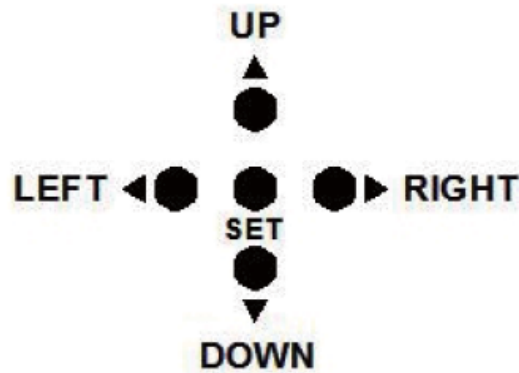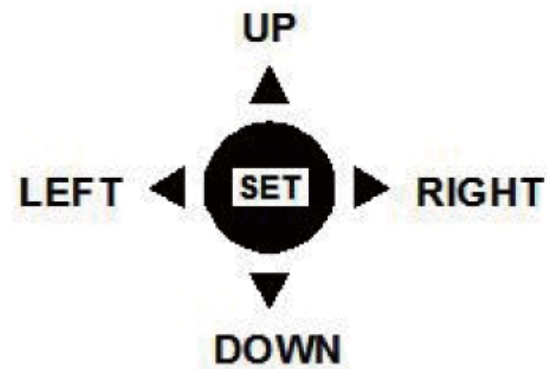# OSD MANUAL (V1.0)

Warning：Please read this manual carefully before installation and use!

OSD CONTROL BY FIVE SWITCH   OSD CONTROL BY ONE SWITCH

SET：push [SET] into Main Menu

UP/DOWN：[UP] or [DOWN] for move up and down.
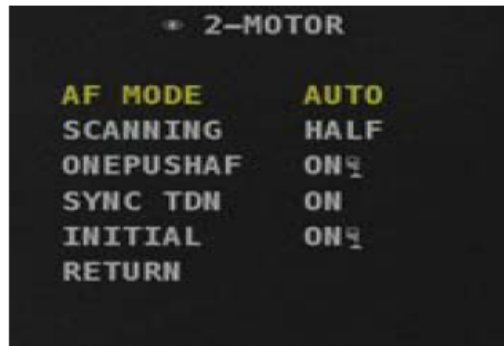
LEFT/RIGHT：[LEFT] or [RIGHT] for modifying the menu parameters.

Making ZOOM through up and down button on OSD menu.

1. Press Set key to show the OSD Main Menu,
2. Select different menu content by UP and DOWN button
3. Through the left (LEFT) or right (RIGHT) button to change the selection of different modes.
4. Chose EXIT and press SET key to end the setting.

1. 2-MOTOR

```
       ⊕ 2-MOTOR

AF MODE        AUTO
SCANNING       HALF
ONEPUSHAF      ON
SYNC TDN       ON
INITIAL        ON
RETURN
```

AF MODE: Automatically adjust the lens auto-
    matically with the hand Dynamic selection.
SCANNING:Lens adjustment range(ALL/HALF).
ONEPUHSHAF:Manual debugging a shot.
SYNC TDN:Whether the camera will adjust the
    camera when the day is converted.
INITIAL:After a long time of use, there are
    errors, can be performed here to perform a
    reset, but it can not be repeated.

2. LENS

```
           MENU

   ⊕ 2-MOTOR      ↵
   ⊙ LENS         ELC↵
   ☀ EXPOSURE     ↵
   ◑ BACKLIGHT    OFF
   ✷ DAY&NIGHT    ↵
   ☁ WHITE BAL    AUTO
   ▢ DNR          HIGH
   ▣ IMAGE        ↵
   ▢ MOTION       ON↵
   ☀ SYSTEM       ↵
   ▣ EXIT
```

ELC: Please choose 'ELC' when use
    manual iris lens for the camera.

ALC: Please choose 'ALC' when use Auto
    iris lens for the camera.

3. EXPOSURE

```
      ☀ EXPOSURE

BRIGHTNESS    |——+——|10
SHUTTER       AUTO
SENS-UP       X2
AGC           |————+—|16
RETURN
```

BRIGHTNESS: Brightness adjustment function.
SHUEEER:AUTO, MANUAL.
AUTO: Auto control of the shutter is enabled.
    The shutter speed is controlled automati-
    cally according to the brightness of the scene.
MANUAL: The shutter speed can be controlled manually .
SENS-UP:X2、X4、X8.
AGC: this function not only increase the brightness of
    camera images,but also increase the image noise,users
    can adjust it or shut it down according to actual
    situation.

4. BACKLIGHT

```
           MENU

   ⊕ 2-MOTOR      ↵
   ⊙ LENS         ELC↵
   ☀ EXPOSURE     ↵
   ◑ BACKLIGHT    OFF
   ✷ DAY&NIGHT    ↵
   ☁ WHITE BAL    AUTO
   ▢ DNR          HIGH
   ▣ IMAGE        ↵
   ▢ MOTION       ON↵
   ☀ SYSTEM       ↵
   ▣ EXIT
```

BACKLIGHT :You can choose OFF; HLC; BLC;WDR

HLC:Strong light inhibition,The light part of
    weakening, the dark part of the lighting,
    reach the balance of light.
Backlight Compensation: when there is strong
    back lighting at the back of the monitored
    object,you can use this function to get clear
    images both for the object and the background
    Strong light BLC: by processing light signal
    or exposure compensation to achieve backlight
    compensation and brightness compensation.
OFF: close 'BLC' function.

DWDR:choose the setting for WDR in accordance with
    the lighting condition set hingh in strong
    lingting contrast to realize higher quality
    image..

5. Day/ Night

☀ DAY&NIGHT

```
MODE          AUTO
ANTI-SAT.     |---|---|7
EXTERN S/W    NONE
AGC THRES     |---|---|11
AGC MARGIN    |---|---|8
DELAY         MIDDLE
RETURN
```

Auto: Select this, the camera will show
    color image in high lux and will auto
    auto change intoblack/white image in low lux.
Color: select this menu to show color image.
Black/White select this menu to show black/white
    image.
EXT:Switches between Color picture and Black &
    White picture as an External Day/Night
    Switching Signal is received.

6. WHITE BAL

MENU

```
☀ 2-MOTOR        ↵
Q LENS           ELC↵
☀ EXPOSURE       ↵
◑ BACKLIGHT      OFF
☀ DAY&NIGHT      ↵
● WHITE BAL      AUTO
▫ DNR            HIGH
▬ IMAGE          ↵
▫ MOTION         ON↵
☀ SYSTEM         ↵
▣ EXIT
```

WB: The camera can adjust the white balance au
    tomatically according to the color temperature range.

7. DNR

MENU

```
☀ 2-MOTOR        ↵
Q LENS           ELC↵
☀ EXPOSURE       ↵
◑ BACKLIGHT      OFF
☀ DAY&NIGHT      ↵
● WHITE BAL      AUTO
▫ DNR            HIGH
▬ IMAGE          ↵
▫ MOTION         ON↵
☀ SYSTEM         ↵
▣ EXIT
```

DNR: Digital noise reduction function.Can
    adjust the roughness of the image under
    low illumination environment. Related, high,
    medium and low can be set.

8. IMAGE

▬ IMAGE

```
SHARPNESS     |---|---|5
GAMMA         0.55
COLOR GAIN    |---|---|12
MIRROR        OFF
FLIP          OFF
D-ZOOM        1.0X
ACE           OFF
DEFOG         OFF
SHADING       OFF
PRIVACY       OFF
RETURN
```

SHARPNESS:Image plane definition and an
    indicator of image edge sharpness.
GAMMA:there are several dimodes of curves
    or option, different modes will give dif-
    ferent handling way to the bright and dark
    area of the image. The user should select
    appropriate mode to achieve the most opt-
    imized image on different occasions.
COLOR GAIN:Adjust image color concentration.

Mirror: This function is used to achieve pi-
    cture horizontal reverse.
FLIP:Images can be flip.
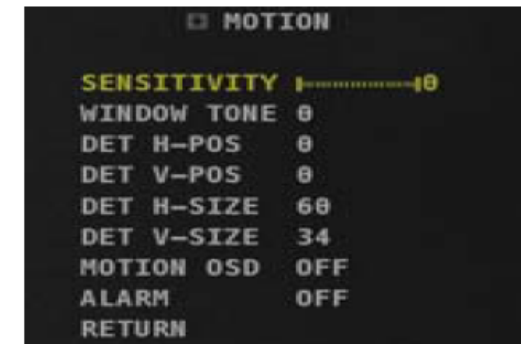D-zoom :Images can be enlarged.
ACE:Have a fill light effect on the image.
DEFOG:Smart features to penetrate the fog.
SHADING:Shadow homogenizing function.
PRIVACY:Privacy Zone.

9. MOTION DET

▫ MOTION

```
SENSITIVITY   |---|---|0
WINDOW TONE   0
DET H-POS     0
DET V-POS     0
DET H-SIZE    60
DET V-SIZE    34
MOTION OSD    OFF
ALARM         OFF
RETURN
```

SENSITIVITY:Set motion detection sensitivity.
WINDOW TONE:The transparency of the window.
DET H-POS:The starting location level.
DET V-POS:Perpendicular to the starting position.
DET H-SIZE:The level height.
DET V-SIZE:The vertical width.
MOTION OSD:The menu prompt alarm.
ALARM:OFF, ON.

10. SYSTEM

COM:RS485 protocol settings.
IMAGE RANGE:Divided into user screen and full screen
    display resolution:USER;FULL;COMP;
OUTPUT MODE:1080P、720P.
MONITOR:Can choose 4 different color style.
FRAME RATE:1080_30P;720P_60P;
CVBS:NTSC、PAL.
LANGUAGE:CHN/ENG/ITA/ESP/NLD/FRA/DEU/JPN/KOR.
SETUP:Camera calibration and window repair function.
COLORBAR:Color bar, used for color contrast test.
RESET:Menu restore to factory default.

11. EXIT

Exit Menu.When you set up the menu, must move to
the last item on the menu to save out of, or change
is invalid.

12. Function & Parameter

Specification		
Power System	PAL	NTSC
Active Pixel	1920*1080	
SYNC.	Internal	
Resolution	1080P	
VIDEO.OUT	TVI/CVBS	
Minimum Illumination	0.01LUX(F1.2)	
Gama adjust	0.45	
Electric Shutter	1/50s-1/30000s	1/60s-1/30000s
S/N Ratio	50dB(min)(AGC closed)	
DNR	OFF/LOW/MID/HIGH	
FRAME RATE	1080_25/30-720_50/60	
WHITE Balance	AUTO/AUTOEXT/PRESET/MANUAL	
AGC	Level 0-20	
BLC	BLC/HLC/OFF/DWDR	
D-ZOOM	1.0X-8.0X	
FLIP	OFF/ON	
Mirror	OFF/ON	
OSD	Yes	
Language	CHN/CHN(S)/ENG/ITA/ESP/NLD/FRA/DEU/JPN/KOR	
Motion Detection	10 areas optional	
Day/Night	Auto、Color、B/W、Ext	
Privacy Zone	10 areas optional	
Power Input	DC12V±1V	
Operation Temperature	Temperature -10℃~+55℃,Humidity less than 85%RH	