

# SCC-641(P)/SCC-643A(P)

*SmartDome Camera*



## Summary

This product employs a 10x digital zoom and 22x built-in optical lens to offer up to 220x zoom and can correctly catch an object at a long distance range via the Auto Focus function. Its Digital Signal Processor (DSP) system represents clear and high quality images of objects under either bright or dark settings. It can observe objects clearly under dark circumstances by realizing high sensitivity that allows observation under minimum illumination of 0.01Lux (Sense Up x128). SCC-643A(P) have the Day/Night function as well as the Privacy Zone (8 areas) function by which the user can mask a certain area to protect privacy.

This camera can be panned 360° and tilted 90° conveniently with its 64 steps of Manual Pan/Tilt operations. With the moving speed of up to 240°/sec during the preset mode, user can instantly observe desired points. It provides a remote control interface of RS-485 (Full-Duplex and Half-Duplex)/ RS-422 and can organize up to 128 cameras in a single system with Samsung's exclusive controllers (SSC-1000 and SSC-2000).

One of the main features of this product is that it provides various AUTO functions that can be defined by the user. Its Preset function is distinguished from that of cameras of other manufacturers. Not only it can set 128 camera locations, zooms, and focuses of cameras but it can also perform video setups for the corresponding locations. Thus user can preset and save each video control such as iris control, shutter speed and white balance. This feature enables the expansion of applications of the smart dome under an assortment of installation circumstances.

The Scan function executes touring of preset locations in order to observe critical places rapidly. The camera also supports the Auto Pan function that pans the camera to observe a place designated by user at a constant speed to designated directions, and the Pattern function that saves and replays the 30 seconds' Pan/Tilt/Zoom operation by user (up to 3 operations). It also provides powerful Alarm In/Out and Motion Detection functions. Four inputs and three outputs are available for the Alarm function. Alarm and motion detection functions can be used by connecting to the Preset and Pattern functions defined by the user.



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## SmartDome Camera

### Features

- 22x (f=3.6~79.2mm) optical lens, and built-in 10x digital zoom lens (Maximum 220x zoom-in, AF function)
- RS-485 (Half Duplex • Full Duplex)/RS-422 remote control.
- DSP (Digital Signal Processor) IC suitable
- Day & Night function (SCC-643A(P)).
- Minimum illumination of 0.01 Lux (SCC-641(P))
- Minimum illumination of 0.01 Lux for Color, 0.003 Lux for B/W (SCC-643A(P))
- 360° endless horizontal rotation and 0~90° vertical rotation.
- Rapid search at maximum rotating speed of 240°/sec.
- Motion detection.
- Alarm in : 4Ch, Alarm out: 3Ch.
- More than 480 lines of horizontal resolution.
- Preset function (Up to 128 locations).
- Auto functions that can be defined by the user (Preset, auto-pan, and scan).
- Privacy zone function for 8 locations (SCC-643A(P)).

### Dimensions (unit : mm)



### Rear Panel



### Specifications

		SCC-641(P)	SCC-643A(P)	
Image	Device	CCD	CCD	
	Size	1/4 inch	1/4 inch	
	Pixels-Total	641: 811 x 508, 641P: 795 x 596	643A: 811 x 508, 643AP: 795 x 596	
Scanning	Pixels-Effective	641: 768 x 494, 641P: 752 x 582	643A: 768 x 494, 643AP: 752 x 582	
	System	Interlace	Interlace	
	Horizontal Frequency-Internal Mode	641: 15,734 Hz, 641P: 15,625 Hz	643A: 15,734 Hz, 643AP: 15,625 Hz	
	Horizontal Frequency-Line-lock Mode	641: 15,750 Hz, 641P: 15,625 Hz	643A: 15,750 Hz, 643AP: 15,625 Hz	
	Vertical Frequency-Internal Mode	641: 59.94 Hz, 641P: 50 Hz	643A: 59.94 Hz, 643AP: 50 Hz	
Min. Scene Illumination	Vertical Frequency-Line-lock Mode	641: 60 Hz, 641P: 50 Hz	643A: 60 Hz, 643AP: 50 Hz	
	Color	0.3 Lux (Sense Up X4 30IRE), 0.01 Lux (Sense Up X128)	0.3 Lux (Sense Up X4 30IRE), 0.01 Lux (Sense Up X128)	
PAN/TILT	B/W	-	0.003 Lux	
	Speed-Manual Pan	0.8°/sec ~ 90°/sec	0.8°/sec ~ 90°/sec	
	Speed-Preset Pan	240°/sec	240°/sec	
	Speed-Manual Tilt	0.8°/sec ~ 45°/sec	0.8°/sec ~ 45°/sec	
	Speed-Preset Tilt	150°/sec	150°/sec	
	Range-Panning	360° (endless)	360° (endless)	
	Range-Tilting	0°/sec ~ 90°/sec	0°/sec ~ 90°/sec	
	Number of Scan	1	1	
	Number of Auto PAN	1	1	
	Number of Preset	128	128	
	Number of Pattern	3	3	
	Functions	Number of Privacy Zone	-	8
		Day/Night	-	Yes
		Motion Detection	Yes	Yes
		Wide Dynamic Range	-	-
D-Zoom		Yes(2X ~ 10X)	Yes(2X ~ 10X)	
High Speed Shutter		Yes(OFF ~ 1/10K)	Yes(OFF ~ 1/10K)	
Sense Up		Yes(X2 ~ X128)	Yes(X2 ~ X128)	
PIP		Yes	Yes	
BLC		Yes	Yes	
AGC		Yes	Yes	
Line Lock		Yes	Yes	
Camera ID		Max 12 Character	Max 12 Character	
White Balance		ATW/AWC/MANUAL	ATW/AWC/MANUAL	
Resolution		Horizontal	480 TV Lines	480
		Vertical	350 TV Lines	350
Video Output	VBS 1.0Vp-p	VBS 1.0Vp-p	VBS 1.0Vp-p	
S/N Ratio	52	52 dB	52 dB	
Lens	Focal Length	3.6 ~ 79.2 mm	3.6 ~ 79.2 mm	
	Zoom ratio	22X	22X	
	Aperture Ratio	F1.6(Wide), F3.8(Tele)	F1.6(Wide), F3.8(Tele)	
	Viewing Angle-Tele	2° 3'(H) x 1° 7'(V)	2° 3'(H) x 1° 7'(V)	
	Viewing Angle-Wide	47° 9'(H) x 36° 9'(V)	47° 9'(H) x 36° 9'(V)	
OSD	OSD	Yes	Yes	
	Alarm	4	4	
Remote Control	Input	3	3	
	Output	3	3	
Environmental Conditions	RS485/RS-422	RS485 Half/Full Duplex, RS-422	RS485 Half/Full Duplex, RS-422	
	Operating Temperature	-10° C ~ +50° C	-10° C ~ +50° C	
Power	Humidity	Less than 90%	Less than 90%	
	Power Requirement	AC24V ±10%	AC24V ±10%	
	Power Consumption	18W	18W	
	LED Indicator	Yes	Yes	
Physical Specification	Dimensions -Net	159.5(ø)x177(H)	159.5(ø)x177(H)	
	Weight-Net	1,700g	1,700g	
	Loading Quantity(20/40ft)	756/1,776	756/1,776	
	Package Size	378 x 308 x 275 mm	378 x 308 x 275 mm	

\* "P" indicates PAL model & "N" or no specific alphabet after the model name indicates NTSC model.

\* Design and specifications are subject to change without notice.



SAMSUNG ELECTRONICS CO.,LTD.

Digital Video Division

416, Maetan-3Dong, Yeongtong-Gu, Suwon City, Gyeonggi-Do, Korea 443-742

Tel: +82-31-200-5504, 5578 Fax: +82-31-200-5594

http://www.securitysamsung.com