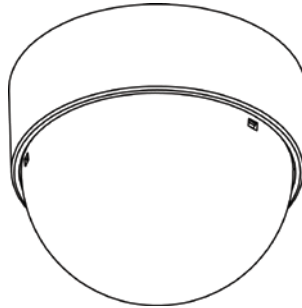

680 TVL DNR Super Low Lux OSD Indoor Dome Camera



USER MANUAL

FEATURES

- 680 TV Lines
- 1/3" Sony Super HAD CCD II
- 2.8mm~12.0mm Auto Iris Lens
- **0.00039 (Sens-up, 256X) / 0.1 Lux (50 IRE @ F1.4)**
- OSD Control
- 130mA
- 12V DC



Please read the Manual before attempting to use this product.

Specifications and appearance are subject to change without notice.



CAUTION

**RISK OF ELECTRIC SHOCK
DO NOT OPEN!**



**TO REDUCE THE RISK OF ELECTRICAL SHOCK,
DO NOT OPEN COVERS (OR BACK).
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED
SERVICE PERSONNEL.**



Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems).

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

CAUTION

1. Never point the camera toward the sun

Do not expose the lens directly to the sun or to strong light as this may damage the pick-up device.

2. Handle this camera with care

Avoid any shock or bumping of the camera. Improper handling could damage the camera.

3. Requires a proper operating environment

This camera is designed for indoor use. The allowable temperature range for operation of this camera is between 14°F ~ 122°F / -10°C ~ 50°C.

4. Clean the front face or lens

It is recommended that the surface be cleaned every 3~6 months. Cleaning should be done by using a chamois, a very fine soft cloth, lens tissue, or cotton tipped applicator and ethanol to carefully remove any fingerprint or dust.

5. Check the power source voltage

The power source voltage should be within the specified range. (Camera must meet the specifications). Camera must be connected to a surge protector at all times.

6. Objects and liquid entry

Never push objects of any kind into this camera as this may touch dangerous voltage points of short out parts that could result in a fire or electric shock. Never spill any kind of liquid on the video product.

7. Servicing

Do not attempt to service this video product by yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all service to qualified servicing personnel.

8. Damage requiring service

Unplug this video product from the wall outlet and refer service to qualified servicing personnel under the following conditions:

- a. When the power supply cord or plug is damaged.
- b. If liquid has been spilled, or objects have fallen into the video product.
- c. If the video product has been exposed to rain or water.
- d. If the video product has been dropped or the cabinet has been damaged.
- e. When the video product exhibits a distinct change in performance.

LIMITED WARRANTY

OKINA USA products are covered under warranty for one (1) year from the date of purchase. The warranty will automatically be voided if any of the following occurs:

1. Camera sticker is removed

If the camera sticker is removed, we will not be able to confirm any information regarding when and where the product was purchased. We have no other way to verify the purchase record without the serial number on the camera sticker; therefore, it should not be removed.

2. Camera is modified in any way

If the camera is scratched, damaged, or modified in a manner not described in this manual, the warranty will be voided immediately. It is the customer's responsibility to keep the camera in good condition.

3. Video or power cable is cut

The video cable and the power cable should not be tampered with. Cutting or modifying of the cables will result in termination of the warranty.

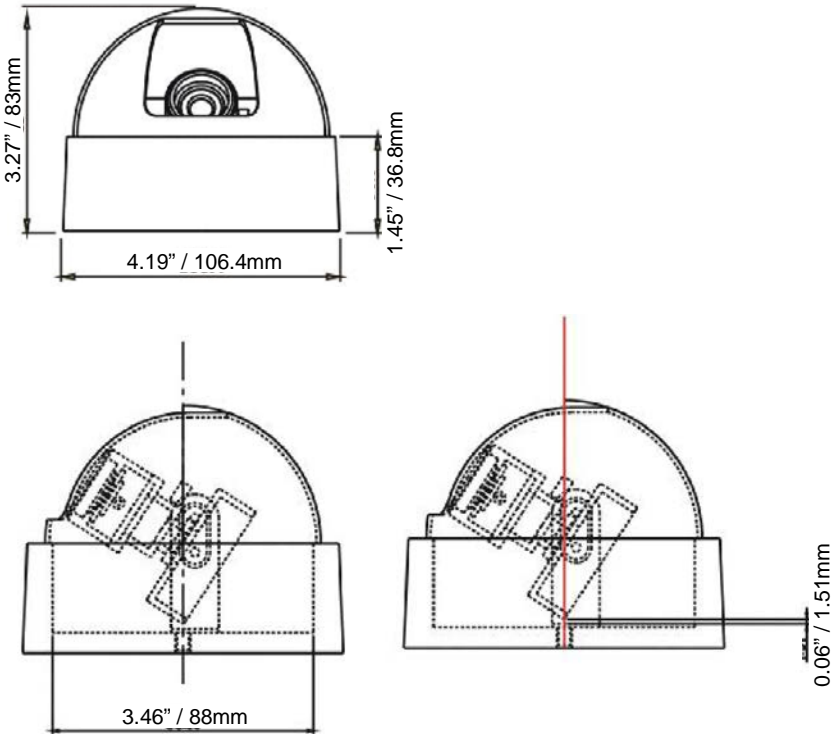
PACKAGE CONTENTS

- A. One (1) DNR Indoor Dome Camera with power/video cable
- B. Three (3) Mounting Screws
- C. Three (3) Wall Anchors
- D. One (1) User Manual

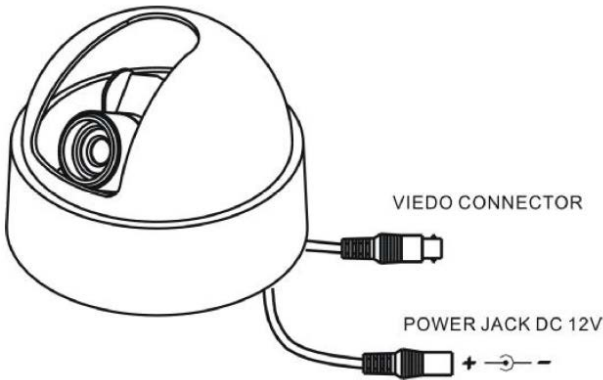


* For any returns, please include all components listed above with original packaging in **Resalable Condition**. **Absolutely No Returns** will be accepted if any component is missing/damaged.

DIMENSIONS



PARTS AND FUNCTIONS

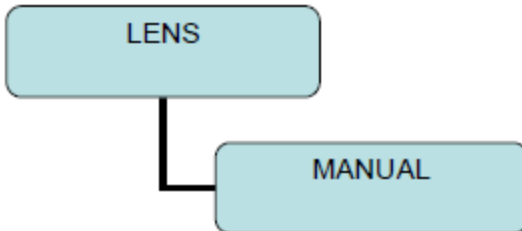


OPERATION

OSD Menu:

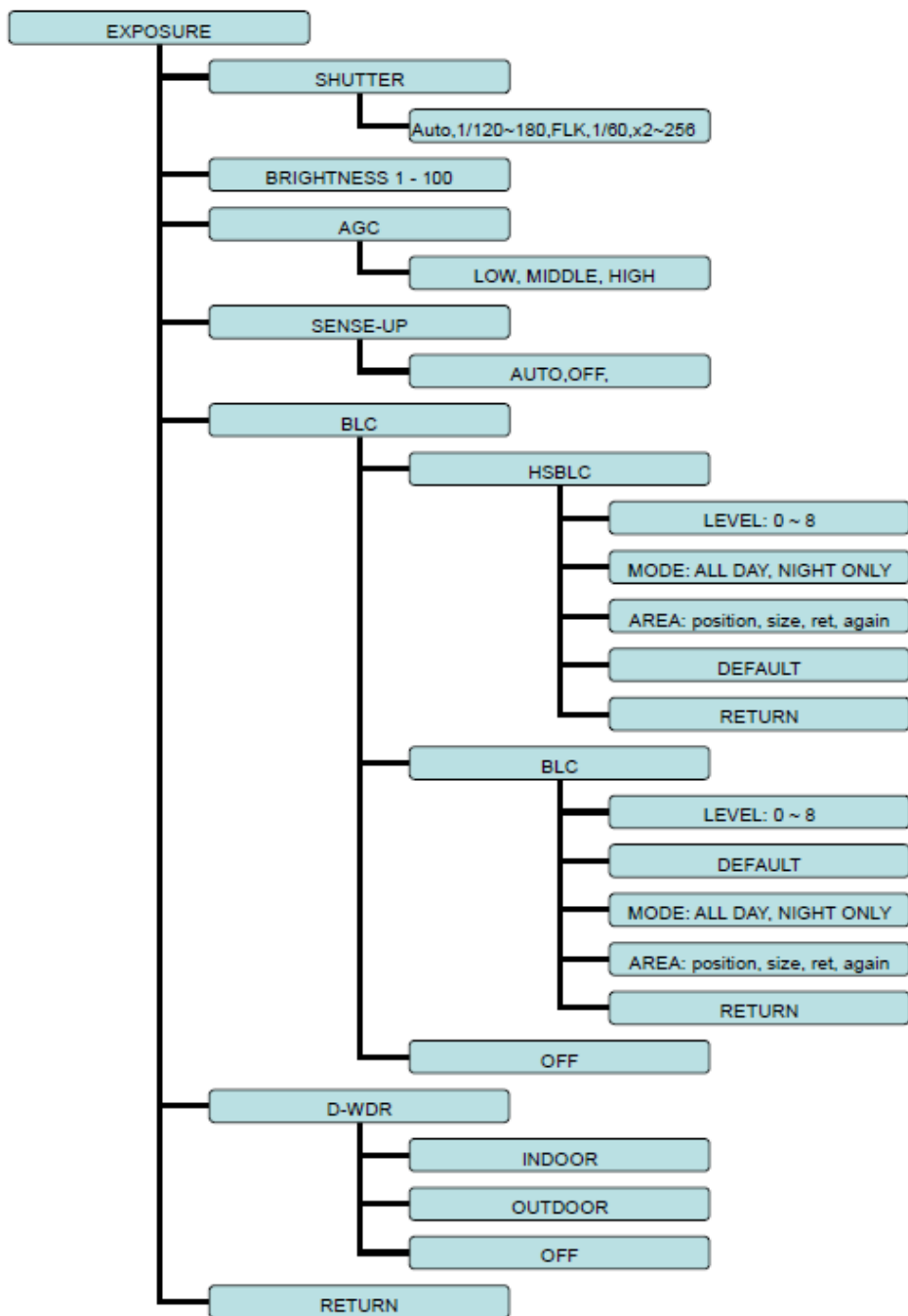


1. **LENS Menu:** MANUAL

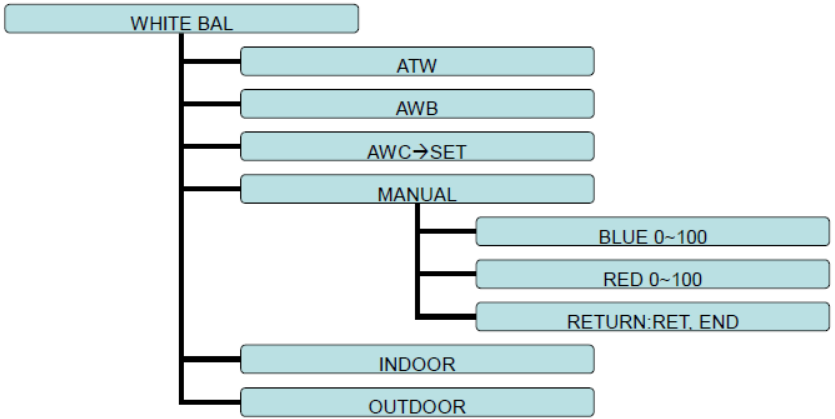


2. **EXPOSURE Menu:**

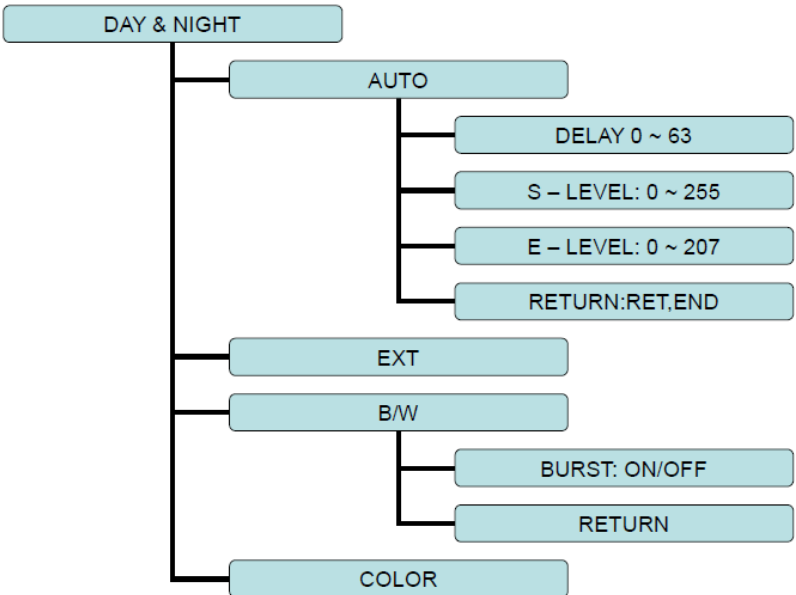
User can adjust electronic shutter speed, brightness (only for manual iris lens), auto gain control, sensitivity-up level, back light compensation (BLC) & Highlight Suppression (HSBLC) adjust and Digital WDR.



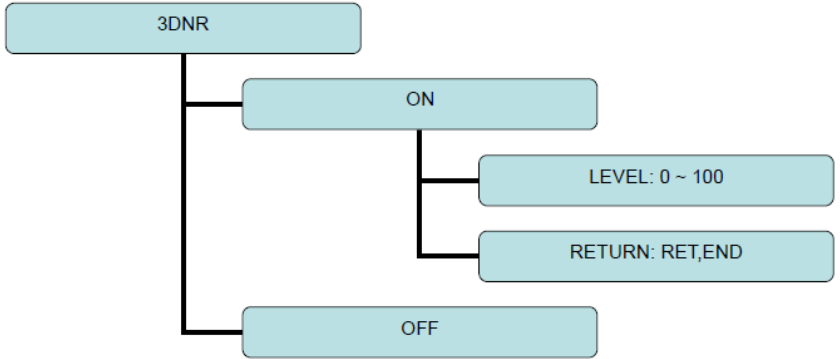
3. **WHITE BAL menu:** User can adjust white balance effect, such as Auto Tracking, White balance (ATW), Auto White Balance (AWB), Indoor or outdoor environment.



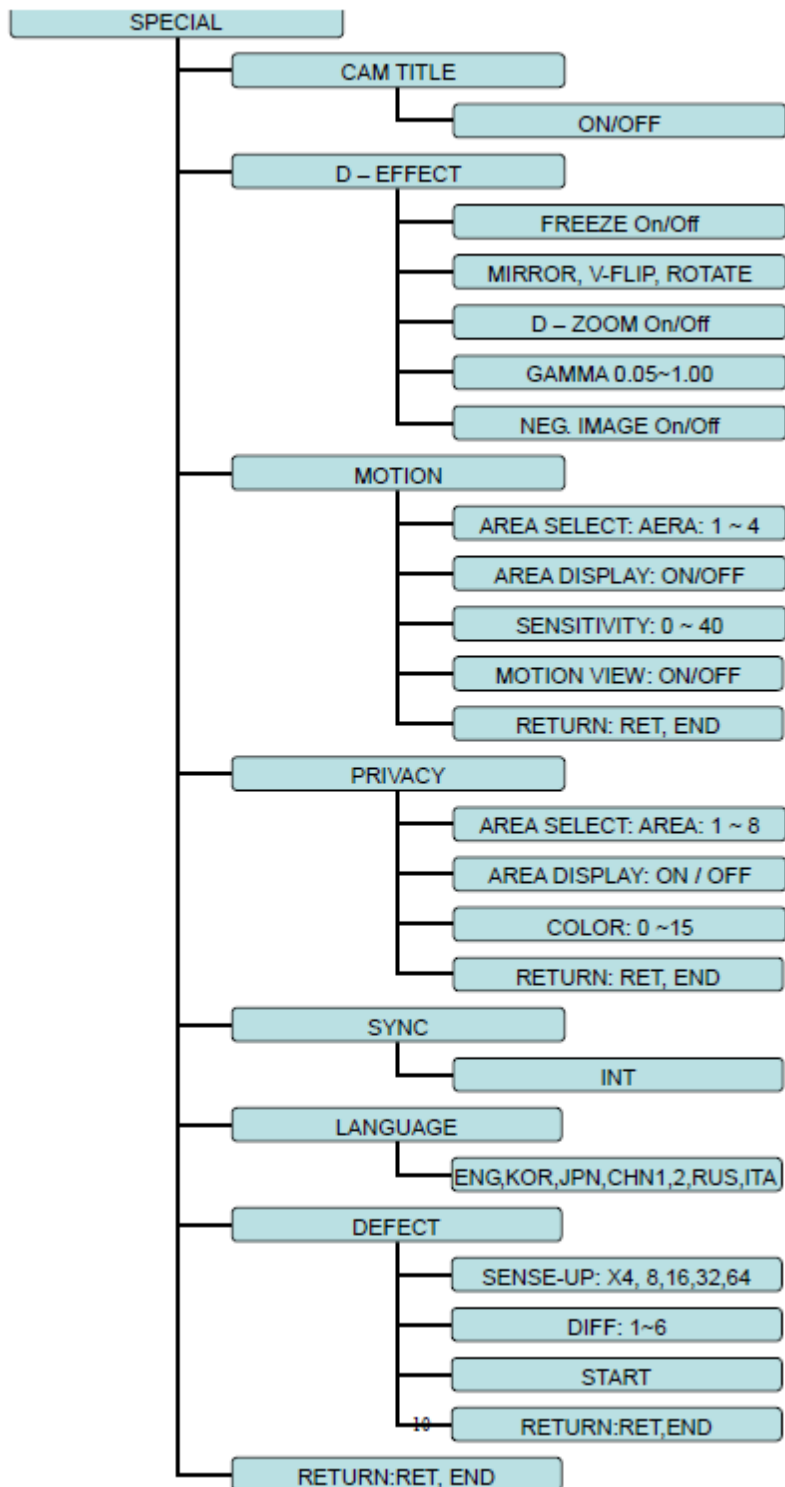
4. **DAY NIGHT menu:** User can adjust camera auto change threshold with day and night level to change Color or Black/White mode and force assign Color or Black/White type.



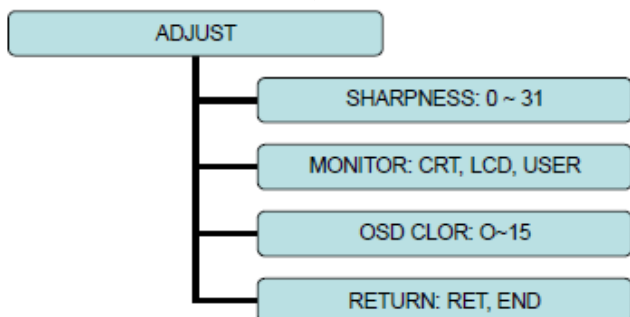
5. **3DNR menu:** User can adjust 3-Digital Noise Reduction level to improve night environment effect.



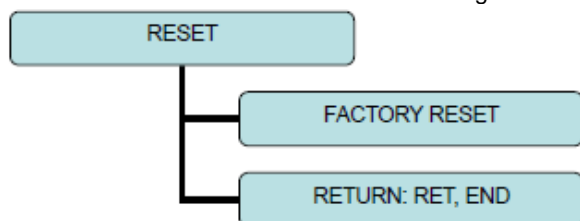
6. **SPECIAL menu:** User can setup Camera title, Digital effect (Freeze, Mirror, V-FLIP, Rotate, D-ZOOM,GAMMA), Negative image effect, Motion detection, Privacy mask and language choice. SYNC INT is only in 12V DC power source.



7. **ADJUST menu:** User can adjust camera sharpness and color parameter.



8. **RESET menu:** User can reset camera setting back to factory default.



9. **EXIT menu:** Exit OSD menu.

SPECIFICATION

Model	SDNX-868AI
System	NTSC
Image Sensor	1/3" Sony Super HAD CCD II
Total Pixel	811(H) x 508(V)
Effective Pixel	768(H) x 494(V)
Synchronizing System	Internal / Line Lock
Resolution	630 TV Lines
Scanning System	2:1 Interlace
Minimum Illumination	0.00039 (Sens-up, 256X) ; 0.1 Lux (50 IRE @ F1.4)
S/N Ratio	More than 50db (AGC OFF)
WDR (Wide Dynamic Range)	Indoor / Outdoor / OFF
Day & Night	Auto / B/W / Color / EXT
Digital Zoom	ON / OFF (0~32x)
Auto Gain Control	Low / Middle / High / OFF
White Balance	AWB / AWC-SET / MANUAL / INDOOR / OUTDOR / ATW
Back Light Compensation	BLC / HSBLC / OFF
Picture Adjust	Sharpness / CB_Gain / CR_Gain (level adjustable)
Electronic Shutter	Auto 1/60 (1/50) ~ 1/100,000 sec / FLK
Video Output	1.0 Vp-p / 75 ohm composite (BNC)
Camera Title	ON / OFF
Sens-Up	ON / OFF (Selectable limit ~ 256X)
Picture Effect	Freeze / Mirror / flip / 180° rotate / D-zoom / Neg. image
OSD Control	Button
OSD Language	ENGLISH, CHINESE1/2, JAPANESE, KOREAN, RUSSIAN, FRENCH, SPANISH ,ITALIAN
Lens	2.8mm~12.0mm Auto Iris Lens
Power Source	12V DC ± 10% / 500mA
Power Consumption	2.5W
Power Current	130mA Max.
Operating Temperature	14°F ~ 122°F / -10°C ~ 50°C
Storage Temperature	-4°F ~ 158°F / -20°C ~ 70°C
Dimension	4.19(Ø) x 3.27(H) inches / 106.4(Ø) x 83(H) mm
Net Weight	0.56 lbs / 254g

* Specifications are subject to change without notice.

Note: PAL version also available



www.okinausa.com

MADE IN TAIWAN

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