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VV100W Specification
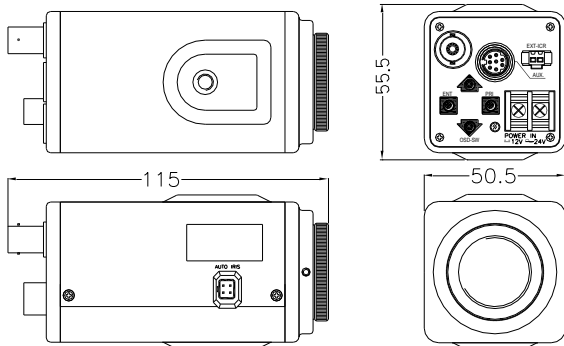
TV SYSTEM	NTSC	PAL
IMAGE SENSOR	1/3-INCH CCD IMAGE SENSOR	
CCD TOTAL PIXELS	~ 410K	~ 470K
SCANNING SYSTEM	525 LINES, 60 FIELDS/SEC	625 LINES, 50 FIELDS/SEC
SYNC SYSTEM	INTERNAL/LINE LOCK	
MINIMUM ILLUMINATION	0.01 LUX F1.2 /20 IRE AGC(30DB)COLOR 0.0014LUX F1.2 / 40 IRE SENS-UP (32X)	
RESOLUTION	540 TVL	
ICR-SET CONTROL	AUTO / EXT.SELECT BY OSD	
DNR (DIGITAL NOISE REDUCE)	BUILT-IN 3D_DNR	
WHITE BALANCE RANGE	MODE : ATW/AWC	
	RANGE : 3200 ~ 10000 ºK	
S / N RATIO	50DB (MIN) / 58DB (TYP) (AGC OFF , DNR ON)	
FRAME IN TEGRRATION	SELECT BY OSD	
H-MIRROR FUNCTION	SELECT BY OSD	
V-MIRROR FUNCTION	SELECT BY OSD	
B.L.C. FUNCTION	SELECT BY OSD	
ZOOM FUNCTION	SELECT BY OSD	
ENHANCE	SELECT BY OSD	
GAMMA CORRECTION	0.45 /1 (SELECT BY OSD)	
GAIN CONTROL	AGC AUTO / MANU SELECT BY OSD (FIX 64DB,AUTO 24DB.TOTAL 30DB)	
FREEZE FUNCTION	SELECT BY OSD (MAX.64X)	
AUTO IT IS	A.E.S / DC-IRIS	
ELECTRONIC SHUTTER	AES : 1/60(1/50) ~ 1/120,000 SEC.	
	FIX : 1/60,1/100,1/120,1/180,1/350,1/500,1/750,1/1000,1/2000,1/4000,1/10000 SEC.	
VIDEO OUTPUT	1.0VP-P COMPOSITE AT 75 OHM	
OPERATION TEMPERATURE	-10℃ TO 50℃	
OPERATIONAL HUMIDITY	WITHIN 85%RH	
POWER SUPPLY	DC12V±1V / AC24V/5V	

Caution for Installation:

1. Avoid places where there is direct sunlight. When using the camera outside.
2. Be careful, never let any water in this equipment.
3. Do not directly touch the Sensor device. If necessary, use a soft cloth moistened with alcohol to wipe off the dust.
4. When the camera installs in dust or wet environment, please puts into the camera housing.
5. Be extra careful not to shake the camera.
6. Avoid places where temperatures exceed 50 ℃ or more.
7. Be extra careful not to mistake plug in connect.
8. The camera are only operated with regulative adaptor DC 12V, AC to DC non-regulative adaptor may cause camera damaged.
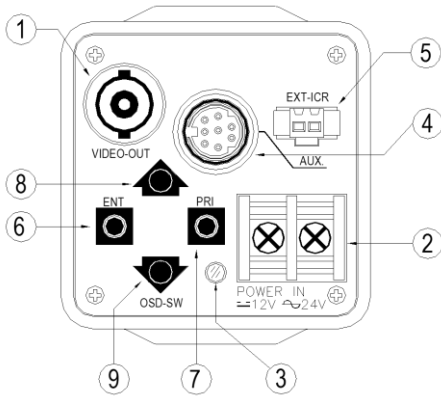
※The specifications and appearance of the product may change without notice.

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Model No.VV100W　企_VER 1.0

VV100W　C/CS Mount BOX

Dimension (Unit : mm / ±0.5mm)

55.5
115
50.5

① VIDEO OUTPUT
② POWER INPUT
③ POWER ON INDEX LED
④ AUX　(option)
⑤ EXT. ICR CONTRAL INPUT
⑥ OSD-SW "ENTER"
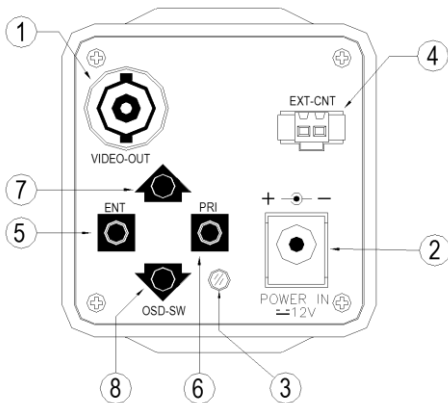⑦ OSD-SW "PRIDIAN"
⑧ OSD-SW "UP"
⑨ OSD-SW "DOWN"

Item No.MTV-63VV100WH-AICR

- CVBS Video out
- Power: DC 12V&24V/ 4W (MAX)
- AUX　(option)
- IR-Cut Removable
- OSD control
- **2/3D NR**

Features : VV100W common functions

EXT-ICR
AUX.
VIDEO-OUT
ENT　PRI
OSD-SW
POWER IN
12V 24V

Item No.MTV-63VV100WH-DICR

- CVBS Video out
- Power: DC 12VV/ 4W (MAX)
- AUX　(option)
- IR-Cut Removable
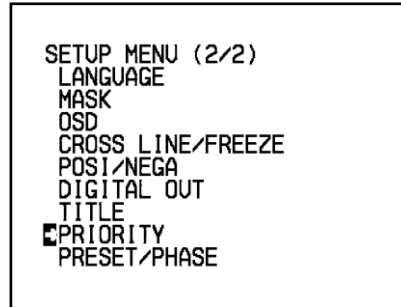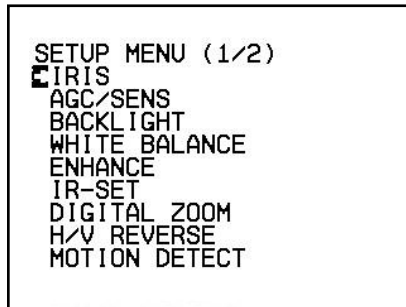- OSD control
- **2/3D NR**

Features : VV100W common functions

EXT-CNT
VIDEO-OUT
ENT　PRI
+ －
OSD-SW
POWER IN
12V

Model No.VV100W　企_VER 1.0

OSD MENUAL

Use push switch [UP],[DOWN],[ENT],[PRI],push the [ENT] switch up to 1~2 second, a pretty menu will be pop-up on your screen.

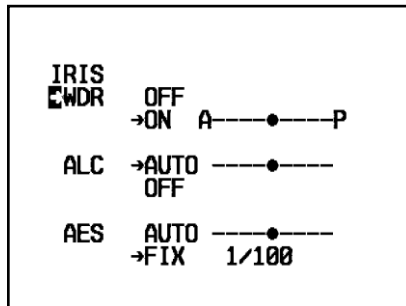You may now push [UP] or [DOWN] switch to browse around menu.

ENTERING TO OSD

1. SETUP MENU

```
SETUP MENU (1/2)
◨IRIS
 AGC/SENS
 BACKLIGHT
 WHITE BALANCE
 ENHANCE
 IR-SET
 DIGITAL ZOOM
 H/V REVERSE
 MOTION DETECT
```

```
SETUP MENU (2/2)
 LANGUAGE
 MASK
 OSD
 CROSS LINE/FREEZE
 POSI/NEGA
 DIGITAL OUT
 TITLE
◨PRIORITY
 PRESET/PHASE
```

You may now push "UP" or "DOWN" bottom to browse around two page menu.

2. IRIS

```
IRIS
◨WDR    OFF
       →ON  A----●----P

 ALC   →AUTO ----●----
        OFF

 AES    AUTO ----●----
       →FIX  1/100
```

This is used to control the iris & shutter speed of the lens. It included 3 items "WDR", "ALC", "AES".
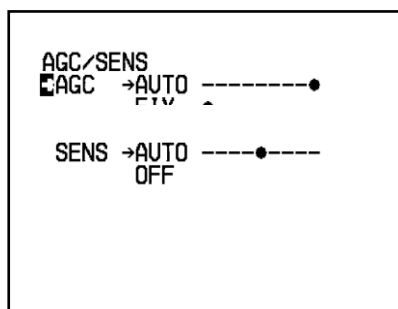
「WDR LEVEL」 ：SWDR LEVEL is used to control the SWDR level.

「ALC」 ：ALC is used to select AUTO or FIX. Adjust IRIS level.

「AES」 ：AES is used to select electronic shutter be AUTO or FIX function, at AUTO mode can be
        adjust　AES level,at FIX mode can be selector shutter speed at below,
        [OFF]，[1/100sec]，[1/120sec]，[1/180sec]，[1/350sec]，[1/500sec]，[1/750sec]，[1/1000sec]，[1/2000sec]，
        [1/4000sec]，[1/10000sec].

After setting, push [ENT] memory set state, After push [PRI] key to go back to the main menu page.

3. AGC . SENS

```
AGC/SENS
◨AGC  →AUTO --------●
       FIX  ●

 SENS →AUTO ----●----
       OFF
```
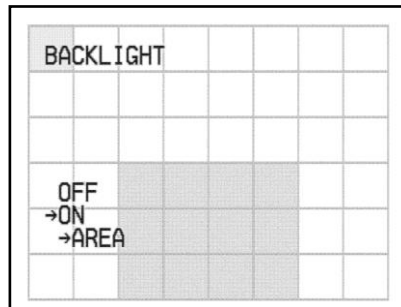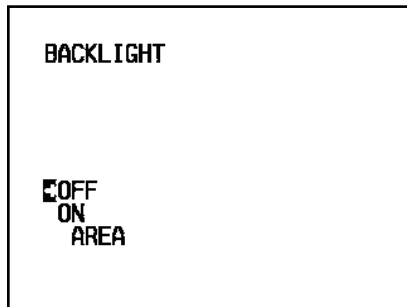
This is used to select 「AGC」 and 「SENS」 function.

「AGC」：To adjust auto gain control only [AUTO] mode have 9 steps adjustable.

「SENS」：For low light application can be select [AUTO] or [OFF] 9 steps adjustable at AUTO mode..

After setting, push [ENT] memory set state, After push [PRI] key to go back to the main menu page.

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4. BACKLIGHT

```
BACKLIGHT




 OFF
 ON
   AREA
```

```
BACKLIGHT


   OFF
 →ON
   →AREA
```
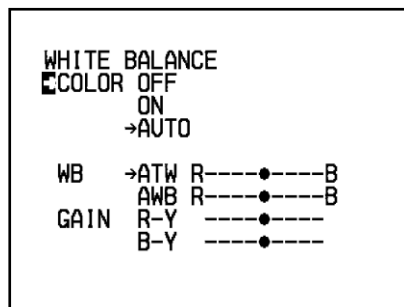
This is used to control "BLC" (Back Light Compensation),
「BLC」 : ON / OFF selector. Selector [ON] have sub-items [AREA].
「AREA」 : 48 BLC zones can be set separatly. According to the mask area (BLC zone) signal
to decide the iris level and shutter speed.
After setting, push [ENT] memory set state, After push [PRI] key to go back to the main menu page.

5. WHITE BALANCE

```
WHITE BALANCE
 COLOR OFF
       ON
     →AUTO

  WB   →ATW R----●----B
        AWB R----●----B
  GAIN  R-Y  ----●----
        B-Y  ----●----
```

This is used to control the color ON/OFF and white balance and the gain rate of RED & BLUE color.
「COLOR」 : Selector OFF is monochrome image，ON is normal color image，AUTO is at low light
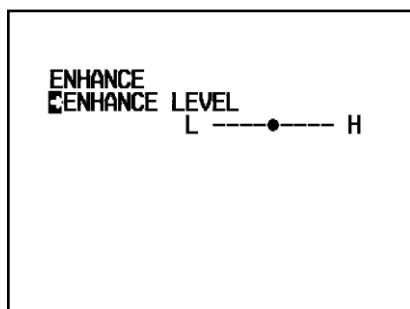AGC up, display image will be auto change to monochrome image.
「WB」 : White balance control,ATW is Auto trace white balance,can be adjust offset level.
Move arrow from ATW to AWB it will lock the current color temperature at the same time,
can be adjust offset level .
「GAIN」 : The gain rate of R-Y & B-Y can be adjusted separately.
After setting, push [ENT] memory set state, After push [PRI] key to go back to the main menu page.

6. ENHANCE

```
ENHANCE
 ENHANCE LEVEL
          L ----●---- H
```
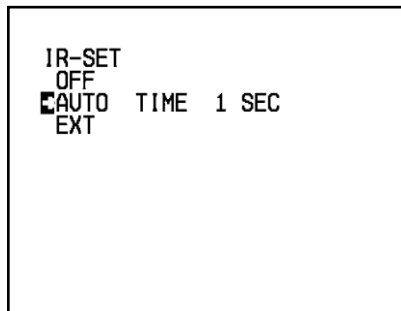
This is used to adjust the camera image enhance level.
「ENHANCE」 : Adjust enhance level.
After setting, push [ENT] memory set state, After push [PRI] key to go back to the main menu page.

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7. IR-SET

```
IR-SET
 OFF
▉AUTO  TIME  1 SEC
 EXT
```

This is used to select the IR-CUT Filter operation mode.
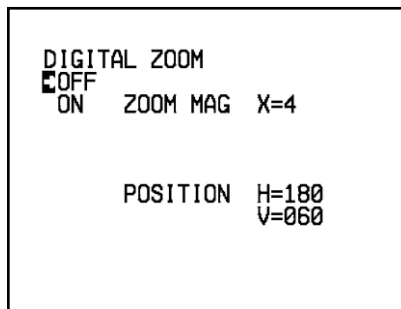「OFF」：Select this mode ICR contral is no operation
「AUTO」：Select this mode ICR contral is by AGC-LEVEL decide output .
　　　　　Can be select switch delay time at the 1, 5, 10 ,20 ,30 ,40 ,50 ,60sec.
「EXT」：Select this mode ICR contral is by external signal decide output.
After setting, push [ENT] memory set state, After push [PRI] key to go back to the main menu page.

8. DIGITAL ZOOM

```
DIGITAL ZOOM
▉OFF
 ON   ZOOM MAG  X=4


     POSITION  H=180
               V=060
```
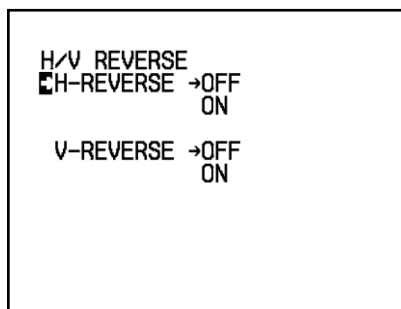
This is used to select the DIGITAL ZOOM & DIGITAL PAN / TITEL operation mode.
「OFF」：Select this mode digital zoom is off.
「ON」：Select this mode digital zoom is two times, At the this mode can be move "ZOOM POSITION" use [UP] & [DOWN] key.
After setting, push [ENT] memory set state, After push [PRI] key to go back to the main menu page.

9. H/V REVERSE

```
H/V REVERSE
▉H-REVERSE →OFF
            ON

 V-REVERSE →OFF
            ON
```
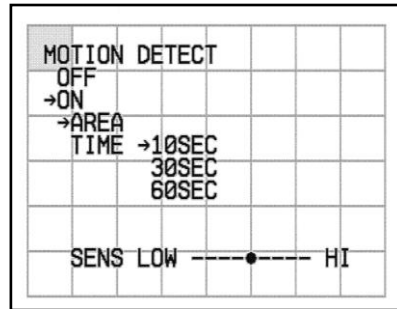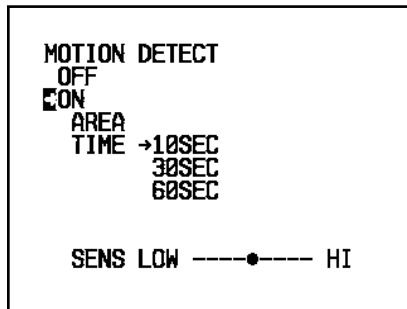
This is used to select image 「Horizontal Reverse」 and 「Vertical Reverse」 function.
「H-REVERSE」：Horizontal Reverse (Mirror) ON/OFF
「V-REVERSE」：Vertical Reverse (Up-side down) ON/OFF
After setting, push [ENT] memory set state, After push [PRI] key to go back to the main menu page.

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MOTION DETECT

```
MOTION DETECT
  OFF
 ON
   AREA
   TIME →10SEC
         30SEC
         60SEC


SENS LOW ----●---- HI
```

```
MOTION DETECT
  OFF
 →ON
  →AREA
   TIME →10SEC
         30SEC
         60SEC


SENS LOW ----●---- HI
```

This is used to select the montion detcet function.

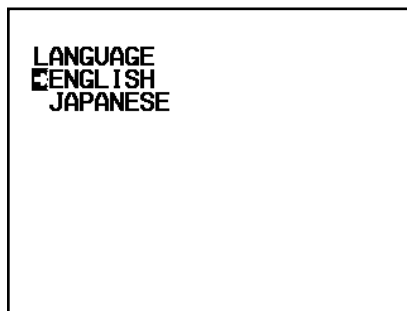「OFF」：Motion detect function is OFF.

「ON」：Motion detect function is ON.

「AREA」：At the this mode can be select motion detect area, use [UP] & [DOWN] key move gray block to detcet position push[ENT] set the position repeat the operation still all detcet position is mask by gray block, push [PRI] leave this setting.

「TIME」：Select motion detects output time.

「SENS」：Motion detect sensitive adjust.

After setting, push [ENT] memory set state, After push [PRI] key to go back to the main menu page.

10. LANGUAGE

```
LANGUAGE
 ENGLISH
  JAPANESE
```
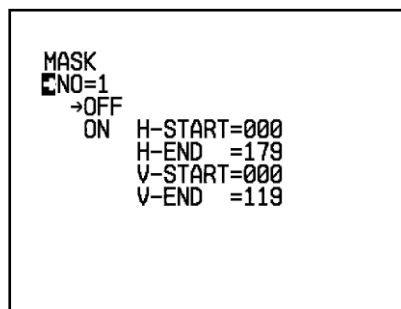
This is used to select the OSD manu language.

「ENGLISH」: English mode

「JAPANESE」: JAPANESE mode

Push [PRI] key to go back to the main menu page.

11. MASK

```
MASK
 NO=1
  →OFF
   ON  H-START=000
       H-END  =179
       V-START=000
       V-END  =119
```

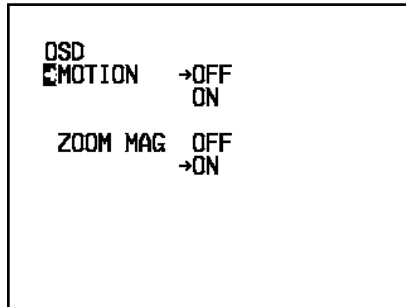This is used to select mask area size and position and mask area display ON or OFF.

「NO」： Select 1~8 mask area number.

「OFF」：Mask area display is off.

「ON」：Mask area display is on, can be use [UP] & [DOWN] key set mask area size and position .

After setting, push [ENT] memory set state, After push [PRI] key to go back to the main menu page.

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12. OSD

```
OSD
▐MOTION    →OFF
            ON

   ZOOM MAG  OFF
           →ON
```
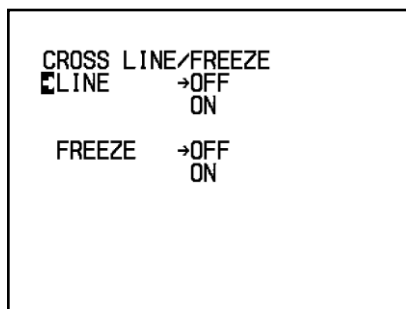
This is used to select on screen display ON / OFF select.
「MONTION」：Montion action display ON / OFF select.
「ZOOM MAG」Zoom times display ON / OFF select.
After setting, push [ENT] memory set state, After push [PRI] key to go back to the main menu page.

13. CROSS LINE /FREEZE

```
CROSS LINE/FREEZE
▐LINE     →OFF
            ON

   FREEZE   →OFF
            ON
```
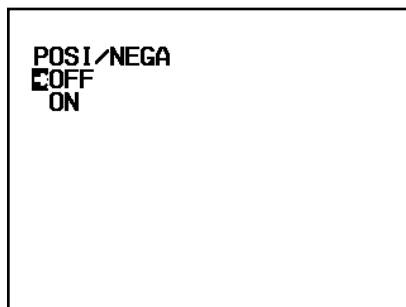
This is used to select display a cross line on screen ON or OFF.
「LINE」：Cross line display ON/OFF select.
「FREEZE」：Image freeze ON/OFF select.
After setting, push [ENT] memory set state, After push [PRI] key to go back to the main menu page.

14. POSI / NEGA

```
POSI/NEGA
▐OFF
  ON
```
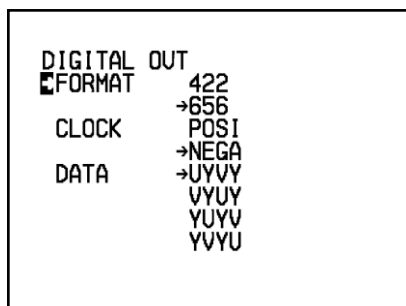
This is used to select image positive and negative.
「OFF」：Image Display is normal image.
「ON」：Image Display is negative image.
After setting, push [ENT] memory set state, After push [PRI] key to go back to the main menu page.

15. DIGITAL OUT

```
DIGITAL OUT
▐FORMAT    422
          →656
   CLOCK    POSI
          →NEGA
   DATA   →UYVY
           VYUY
           YUYV
           YVYU
```

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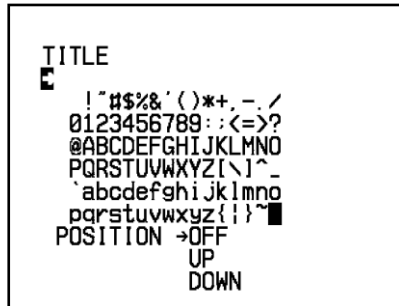
This is used to select digital output format.

「FORMAT」：Select digital output format is [YUV4.2.2] or [ITU656].

「CLOCK」：Select digital output clock active is positive or negative.

「DATA」：Select digital output data sequence is [UYUV] or [VYUY] or [YUYV] or [YVYU].

After setting, push [ENT] memory set state, After push [PRI] key to go back to the main menu page.

16. TITLE

```
TITLE
█
    !"#$%&'()*+,-./
   0123456789:;<=>?
   @ABCDEFGHIJKLMNO
   PQRSTUVWXYZ[\]^_
   `abcdefghijklmno
   pqrstuvwxyz{|}~█
   POSITION →OFF
              UP
              DOWN
```
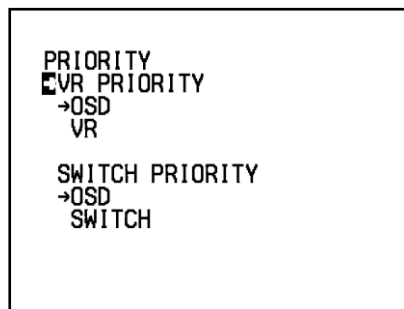
This is used to set up the ID figures & position on the screen. (Title setting)

「➜」：Horizontal start position selector, use [UP] & [DOWN] key move cursor to select position, push [ENT] set the position
        after use [UP] & [DOWN] move cursor to select character, push[ENT] set the character to select position.

「POSITION」：Select character display is OFF or display position UP or DOWN selector.

After setting, push [ENT] memory set state, After push [PRI] key to go back to the main menu page.

17. PRIORITY

```
PRIORITY
█VR PRIORITY
 →OSD
  VR

 SWITCH PRIORITY
 →OSD
  SWITCH
```
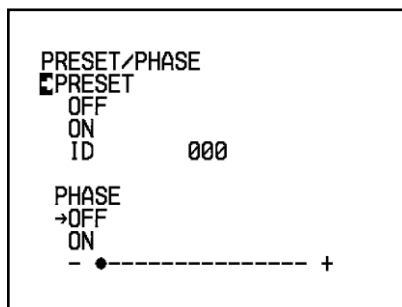
This is used to select control priority is OSD manu or hardware VR & SWITCH.

「VR PRIORITY」：Select iris lever control priority is osd manual or hardware VR.

「SWITCH PRIORITY」：Select function control priority is osd manual or hardware SWITCH.

After setting, push [ENT] memory set state, After push [PRI] key to go back to the main menu page.

18. PRESET / PHASE

```
PRESET/PHASE
█PRESET
  OFF
  ON
  ID      000

 PHASE
 →OFF
  ON
  - ◆--------------- +
```

This is used to select PRESET on/off and lin lock on/off & phase adjustment.
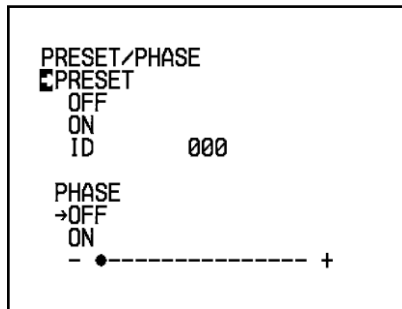
「PRESET」：Select preset ON/OFF mode.

「ID」：RS-485 commection ID number select.

「PHASE」：Select line lock ON/OFF mode,at ON mode can be adjust line lock phase.

After setting, push [ENT] memory set state, After push [PRI] key to go back to the main menu page.

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19. PRESET / PHASE

```
PRESET/PHASE
▐PRESET
  OFF
  ON
  ID      000

 PHASE
→OFF
  ON
  - ●--------------- +
```

This is used to select PRESET on/off and lin lock on/off & phase adjustment.

「PRESET」: Select preset ON/OFF mode.

「ID」: RS-485 commection ID number select.

「PHASE」: Select line lock ON/OFF mode,at ON mode can be adjust line lock phase.

After setting, push [ENT] memory set state, After push [PRI] key to go back to the main menu page.

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