

# OVERVIEW

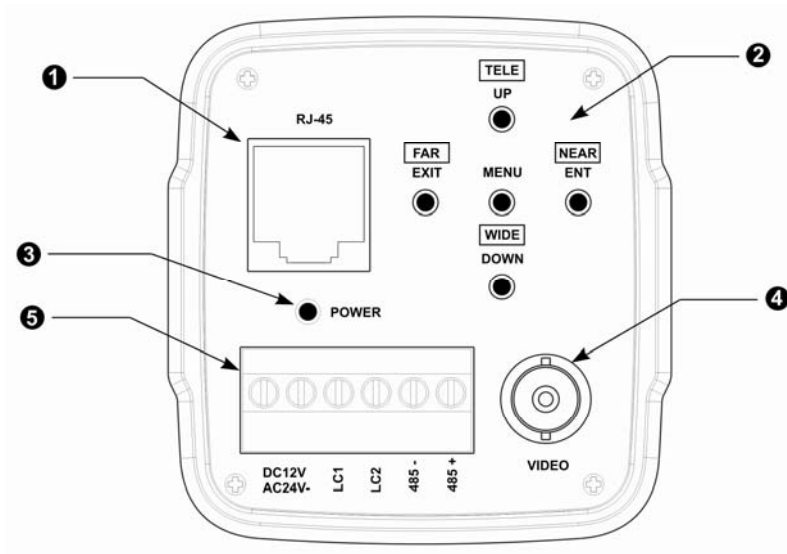
AutoCam-dn is a high resolution true Day Night Colour Auto-Focus and Zoom lens CCD camera. AutoCam-dn has Digital Slow Shutter (Frame -Integration) for high sensitivity and Motorised Movable IR Cut Filter that automatically switches the camera from colour to monochrome in low light conditions. AutoCam-dn has two independent video outputs ( BNC and Twisted Pair Transceiver with RJ45 connector )

# FEATURES

- Built-in 22X optical zoom lens and 10X digital zoom provides variable viewing angles
- High performance picture control with advanced DSP
- Digital slow shutter full colour surveillance in low light environments
- External control capability through RS-485 ( PELCO -D )
- Backlight compensation, auto-white balancing and remote focus, iris and zoom control
- ICR function application for low lux environments
- Twisted pair interface for Video and RS-485 control

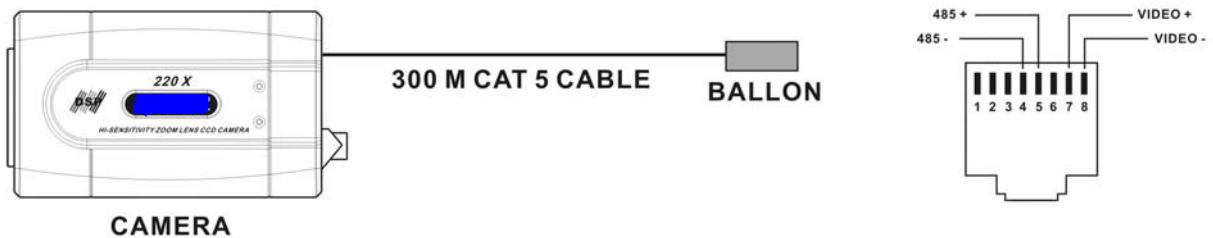
# CAMERA INSTRUCTION

## REAR PANEL



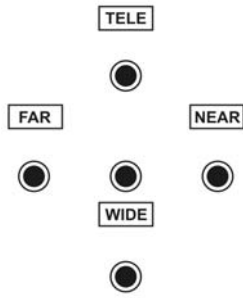
### 1 Video RJ45 connector

The RJ45 connector has a built in CAT-5 video balun, this video output is independent from the BNC video output and is designed to connect directly to CAT 5 cable. If used with a passive video balun at the far end of the CAT 5 cable you can use up to 300 meters of CAT 5 cable



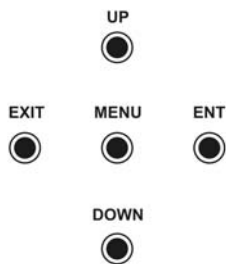
## ② *Function Switch*

### ◆ LENS CONTROL



TELE → Zoom in  
WIDE → Zoom out  
NEAR / FAR → Focus adjustable

### ◆ OSD FUNCTION CONTROL



MENU → Get into OSD main menu  
UP → UP & Right move key  
DOWN → Down & Left move key  
ENT → Enter / Confirm key  
EXIT → Return or exit menu

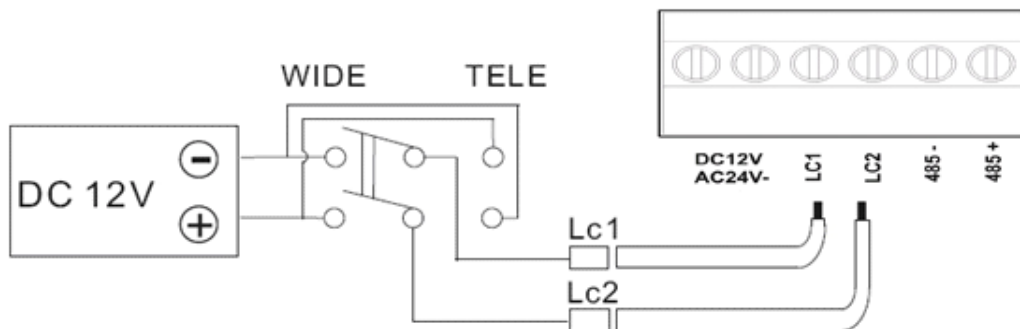
## ③ *Power LED*

LED to indicate power on

## ④ *Video out ( BNC connector )*

Composite Video output

## ⑤ *Power input / Zoom control / RS-485 control*



Power → Power ( **12VDC REGULATED ONLY** )

LC1 → Lens zoom control (DC 9~12V -)

LC2 → Lens zoom control (DC9~12V+)

485 → OSD menu remote control

# OSD FUNCTION SPECIFICATIO

## Main Menu ( Page 1. )

S	E	T	U	P	M	E	N	U	(	1	/	3	)
→	W	H	I	T	E	B	A	L	A	N	C	E	
	I	R	I	S									
	A	G	C	·	S	E	N	S					
	B	A	C	K	L	I	G	H	T				
	E	N	H	A	N	C	E	R					
	Z	O	O	M	·	F	O	C	U	S			
	H	/	V	R	E	V	E	R	S	E			
	T	I	T	L	E								
	P	R	E	S	E	T							

## Main Menu ( Page 2. )

S	E	T	U	P	M	E	N	U	(	2	/	3	)
→	M	O	T	I	O	N	D	E	T	E	C	T	
	P	O	S	I	T	I	O	N					
	G	A	M	M	A								
	P	O	W	E	R	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						

## Main Menu ( Page 3. )

S	E	T	U	P	M	E	N	U	(	3	/	3	)
→	C	R	O	S	S	L	I	N	E				
	F	R	E	E	Z	E							
	P	O	S	I	/	N	E	G	A				

## Sub Menu

### ◆ White Balance

W H I T E	B A L A N C E			
→ C O L O R	O F F			
	O N			
	→ A U T O			
	E X T			
W B	→ A T W	R - - - ■ - - B		
	A W B	R - - - ■ - - B		
G A I N	→ R - Y	- - - - ■ - - -		
	B - Y	- - - - ■ - - -		

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 [menu] 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 [EXIT] key to go back to the main menu page.

## ◆ IRIS

I R I S			
→ P E A K	→ O F F		
	O N	A ■	- - - - P
A L C	→ A U T O	- - - ■ - - -	
	F I X	- - - ■ - - -	
A E S	A U T O	- - - ■ - - -	
	→ F I X		O F F

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] , [1/120sec] , [1/250sec] , [1/500sec] , [1/1000sec] , [1/2000sec] , [1/4000sec] , [1/10000sec]

After setting, push [EXIT] key to go back to the main menu page.

## ◆ AGC·SENS

A G C · S E N S			
→ A G C	A U T O	- - - ■ - - -	
S E N S	A U T O	■ - - - - - -	

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

1. 「AGC」: To adjust auto gain control, 0dBb~24dB 9 steps adjustable.

2. 「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 [EXIT] key to go back to the main menu page.

### ◆ BACKLIGHT



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

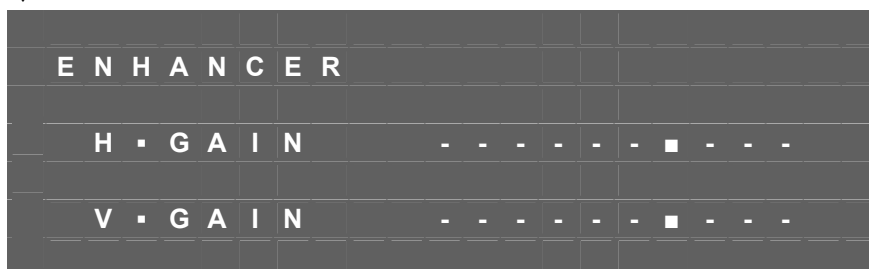
1. 「BLC」ON / OFF selector. Selector「ON」has 2 sub-items : 「AREA」, 「SENS」.

2. 「AREA」: 48 BLC zones can be set separatly. 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 [EXIT] key to go back to the main menu page.

### ◆ ENHANCER

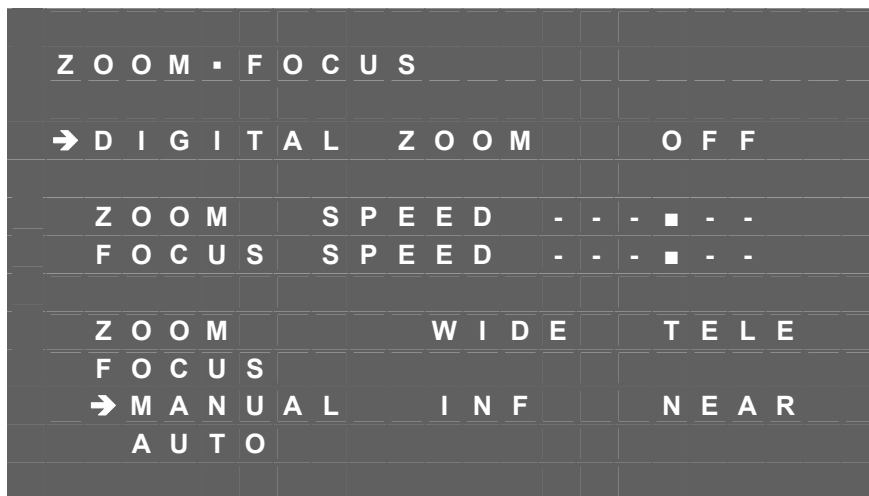


This is used to enhance the compensation of the picture quality.

1. 「H • GAIN」: Horizontal Compensation
2. 「V • GAIN」: Vertical Compensation

After setting, push [EXIT] key to go back to the main menu page.

### ◆ ZOOM • FOCUS

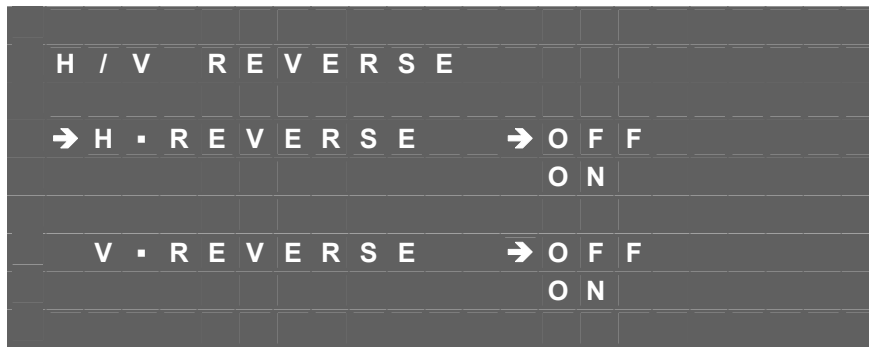


This is used to control the motion of the lens, included “Digital ZOOM” ON/OFF and times set function.

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 [EXIT] key to go back to the main menu page.

## ◆ H/V REVERSE



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

1. 「H.REVERSE」 : Horizontal Reverse (Mirror) ON/OFF
2. 「V.REVERSE」 : Vertical Reverse (Up-side down) ON/OFF

After setting, push [EXIT] key to go back to the main menu page.

## ◆ TITLE

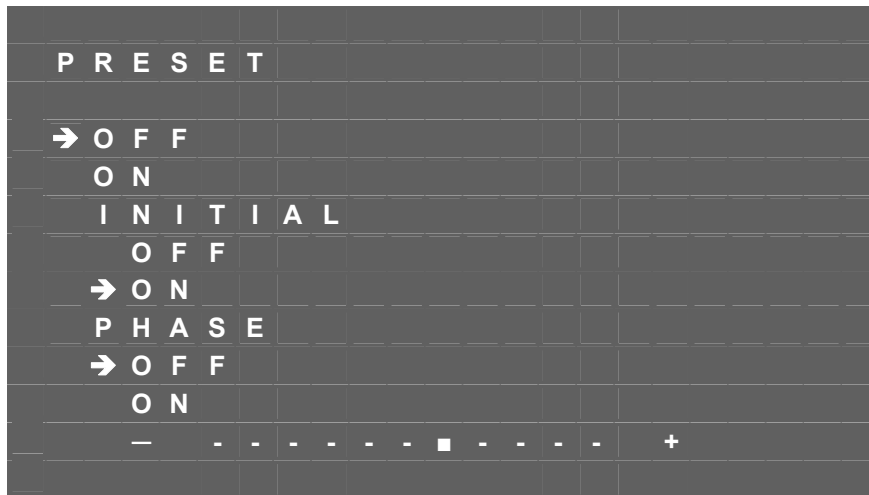


This is used to set up the ID figures & position on the screen.  
(Title setting)

1. TITLE start position selector.
2. TITLE Character selector.
3. TITLE display position UP or DOWN selector.

After setting, push [EXIT] key to go back to the main menu page.

## ◆ PRESET

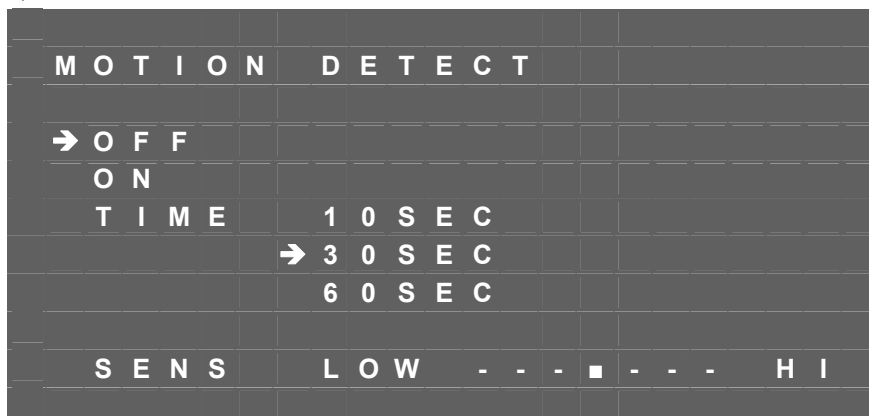


This is used to select the camera go back to “PRESET”, “INITIAL”, “PHASE” condition

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 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 [EXIT] key to go back to the main menu page.

## ◆ MOTION DETECT **UNSUPPORTED**

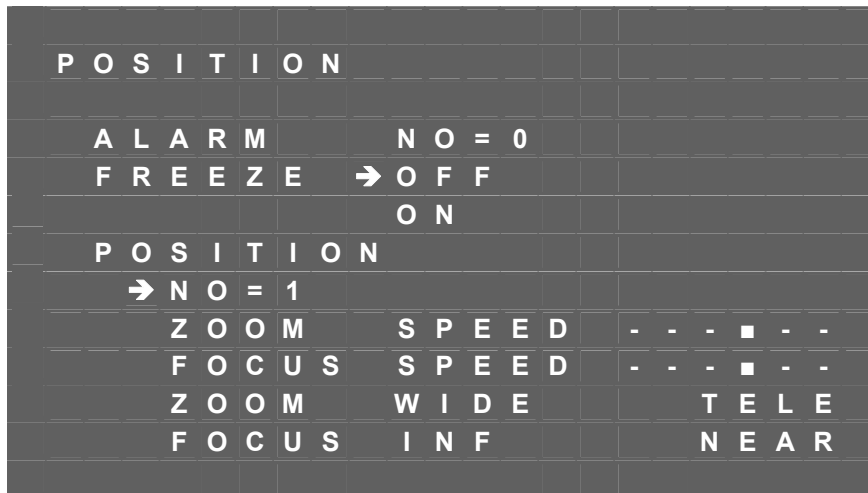


This is used to select the motion detect function.

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

After setting, push [EXIT] key to go back to the main menu page.

### ◆ POSITION UNSUPPORTED



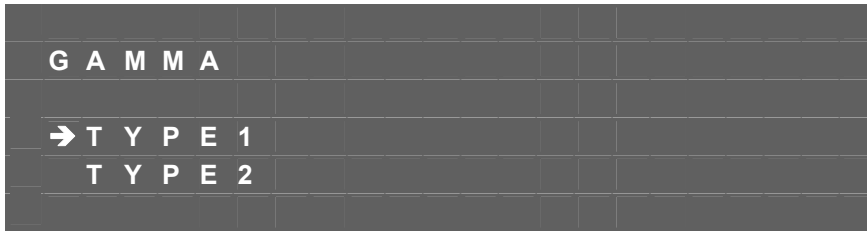
This is used to set 「ALARM-IN」 function, either 「ALARM POSITION」 or 「IMAGE FREEZE」.

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 [EXIT] key to go back to the main menu page.

## ◆ GAMMA

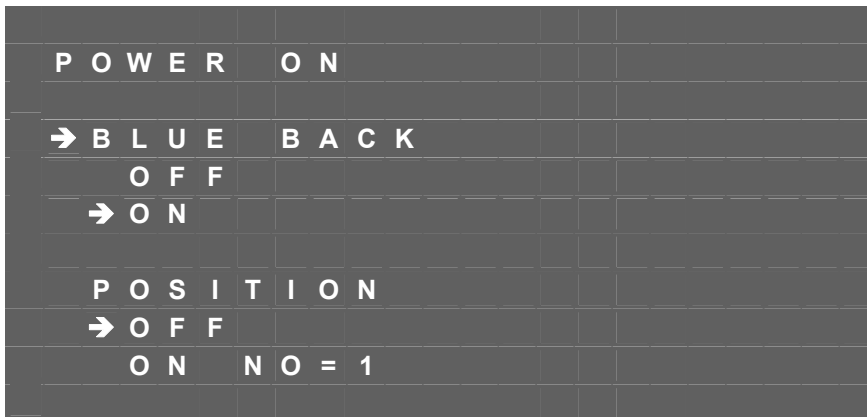


This is used to select the camera gamma correction.

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

After setting, push [EXIT] key to go back to the main menu page.

## ◆ POWER ON



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).

After setting, push [EXIT] key to go back to the main menu page.

## ◆ MASK

M A S K			
→ P O S I T I O N    N O = 1			
M A S K		N O = 1	
→ O F F			
O N    → H - S T A R T = 2 0			
H - E N D        = 2 0			
V - S T A R T = 2 0			
V - E N D        = 2 0			
C O N N E C T → O F F			
O N			

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

After setting, push [EXIT] key to go back to the main menu page.

## ◆ OSD

O S D			
→ P O S I T I O N        O F F			
→ O N			
M O T I O N            → O F F			
O N			
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.

After setting, push [EXIT] key to go back to the main menu page.

### ◆ ZOOM+AF

Z	O	O	M	+	A	F							
→	Z	O	O	M	+	A	F	→	O	F	F		
									O	N			
	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.)

After setting, push [EXIT] key to go back to the main menu page.

### ◆ LANGUAGE

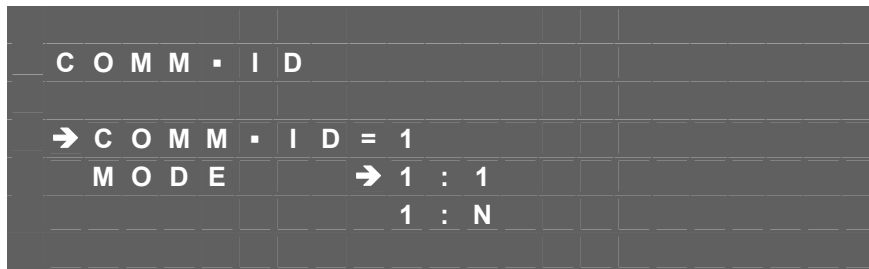
	L	A	N	G	U	A	G	E					
→	E	N	G	L	I	S	H						
	C	H	I	N	E	S	E						
	J	A	P	A	N	E	S	E					

This is used to select OSD manu display language.

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

After setting, push [EXIT] key to go back to the main menu page.

### ◆ COMM·ID



This is used to select communication ID and mode.

1. Communication ID number's set.(Enactment supply controller identification camera uses ID number.)
2. MODE choice **future function - disregard**

After setting, push [EXIT] key to go back to the main menu page.

### ◆ CROSS LINE

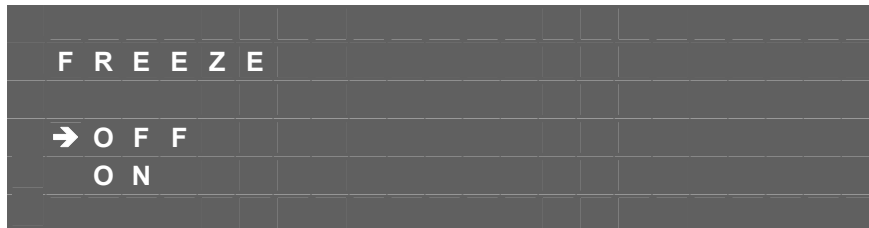


This is used to select the cross line display ON / FF.

Cross line ON/OFF select,set ON cross line display,set OFF cross line is hidden.

After setting, push [EXIT] key to go back to the main menu page.

### ◆ FREEZE



This is used to set 「IMAGE FREEZE」.

「Freeze」: Set ON mode, 「ALARM-IN」 is freeze trigger input.

After setting, push [EXIT] key to go back to the main menu page.

### ◆ POSI / NEGA



This is used to select image 「Positive」 and 「Negative」 function.

「POSI/NEGA」: Image positive & negative select.

After setting, push [FAR] key to go back to the main menu page.