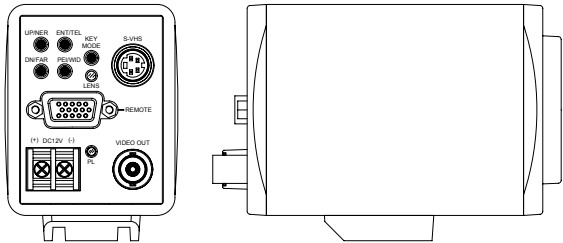


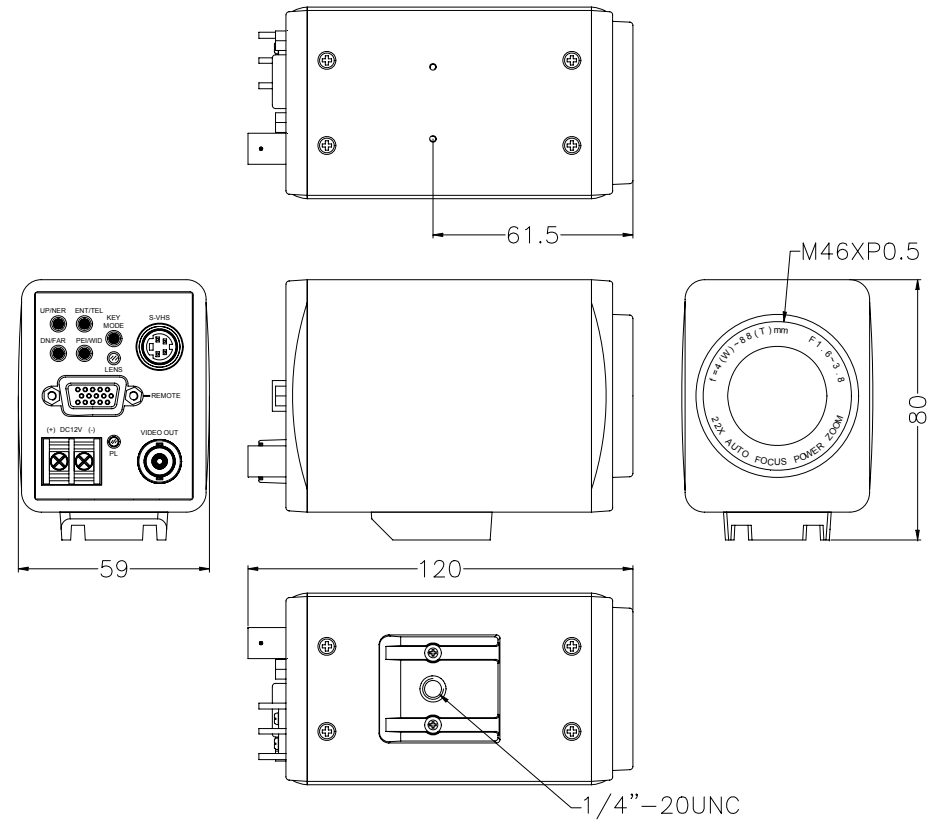
MTV-64G5DH POWER ZOOM CAMERA INSTRUCTION



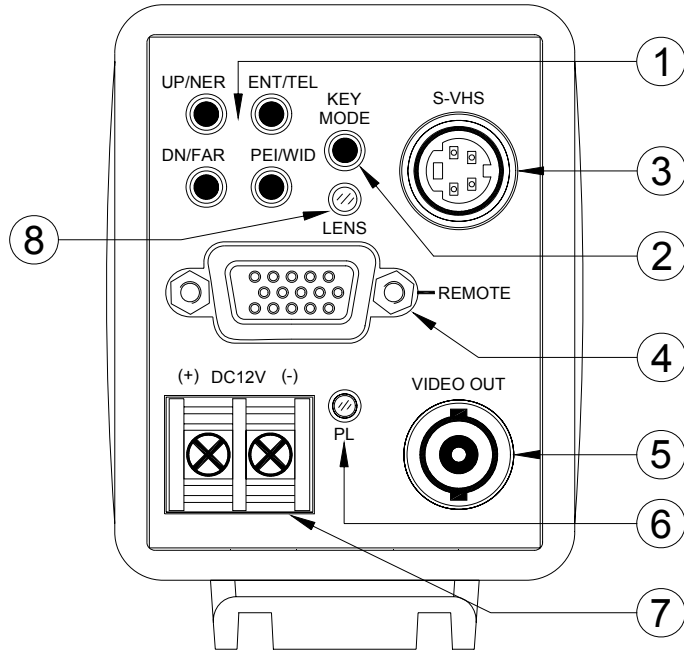
SPECIFICATION

MODE NO.	MTV-64G5DHN	MTV-64G5DHP
TV SYSTEM	NTSC	PAL
IMAGE SENSOR	1/4-inch CCD Image Sensor	
CCD TOTAL PIXELS	~ 410K	~ 470K
SCANNING SYSTEM	525 lines, 60 fields/sec	625 lines, 50 fields/sec
SYNC SYSTEM	Internal / VD-Lock	
MINIMUM ILLUMINATION	0.07 Lux @ F1.6 AGC on BW	
RESOLUTION	520TVL	
S / N RATIO	48dB (MIN) / 52dB (TYP) (AGC OFF , r=1 , APC OFF , Y-OUT)	
WHITE BALANCE	ATW / AWB / FIX (Zero color rolling)	
WHITE BALANCE RANGE	3200 ~ 9600 °K	
B.L.C. FUNCTION	Super BLC, 48 zone BLC	
GAMMA CORRECTION	0.45 / 1	
AGC	AUTO (18dB max)	
ALC	AUTO / FIX	
IMAGE NEGATIVE	Select by OSD menu	
MONITION DETECT	48 zone (select by OSD)	
FREEZE FUNCTION	Alarm in trigger or Select by OSD	
CROSS LINE	ON/OFF Select by OSD menu (position adj. by software)	
ELECTRONIC SHUTTER	AES : 1/60(1/50) ~ 1/120,000 sec. / MANUAL : 8 step	
LENS	22X optical ZOOM LENS ,F1.6~3.8,f=4.0~88.0mm	
	Diagonal	W(57° 38') / T(2° 50')
	Hor.	W(47° 31') / T(2° 16')
	Ver.	W(36° 32') / T(1° 42')
ZOOM	220X (22X optical 10Xdigital)	
FOCUS	Auto / Manual	
POSITION	64 Position (Zoom , Focus)	
VIDEO OUTPUT	Composite & Y/C output 1.0Vp-p at 75 ohm	
CONTRAL FUNCTION	OSD control ,Dry Switch , RS-232C / RS-485(selectable , only one active / preset RS-232C)	
OSD LANGUAGE SELECT	ENGLISH / CHINESS_Simp / JAPANESE	
OPERATION TEMPERATURE	-10°C TO 50°C	
OPERATIONAL HUMIDITY	within 85% RH	
POWER SUPPLY	DC12V±1V / 3.6W(Max)	
DIMENSIONS	120 mm (L) X 59 mm (W) X 80 mm (H)	

* The specifications and appearance of the product may changed without notice.
Dimension (Unit : mm)



CONNECTOR



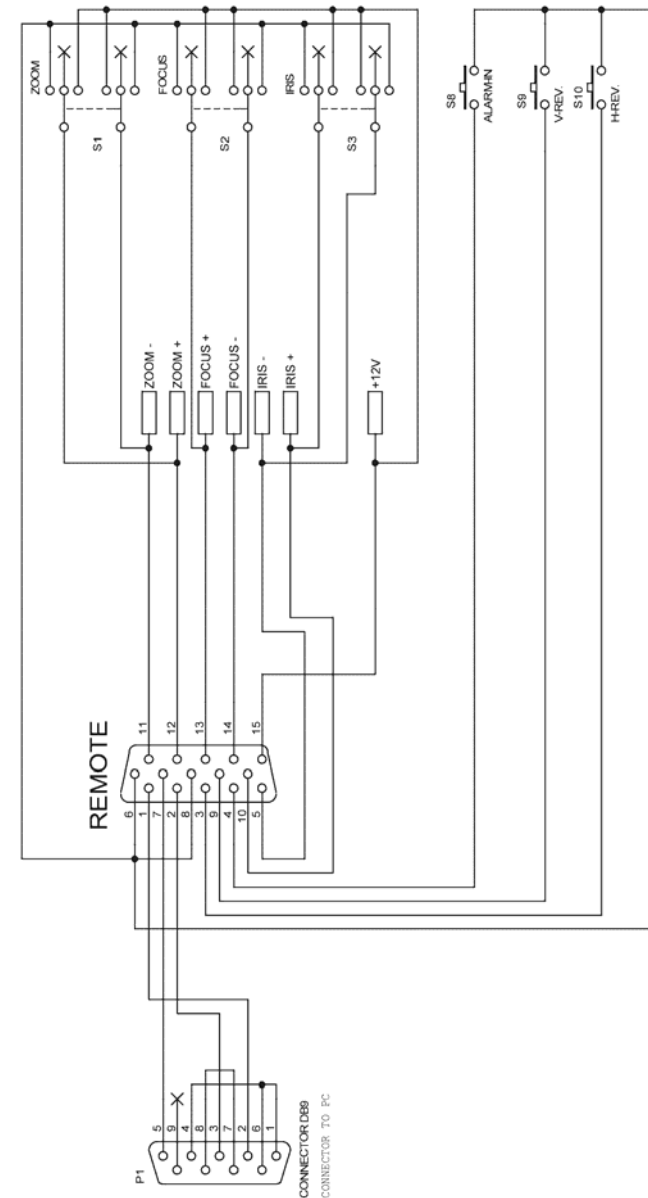
REAR PANEL

- 【1】 FUNCTION SWITCH : OSD or LENS-CONTROL ues, select by KEY MODE SW ◦
- 【2】 KEY MODE SW : switch FUNCTION SWITCH to OSD or LENS-CONTROL use ◦
- 【3】 S-VHS : S-Video output (Y/C output) ◦
- 【4】 REMOTE : 15Pin Dsub CONNECTOR

P01	TXD	P06	GND	P11	ZOOM(-)
P02	RXD	P07	GND	P12	ZOOM(+)
P03	H-REV,	P08	GND	P13	FOCUS(+)
P04	ALARM-IN	P09	V-REV.	P14	FOCUS(-)
P05	IRIS(-)	P10	IRIS(+)	P15	+12V
P7-GND only for RS-232 Interface					

- 【5】 VIDEO OUT : Composite Video output.◦
- 【6】 PL : LED to indicate power on.◦
- 【7】 POWER INPUT : SCREW TERM. For Power input.◦

【8】 LENS : LED to indicate FUNCTION SWITCH is use for LENS-CONTROL ◦ REMOTE CONNECTOR REFERENCE



OSD FUNCTION SPECIFICATIO

[UP] : UP & RIGHT MOVE KEY
[DOWN] : DOWN & LEFT MOVE KEY
[ENTER] : ENTER KEY
[PRI] : PRE CONFIRM KEY

Push [ENTER] key 2sec. to get into the MAIN menu.

Push [PRI] key 2sec. to leave menu.

If pushed [PRI] key, all set parameter data will be abandoned and return back to the previous menu page, this will occur while setting the parameter and without push [ENTER] key.

Push [UP], [DOWN] Two key at one time, screen will show COLOR BAR, want to recover normal display,

Push again [UP], [DOWN] Two key at one time, screen will recover normal display

MAIN-PAGE

→ I R I S
B L C
A G C S E N S
C O L O R
A P C
L E N S
R E V
P O S I T I O N
I D
P R E S E T

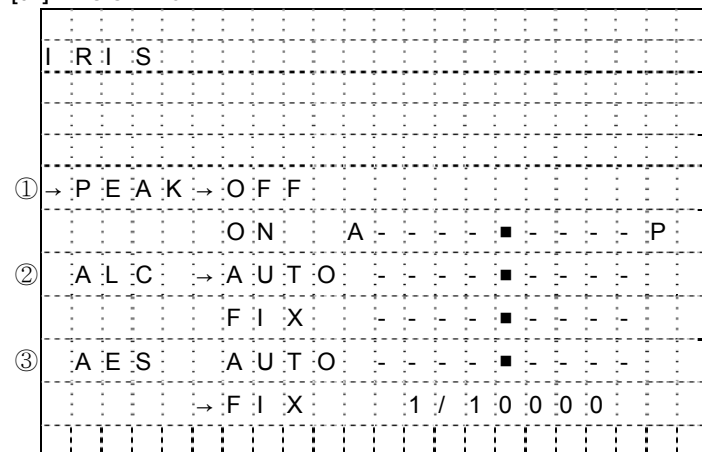
NEXT PAGE

→ M A R K
G A M M A
P O W E R O N
M O T I O N
M A S K
O S D
Z O O M + A F
L A N G U A G E
C O M M I D

Push [ENTER] 2 senc, get into the main menu

There are 19 items on the main menu, by up / down key to select item and push [ENTER] key to get into sub-item menu.

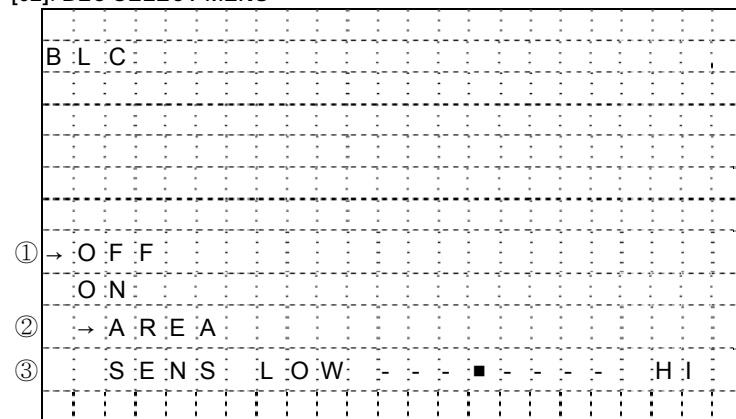
[01]. IRIS SELECT MEN



This is used to control the iris & shutter speed of the lens. It included 3 items "PEAK", "ALC", "AES".

- ① 「PEAK」 is used to control the reaction of auto iris, which is based on the average light of picture signal or the light rate of the peak.
- ② 「ALC」 is used to select AUTO or FIX. Adjust IRIS level
- ③ 「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], [1/250sec], [1/500sec], [1/1000sec], [1/2000sec], [1/4000sec], [1/10000sec]. After setting, push [PRI] key to go back to the main menu page.

[02]. BLC SELECT MENU



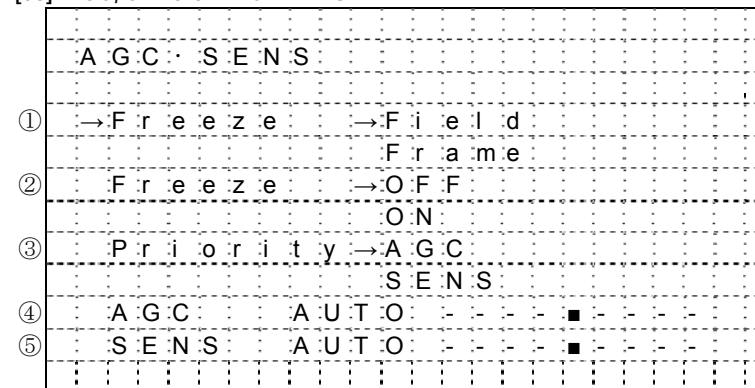
This is used to control "BLC" (Back Light Compensation),

- ① 「BLC」 ON / OFF selector.

Selector 「ON」 has 2 sub-items : 「AREA」, 「SENS」.

- ② 「AREA」 : 48 BLC zones can be set separately. According to the mask area (BLC zone) signal to decide the iris and shutter speed.
 - ③ 「SENS」 : Is used to enhance the BLC effect.
- After setting, push [PRI] key to go back to the main menu page.

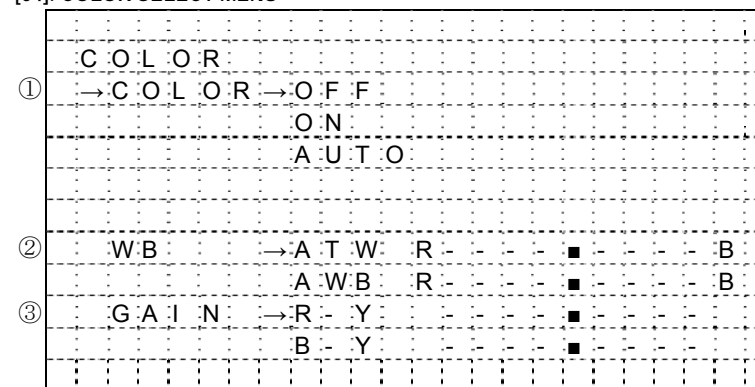
[03]. AGC, SENS SELECT MENU



This is used to select 「FREEZE」 and 「Priority」 & 「AGC」 and 「SENS」 function.

- ① 「FREEZE」 type : can be select freeze image is 「Field」 or 「Frame」 display mode.
 - ② 「FREEZE」 ON / OFF : ON (Freeze) / OFF(Unfreeze).
 - ③ 「Priority」 : Select priority is AGC or SENS
 - ④ 「AGC」 : To adjust auto gain control, 0dB, 2.25dB, 4.5dB, 6.75dB, 9dB, 11.25dB, 13.5dB, 15.75dB, 18dB, 9 steps adjustable.
 - ⑤ 「SENS」 : For low light application: 0 Frame · 6 Frame · 12 Frame · 16 Frame · 18 Frame · 22 Frame · 24 Frame · 30 Frame · 36 Frame, 9 steps adjustable.
- After setting, push [PRI] key to go back to the main menu page.

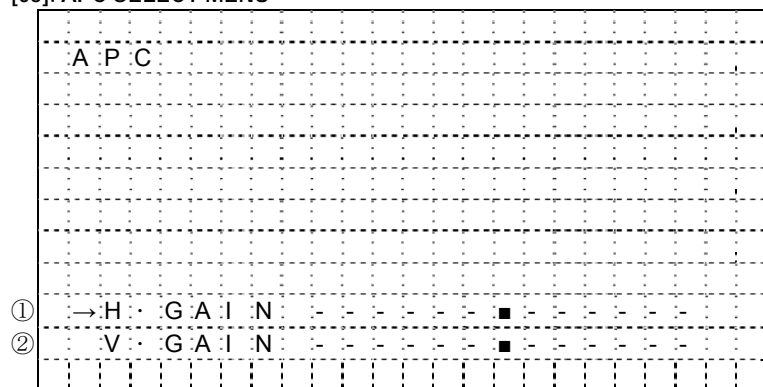
[04]. COLOR SELECT MENU



This is used to control the color ON/OFF and white balance and the gain rate of RED & BLUE color.

- ① 「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.
- ② 「WB」 White balance control : ATW is Auto trace white balance, can be adjust offset level. AWB is One push white balance. Push [ENTER] key 「AWB」 will start flicker, until flicker stop it will lock the current color temperature at the same time.
- ③ 「GAIN」 : The gain rate of R-Y & B-Y can be adjusted separately.
After setting, push [PRI] key to go back to the main menu page.

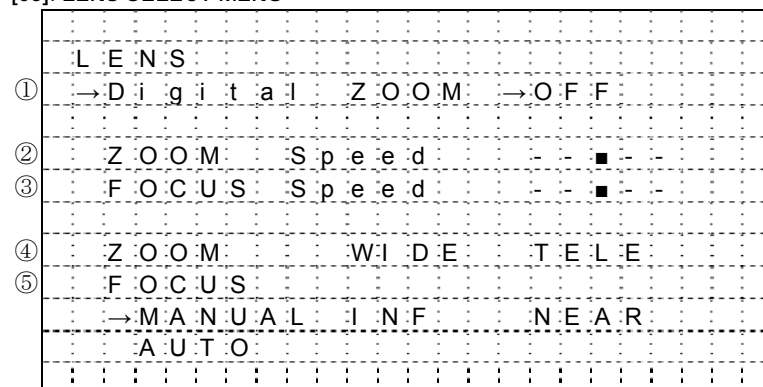
[05]. APC SELECT MENU



This is used to enhance the compensation of the picture quality.

- ① 「H • GAIN」 : Horizontal Compensation
 - ② 「V • GAIN」 : Vertical Compensation
- After setting, push [PRI] key to go back to the main menu page.

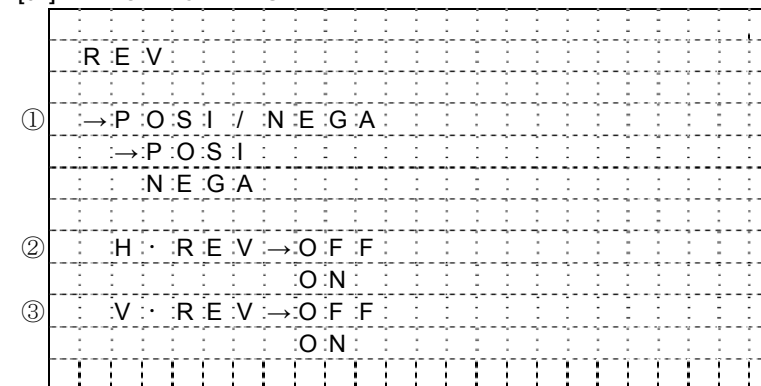
[06]. LENS SELECT MENU



This is used to control the motion of the lens, included "Digital ZOOM" ON/OFF and times set function.

- ① 「Digital ZOOM」 selector : OFF 、 X2 、 X4 、 X6 、 X8 、 X10.
- ② 「ZOOM Speed」 : Set the speed of the zoom.
- ③ 「FOCUS Speed」 : Set the speed of focus.
- ④ 「ZOOM」 : Lens ZOOM adjust WIDE / TELE
- ⑤ 「FOCUS」 : AUTO / MANUAL setting
After setting, push [PRI] key to go back to the main menu page.

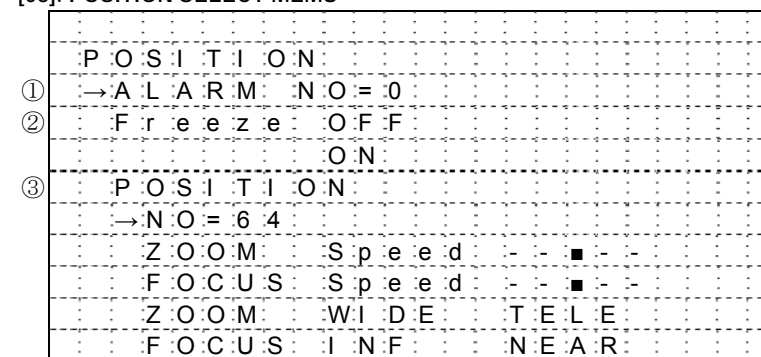
[07]. REV. SELECT MENU

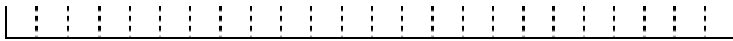


This is used to select image 「Positive」 and 「Negative」 & 「Horizontal Reverse」 and 「Vertical Reverse」 function.

- ① 「POS/NEGA」 : Image positive & negative select.
 - ② 「H.REV」 : Horizontal Reverse (Mirror) ON/OFF
 - ③ 「V.REV」 : Vertical Reverse (Up-side down) ON/OFF
- After setting, push [PRI] key to go back to the main menu page.

[08]. POSITION SELECT MENU

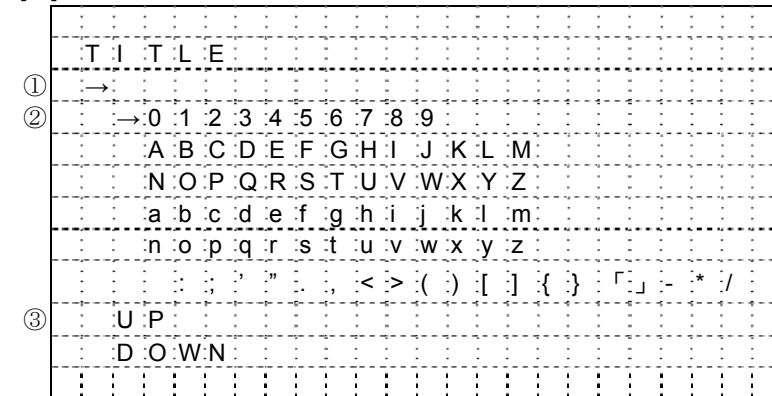




This is used to set 「ALARM-IN」 function, either 「ALARM POSITION」 or 「IMAGE FREEZE」.

- ① 「ALARM NO.」 : Set alarm position(1~64), if set to (0) alarm position is not enable.
- ② 「Freeze」 : Set ON mode, 「ALARM-IN」 is freeze trigger input.
- ③ 「POSITION」 : The alarm position have 64 steps (position) can be programmed.
By this program, the zoom & focus may go to the exactly position where is programmed.
After setting, push [PRI] key to go back to the main menu page.

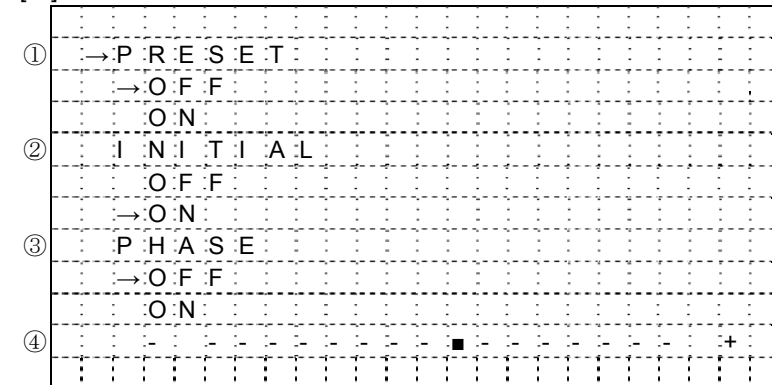
[09]. TITLE SELECT MENU



This is used to set up the ID figures & position on the screen. (Title setting)

- ① TITLE start position selector.
 - ② TITLE Character selector.
 - ③ TITLE display position UP or DOWN selector.
- After setting, push [PRI] key to go back to the main menu page.

[10]. PRESET SELECT MENU

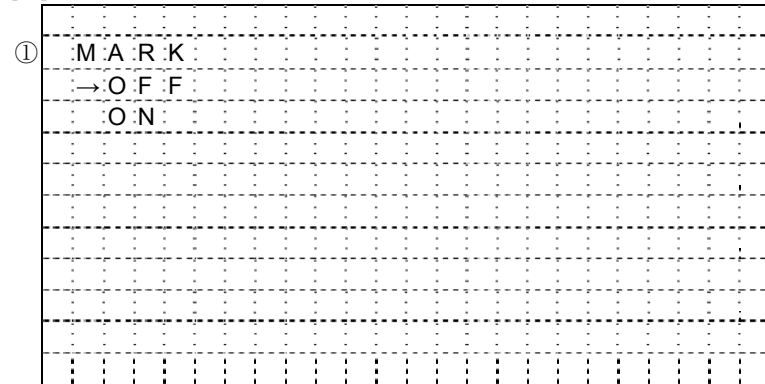


This is used to select the camera go back to "PRESET", "INITIAL", "PHASE" condition

- ① 「PRESET」 : Set to ON camera will be reset and set to default data.
 - ② 「INITIAL」 select : Set to ON lens is action, Set to OFF lens is do not action.
 - ③ 「PHASE」 adj select : Set to OFF ext-sync is disable, Set to ON ext-VD sync is enable,
(EXT-VD signal must be input)
 - ④ PHASE set to ON sync-phase adjustment.
- After setting, push [PRI] key to go back to the main menu page.

The menu at next page
at "PRESET" position push [DOWN] key can into this menu.

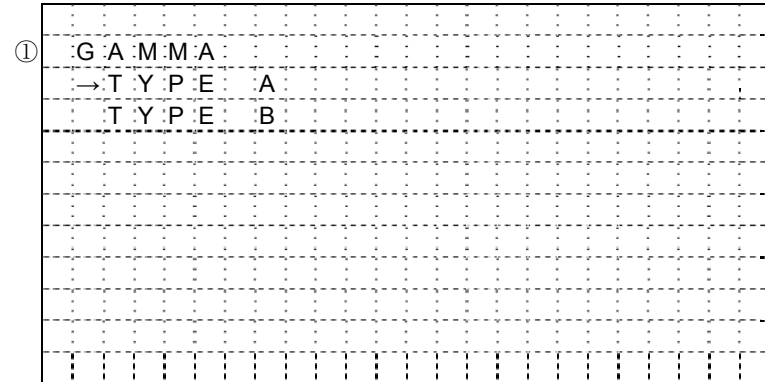
[11]. MARK MENU



This is used to select the cross line display ON / FF.

- ① 「MARK」 : Cross line ON/OFF select, set ON cross line display, set OFF cross line is hidden.

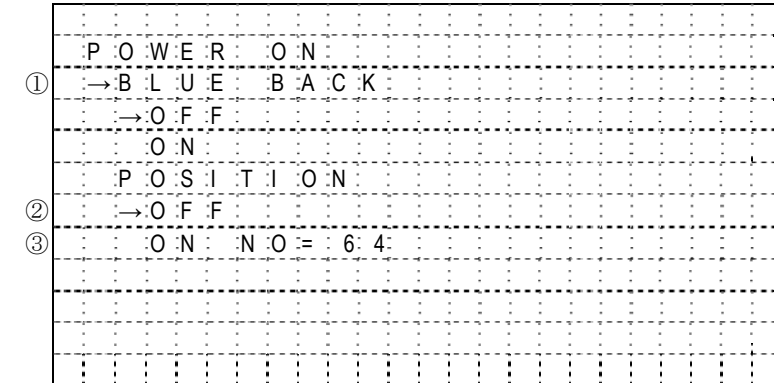
[12]. GAMMA MENU



This is used to select the camera gamma correction.

- ① 「GAMMA」 select : TYPE-A gamma is 0.45, TYPE-B gamma is 1.0

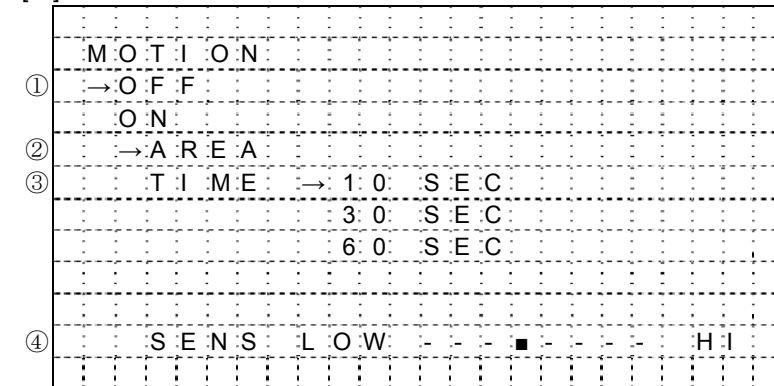
[13]. POWER ON MENU



This is used to select the camera power on state.

- ① 「BLUE BACK」 : Set to OFF camera power on initial is normal display, Set to ON camera power on initial is display blue back.
② 「POSITION OFF」 : Camera power on lens position is current position.
③ 「POSITION ON」 : Camera power on lens position is go to the designation position(1~64).

[14]. MOTION MENU



This is used to select the motion detect function.

- ① Motion detect ON / OFF select.
② Motion detect area select.
③ Motion detect output time select.
④ Motion detect sensitive adjust.

[15]. MASK MENU

	M A S K
①	→ P O S I T I O N N O = 6 4
②	M A S K N O = 1
③	→ O F F
④	O N : → H - S T A R T = 2 0
⑤	H - E N D = 2 0
⑥	V - S T A R T = 2 0
⑦	V - E N D = 2 0
⑧	C O N N E C T → O F F
	O N

This is used to select mask area size and position for each setable lens position.

- ① Lens position no. select(1~64)
- ② MASK NO. select(1~4)
- ③ MASK area display ON / OFF select.
- ④ Hor. direction start position.
- ⑤ Hor. direction end position.
- ⑥ Ver. direction start position.
- ⑦ Ver. direction end position.
- ⑧ ZOOM action to link mask area, ON / OFF select..

[16]. OSD MENU

	O S D
①	→ P O S I T I O N → O F F
	O N
②	M O T I O N → O F F
	O N
③	Z O O M M A G → O F F
	O N

This is used to select on screen display ON / OFF select.

- ① POSITION NO. display ON / OFF select.
- ② MONTION action display ON / OFF select.
- ③ ZOOM times display ON / OFF select.

[17]. ZOOM+AF MENU

	Z O O M + A F
①	Z O O M + A F → O F F
	O N
②	A F S l e e p → O F F
	O N

This is used to select an occasion for auto focus action.

- ① ZOOM stops time execute lens focus once, action OFF / ON select.
- ② AF Sleep function ON / OFF select.
(As show screen stillness about 5 minutes cameras come into AF Sleep mode namely, as screen has bigger change time come back again act for normal mode namely.)

[18]. LANGUAGE MENU

①	L A N G U A G E
	→ E N G L I S H
	C H I N E S E
	J A P A N E S E

This is used to select OSD manu display language.

- ① OSD display language select, ENGLISH / CHINESE(Simp.) / JAPANESE

