



Sanyo VCC-ZM400P Instruction Manual

Colour ccd zoom camera

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INSTRUCTION MANUAL BEDIENUNGSANLEITUNG MANUEL D'INSTRUCTIONS

COLOUR CCD ZOOM camera

CCD-Farb-Zoomkamera

Caméra CCD COULEURS avec ZOOM
CCD

About this manual

Before installing and using the camera, please read this manual carefully. **使用说明** Keep it handy for later reference.

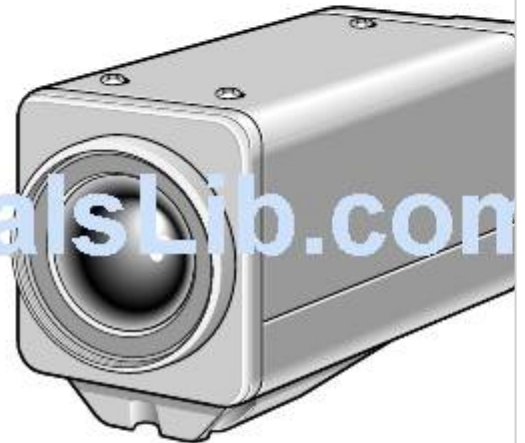
Über diese Bedienungsanleitung

Lesen Sie bitte vor der Montage und dem Inbetriebnehmen der Kamera zuerst diese Bedienungsanleitung sorgfältig durch und bewahren Sie sie zum späteren Nachschlagen auf.

A propos de ce manuel

Avant d'installer et d'utiliser la caméra, veuillez lire ce manuel **彩色变焦摄像机** attentivement. Gardez-le à portée de main pour toute référence ultérieure.

VCC-ZM400P



关于本说明书

在安装和使用摄像机之
并务必保存好本使用说

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setting.....40 PARTS NAMES AND FUNCTIONS Manual iris setting41
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monitoring or recording.....

[Page 3: Main Features](#)

MAIN FEATURES ACCESSORIES • Built in Interline transfer method 1/4" CCD, approx. 470,000 Clamping core1 pc. picture elements. • High sensitivity, minimum required illumination is 1.2 lux. (F1.6, gain max) • More than 520 TV lines of horizontal resolution. • ...

[Page 4: Precautions](#)

Disconnect the such as spotlights, etc., or where it could be subject to direct power cord immediately, and consult your dealer (or a Sanyo sunlight, as that could cause deformation, discoloration or other Authorized Service Centre).

[Page 5: Parts Names And Functions](#)

PARTS NAMES AND FUNCTIONS SET button (SET) (See p8) Control Connect the camera to the monitor, then press the SET terminals button for about 3 seconds to display the on-screen menu. RS-485 control push-lock terminals (RS485, A, B, G) Use a cable thicker than AWG22. ZOOM A: Twisted-pair cable terminal G: Ground terminal...

[Page 6](#) PARTS NAMES AND FUNCTIONS Camera installation bracket Control terminals 1 Zoom terminal (ZOOM) The bracket can be fixed at the top or bottom of the camera. Sets the zoom to wide angle or telescoping. CAUTION: When installing the camera bracket, select a location 2 Focus terminal (FOCUS) that can support the total weight of the camera and accessories.

[Page 7: Connections](#)

CONNECTIONS Basic connection for monitoring or recording TV monitor (sold separately) AC 24 V connection DC 12 V connection AC24V AC24V DC12V CLASS 2 WIR DC12V CLASS 2 WIR Fig. 1 Fig. 2 (Video signal connections) Time lapse VCR or : VIDEO IN Digital video recorder : VIDEO OUT...

[Page 8: Connection Of Peripheral Equipment And Controller Terminal](#)

CONNECTIONS Coaxial cable type and maximum length Connection of peripheral equipment and • Cable type RG-59U (3C-2V), 250 m maximum. controller terminal • Cable type RG-6U (5C-2V), 500 m maximum. External alarm • Cable type RG-11U (7C-2V), 600 m maximum. switch or color/ black &...

[Page 9: Displaying/Closing The Menu Screen](#)

DISPLAYING/CLOSING THE MENU SCREEN MAIN MENU screen Sub-menu screen MAIN MENU LANGUAGE LANGUAGE , LANGUAGE ENGLISH CAMERA ID LANGUE FRENCH SYNC SPRACHE GERMANY PRIVACY MASK , LENS , MIRROR VIEW SETTING , OPTION , PRESET MENU MENU BACK Cursor button SET button Press the SET button for about 3 seconds.

[Page 10: Menu Item Flow And Menu Operation](#)

MENU ITEM FLOW AND MENU OPERATION 1 2 3 4 5 6 7 8 MAIN MENU LANGUAGE , CAMERA ID SYNC PRIVACY MASK , LENS , MIRROR VIEW SETTING , OPTION , PRESET MENU 1 LANGUAGE setting (See p10) 6 MIRROR setting (See p32) Choose from among English, French and German.

[Page 11: Language Setting](#)

LANGUAGE SETTING Select one of the languages shown on the menu screen (English, French, German). MAIN MENU LANGUAGE LANGUAGE , LANGUAGE ENGLISH CAMERA ID LANGUE FRENCH SYNC SPRACHE GERMANY PRIVACY MASK , LENS , MIRROR VIEW SETTING , LANGUE OPTION ,...

[Page 12: Camera Id Setting](#)

CAMERA ID SETTING Camera ID setting Camera ID screen Example: Setting the Camera ID to "CAM 1" CAMERA ID SETTING ABCDEFGHIJKLM MAIN MENU CAMERA ID SETTING NOPQRSTUVWXYZ 0123456789 :-, LANGUAGE , ABCDEFGHIJKLM CAMERA ID , NOPQRSTUVWXYZ ?????????????? SYNC 0123456789 :-, PRIVACY MASK ,...

[Page 13: Sync Setting \(Sync\)](#)

SYNC SETTING (SYNC) CAMERA ID SETTING Default setting is internal synchronization (INT), so it

does not Use the cursor button (j or l) to move the cursor to need to be set again. Follow the steps below to change the POSITION, and then press the SET button.

[Page 14: Privacy Mask Setting \(Privacy Mask\)](#)

PRIVACY MASK SETTING (PRIVACY MASK) Mask setting MAIN MENU PRIVACY MASK SETTING MASK NO.SELECT MASK 3 SET LANGUAGE , PASSWORD LOCK , (POSITION) CAMERA ID PASSWORD CHANGE SET , MASK SYNC MASK SET SET , MASK PRIVACY MASK , MASK ,...

[Page 15](#) PRIVACY MASK SETTING (PRIVACY MASK) (About the POSITION screen) MASK 3 SET MASK 3 SET It is possible to set as many as 4 masks on the same POSITION (SIZE) screen. MASK 1 , PRESET MENU BACK Use the cursor button (j l d c) to move the gray mask, then press the SET button.

[Page 16: Password Setting](#)

PRIVACY MASK SETTING (PRIVACY MASK) PASSWORD setting You can lock the privacy masks in place as gray patterns after they have been set. The password requirement is initially set to OFF, but to begin using it, you must enter the factory set password "1234". PRIVACY MASK SETTING PASSWORD PASSWORD...

[Page 17: Password Lock Cancellation](#)

PRIVACY MASK SETTING (PRIVACY MASK) PASSWORD LOCK cancellation PASSWORD changes For use when PASSWORD LOCK is ON You can change the password with PASSWORD LOCK in either the ON or OFF setting. PASSWORD PASSWORD PRIVACY MASK SETTING PASSWORD PASSWORD LOCK ,...

[Page 18: Lens Setting Item Flow](#)

LENS SETTING ITEM FLOW FOCUS: (See p18) MAIN MENU These settings let you select automatic focus (AUTO) or manual focus. Change the focus settings in LANGUAGE , accordance with the monitoring conditions. CAMERA ID SYNC PRIVACY MASK , ZOOM: (See p21) LENS ,...

[Page 19: Lens Setting \(Lens\)](#)

LENS SETTING (LENS) This item allows adjustment of focus (for manual focus or autofocus) and adjustment of zoom when needed. FOCUS setting Setting the manual focus (MANU) Sets a limit for near distance focusing and sets focus speed for manual focus. MAIN MENU FOCUS SETTING FOCUS SETTING...

[Page 20](#) LENS SETTING (LENS) Setting the autofocus (AUTO) Sets a limit for near distance focusing and sets focusing sensitivity and focus target area. Note: As a normal practice, use manual focus when keeping the camera focused on the same target object for a long period of time (over 24 hours).

[Page 21](#) LENS SETTING (LENS) FOCUS SETTING AREA SETTING AREA SETTING LIMIT NEAR AREA AREA SENSITIVITY AREA , PRESET PRESET PRESET MENU BACK MENU BACK MENU BACK Use the cursor button (j or l) to move the cursor to Use the cursor button (d or c) to select the focus target SET for AREA, and press the SET button.

[Page 22: Bzoom Setting](#)

LENS SETTING (LENS) ZOOM setting Sets zooming speed and magnification power of the electronic zoom. This item also has a setting for improvement of vertical resolution sensitivity of still pictures. MAIN MENU LENS ZOOM SETTING ZOOM SETTING SPEED LANGUAGE , FOCUS MANU ,...

[Page 23](#) LENS SETTING (LENS) ZOOM SETTING SPEED EL ZOOM V-RESO.UP PRESET MENU BACK V-RESO.UP (Vertical resolution sensitivity) setting Use the cursor button (j or l) to move the cursor to V-RESO.UP, then use the cursor button (d or c) to select the vertical resolution sensitivity. (e.g. ON) Note: When V-RESO.UP is set to "ON", vertical resolution sensitivity for still pictures in the electronic zoom field will be improved but afterimages of moving objects will be...

[Page 24: Cday/Night Setting](#)

LENS SETTING (LENS) DAY/NIGHT setting The DAY/NIGHT mode can be set to one of three settings (AUTO, COLOR or B/W) to improve the appearance of images. This lets you set the

filming mode to color mode during times of normal brightness, or to black & white mode to increase sensitivity when there is less light. When you select a mode, you may then need to make detailed settings for the respective mode used.

[Page 25](#) LENS SETTING (LENS) AUTO mode setting Note: • If the backlight compensation has been set to “MULTI”, the backlight compensation will be canceled when the mode is switched to B/W. • If “SENSE UP” has been activated, SENSE UP mode will be activated after the mode switches to B/W mode. MAIN MENU LENS D/N SETTING - AUTO...

[Page 26](#) LENS SETTING (LENS) D/N SETTING - AUTO D/N SETTING - AUTO D/N SETTING - AUTO D/N SETTING - AUTO AGC MAX GAIN +9· AGC MAX GAIN +9· AGC MAX GAIN +9· AGC MAX GAIN +9· BURST BURST BURST BURST FOCUS FOCUS FOCUS FOCUS...

[Page 27](#) LENS SETTING (LENS) D/N SETTING - AUTO LEVEL SETTING LEVEL SETTING AGC MAX GAIN +9· (COLOR†B/W) (COLOR†B/W) BURST FOCUS (B/W†COLOR) (B/W†COLOR) LEVEL , PRESET PRESET PRESET MENU BACK MENU BACK MENU BACK Use the cursor button (j or l) to move the cursor to LEVEL setting COLOR†B/W, and then use the cursor button (d or c) Use the cursor button (j or l) to move the cursor to...

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[Page 29](#) LENS SETTING (LENS) B/W mode setting D/N SETTING - COLOR AGC MAX GAIN ±0· MAIN MENU LENS LANGUAGE , FOCUS MANU , CAMERA ID SYNC ZOOM , PRIVACY MASK , LENS , DAY/NIGHT , PRESET MIRROR MENU BACK VIEW SETTING ,...

[Page 30](#) LENS SETTING (LENS) D/N SETTING - B/W D/N SETTING - B/W AGC MAX GAIN +6· AGC MAX GAIN +6· BURST BURST FOCUS FOCUS PRESET PRESET MENU BACK MENU BACK Use the cursor button (j or l) to move the cursor to AGC MAX GAIN setting DAY/NIGHT, use the cursor button (d or c) to select Use the cursor button (j or l) to move the cursor to...

[Page 31](#) LENS SETTING (LENS) 5, 6 BURST setting D/N SETTING - B/W D/N SETTING - B/W Use the cursor button (j or l) to move the cursor to AGC MAX GAIN +6· AGC MAX GAIN +6· BURST, and then use the cursor button (d or c) to BURST BURST FOCUS...

[Page 32: Dview Angle Setting](#)

LENS SETTING (LENS) VIEW ANGLE setting Day/Night mode operation from the system controller The VIEW ANGLE setting should normally be left at “OFF”. The Day/Night setting (AUTO, COLOR and B/W) can be switched using “CAMERA” operating range of the system MAIN MENU LENS controller.

[Page 33: Mirror Setting](#)

MIRROR SETTING MAIN MENU LANGUAGE , CAMERA ID SYNC PRIVACY MASK , LENS , MIRROR VIEW SETTING , OPTION , PRESET MENU Use the cursor button (j or l) to move the cursor to MIRROR, then use the cursor button (d or c) to select the mirror image effect (e.g.

[Page 34: View Setting Item Flow](#)

VIEW SETTING ITEM FLOW IRIS setting (See p35) This setting allows selection of IRIS to either autoiris (AUTO) or manual iris (MANU). Default setting is MAIN MENU autoiris. LANGUAGE , CAMERA ID SYNC WHITE BALANCE adjustment (See p42) PRIVACY MASK ,...

[Page 35](#) VIEW SETTING ITEM FLOW (About creating image setting files in VIEW SETTING) Note: When each of the following functions is ON (shown by single circle), it may be possible to use other functions in You can set 9 different patterns with view files. Use the cursor conjunction with it (shown by double circle).

[Page 36: View Setting](#)

VIEW SETTING IRIS setting There are 2 possible settings for IRIS, autoiris (AUTO) and manual iris (MANU). Autoiris setting (AUTO) Sets backlight compensation, magnification of electronic sensitivity and iris level. VIEW SETTING 1 IRIS AUTO , WHITE BALANCE , SHUTTER MOTION APERTURE ,...

[Page 37](#) VIEW SETTING Backlight compensation additional settings 1 Use the cursor button (j or l) to move the cursor to IRIS SETTING BLC SETTING BRIGHT, and then use the cursor button (d or c) to MULT , (BLC WEIGHT) SENSE UP í-----ú-----ü...

[Page 38](#) VIEW SETTING Backlight compensation additional settings 2 • • • • 5 spot centerweighted average metering (CENT) IRIS SETTING BLC SETTING BLC SETTING CENT , (POSITION) (SIZE) SENSE UP (LEVEL) í-----ú+-----ü PRESET MENU BACK Use the cursor button (d or c) to select CENT, then Use the cursor button (j l d c) to adjust the size of press the SET button.

[Page 39](#) VIEW SETTING Example of setting the mask in the center weighting position. BLC WINDOW WEIGHTING BLC WINDOW WEIGHTING BLC WINDOW WEIGHTING BLC WINDOW WEIGHTING BOTTOM BOTTOM BOTTOM BOTTOM LEFT LEFT LEFT LEFT RIGHT RIGHT RIGHT RIGHT CENTER(FIX) CENTER(FIX) CENTER(FIX) CENTER(FIX) PRESET PRESET PRESET...

[Page 40](#) VIEW SETTING Backlight compensation additional settings 3 • • • • 48 multi-spot metering (MASK) IRIS SETTING BLC MASKING BLC MASKING MASK , SENSE UP (LEVEL) í-----ú+-----ü CONTINUE (ñ) CONTINUE (ñ) PRESET MENU BACK Use the cursor button (d or c) to select MASK, then Finishing mask pattern setting press the SET button.

[Page 41: Sense Up Setting](#)

VIEW SETTING SENSE UP setting LEVEL setting IRIS SETTING IRIS SETTING MULT MULT SENSE UP SENSE UP (LEVEL) (LEVEL) í-----ú+-----ü í-----ú+-----ü PRESET PRESET MENU BACK MENU BACK Use the cursor button (j or l) to move the cursor to Use the cursor button (j or l) to move the cursor to LEVEL, then use the cursor button (d or c) to adjust the iris SENSE UP, then use the cursor button (d or c) to select the level.

[Page 42: Manual Iris Setting](#)

VIEW SETTING Manual iris setting Sets electronic iris ON/OFF, lens aperture and iris level. MAIN MENU VIEW SETTING 1 IRIS SETTING IRIS SETTING LANGUAGE , IRIS MANU , CAMERA ID WHITE BALANCE , SYNC SHUTTER LONG , (IRIS STOP) (IRIS STOP) PRIVACY MASK ,...

[Page 43: Bwhite Balance Adjustment](#)

VIEW SETTING WHITE BALANCE adjustment Adjustments can be made to 3 methods of white balance correction: Auto trace white balance (ATW), one-push automatic white balance (AWC), and manual white balance (MWB). MAIN MENU VIEW SETTING 1 LANGUAGE , IRIS AUTO , CAMERA ID WHITE BALANCE ,...

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VIEW SETTING White balance additional settings 1 White balance additional settings 2 MWB setting ATW setting Automatic white balance settings are completed when ATW is VIEW SETTING 1 MWB SETTING selected. However, white balance will not be suitably adjusted if a IRIS AUTO ,...

[Page 45](#) VIEW SETTING ATW MASKING ATW MASKING ATW SETTING ATW SETTING MASKING , MASKING , SMART ATW SMART ATW CONTINUE (ñ) CONTINUE (ñ) PRESET PRESET MENU BACK MENU BACK SMART ATW setting Use the cursor button (j l d c) to move the mask pattern over the bright light source, then press the SET If saturation is high or a scene is bright, the most suitable colors button.

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VIEW SETTING White balance additional settings 3 AWC setting VIEW SETTING 1 AWC SETTING AWC SETTING MWB SETTING IRIS AUTO , AWC LOCK AWC LOCK (OFFSET) WHITE BALANCE , SHUTTER GO TO MWB , GO TO MWB , R í-----ú+-----ü MOTION APERTURE ,...

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VIEW SETTING Slow shutter speed (LONG) mode setting VIEW SETTING 1 ES SETTING IRIS MANU , SHUTTER SPEED WHITE BALANCE , SHUTTER LONG , MOTION APERTURE , GAMMA PRESET PRESET MENU BACK MENU BACK Note: Use the cursor button (j or l) to move the cursor to SHUTTER (LONG) cannot be set if any of the following settings is SHUTTER, then use the cursor button (d or c) to select active.

[Page 49: Dmotion Detector Setting](#)

VIEW SETTING MOTION detector setting This function divides the monitor screen into 48 zones (8 x 6). Based on information from the separate zones, target images that show intruder movements are detected and an alarm is generated. The degree of motion to be detected can be finely set. Note: •...

[Page 50](#) VIEW SETTING Set the size of the target object desired for detection MOTION SIZE MOTION SIZE MOTION SIZE 1 Determine the vertical size Tilt the cursor button to the right (c). PRESET PRESET PRESET The "V" value (vertical pattern) will change to "2" and the MENU BACK MENU...

[Page 51: Motion Masking Setting](#)

VIEW SETTING MOTION MASKING setting Masking target objects that are not desired for detection (swaying trees, flickers of light , etc.) will prevent unwanted alarms from being generated. This is done in the MOTION SETTING screen. MOTION SETTING MOTION MASKING MOTION MASKING SIZE ,...

[Page 52: Sensitivity Setting](#)

VIEW SETTING SENSITIVITY setting When noise from a dark screen is causing erroneous detections, make the value larger. Set the degree of sensitivity for motion detection corresponding Available settings: 1 - 10 to MOTION SIZE. Sensitivity can be set so that natural motions on the screen such as wind and light changes will not be detected.

[Page 53: Zoom Setting](#)

VIEW SETTING ZOOM setting INTERVAL setting This item is set in the MOTION SETTING screen. This item is set in the MOTION SETTING screen. MOTION SETTING MOTION SETTING SIZE , SIZE , MASKING , MASKING , SENSITIVITY , SENSITIVITY , ZOOM ZOOM INTERVAL...

[Page 54: Alarm Sign Setting](#)

VIEW SETTING ALARM SIGN setting This item is set in the MOTION SETTING screen. MOTION SETTING SIZE , MASKING , SENSITIVITY , ZOOM INTERVAL ALARM SIGN PRESET MENU BACK Use the cursor button (j or l) to move the cursor to OFF for ALARM SIGN, and then use the cursor button (d or c) to select ON.

[Page 55: E Profile Compensation Setting \(Aperture\)](#)

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VIEW SETTING GAMMA correction setting In addition to turning gamma correction ON or OFF, contrast sensitivity can be boosted at 2 levels. MAIN MENU VIEW SETTING 1 LANGUAGE , IRIS AUTO , CAMERA ID WHITE BALANCE , SYNC SHUTTER PRIVACY MASK ,...

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OPTION SETTING ALARM setting MAIN MENU OPTION Alarm input setting (ALARM IN) LANGUAGE , CONTROL , CAMERA ID ADDRESS SYNC ALARM , Make the following settings for alarm detection. PRIVACY MASK , LENS , Connect the external alarm switch to the alarm input terminal

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[Page 60: B Color/Black & White Selection Setting \(Day/Night\)](#)

OPTION SETTING Color/black & white selection setting POLARITY setting (DAY/NIGHT) Use the cursor button (j or l) to move the cursor to POLARITY, then use the cursor button (d or c) to select The ALARM IN terminal on the rear panel can be used to force the image mode to color mode or black &...

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OPTION SETTING Alarm output setting (ALARM OUT) ALARM SETTING ALARM SETTING ALARM SETTING ALARM IN ALARM IN ALARM IN POLARITY POLARITY POLARITY MOTION MOTION MOTION DURATION DURATION DURATION ALARM OUT ALARM OUT ALARM OUT POLARITY POLARITY POLARITY ALARM TIME ALARM TIME ALARM TIME LINE OUT LINE OUT...

[Page 62: D Operation Of Alarm Signal Output To The System Controller Setting \(Line Out\)](#)

OPTION SETTING Operation of alarm signal output to the System Controller setting (LINE OUT) Outputs alarm signal to the System Controller. The ALARM lamp on the System Controller will blink when it receives an alarm signal. An alarm list can be displayed to show information such as date/time alarm was received, the device sending the alarm and the alarm type.

[Page 63: Menu Flow](#)

MENU FLOW LANGUAGE CAMERA ID SETTING L-L SETTING LANGUAGE ENGLISH ABCDEFGHIJKLM (V SYNC PHASE) LANGUE FRENCH NOPQRSTUVWXYZ SPRACHE GERMANY 0123456789 :-, ú-----+-----ü ?????????????????? POSITION , MENU BACK PASSWORD PASSWORD (NEW PASSWORD) 1234 SET , *** SET , MAIN MENU PRIVACY MASK SETTING LANGUAGE ,...

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[Page 65: Specifications](#)

Service should always be referred to Electronic sensitivity your dealer or Sanyo Authorized Service Centre. boosting AUTO/OFF, works with auto iris Up to x32 max setting possible...

[Page 66](#) SPECIFICATIONS Dimensions 54 mm 125.3 mm 6 mm 116 mm 9.3 mm 1/4"-20UNC External appearance and specifications subject to change without notice.

[Page 67](#) Printed on recycled paper Gedruckt auf recyceltem Papier Imprimé sur du papier recyclé Sanyo Electric Co, Ltd. 1AC6P1P2628-- Printed in Japan L5AD2/XE(1102KP-SY)