

HD-TVI Camera OSD Manual



for 1080p TVI cameras supplied by CCTV Camera Pros

CAMERA OPERATIONS

MENU Motorized Lens product

SETUP MENU						
2MOTOR	AF MODE RETURN	SCANNING	ONEPUSHAF	SYNC TDN	INITIAL	
EXPOSURE	SENS-UP RETURN	BRIGHTNESS	LENS	SHUTTER	AGC	IMAGE RANGE
WHITE BAL	AUTO	AUTOext	PRESET	MANUAL		
IMAGE	SHARPNESS SHADING	DEFOG COLOR GAIN	D-ZOOM ACE	MIRROR RETURN	FLIP	PRIVACY
BACKLIGHT	OFF	WDR	BLC	HLC		
DAY&NIGHT	AUTO, COLOR, B/W, EXTERN					
DNR	OFF	HIGH	MIDDLE	LOW		
MOTION	OFF	SET				
SERIAL	CAM ID	BAUDRATE	RETURN			
SYSTEM	DEFECT LANGUAGE	GAMMA FACTORY SET	OUTPUT MODE RETURN	COLOR MODE	CVBS	
EXIT						

Above specifications may be changed without any notice.

CAMERA OPERATIONS

MENU General Lens product

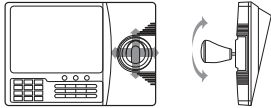
SETUP MENU						
EXPOSURE	SENS-UP DOUT SCALE	BRIGHTNESS RETURN	LENS	AE MODE	SHUTTER	AGC
WHITE BAL	AUTO	AUTOext	PRESET	MANUAL		
IMAGE	SHARPNESS PRIVACY	DEFOG SHADING	D-ZOOM COLOR GAIN	MIRROR ACE	FLIP RETURN	FREEZE
BACKLIGHT	OFF	WDR	BLC	HLM		
DAY&NIGHT	MODE (AUTO, COLOR, B/W, EXTERN)				RETURN	
DNR	OFF	HIGH	MIDDLE	LOW		
MOTION	OFF	SET				
SERIAL	CAM ID	ID DISPLAY	BAUDRATE	RETURN		
SPECIAL	Y GAIN	Cb GAIN	Cr GAIN	BURST GAIN	RETURN	
SYSTEM	DEFECT FRAME RATE	GAMMA LANGUAGE	DVR SELECT FOCUS ADJ	OUTPUT MODE FACTORY SET	CVBS RETURN	
EXIT						

Above specifications may be changed without any notice.

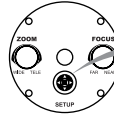
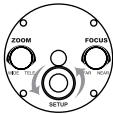
CAMERA OPERATIONS

SETTINGS

설정은 조정 버튼을 이용하여 설정할 수 있습니다.

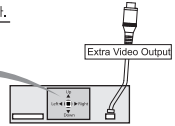


- Call OSD MENU : 1. Call #95
2. Open button
- Zoom in : Tele button or Joystick
- Zoom out : Wide button or Joystick



시계반대방향으로 돌려 열면, 설정버튼이 있습니다.

버튼을 누르면 설정완료 됩니다.



스틱 타입

UCC 통신



Note

- MANUAL 메뉴는 fixed lens모델 용 이며, 'DC' 메뉴는 auto IRIS 모델 용입니다.

CAMERA OPERATIONS

MENU

General Lens product

MENU	TVI
* EXPOSURE	↓
☉ WHITE BAL	AUTO
📷 IMAGE	↓
🔦 BACKLIGHT	OFF
* DAY&NIGHT	↓
📺 DNR	MIDDLE
📺 MOTION	OFF
📺 SERIAL	↓
📺 SPECIAL	↓
* SYSTEM	↓
🔑 EXIT	

Motorized Lens product

MENU	TVI
▶ 2MOTOR	↓
EXPOSURE	↓
WHITE BAL	AUTO
IMAGE	↓
BACKLIGHT	OFF
DAY&NIGHT	EXTERN ↓
DNR	HIGHT
MOTION	OFF
SERIAL	↓
SYSTEM	↓
EXIT	

Normal : AUTO, IR : EXTERN ↙

1. Please press the SET button
 - Settings can now be made. The SET menu is displayed on the monitor.
 - To run the OSD menu, please press and hold the SET button for three seconds.
2. Please select any function you wish to activate by pushing the button Up or Down
 - The cursor position will appear green on your screen.
 - You can push the button Up or Down to change function you wish to change.
3. Please press the button Right or Left if you wish to change mode,
 - When the button is pressed Right or Left, available values and mode are displayed in order. Please keep press the button until you get the mode you wish.
4. Please select "EXIT" and then press the button to finish the setting.

CAMERA OPERATIONS

2MOTOR Motorized Lens type

Motorized Lens product

MENU	TVI
▶ 2MOTOR	┆
EXPOSURE	┆
WHITE BAL	AUTO
IMAGE	┆
BACKLIGHT	OFF
DAY&NIGHT	EXTERN ┆
DNR	HIGHT
MOTION	OFF
SERIAL	┆
SPECIAL	┆
EXIT	

Normal : AUTO, IR : EXTERN ←

2MOTOR	TVI
▶ AF MODE	AUTO
SCANNING	HALF
ONEPUSHAF	ON ┆
SYNC TDN	ON
INITIAL	ON ┆
RETURN	

- AF MODE : MODE (AUTO / MANUAL)
- SCANNING : (FULL / HALF) When turning Focus Motor to fix the exact FOCUS position, it decides whether turning a little bit from current position or turning the motor to the end,
- ONEPUSH AF : It is performed to take FOCUS again,
- SYNC TDN : (ON/OFF) This function takes automatically focus when it changes to DAY & NIGTH.
- INITIAL : It makes the position of LENS initialize.

CAMERA OPERATIONS

EXPOSURE

General Lens product

MENU	TVI
* EXPOSURE	↓
⊙ WHITE BAL	AUTO
🖼 IMAGE	↓
⊙ BACKLIGHT	OFF
🌙 DAY&NIGHT	↓
📺 DNR	MIDDLE
📺 MOTION	OFF
📺 SERIAL	↓
📺 SPECIAL	↓
* SYSTEM	↓
📺 EXIT	

Motorized Lens product

MENU	TVI
2MOTOR	↓
▶ EXPOSURE	↓
WHITE BAL	AUTO
IMAGE	↓
BACKLIGHT	OFF
DAY&NIGHT	EXTERN ↓
DNR	HIGHT
MOTION	OFF
SERIAL	↓
SYSTEM	↓
EXIT	

Normal : AUTO, IR : EXTERN ←

EXPOSURE	TVI
SENS-UP	OFF
BRIGHTNESS	
LENS	DC
AE MODE	OUTDOOR
SHUTTER	AUTO
AGC	
DOU SCALE	COMP
RETURN	

Fixed (LENS : MANUAL / AE MODE : NORMAL)

EXPOSURE	TVI
▶ SENS-UP	OFF
BRIGHTNESS	
MODE	OUTDOOR
LENS	DC ↓
SHUTTER	AUTO
AGC	
IMAGE RANGE	USER ↓
RETURN	

• SENS_UP :

- Sens-up is realized in the most low illumination quality and it provides the image without a noise at the low illumination quality.
- When it is night or dark, the camera automatically detects the light level and maintains a clear picture if this mode is activated.
- When "SENS_UP" is on, shutter cannot be adjusted.

CAMERA OPERATIONS

- BRIGHTNESS : LEFT KEY(Level Decrement) RIGHT KEY(Level Increment)
- LENS : DC (OUTDOOR, INDOOR, DEBLUR) / MANUAL (NORMAL, DEBLUR,)
- AE MODE : DC Lens (INDOOR/ OUTDOOR/ DEBLUR), Manual Lens (NORMAL / DEBLUR)
- SHUTTER : Auto / Manual / Flicker
 - AUTO : Default-Users set the brightness of the scene and the shutter speed is controlled automatically, controlled automatically.
 - FLICKER : Select this when you experience picture flicker, which can happen when there is a clash with the frequency of the installed lighting.
 - MANUAL : Motorized Lens product (1/30 ~ 1/30000) / General Lens product (1/30 ~ 1/60000)
- AGC : The higher the gain level, the brighter the screen – but the higher the noise,
- IMAGE RANGE (Motorized Lens product) / DOUT SCALE (General Lens product) : (FULL, COMP, USER)

WHITE BAL

General Lens product

MENU	TVI
* EXPOSURE	↓
● WHITE BAL	AUTO
■ IMAGE	↓
○ BACKLIGHT	OFF
⊕ DAY&NIGHT	↓
▣ DNR	MIDDLE
■ MOTION	OFF
● SERIAL	↓
⊕ SPECIAL	↓
* SYSTEM	↓
▣ EXIT	

Motorized Lens product

MENU	TVI
2MOTOR	↓
EXPOSURE	↓
▶ WHITE BAL	AUTO
IMAGE	↓
BACKLIGHT	OFF
DAY&NIGHT	EXTERN ↓
DNR	HIGHT
MOTION	OFF
SERIAL	↓
SYSTEM	↓
EXIT	

Normal : AUTO, IR : EXTERN

- AUTO : Default - This function continuously adjusts the white balance automatically to adapt to changes in lighting conditions.
- AUTOext : It is a mode to do a halogen and the special lighting to White detection.
- PRESET : This function adjusts the white balance regardless of the subject conditions.

CAMERA OPERATIONS

General Lens product

IMAGE	
SHARPNESS	6
DEFOG	OFF
D-ZOOM	0
MIRROR	OFF
FLIP	OFF
FREEZE	OFF
PRIVACY	OFF
SHADING	OFF
COLOR GAIN	
ACE	OFF
RETURN	

Motorized Lens product

IMAGE	TVI
▶ SHARPNESS	6
DEFOG	OFF
D-ZOOM	1.0X
MIRROR	OFF
FLIP	OFF
PRIVACY	OFF
SHADING	OFF
COLOR GAIN	
ACE	OFF
RETURN	

- SHARPNESS : Control 0 to 10 by right and left button,
- DEFOG : MODE (AUTO / MANUAL), LEVEL (LOW / MIDDLE / HIGH)
- D-Zoom : You can use a digital zoom of 1.0x ~ 8.0x
- MIRROR/FLIP : You can select function by using LEFT or RIGHT button,
- FREEZE (General Lens product) : The video can be stopped,



General Lens product

PRIVACY	
ZONE NUM	0
ZONE DISP	ON
H-POS	2
V-POS	1
H-SIZE	14
V-SIZE	8
RETURN	

Motorized Lens product

PRIVACY	TVI
▶ ZONE NUM	0
ZONE DISP	ON
H-POS	12
V-POS	2
H-SIZE	3
V-SIZE	3
Y LEVEL	
CR LEVEL	
CB LEVEL	
RETURN	

CAMERA OPERATIONS

- **PRIVACY** : This modes conceals the areas you do not wish to appear on the screen,
 - ZONE NUM : This modes conceals the areas you do not wish to appear on the screen, (0~15 Zone)
 - ZONE DISP : you can select (ON/OFF)
 - H-POS, V-POS, H-SIZE, V-SIZE
 - : You can move the position of the range that you selected in the PRIVACY ZONE to Left, Right, Up, Down,
 - Y LEVEL, CB LEVEL, CR LEVEL (General Lens product) : The **color gain controls CB, CR level**,
- **SHADING** : When using wide angle lens, you can compensate darkness of corner on the screen,
- **COLOR GAIN** : The color gain controls,
- **ACE (Adaptive Color & Contrast Enhancement)** : OFF, LOW, MIDDLE, HIGH
 ACE black performs an image Enhancement processing to enhance visibility of an image by changing the brightness values to the level that people can recognize the change, This processing technique is equivalent to the dynamic range reduction technique, Which converts the HDR (High Dynamic Range) into the restricted LDR (Low Dynamic Range)

BLACKLIGHT

General Lens product

MENU	TVI
* EXPOSURE	↓
⊙ WHITE BAL	AUTO
🖼️ IMAGE	↓
⊙ BACKLIGHT	OFF
🌙 DAY&NIGHT	↓
📺 DNR	MIDDLE
📺 MOTION	OFF
⊙ SERIAL	↓
🔍 SPECIAL	↓
* SYSTEM	↓
🚪 EXIT	

Motorized Lens product

MENU	TVI
2MOTOR	↓
EXPOSURE	↓
WHITE BAL	AUTO
IMAGE	↓
▶ BACKLIGHT	OFF
DAY&NIGHT	EXTERN ↓
DNR	HIGHT
MOTION	OFF
SERIAL	↓
SYSTEM	↓
EXIT	

Normal : AUTO, IR : EXTERN ←

CAMERA OPERATIONS

General Lens product

HLM	
LEVEL	[]
MODE	NIGHT ONLY
RETURN	

BLC	
BLC OSD	OFF
H-POS	5
V-POS	6
H-SIZE	8
V-SIZE	5
RETURN	

WDR	
WEIGHT	MIDDLE
RETURN	

Motorized Lens product

HLC	TVI
▶ LEVEL	[]
MODE	NIGHT ONLY
RETURN	

BLC	TVI
▶ H-POS	7
V-POS	5
H-SIZE	7
V-SIZE	5
RETURN	

WDR	TVI
▶ WEIGHT	MIDDLE
RETURN	

- HLM & HLC

Function is being prevented against headlights of vehicle effectively, it is the most suitable function to see license plates at night,

- LEVEL : You can set the level point of HLC & HLM
- MODE : NIGHT ONLY / ALL DAY

- BLC (Backlight Compensation)

When there is a strong backlight behind the object, clear images of the background well as the object can still be obtained by using the BLC function,

- BLC OSD (General Lens product) : you can select (ON/OFF)
- H-POS, V-POS, H-SIZE , V-SIZE

: You can move the position of the range that you selected in the BLC ZONE to Left, Right, Up, Down,

- WDR (Wide Dynamic Range) : OFF / LOW / MIDDLE / HIGH

By using the WDR function, you can distinguish object in the dark,



WDR (ON)



WDR (OFF)

CAMERA OPERATIONS

DAY & NIGHT

General Lens product

MENU	TVI
* EXPOSURE	↓
☉ WHITE BAL	AUTO
🖼 IMAGE	↓
🔦 BACKLIGHT	OFF
🌙 DAY&NIGHT	↓
📺 DNR	MIDDLE
🏠 MOTION	OFF
📡 SERIAL	↓
🔍 SPECIAL	↓
⚙ SYSTEM	↓
🚪 EXIT	

Motorized Lens product

MENU	TVI
2MOTOR	↓
EXPOSURE	↓
WHITE BAL	AUTO
IMAGE	↓
BACKLIGHT	OFF
▶ DAY&NIGHT	EXTERN ↓
DNR	HIGHT
MOTION	OFF
SERIAL	↓
SYSTEM	↓
EXIT	

Normal : AUTO, IR : EXTERN

EXTERN	
ANTI-SAT	[]
CDS D >> N	100
CDS D << N	150
DELAY	LOW
RETURN	

DAY & NIGHT		TVI
▶ ANTI-SAT,		[]
D->N LEVEL		240
N->D LEVEL		30
DELAY		LOW
RETURN		
CDS LUX	00000001	-- The value that is read from CDS
D>N LUX	00000190	-- The adjusted value to DN level
N>D LUX	0000014a	-- The adjusted value to ND level

- EXTERN : Select this when the color is controlled by CDS sensor. (IR product)

- ANTI-SAT, : As Smart IR function, the smaller ANTI-SAT setting value, the weaker Smart IR function.
- D>N LEVEL : It controls gain level for changing Day > Night mode.
- N>D LEVEL : It controls gain level for changing Night > Day mode.
- DELAY : D&N change on continual time condition set Day > Night or Night > Day. (HIGH, MIDDLE, LOW)

CAMERA OPERATIONS

General Lens product

AUTO	
AGC THRES	[] []
AGC MARGIN	[] []
DELAY	LOW
RETURN	

Motorized Lens product

DAY & NIGHT	TVI
▶ ANTI-SAT.	[] []
AGC THRES	[] []
AGC MARGIN	[] []
DELAY	LOW
RETURN	

- **AUTO** : The camera will automatically show color image in high lux and black / white image in low lux.
 - ANTI-SAT : (Motorized Lens product) It adjusts the saturation state on the screen,
 - AGC THRES : It controls gain level for changing Day > Night mode,
 - AGC MARGIN : It controls gain level for changing Night > Day mode,
 - DELAY : D&N change on continual time condition set Day > Night or Night > Day, (HIGH, MIDDLE, LOW)
- **COLOR** : This picture is always displayed in color, (Non IR product)
- **B&W** : The picture is always displayed in black and white. You can turn on or off the burst signal on B/W mode.

MOTION

General Lens product

MENU	TVI
* EXPOSURE	↓
☉ WHITE BAL	AUTO
🖼 IMAGE	↓
🔦 BACKLIGHT	OFF
🌙 DAY&NIGHT	↓
📺 DNR	MIDDLE
📺 MOTION	OFF
📺 SERIAL	↓
📺 SPECIAL	↓
* SYSTEM	↓
🚪 EXIT	

Motorized Lens product

MENU	TVI
2MOTOR	↓
EXPOSURE	↓
WHITE BAL	AUTO
IMAGE	↓
BACKLIGHT	OFF
DAY&NIGHT	↓
▶ DNR	EXTERN ↓
MOTION	HIGHT
SERIAL	OFF
SYSTEM	↓
EXIT	↓

Normal : AUTO, IR : EXTERN ←

- **OFF** : DNR function does not operate,
- You can select **LOW** / **MIDDLE** / **HIGHT** menu as DNR condition,

CAMERA OPERATIONS

MOTION

Function of MOTION can designate the range of the user to detect the movement on the screen and adjust the size of the area. So, you can monitor the movement of an object on the given region more efficiently

General Lens product

MENU	TVI
* EXPOSURE	↓
☉ WHITE BAL	AUTO
🖼️ IMAGE	↓
🌞 BACKLIGHT	OFF
🌃 DAY&NIGHT	↓
📺 DNR	MIDDLE
📺 MOTION	OFF
📺 SERIAL	↓
📺 SPECIAL	↓
* SYSTEM	↓
📺 EXIT	

Motorized Lens product

MENU	TVI
2MOTOR	↓
EXPOSURE	↓
WHITE BAL	AUTO
IMAGE	↓
BACKLIGHT	OFF
DAY&NIGHT	EXTERN ↓
DNR	HIGHT
▶ MOTION	OFF
SERIAL	↓
SYSTEM	↓
EXIT	

Normal : AUTO, IR : EXTERN ←

MOTION	
MOTION ZOOM	0
SENSITIVITY)
TARGET SIZE	20
AREA	9
RETURN	

MOTION	TVI
▶ SENSITIVITY)
WINDOW TONE	4
WINDOW USE	0
WINDOW ZONE	ON
DET H-POS	6
DET V-POS	5
DET H-SIZE	45
DET V-SIZE	25
ALARM	OFF
RETUEN	

CAMERA OPERATIONS

- SENSITIVITY : Set the sensitivity of the moving detection.
- ▶ General Lens product
 - MOTION ZOOM : You could set from "0" to "99" and D-Zoom is operated to the setting value when the moving is detected.
 - TARGET SIZE : Set the target thing size to detect the moving.
 - AREA : Select the range to apply motion.
- ▶ Motorized Lens product
 - WINDOW TONE : (Transparency level 0~6)
 - WINDOW USE : You can select Motion version (0~3)
 - WINDOW ZONE : This is the menu for determining the Motion detection area and whether to use the motion detection box.
 - DET H-POS, DET V-POS, DET H-SIZE, DEV-SIZE
: You can move the position of the range that you selected in the MOTION ZONE to Left, Right, Up, Down.
 - ALARM : (ON/OFF)

SERIAL

General Lens product

MENU	TVI
* EXPOSURE	⏴
☉ WHITE BAL	AUTO
🖼 IMAGE	⏴
🔦 BACKLIGHT	OFF
🌙 DAY&NIGHT	⏴
📺 DNR	MIDDLE
📺 MOTION	OFF
📺 SERIAL	⏴
📺 SPECIAL	⏴
* SYSTEM	⏴
🚪 EXIT	

Motorized Lens product

MENU	TVI
2MOTOR	⏴
EXPOSURE	⏴
WHITE BAL	AUTO
IMAGE	⏴
BACKLIGHT	OFF
DAY&NIGHT	EXTERN ⏴
DNR	HIGHT
MOTION	OFF
▶ SERIAL	⏴
SYSTEM	⏴
EXIT	

Normal : AUTO, IR : EXTERN

CAMERA OPERATIONS

General Lens product

SERIAL	
CAM ID	0
ID DISPLAY	OFF
BAUDRATE	9600
RETURN	

Motorized Lens product

SERIAL	TVI
▶ CAM ID	0
BAUDRATE	9600
RETURN	

- CAM ID : You can select camera ID from 0 to 255 when using remote control
- ID DISPLAY (General Lens product) : You can select ID ON or OFF
- BAUDRATE : You can select 2400 / 4800 / 9600 / 57600 / 115200bps, "pel-D protocol"

SPECIAL 일반 TVI 제품

General Lens product

MENU	TVI
* EXPOSURE	↓
☉ WHITE BAL	AUTO
🖼 IMAGE	↓
🕒 BACKLIGHT	OFF
🌞 DAY&NIGHT	↓
📺 DNR	MIDDLE
📺 MOTION	OFF
📺 SERIAL	↓
📺 SPECIAL	↓
* SYSTEM	↓
📺 EXIT	

SPECIAL	
Y GAIN	105
Cb GAIN	85
Cr GAIN	118
BURST GAIN	128
RETURN	

- Y GAIN / Cb GAIN / Cr GAIN
: You can set the color level point of monitor, (0~255)
- BURST GAIN : You can set the color level point of BURST GAIN (0~239)

CAMERA OPERATIONS

SYSTEM

General Lens product

MENU	TVI
* EXPOSURE	↓
⊙ WHITE BAL	AUTO
📷 IMAGE	↓
🌙 BACKLIGHT	OFF
* DAY&NIGHT	↓
📺 DNR	MIDDLE
📺 MOTION	OFF
📺 SERIAL	↓
📺 SPECIAL	↓
* SYSTEM	↓
📺 EXIT	

Motorized Lens product

MENU	TVI
2MOTOR	↓
EXPOSURE	↓
WHITE BAL	AUTO
IMAGE	↓
BACKLIGHT	OFF
DAY&NIGHT	EXTERN ↓
DNR	HIGHT
MOTION	OFF
SERIAL	↓
▶ SYSTEM	↓
EXIT	

Normal : AUTO, IR : EXTERN ←



SYSTEM	
DEFECT DET	OFF
GAMMA	0.55
DVR SELECT	HIKVISION
OUTPUT MODE	1080P
CVBS	NTSC
FRAME RATE	30
LANGUAGE	ENG
FOCUS ADJ	OFF
FACTORY SET	ON
RETURN	



SERIAL	TVI
▶ DEFECT DET	ON ↓
GAMMA	0.45
OUTPUT MODE	1080P
COLOR MODE	HD—CbCr
CVBS	NTSC
LANGUAGE	ENG
FACTORY SET	ON ↓
RETURN	

CAMERA OPERATIONS

General Lens product

SYSTEM	
DEFECT DET	OFF
GAMMA	0.55
DVR SELECT	HIKVISION
OUTPUT MODE	1080P
CVBS	NTSC
FRAME RATE	30
LANGUAGE	ENG
FOCUS ADJ	OFF
FACTORY SET	ON
RETURN	

Motorized Lens product

SERIAL	TVI
▶ DEFECT DET	ON ↓
GAMMA	0.45
OUTPUT MODE	1080P
COLOR MODE	HD-CbCr
CVBS	NTSC
LANGUAGE	ENG
FACTORY SET	ON ↓
RETURN	

- DEFECT DET : ON / OFF
- GAMMA : You can select (0,45 / 0,50 / 0,55 / 0,60 / 0,65)
- OUTPUT MODE : 1080P / 720P / 720P CROP (Motorized Lens product : 1080P)
- CVBS : NTSC / PAL
- FACTORY SET : Factory initialize
 - ▶ Motorized Lens product
 - COLOR MODE : : HD-CbCr / YUV / SD-CbCr,
 - LANGUAGE : ENG, JPN, KOR
 - ▶ General Lens product
 - DVR SELECT : You Can Select DVR Company
 - FRAME RATE : 1080P, 720P (NTSC (30 frame) / PAL (25 frame))
720P CROP (NTSC (60 frame) / PAL (50 frame))
 - LANGUAGE : ENG, CHN, CHN(S), JPN, KOR
 - FOCUS ADJ

SYSTEM	
FOCUS ADJ	ON
FACTORY SET	ON
RETURN	

- You could see a green box when you move (control) the lens slowly.
- When you move the lens to disappear the green box, the focus is fixed.
- You could fix the one box in three boxes,
 - ▶ Left Box : Focus for Low contrast area
 - ▶ Center Box : Focus for middle contrast area
 - ▶ Right Box : Focus for high contrast area

EXIT

- Saves all the setting menus and then exits.

Above specifications may be changed without any notice.