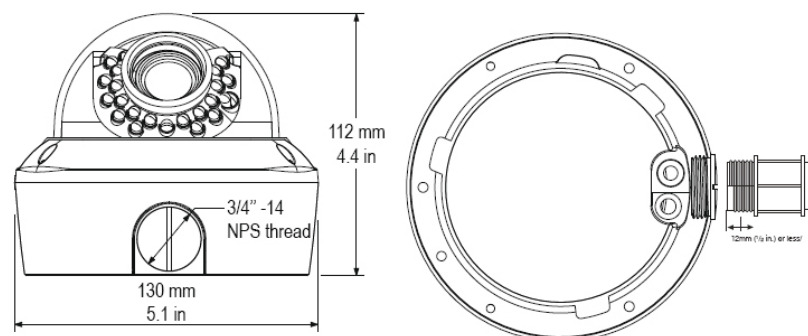
* Operation is subject to two conditions :

1. This device may not cause harmful interference,
2. This device must accept any interference received, including interference that may cause undesired operation.

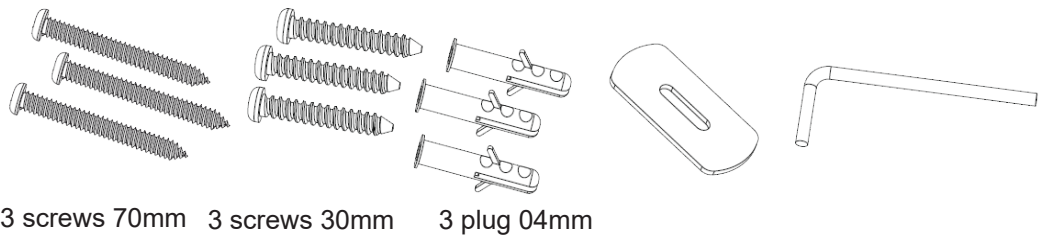
1. SPECIFICATIONS

Sensor	8.5mm (1/3") SONY CCD
Objectif	2.8-12mm Varifocal Day/Night Lens
Technology	Advanced Digital Noise Reduction (DNR) Shadow Reduction (ATR)
Menu	OSD Menu Control
Hiding	Privacy Masking / Motion Detection
Output	Video (BNC)
Power supply	12V DC or 24V AC (option)
LEDS	21 LEDs IR 850nm
Power supply	12V DC / 12V DC et 24V AC
ConsoPower consumption	3W max.
Scanning system	2:1 i nterlace
Scanning frequency	15.734kHz(H), 59.95Hz(V)
Min. illumination	0 Lux IR LED On
Video output	1.0 Vp-p (75Ohm, composite)
S/N ratio	more than 50dB (AGC OFF)
Video output	BNC Connector (2nd video RCA)
Lens mount	Fixed mount
Lens	2.8 - 12mm varifocal
Operating temperature	De -10° à 50°C
Operating humidity	0 - 99% (non-condensing)

2. DIMENSIONS

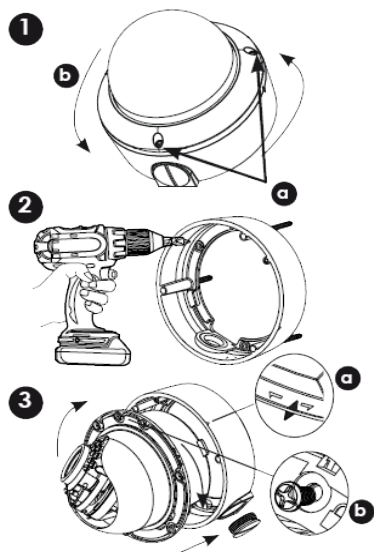


3. PACK CONTENT



Camera in housing.....	1	RCA - BNC test cable.....	1
Camera Locking screw (PM3 Type).....	1	PMounting screw pack.....	1
Instruction guide (This Document).....	1	Star Shape Dome Cover Tamper key.....	1
Surface Mounting Template.....	1		

4. INSTALLATION



a) Remove the three tamper screws using the star key provided.

b) **Install Method 1** : use included mounting template to mark and pre-drill the required holes. Use included 2.8" screws to mount the camera directly to the mounting surface. Proceed to step 4

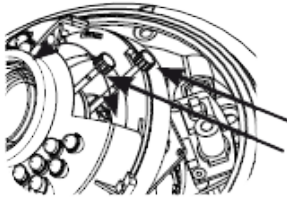
Install Method 2 : remove the camera base by unscrewing the base locking screw (indicated with a padlock marking) and turn camera module approx. 5 degrees counter-clockwise to detach camera base from the camera module. Proceed to step 3.

a) If you plan on installing onto a junction box, attach provided mounting plate first to the junction box and then attach camera base to the mounting plate.

b) Reinsert camera module into camera base by lining up the arrow notches, and turning camera module clockwise to lock into place.

c) Reinstall base locking screw as indicated by padlock mark to secure camera base to camera module.

4

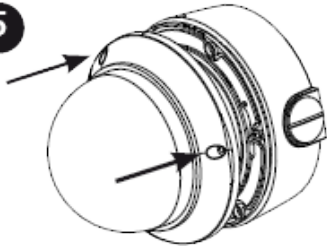


a) Remove camera cover by squeezing the back and front of the cover as indicated by the “PRESS” indicators at the same time and lifting it up and away from the lens.

b) Insert the included video test cable into the RCA jack and connect to test monitor to set up camera. (see page 8)

c) Adjust camera viewing angle and secure into place by tightening thumb screw using a flat head screwdriver. Make lens and OSD adjustments as required.

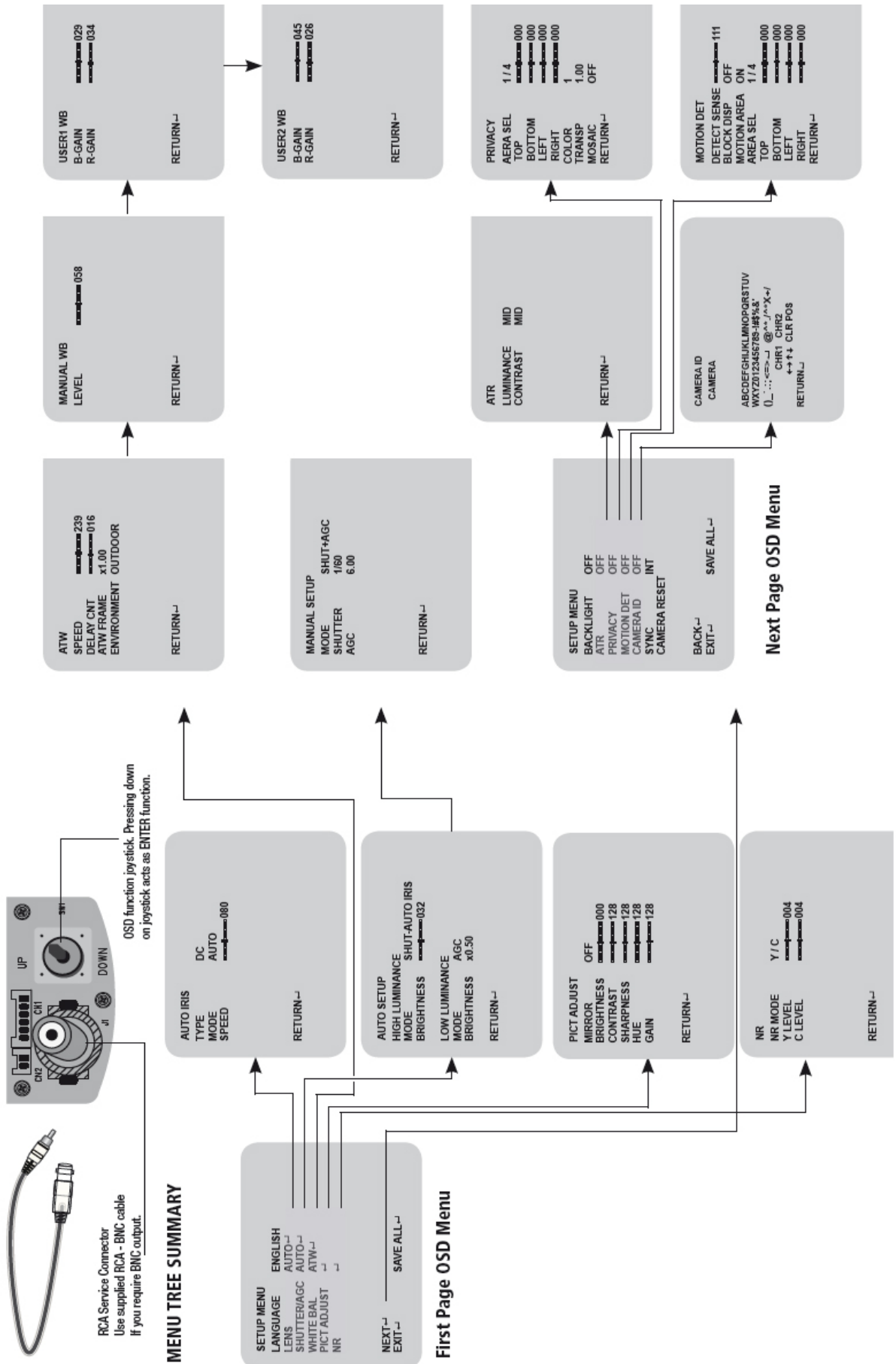
5



a) Re-attach the camera cover, using the locking nut as a guide, until it snaps into place.

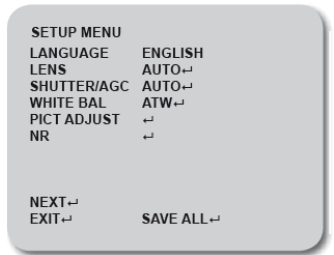
b) Use the Hex key to tighten the tamper screws to create a proper weatherproof seal.

5. CAMERA ADJUSTMENT




OSD MENU control


Press down on the function joystick to access the setup menu.



SETUP MENU

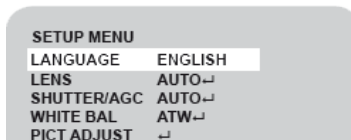
Select a function by moving the joystick up and down and move left or right to change setting value and press joystick to confirm selection.

If a menu option features a , a sub menu is available which can be accessed by pressing down on the joystick.

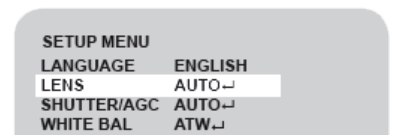
Select 'NEXT ' to view remainder of the OSD setup menu Once finished updating settings, highlight 'EXIT' and press down on the joystick to exit setup menu.

To retain the changed settings after a power on/off of the camera you need to select **SAVE ALL** option on the menu.

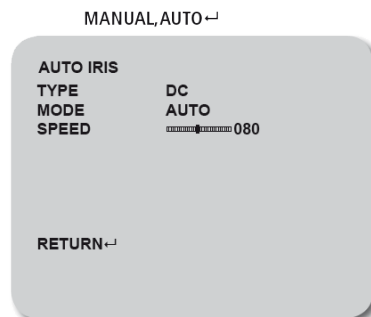
LANGUAGE



LENS



TYPE



MODE

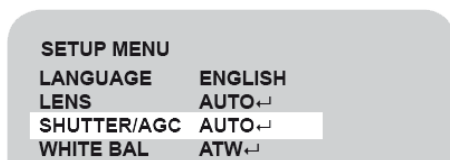
- **AUTO:** The mechanical iris is controlled automatically
- **CLOSE:** The mechanical iris is set to the closed position
- **OPEN:** The mechanical iris is set to the open position

Default setting is **Auto**

SPEED 000-255

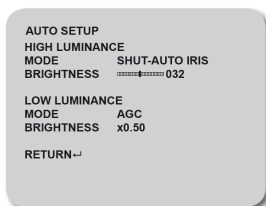
Sets the convergence speed of the mechanical iris. Default setting is 80

SHUTTER/AGC

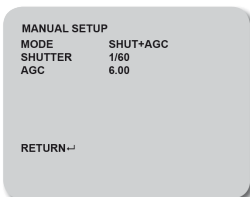


Shutter has two options : AUTO or MANUAL.

AUTO SETUP HIGH LUMINANCE



MODE : SHUT
BRIGHTNESS: 000 - 255
 Default setting is 32



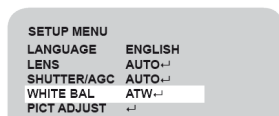
MODE : SHUT (FERMÉ) + AGC

SHUTTER : 1/60 1/120 1/250 1/500 1/1000 1/2000
 1/4000 1/10000.

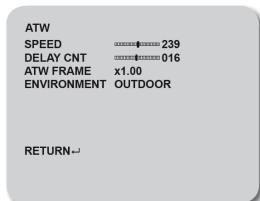
Shutter speed in fractions of a second. Default setting is 1/60

AGC : 6.00 / 12.00 / 18.00 / 24.00 / 30.00 / 36.00 / 42.00 /
 44.80 - AGC value in [dB] Default setting is 6.00

WHITE BAL



White Balance can be set to following :
 ATW / PUSH / USER1 / USER2 / ANTI CR / MANUEL / PUSH LOCK



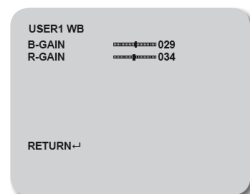
SPEED : 000 - 255 Default setting is 239

DELAY CNT : 000 - 255 Default setting is 16

ATW FRAME : x0.50 / x1.00 / x1.50 / x2.00 Default setting is x1.00

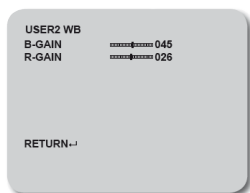
ENVIRONNEMENT : INDOOR / OUTDOOR. Default setting is OUTDOOR

USER 1 (utilisateur 1)



User defined gain adjustment on B and R

USER 2 (utilisateur 2)

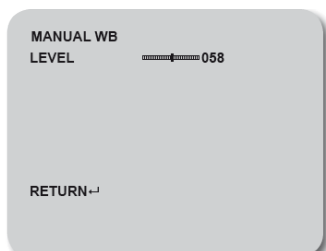


User defined gain adjustment on B and R

B-GAIN
R-GAIN

000-255 B Gain adjustment for WB
 000-255 R Gain adjustment for WB

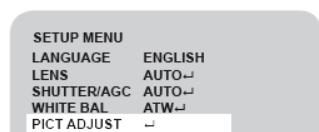
ANTI CR MANUEL ATW



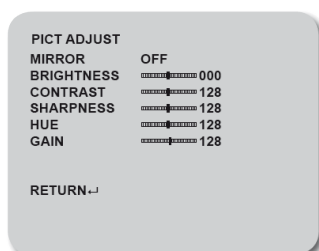
LEVEL (niveau)

0 - 255

Specifies the R and B gain values for manual WB.
Default setting is 58



Picture and display control settings



MIRROIR : ON / OFF Horizontally flip the display output

BRIGHTNESS : 000 - 255 Screen brightness

CONTRAST : 000 - 255 Screen contrast

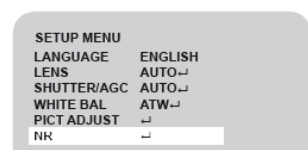
SHARPNESS : 000 - 255 Screen sharpness

HUE : 000 - 255 Adjust the hue

GAIN : 000 - 255 Adjust the gain

Digital Noise Reduction (NR)

This function reduces the background noise in a low luminance environment.

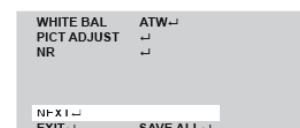



NR MODE : Y/C / OFF / Y / C Noise reduction Filter mode

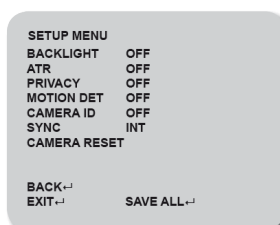
Y LEVEL : 000 - 015 Adjustment of the Y filter strength, Default setting is 004.

C LEVEL : 000 - 015 Adjustment of the C filter strength. Default setting is 004

NEXT



From the main setup menu select NEXT  to enter second page of main setup menu.



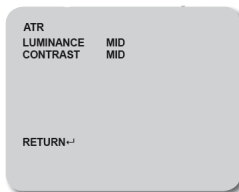
BACKLIGHT

OFF / BLC / HLC

- OFF : Backlight compensation OFF
- BLC : Backlight compensation ON
- HLC : High light compensation ON

SHADOW REDUCTION (ATR)

This function compensates for darker areas surrounding the object to provide naturally sharp picture and improves contrast in bright/dark areas.

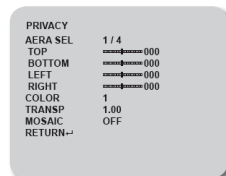


LUMINANCE : Sets the extent of the luminance compression MID / HIGH / LOW (MOYENNE / HAUTE / BASSE)

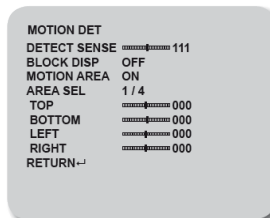
CONTRASTE : MID / MIDHIGH / HIGH / LOW / MIDLOW)

PRIVACY

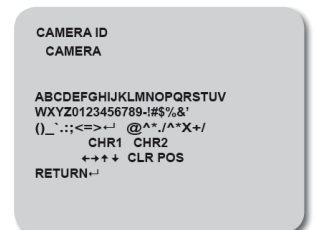
Hide an area so that it is not displayed on the monitor.



MOTION DET



CAMERA ID



SYNC (synchronisation)

INT (Internal) / LL (Line Lock)

And LL setting for camera model when connected to a AC supply. Adjust the phase in the vertical direction when the line lock mode is available.

CAMERA RESET : This will reset all settings for all menus to manufacturer defaults. This allow you to return to shipped settings from the manufacturer.

EXIT / SAVE ALL

EXIT : Exit OSD menu

SAVE ALL : Saves the settings to camera

LINEARSECURITY



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