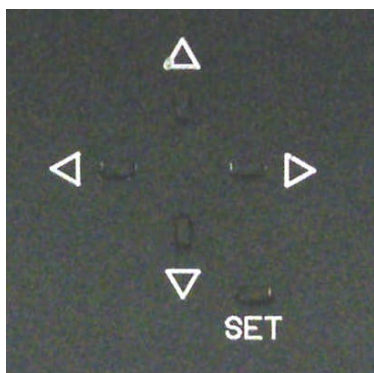






Guide Rapide d'Utilisation de la Microcam M3CTC1



Ce guide simplifié ne prétend pas être un manuel détaillé (*voir manuel en Anglais en annexe*), mais il permet de comprendre et d'activer les fonctions principales les plus utiles. Opto Vision livre généralement la M3CTC1 entièrement préréglée pour un fonctionnement automatique. Ces réglages sont indiqués plus loin comme "réglages par défaut".

Les touches du CCU permettent d'accéder aux menus de réglage tels que décrits dans ce guide. Utiliser le stylet plastique livré. Appuyer très **légèrement sans forcer** au centre de la touche.



Touches CCU	Correspondance
	Up (Haut)
	Down (Bas)
	Left (Gauche)
	Right (Droit)
SET	Set (appel menus)

* Le *Mode Menu* s'active en appuyant 3 secondes sur la touche SET

Raccordements :

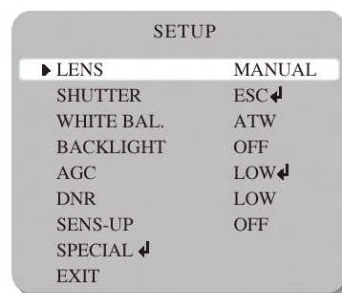
Gaine noire : Blanc → alimentation + 12 VDC +/-10%
 Noir → Masse alimentation
 Gaine Rouge : Blanc → Signal vidéo composite PAL
 Tresse coax. : → Masse vidéo

Nota : Les masses vidéo et alim peuvent être communes

Menu Principal

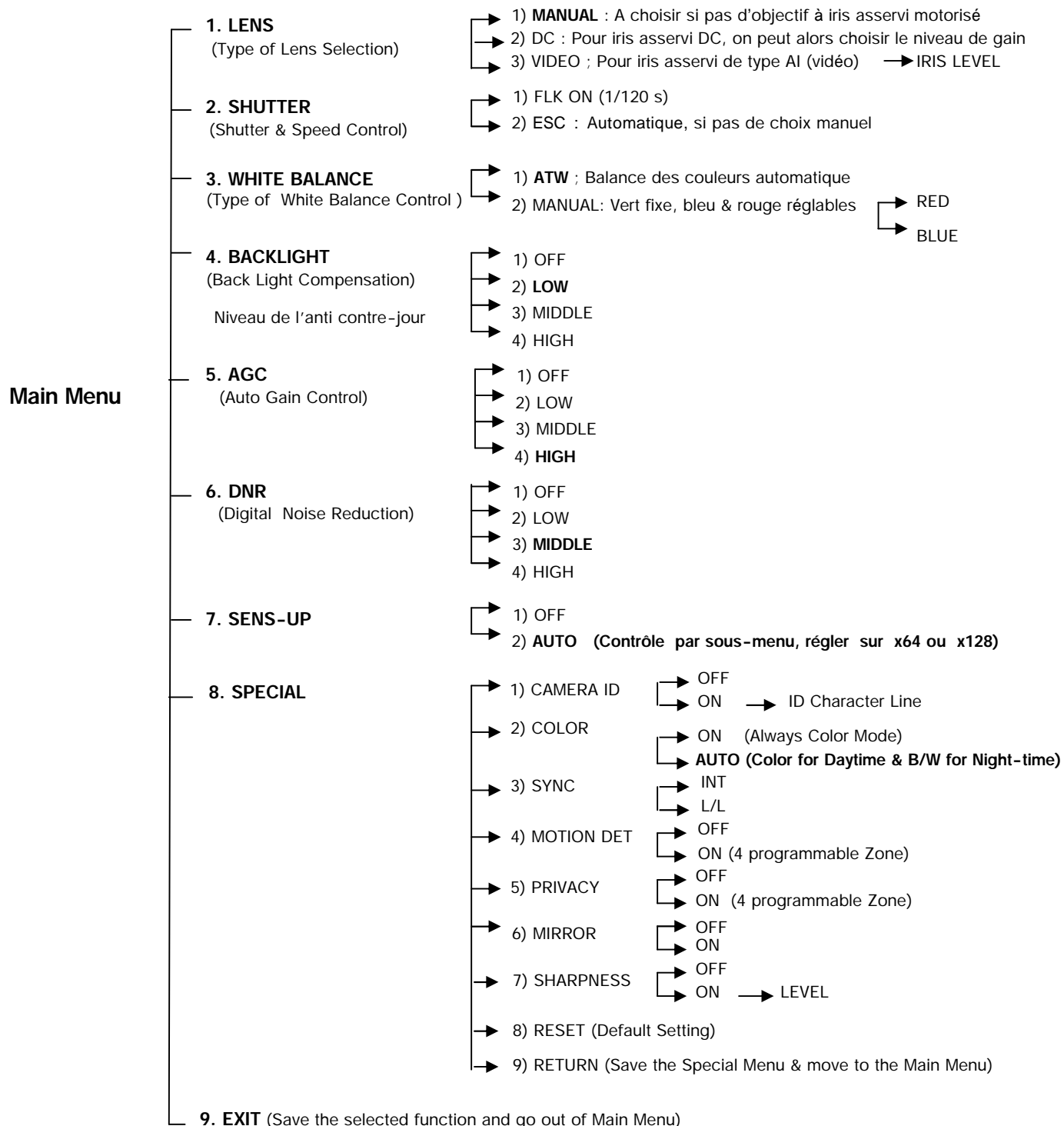
Appuyer sur la touche **SET** pendant 2 à 3 secondes, et le menu principal s'affichera en OSD (*On Screen Display*) sur le moniteur vidéo.

Se servir des touches fléchées pour se déplacer dans les menus, appuyer sur **SET** pour valider.



Arborescence des Menus et valeurs recommandées :

Valeurs recommandées surlignées en gras



Sous-menus principaux :

SHUTTER (temps d'exposition)

FLK : (Flikerless) = 120 Hz, pour éviter les battements sous éclairage néon à 50Hz

ESC : Position automatique, la caméra choisi le temps d'exposition de 1/50 à 1/100.000 sec en fonction de la lumière disponible

MANUAL : Choix manuel du temps d'exposition



WHITE BALANCE (Balance des blancs)

Réglages du comportement de la caméra pour le rendu des couleurs

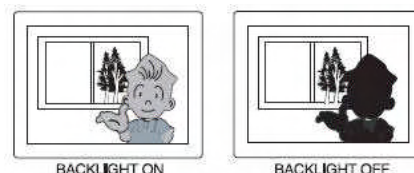
ATW : Position normale automatique (*Automatic Track White*)

MANUAL : permet d'accéder aux valeurs de BLEU et de ROUGE, le VERT étant fixe

AWC : fonction "one-push", permet de bloquer les couleurs sur l'image en cours. Dans des conditions d'éclairage particulières, chercher en ATW la teinte idéale et appuyer sur SET pour figer cette valeur en mémoire.

BLC (Compensation anti contre-jour)

Les contre-jour sont difficiles à gérer en vidéo ! Conseil : Dès la pose, éviter de se trouver en situation de contre-jour. Toutefois les réglages ci-dessous améliorent le comportement de la caméra vis-à-vis des sujets ou des scènes éclairés par derrière, ou des scènes avec un spot lumineux indésirable. Essayer différentes valeurs de BLC pour optimiser l'image



OFF : par défaut, réglage de lumière automatique sur la zone centrale de l'image.

LOW : le gain sur le sujet évolue de 0 à 18 dB

MIDDLE : le gain évolue de 0 à 30 dB

HIGH : le gain évolue de 0 à 42 dB

AGC (Automatic Gain Control)

C'est la puissance de l'amplificateur de gain de la caméra. Quatre valeurs possibles :

OFF : Gain global fixe 6 dB

LOW : Gain variable de 6 dB à 18 dB

MIDDLE : Gain variable de 6 dB à 30 dB

HIGH : Gain variable de 6 dB à 42 dB

Plus on veut de sensibilité et plus la valeur de gain doit être élevée. Mais un gain élevé peut amener du bruit dans l'image, mais le traitement DNR (Digital Noise Reduction) supprime ce problème. Donc la position AGC par défaut est réglée sur HIGH. Veiller au bon réglage du DNR ci-après.

DNR (Réduction Digitale du Bruit vidéo)

C'est le contrôle de la correction apportée par le DSP (Digital Signal Processor) pour réduire le bruit (parasites) de l'image. Quatre valeurs possibles : **Low - Middle - High - Off**

Plus la correction est forte, et plus l'image paraît "lente", c'est-à-dire que le DSP fait une moyenne des données image pour réduire le bruit.

Parce que généralement on règle la caméra en AGC High, il est préférable de faire une correction de bruit élevée. Le réglage Opto Vision par défaut est HIGH

Sans DNR

Avec DNR



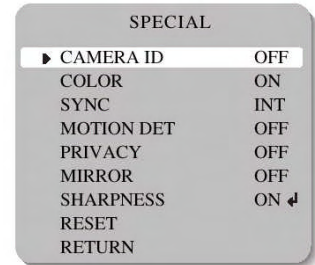
SENS-UP (Booster de Sensibilité)

C'est un facteur de multiplication de la sensibilité intrinsèque de la caméra. Il faut le laisser en mode AUTO. On peut régler sa puissance de x1 à x128 en sachant que plus la lumière ambiante sera faible, et plus le facteur utilisé sera grand avec pour conséquence une réduction de l'aspect dynamique des images --> idéal sur scènes fixes, moins bon sur sujets en mouvement. Position conseillée : **AUTO, x64 ou x128**

Menu CONFIG SPECIALE (Fonctions spéciales)

Des fonctions diverses sont disponibles comme :

CAMERA ID: attribution d'un numéro d'identification lorsqu'on pilote plusieurs caméra à partir d'un seul pupitre (**ATTENTION** : Ne pas y toucher sous peine de perdre le contrôle du CCU)



SPECIAL	
▶ CAMERA ID	OFF
COLOR	ON
SYNC	INT
MOTION DET	OFF
PRIVACY	OFF
MIRROR	OFF
SHARPNESS	ON ↴
RESET	
RETURN	

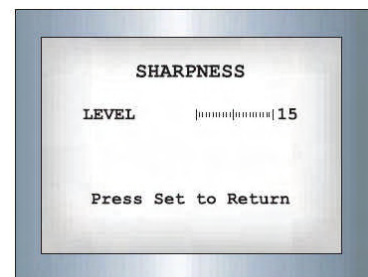
COLOR pour bloquer la caméra en mode jour (couleur) ou en utilisation mixte jour & nuit. Laisser de préférence en position par défaut **AUTO**.

PRIVACY : permet la mise en place de zones de masquages privatives.

MIRROR : pour faire pivoter horizontalement ou verticalement le sens de l'image.

SHARPNESS

Le DSP (Digital Signal Processor) possède un algorithme d'accentuation des contours de l'image. Il peut être utile de rajouter du "piqué" aux images. Dans ce cas, faire varier le niveau de 0 à 15



Nota MOTION DET Non utilisé

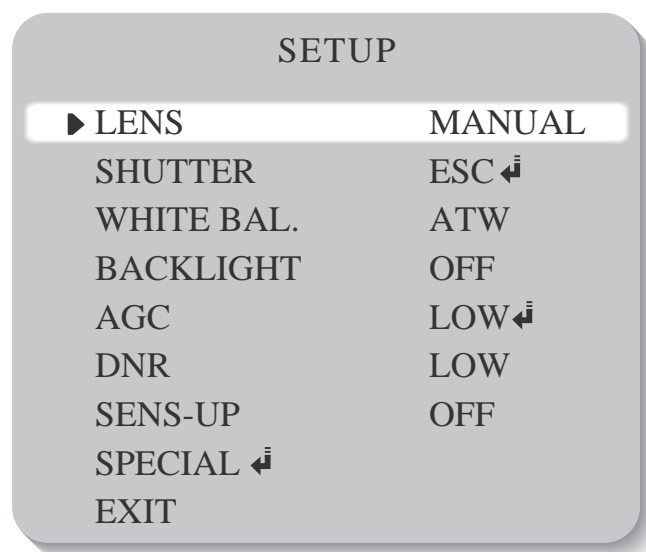
RESET : Retour valeurs usine (et non valeurs OptoVision)

■ Annexe : Notice complète camera en anglais

■ Menu

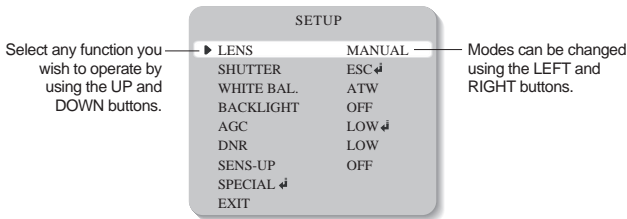
SETUP menu	
LENS (selection)	•MANUAL •DC
SHUTTER (condition and speed control)	•ESC •MANUAL •FLK
WHITE BALANCE control	•ATW •AWC •MANUAL
BACKLIGHT (Backlight compensation)	•OFF •LOW •MIDDLE •HIGH
AGC (Auto Gain control)	•OFF •LOW •MIDDLE •HIGH
DNR (Digital Noise Reduction)	•OFF •LOW •MIDDLE •HIGH
SENS-UP (Low illuminance)	•OFF •AUTO
SPECIAL	•CAMERA ID •COLOR •SYNC •MOTION DETECTION •PRIVACY •MIRROR •SHARPNESS •RESET •RETURN
EXIT	

- Settings can now be made. The SETUP menu is displayed on the monitor.



2. Please select any function you wish to activate by using the UP and DOWN buttons.

■ Camera Operation



- When the LEFT or RIGHT button is pressed, available values and modes are displayed in order. Please keep pressing the button until you get to the mode you wish to operate.
- Please select 'EXIT' and then press the SETUP button to finish the setting.

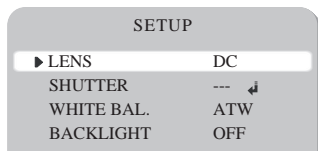
Note

- If \blacktriangleleft appears at the mode you wish to operate, it means that there is a sub-menu which can be selected by pressing the SETUP button.
- If --- appears at the mode item, it means that there is no mode available to be selected.

LENS (selection)

This function is used to adjust the brightness of the screen.

- When the SETUP menu is displayed on the screen, please position the arrow to point to 'LENS' by using the UP and DOWN buttons.
- Please select the type of the lens you wish to use by pressing the LEFT or RIGHT button.



○MANUAL : Manual lens selection

○DC : Auto iris lens selection

Note

- The brightness of the screen can be adjusted in DC mode. The brightness can be adjusted within the range of 1 ~ 70. The optimum level of brightness for the user can be achieved by adjustment.
- If you select the MANUAL mode, it can be adjusted in ESC mode.



- Please press the SETUP button if you wish to return to the previous menu

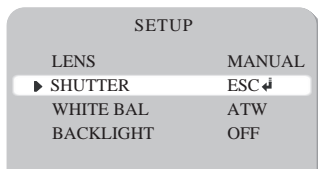
■ Camera Operation

SHUTTER (condition and speed control)

Auto or manual control can be selected.

- When the SETUP menu is on the screen, please position the arrow to point to 'SHUTTER' by using the UP and DOWN buttons.
- Please select the shutter mode by pressing the LEFT or RIGHT button.

- FLK : Please select 'FLK' mode when flickering occurs on the screen, due to an imbalance between illumination and frequency. NTSC Model: 1/100, PAL Model: 1/120
- ESC : Auto control of the shutter speed can be achieved. When ESC mode is on, the speed is controlled automatically according to the brightness of the screen.
- MANUAL : The shutter speed can be controlled manually.



- Please select 'MANUAL' mode if you wish to adjust the shutter manually.
 - You can select speed from '1/60' to '1/120,000'sec (NTSC Models), '1/50' to '1/120,000'sec (PAL Models).
- Please press the SETUP button when all the settings are complete.

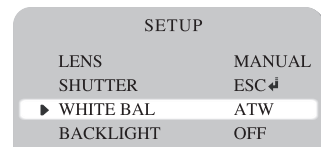
Note

- While using the internal synchronous system, if the shutter setting is on 'ESC' and the camera is directly facing a bright fluorescent light, the image on the screen can be adversely affected. Therefore please choose the installation location with care.
- When 'MANUAL' mode is on, the SENS UP function does not operate.

WHITE BALANCE control

The screen color can be adjusted by using the WHITE BALANCE function.

- Please position the arrow to point to 'WHITE BAL' on the SETUP menu by using the UP and DOWN buttons.
- Please select the mode you wish to operate by pressing the LEFT or RIGHT button.



※ Please select one of the 3 modes below.

- ATW(Auto Tracking White Balance) : This mode can be used within the color temperature range 1,800°K ~ 10,500°K (eg, fluorescent light, outdoor, sodium vapor lamp or inside tunnels)
- AWC(Auto White Balance Control) : Please press the SETUP button while the camera is directed at a piece of white paper to obtain the optimum state under current illumination. If the environment including the light source is changed you have to adjust the white balance again.
- MANUAL : The manual adjustment mode enables finer adjustment. Please select ATW or AWC first. Please change to manual adjustment mode and press the SETUP button. Please set the appropriate color temperature, and then increase or decrease the red and blue color values while monitoring the color changes on the object.

Note

- Under the following conditions the WHITE BALANCE function may not operate properly. In such cases, please select the AWC mode.
 - When the object's surroundings have a very high color temperature (eg, a clear sky and sunset)
 - When the object's surroundings are dark
 - If the camera directly faces a fluorescent light or is installed in a place where there are considerable changes in illumination, the WHITE BALANCE function may become unstable.

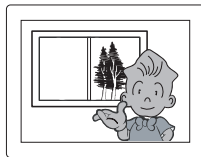
BACKLIGHT(Backlight Compensation)

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

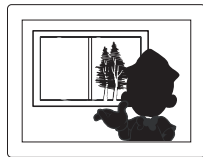
1. Please position the arrow to point to 'BACKLIGHT' on the SETUP menu by using the UP and DOWN buttons.
2. Please select the mode you wish to operate by pressing the LEFT or RIGHT button.

SETUP	
LENS	MANUAL
SHUTTER	ESC ↵
WHITE BAL.	ATW
▶ BACKLIGHT	OFF
AGC	LOW ↵
DNR	LOW

- ⦿ **HIGH** : The gain increases from 0dB up to 42dB.
- ⦿ **MIDDLE** : The gain increases from 0dB up to 30dB.
- ⦿ **LOW** : The gain increases from 0dB up to 18dB.
- ⦿ **OFF** : BACKLIGHT function does not operate.



BACKLIGHT ON



BACKLIGHT OFF

DNR (Digital Noise Reduction)

The background noise in the low light level decreases automatically as the level of gain changes.

1. Please position the arrow to point to 'DNR' on the SETUP menu by using the UP and DOWN buttons.
2. Please select the mode you wish to operate by pressing the LEFT or RIGHT button.

SETUP	
LENS	MANUAL
SHUTTER	ESC ↵
WHITE BAL.	ATW
BACKLIGHT	OFF
AGC	LOW ↵
▶ DNR	LOW
SENS-UP	OFF
SPECIAL	

- ⦿ **OFF** : There is no reduction in noise level.
- ⦿ **LOW** : There is a small reduction in noise level with almost no ghost image.
- ⦿ **MIDDLE** : The most effective mode. There is a sufficient reduction in noise levels without causing much ghost imaging.
- ⦿ **HIGH** : The level of noise is reduced greatly, however there is an increase in ghost imaging.

Note

- When AGC is turned off, DNR does not operate.

SENS UP (Low illuminance)

SENS UP helps maintain a bright, clear screen image by automatically detecting changes in the level of light in low light level conditions.

AGC (Auto Gain Control)

1. Please position the arrow to point to 'AGC' on the SETUP menu by using the UP and DOWN buttons.
2. Please select the mode you wish to operate by pressing the LEFT or RIGHT button. As the level of gain increases, the screen gets brighter and the level of noise also increases.

- ⦿ **HIGH** : The gain increases or decreases within the range of 6dB ~ 42dB.
- ⦿ **MIDDLE** : The gain increases or decreases within the range of 6dB ~ 30dB.
- ⦿ **LOW** : The gain increases or decreases within the range of 6dB ~ 18dB.
- ⦿ **OFF** : The gain is fixed at 6dB.

SETUP	
LENS	MANUAL
SHUTTER	ESC ↵
WHITE BAL.	ATW
BACKLIGHT	OFF
▶ AGC	LOW ↵
DNR	LOW
SENS-UP	OFF
SPECIAL ↵	
EXIT	

1. Please position the arrow to point to 'SENS UP' on the SETUP menu by using the UP and DOWN buttons.
2. Please select the mode you wish to operate by pressing the LEFT or RIGHT button.

- ⦿ **AUTO** : Low light level auto mode
- ⦿ **OFF** : The function does not operate.

Note

- When SHUTTER is in the manual mode, SENS UP does not operate.
- When AGC is turned off, SENS UP does not operate.

SETUP	
LENS	MANUAL
SHUTTER	ESC ↵
WHITE BAL.	ATW
BACKLIGHT	OFF
AGC	LOW ↵
DNR	LOW
▶ SENS-UP	OFF
SPECIAL ↵	
EXIT	

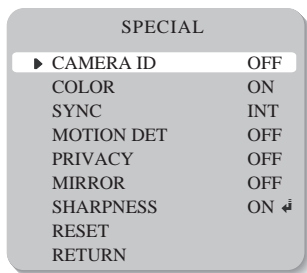
3. Please press the SETUP button when all the settings are complete.

Note

- The maximum storage magnification in low light level movement situations can be adjusted by pressing the SETUP button in 'AUTO' mode.(X2~X128)
- As the magnification increases, the screen gets brighter; however the after image also increases.
- If storage magnification is increased while SENS UP is operating, it may cause noise, and spots may appear; however this is normal.

SPECIAL

1. Please position the arrow to point to 'SPECIAL' on the SETUP menu by using the UP and DOWN buttons.
2. Please select the mode you wish to operate by pressing the UP or DOWN button.

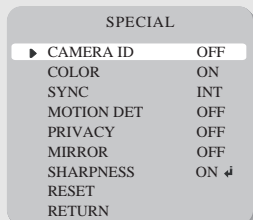


◉ **CAMERA ID** : If the ID is input, the camera ID appears on the monitor.

- 1) Please position the arrow to point to 'CAMERA ID' by using the UP or DOWN button.
- 2) Please select 'ON' by pressing the LEFT or RIGHT button.

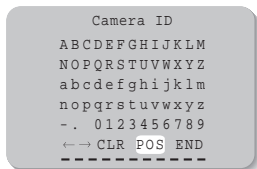
Note

- If 'OFF' is selected, the ID does not appear on the monitor even if it has been input.



- 5) When a name has been chosen, please select a position for the name display.

- ① Please move the cursor onto 'POS' and then press the SETUP button.



- ② The name will appear at the top left corner.



- ③ Please find the position you wish to display the name by using the 4 directional buttons, and then press the SETUP button.

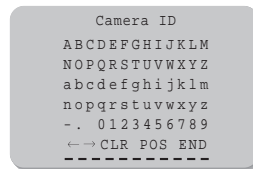


- 6) Please select 'END' and then press the SETUP button to complete ID input.

◉ COLOR

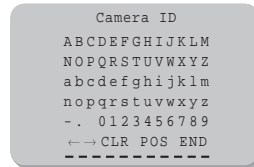
- AUTO : This camera has a function which automatically changes to the appropriate mode for daytime or night-time. The COLOR mode is operated for daytime, and it converts to BW mode for night-time.
- ON : The color mode is selected by default, and the modes do not change automatically.

- 3) Please press the SETUP button.



- 4) Up to 15 letters can be used for the ID.

- ① Please move the cursor to the letter you wish to choose by using the UP and DOWN button.



- ② Select an ID from A,B-Y,Z, a,b-y,z, 0,1-8,9 by using the UP, DOWN, LEFT and RIGHT buttons.
- ③ Please lock in the letters by using the SETUP button.
 - When the letter is locked in, the cursor moves to the next space.
- ④ Please repeat the above to input the ID.

Note

- If the wrong name has been input.....

If you press the SETUP button after moving the cursor to CLR, all the letters will be erased. If you want to correct a letter, please move the cursor to the arrow at the bottom left of the screen and press 'SET'.

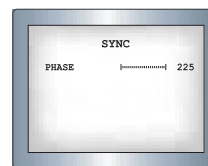
Please position the cursor above the letter you wish to correct, and then move the cursor onto the letter you wish to choose and press the SETUP button.

Note

- When the AGC is turned off, COLOR does not operate.
- When an infrared light is used, there may be a problem with focusing.

◉ **SYNC** : Two SYNCHRONIZATION modes are available INTERNAL and EXTERNAL LINE-LOCK. In LINE-LOCK mode, it synchronizes the video signal between cameras without a synchronous generator. The line-lock synchronization is only used in the areas of 60Hz (NTSC Models) / 50Hz (PAL Models).

- INT : Internal synchronization
- LL : External line-lock synchronization
- If you choose 'LL', you can adjust the desired phase. Press the SET button.
- You can adjust the desired phase from 0 to 359.



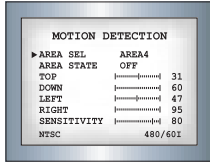
Note

- When the power frequency is 50Hz, you can not use the line-lock mode (NTSC Models).
- When the power frequency is 60Hz, you can not use the line-lock mode(PAL Models).
- 'Sync.' mode is fixed to 'INT' in DC 12V input power.

MOTION DETECTION:

This product has a feature that allows you to observe movements of objects in 4 different areas on the screen, and the words 'MOTION DETECTED' appear on the screen when movement is detected; hence a single individual can conduct supervision efficiently. The camera detects an object's movement by sensing disparity of outline, and level of brightness and color.

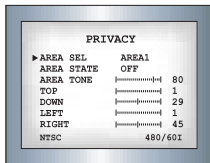
- Please press the SETUP button.
- OFF : MOTION DETECTION mode is cancelled.
- ON : Any motion in the selected areas is observed.
- Please select the area you wish to observe from the 4 areas in AREA SEL mode.
- Please select ON mode for the chosen area.
- Please adjust the size of the area to be observed by using the UP, DOWN, LEFT or RIGHT button.
- Please adjust the level of observation by using SENSITIVITY mode.



- Please press the SETUP button to save the changes and complete the setting.

PRIVACY : This mode conceals the areas you do not wish to appear on the screen.

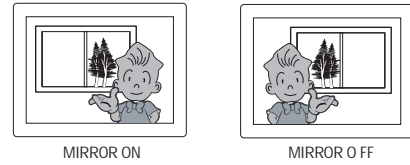
- OFF : Cancels the PRIVACY mode. - ON : Operates the PRIVACY mode.
- Please press the SETUP button.



- Please select the area you do not wish to appear from the 4 areas in AREA SEL mode.
- Please select ON mode for the chosen area.
- Please adjust the size of the area to be concealed by using the UP, DOWN, LEFT or RIGHT button.

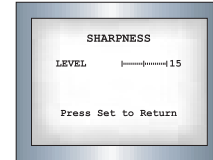
MIRROR

- ON : Sets a horizontal image inversion.
- OFF : Cancels the inversion.



SHARPNESS : The outline of the video image becomes cleaner and more distinctive as the level of SHARPNESS increases. If the level goes up excessively, however, it may affect the video image and generate noise.

- Please press the SETUP button.



- The available range of level is 0 ~ 31.

RESET : Returns to the level which was set by the manufacturer for shipment.

RETURN : Saves the SPECIAL menu and returns to the SETUP menu.

EXIT

Saves all the setting menus and then exits.