

MALLINCAM Jr. COLOR CAMERA INSTRUCTION

Caution for Installation

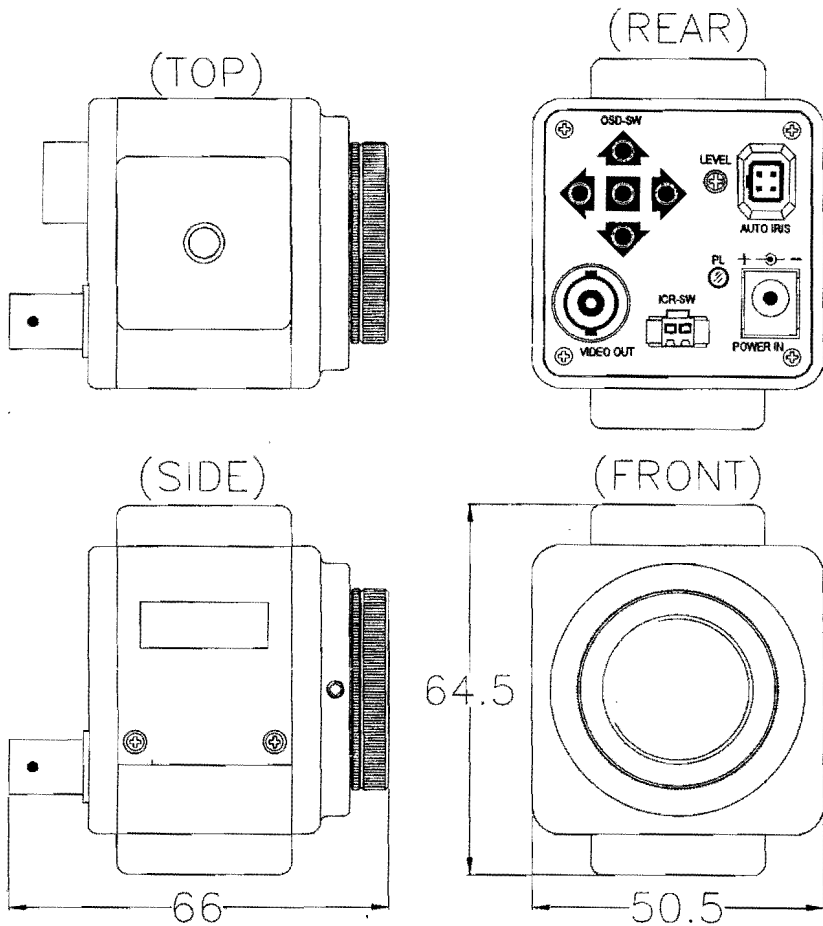
1. Avoid places where there is direct sunlight.
2. Be careful, never let any water in this equipment.
3. Do not directly touch the CCD element. If necessary, use a soft cloth moistened with alcohol to wipe off the dust.
4. Be extra careful not to shake the camera.
5. Avoid places where temperatures exceed 50 °C or more.
6. Be extra careful not to mistaken plug connection.
7. The camera are only operated with a regulated adaptor DC 12V, AC to DC. A non-regulative adaptor may cause camera damaged.

SPECIFICATION (RoHS Conform)

MODE NO.	MALLINCAM Jr. EXn		MALLINCAM Jr Exp
TV SYSTEM	NTSC		PAL
IMAGE SENSOR	ICX 428 AKL 1/2-inch. CCD Image Sensor		
CCD TOTAL PIXELS	~ 410K		~ 470K
SYNC SYSTEM	Internal		
MINIMUM ILLUMINATION	0.1 Lux	F1.2	3200°K (Sens up OFF)
LENS	C/Cs Mount		
RESOLUTION	520 TVL		
WHITE BALANCE	Mode	ATW/AWC	
	Range	3200-10000 °K	
S/N RATIO TYPICAL (MAX)	50dB (MIN) / 58dB (TYP) (Gamma, Aperture, AGC, OFF)		
Extended Shutter LUX	0.00002 F/1.4 5600K		
SENSE UP	ON / OFF (Preset 4X, Max 256X by program set)		
H - MIRROR FUNCTION	OFF / ON (By OSD set)		
V - MIRROR FUNCTION	OFF / ON (By OSD set)		
B.L.C. FUNCTION	ON / OFF (By OSD set)		
ZOOM FUNCTION	OFF / ON (By OSD set)		
ENHANCE	HIGH / MID (By OSD set)		
FLICKLESS	OFF / ON (By OSD set)		
GRAY SCALE	OFF / ON (By OSD set)		
GAMMA CORRECTION	0.45 / 1.0 (By OSD set)		
GAIN CONTROL	AGC ON / OFF		
AUTO IRIS	DC-IRIS		
DAY/NIGHT SW	AUTO/MANUAL (By OSD set)		
SDNR	Built-in SDNR (Super Digital Noise Reduction)		
OSD FUNCTION	All switch function with TITLE, MASK, SENU_P_SEL		
ELECTRONIC SHUTTER	A.E.S.	1/60~1/12,000 sec.	1/50~1/12,000 sec.
	FIX	1/60(50), 1/100(120), 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000sec.	
VIDEO OUT	1.0V p-p composite video at 75 ohm		
OPERATION TEMPERATURE	-30°C TO 50°C		
OPERATIONAL HUMIDITY	within 85% RH		
POWER SUPPLY	DC 12V±1V / 250 mA(Max)		

*The specifications and appearance of the product may be changed without notice.

Dimension: Unit (mm ± 0.5 mm)



* ICR-SW pin short is b/w mode.(day/night-ext mode only)

OSD MENUAL

There are 5 push switches [UP],[DOWN],[LEFT],[RIGHT],[ENTER], push the [ENTER] switch up to 1 second, a menu will pop-up on your screen.

You may now push [UP] or [DOWN] switch to browse around the menu.

1. MAIN

	MENU	
①	→WHITE BAL.	ATW
②	ALC/AES	ALC>
③	FLC	OFF
④	AGC	ON
⑤	SENSE UP	ON>
⑥	BACK LIGHT	OFF
⑦	MASK	SET>
⑧	OPTION	SET>
⑨	EXIT	SAVE

①WHITE BAL.	: ATW / AWB AWB MODE	Push [ENTER] switch ONE PUSH is active.
②ALC / AES	: ALC / AES ALC MODE	Push [ENTER] switch ALC sub menu is displayed.
③FLC	: OFF / ON	
④AGC	: OFF / ON	
⑤SENSE UP	: OFF / ON ON MODE	Push [ENTER] switch SENSE UP sub menu is displayed.
⑥BACK LIGHT	: OFF / ON	
⑦MASK	: SET>	Push [ENTER] switch MASK sub menu is displayed.
⑧OPTION	: SET>	Push [ENTER] switch OPTION sub menu is displayed.
⑨EXIT	: SAVE / PRESET	SAVE MODE Push [ENTER] save the content, OSD menu
off.	PRESET MODE	Push [ENTER] switch the default data will be store, OSD menu is off.

2. ALC

ALC	
① →SHUTTER	OFF
② RETURN	

①SHUTTER. : FIX shutter speed selector
NTSC : OFF, 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000
PAL : OFF, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000
[note] : FIX shutter is effective only at the FLC mode is off.

②RETURN : Push [ENTER] switch to get back to the previous page.

3. SENSE UP

SENSE UP	
① →MAX	x 8
② RETURN	

①MAX : SENSE UP max times selector
X2, X4, X8, X16, X32, X64, X128, X256.

②RETURN : Push [ENTER] switch to get back to the previous page.

4. MASK

```
① MASK  
② →MASK A OFF  
③ MASK B OFF  
④ MASK C OFF  
⑤ MASK D OFF  
RETURN
```

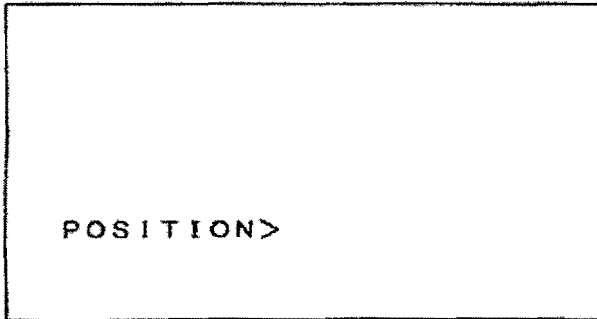
- ①MASK A : OFF / ON
ON MODE Push [ENTER] switch to enter the MASK SUB setting page.
- ②MASK B : OFF / ON
ON MODE Push [ENTER] switch to enter the MASK SUB setting page.
- ③MASK C : OFF / ON
ON MODE Push [ENTER] switch to enter the MASK SUB setting page.
- ④MASK D : OFF / ON
ON MODE Push [ENTER] switch to enter the MASK SUB setting page.
- ⑤RETURN : Push [ENTER] switch to get back to the previous page.

5. MASK SUB

```
MASK A  
  
① →POSITION>  
② SIZE>  
③ RETURN
```

- ①POSITION : Push [ENTER] switch to enter the MASK POSITION setting page.
- ②SIZE : Push [ENTER] switch to enter the MASK SIZE setting page.
- ③ RETURN : Push [ENTER] switch to get back to the previous page.

6. MASK POSITION

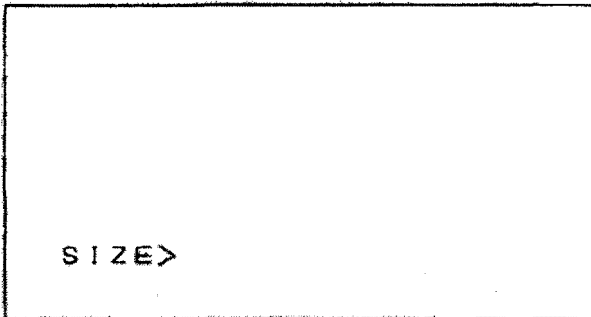


MASK POSITION the page is masking zone position setting.

Push [UP], [DOWN], [RIGHT], [LEFT], switch, select the position for the masking zone.

Push [ENTER] switch to get back to the previous page.

7. MASK SIZE



MASK SIZE the page is masking zone size setting.

Push [UP], [DOWN], [RIGHT], [LEFT], switch select the size for the masking zone.

Push [ENTER] switch to get back to the previous page.

8. OPTION

①	OPTION	
②	→TITLE	OFF
③	H-REV.	OFF
④	V-REV.	OFF
⑤	COLOR BAR	OFF
⑥	GAMMA	TYPE A
⑦	ZOOM	OFF
⑧	ENHANCER	HIGH
⑨	DAY/NIGHT	AUTO
	RETURN	

- ①TITLE : OFF / ON
ON MODE Push [ENTER] switch TITLE sub menu is display.
- ②H-REV. : OFF / ON
- ③V-REV. : OFF / ON
- ④COLOR BAR : OFF / ON
- ⑤GAMMA : TYPE A / TYPE B
- ⑥ZOOM : OFF / ON
- ⑦ENHANCER : HIGH / MID.
- ⑧DAY / NIGHT : AUTO / DAY / NIGHT / EXT.
 AUTO : By AGC-LEVEL decide color or monochrome image.
 DAY : Color image only.
 NIGHT : Monochrome image only.
 EXT. : By external signal decide color or monochrome image.
- ⑨ RETURN : Push [ENTER] switch to get back to the previous page.

9. TITLE

```
①  T I T L E
    — BS POS END
    0 1 2 3 4 5 6 7 8 9
    A B C D E F G H I J K L M
    N O P Q R S T U V W X Y Z
    a b c d e f g h i j k l m
    n o p q r s t u v w x y z
    + - = / # : ; . . [ ] ( )

    * * * * * * * * * * * * * * * * * * * *
```

Move cursor around alphabetical, push [ENTER] switch to enter the character you choose, the character will be display on the bottom line.

When the cursor is in the position of the following symbols, [←], [→], [BS], [POS], [END].

- [←] : Push [ENTER] switch, on the bottom line cursor will be move left.
- [→] : Push [ENTER] switch, on the bottom line cursor will be move right.
- [BS] : Push [ENTER] switch, on the bottom line cursor will be backspace.
- [POS] : Push [ENTER] switch, to enter the TITLE POSITION setting page.
Push [UP], [DOWN], [RIGHT], [LEFT], switches select the position for the title,
push [ENTER] switch to get back to the previous page.
- [END] : Push [ENTER] switch to get back to the previous page.

MAVIN CAM JR. EX 0912161421

WHITE BALANCE • AWB ✓
• ATW • WIDE (NORMAL COLOR)
• NARROW (RED)

ALC/AES • ALC ✓ SHUTTER OFF ✓
AES • AUTO SHUTTER
• LINKED TO FLC

FLC OFF ✓ } REDUCE FLICKER/ROLLING
ON }

AGC ON ✓ - FULL GAIN

Note: AGC ON is almost twice as sensitive as AGC OFF. Use ON under dark sky conditions.

SENSE UP ON ✓ 2-4-8-16-32-64-128-256

BACK LIGHT OFF ✓

MASK • SET ✓

OPTION

- TITLE OFF ✓
- H-REV OFF ✓
- V-REV OFF ✓
- COLOR BAR OFF ✓
- GAMMA • TYPE A (0.45)
• TYPE B (1.00)
- ZOOM • OFF ✓
• ON (21.5X)
- ENHANCER • MID ✓
• HIGH } APC-LIKE FUNCTION
HIGH = SHARPER
- DAY/NIGHT • EXT ✓ - EXTERNAL (COLOR)
• AUTO
• DAY - COLOR
• NIGHT - B/W MODE
- PRIORITY • AGC
• SENSE
- RETURN