# **SPECIFICATION FOR APPROVAL**

ITEM :

COLOR CCD MODULE

MODEL NO :

SCM510H^OSD

**CUSTOMER**:

616-15, GANSUK4-DONG, NAMDONG-GU, INCHON 405-810, KOREA

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## 1 . Specifications

SPECIFICATION	SC	M510H (NTSC)	SCM510H (PAL)		
Туре	BOARD TYPE COLOR CAMERA				
Image Sensor	1/3" S	ONY COLOR CCD 410K	1/3" SONY COLOR CCD 410K		
Effective Pixel	753(H) × 582(V)				
Cell Size		6.6um(H) $ imes 6.3$ um(V)			
Horizontal Resolution		560(H)TV Line			
TV Line		NTSC	PAL		
Sync. Type		Internal			
Scanning System	2:1 Interace				
Scanning Frequency (Ho		15.735KHz	15.625KHz		
Scanning Frequency (Ver		60Hz	50Hz		
Video Output	Composite 1.0Vp-p 75ohm unbalanced				
Gamma Characteristic	0.45 typ.				
Min Illumination	0.1Lux @F:1.2				
S/N Ratio	More Than 48dB				
Gain Control	Automatic				
Electronic Shutter	1/60~1/100,000 sec		1/50~1/100,000 sec		
Power Supply	Regulated DC 12.0V (9V~15V)				
Power Consumption	100mA				
Lens Mount	Fixed Lens Mount				
Operation Temp	-10~50°C				
Preservation Temp	-30~80 °C				
Dimension (mm)	38(H) × 38(W)				
Weight			Approx. 26g		
	Board	Board F3.6mm (Standard), 2.2mm, 2.9mm, 4.3mm, 6mm, 8mm, 12mm			
Lens Options	Pinhole	Flat & Cone Pinhole : 2.8mm, 3.7mm, 4.3mm			
	Varifocal	Manual Varifocal lens : 4~9mm, 2.8~12mm			

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### 1. Gerneral Charicteristic on SCM500 series << Overview >>

- $\cdot$  New line, SCM500 series offer exterior-easy setting of camera functions what users want, as it no requires extra MCU to command the DSP of the CCD module.
- << Direction >>
- $\cdot$  With Video Signal into the monitor, KEY^2\_S/W brings up the menu, picture 0.
- $\cdot$  Use KEY^1\_S/W to select the each item downward.
- · Selected item High-Lighted in darker.
- $\cdot$  Use KEY^3\_S/W to make changes on the selected item.
- To make the changes permanet, must "Exit" the "SET UP" menu.
- •Once changes made, it stays regardless of power ON/OFF.

SETUP	
LENS SHUTTER ADJUST DAY NIGHT WHITE BAL. BLC MIRROR AGC GAMMA RESET EXIT	MANUAL AUTO^ AUTO^ ATW OFF OFF OFF ON^ 0.45 ^

Picture 0. SAMBO' Basic Menu



#### 2-3:ADJUST

•Select "ADJUST" and prss *KEY*^3\_S/*W* to activate the list like Picture 4. Use *KEY*^1\_S/*W* to select a list to change the setting as user wants. Press *KEY*^2\_S/*W* and ues *KEY*^1\_S/*W* & *KEY*^3\_S/*W* to increase & decrease the volume. Again press *KEY*^2\_S/*W* to move to the next item and select "RETURN." Press *KEY*^2\_S/*W* to go back to the "Set Up Menu."

ADJUST	
BRIGHTNESS	068
SHARPNESS	14
CB-GAIN	162
CR-GAIN	165
RETURN	

Picture 3. Adjustment menu

#### 2-4:DAY NIGHT

• Select "DAYNIGHT" and prss  $KEY^3_S/W$  to move "AUTO" - " B/W " - "COLOR" in order. Use  $KEY^1_S/W$  to select a list to change the setting as user wants.

Press  $KEY^2_S/W$  to select the menu and ues  $KEY^1_S/W \& KEY^3_S/W$  to increase & decrease the volume.

Again press  $KEY^2_S/W$  to move to the next item and select "RETURN." Press  $KEY^2_S/W$  to go back to the "Set Up Menu."

DAY NIGHT	
DELAY	010
START LEVEL	116
END LEVEL	117
RETURN	

Picture 4. DAY NIGHT OPTION

#### 2-5:WHITE BAL.

Select "WHITE BALANCE" and press KEY^3\_S/W to move "ATW" - "AWB" - "FIXED" - "MANUAL" in order. Press KEY^2\_S/W to activate "AWB MANUL" like Picture 6. Use KEY^1\_S/W to selcet a list to change the setting as user wants. Ues KEY^1\_S/W & KEY^3\_S/W to increase & decrease the volume. Again press KEY^2\_S/W to move to the next item and select "RETURN." Press KEY^2\_S/W to go back to the "Set Up Menu."

	142
RED	113
	0.55
BLUE	255



#### 2-6:BLC

Select "BLC" and press KEY^3\_S/W to set "BLC ON/OFF."
Press KEY^2\_S/W to activate "BLC ON" like Picture 6-1.
Use KEY^1\_S/W to select a list to change the setting as user wants.
Ues KEY^1\_S/W & KEY^3\_S/W to increase & decrease the volume.
Again press KEY^2\_S/W to move to the next item and select "RETURN."

BLC SETUP	
BLC AREA^	
BLC RATIO	31

Picture 6-1. BLC ON/OFF

#### 2-6-1.BLC AREA

Select "BLC ACRA" and press KEY^1\_S/W to set BLC area.
 After setting the area, press KEY^2\_S/W long brings up the Picture 6-2.
 Use KEY^1\_S/W to selcet a list and press KEY^2\_S/W to change the setting as user wants.
 Select "EXIT" using KEY^1\_S/W (Picture 6-3) and press KEY^2\_S/W to go back to the "BLC SETUP."



Picture 6-2. SETTING BLC RATIO



Picture 6-3. SETTING BLC RATIO



