

Samsung CCTV Camera Protocol Function Table

(SCC-641/643, SCC-931T, SCC-C4X01,
SCC-C64XX, SCC-C4X05/C4X07/C9302)

History

Manufacturing Date	Version	Description
2004.09.16	1.0	Unified version first made
2005.09.29	1.1	Inserted SCC-C64X5/C4X05 Protocol
2005.09.30	1.2	Inserted KALATEL protocol in SCC-641/643, C64XX,
2005.11.30	1.3	Delete Function4(DM Sprite2) of KALATEL Protocol
2006.01.24	1.4	Inserted SCC-C64X7/C4X07 Protocol
2006.03.24	1.5	Inserted SCC-C6403/C9302 Protocol Inserted AD Protocol(Full) in SCC-C64XX

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SCC-641/643 PROTOCOL FUNCTION TABLE

(SCC-641 Alarm v2.1
SCC-643 Alarm v1.5, 2.0)

History

Manufacturing Date	Version	Description
2004.09.16	1.0	SCC-641/643 unified version first made
2005.09.30	1.1	Inserted KALATEL protocol
2005.11.30	1.2	Delete Function4(DM Sprite2) of KALATEL protocol

[PROTOCOL SETTING]

SW501(0:↓,1:↑)				Protocol	HALF/FULL
5	6	7	8		
0	0	0	0	SAMSUNG	HALF
1	0	0	0	SAMSUNG	FULL
0	1	0	0	VICON	HALF
1	1	0	0	PANASONIC	HALF
0	0	1	0	PANASONIC	FULL
1	1	1	0	PHILIPS	HALF
0	0	0	1	PELCO-P	HALF
1	0	0	1	KALATEL	HALF
0	1	0	1	ERNA	HALF
1	1	0	1	DIAMOND	HALF
0	0	1	1	VCL TP	HALF
1	0	1	1	PELCO-D	HALF
0	1	1	1	PELCO-D	FULL
1	1	1	1	VICON	FULL

[BAUD-RATE SETTING]

1. SAMSUNG

Baud Rate	SW501-3	SW501-4
38400BPS	OFF	OFF
19200BPS	ON	OFF
9600BPS	OFF	ON
4800BPS	ON	ON

2. VICON

Baud Rate	SW501-3	SW501-4
19200BPS	OFF	OFF
9600BPS	ON	OFF
4800BPS	OFF	ON
600BPS	ON	ON

3. PHILIPS

Baud Rate	SW501-3	SW501-4
38400BPS	OFF	OFF
9600BPS	ON	OFF
2400BPS	OFF	ON
1200BPS	ON	ON

4. PANASONIC, PELCO-P

Baud Rate	SW501-3	SW501-4
19200BPS	OFF	OFF
9600BPS	ON	OFF
4800BPS	OFF	ON
2400BPS	ON	ON

5. DIAMOND,VCL

Baud Rate	SW501-3	SW501-4
9600BPS	OFF	ON

(※ Only 9600BPS is supported.)

6. ERNA, PELCO-D

Baud Rate	SW501-3	SW501-4
2400BPS	ON	ON

(※ Only 2400BPS is supported.)

7. KALATEL

Baud Rate	SW704-5	SW704-6
9600BPS	OFF	ON
4800BPS	ON	ON

[ADDRESS SETTING]

: Use SW500. (Refer to SCC-641/643 User's Manual.)

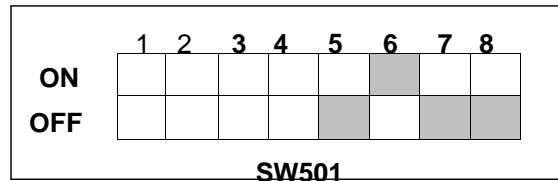
※ When using *ERNA*, *DIAMOND*, *VCL protocol*, controlling address is correspond to "SCC-643 address(SW500)+1".

1. PROTOCOL ID: 2, 15

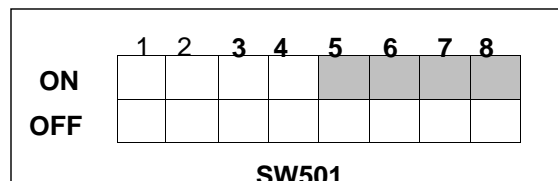
1) **Maker** : VICON HALF(2)/FULL(15)

2) **Dip Switch** : Set 5,6,7,8 pin of SW501. (Protocol Select)

VICON **HALF** Duplex



VICON **FULL** Duplex



※ Refer to SCC-641 User's Manual

SW501 1~2 : RS-485 Termination

3~4 : Baud Rate

Baud Rate	SW501-3	SW501-4
19200BPS	OFF	OFF
9600BPS	ON	OFF
4800BPS	OFF	ON
※ ₁ 600BPS	ON	ON

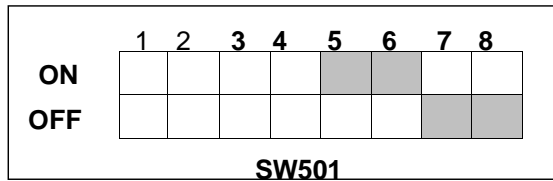
3) Function

	VICON (V1300X-DVC)	SCC-641
1	Pan/Tilt/Zoom/Focus/Iris	Pan/Tilt/Zoom/Focus/Iris
2	RUN MODE : PP ENTER → #(1~89) → PP ENTER	Go to Preset (1 ~ 89)
3	PGM MODE: PP ENTER → #(1~89) → PP ENTER	Save Preset (1 ~ 89)
4	RUN MODE : PP ENTER → #(90) → PP ENTER	Menu On/Off
5	RUN MODE : PP ENTER → #(91) → PP ENTER	Menu Mode : ENTER Key
6	RUN MODE : PP ENTER → #(92) → PP ENTER	Scan Start
7	RUN MODE : PP ENTER → #(93) → PP ENTER	Auto Pan Start
8	RUN MODE : PP ENTER → #(94) → PP ENTER	Pattern 1
9	RUN MODE : PP ENTER → #(95) → PP ENTER	Pattern 2
10	RUN MODE : PP ENTER → #(96) → PP ENTER	Pattern 3
11	RUN MODE : PP ENTER → #(97) → PP ENTER	Menu Mode: ※ ₂
12	RUN MODE : PP ENTER → #(98) → PP ENTER	Camera Reset
13	RUN MODE : PP ENTER → #(99) → PP ENTER	Alarm Reset
14	Joystick Up	Menu Mode: ↑ Key
15	Joystick Down	Menu Mode: ↓ Key
16	Joystick Left	Menu Mode: ← Key
17	Joystick Right	Menu Mode: → Key

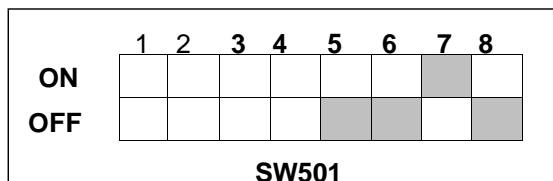
- ※₁ 600 BPS is recommended when you install more than 256 cameras.
- ※₂ It is used to select 'SIZE' and 'POSITION' in Setup Menu.
(**MAIN MENU ** → CAMERA... → MOTION DET ON → AREA USER... or
**MAIN MENU ** → VIDEO SET... → IRIS ALC... → AREA USER...)

2. PROTOCOL ID : 3, 4

- 1) **Maker** : PANASONIC HALF(3) / FULL(4)
 2) **Dip Switch** : Set 5,6,7,8 pin of SW501.(Protocol Select)
 PANASONIC **HALF** Duplex



PANASONIC **FULL** Duplex



SW501 1~2 : RS-485 Termination (Refer to SCC-641/643 Owner's Instructions)

3~4 : DM Sprite2 Only 19200 bps.

Baud Rate	SW501-3	SW501-4
19200BPS	OFF	OFF
9600BPS	ON	OFF
4800BPS	OFF	ON
2400BPS	ON	ON

3) Function 1

	PANASONIC WV-CU161 Controller	SCC-641/643
1	CAM ADDR	CAMERA ADDR Select
2	Pan/Tilt/Zoom/Focus/Iris	Pan/Tilt/Zoom/Focus/Iris
3	#(1~54) → PRESET SET	Go to Preset (1 ~ 54)
4	CAMERA SETUP or #(55) → PRESET SET	Camera Menu On/Off
5	PRESET SET or # → PRESET SET Holding Cam setup(program) or #(56) → PRESET SET	Menu Mode : Enter Key
6	#(58) → PRESET SET	Autopan 1
7	#(59) → PRESET SET	Scan 1
8	#(60) → PRESET SET	Alarm Reset
6	HOME ESC	Menu Mode : ※ ₁
7	#(61) → PRESET SET	Pattern 1
8	#(62) → PRESET SET	Pattern 2
9	#(63) → PRESET SET	Pattern 3
10	#(64) → PRESET SET	Camera Reset
11	#(1) → AUTO	Auto Pan
12	#(2) → AUTO	Scan
13	#(3) → AUTO	Alarm Reset

14	Joystick Up (2)	Menu Mode: '↑' Key
15	Joystick Down (8)	Menu Mode: '↓' Key
16	Joystick Left (4)	Menu Mode: '←' Key
17	Joystick Right (6)	Menu Mode: '→' Key

4) Function 2

	PANASONIC WV-CU550C Matrix Switcher	SCC-641/643
1	CAM ADDR	CAMERA ADDR Select
2	Pan/Tilt/Zoom/Focus/Iris	Pan/Tilt/Zoom/Focus/Iris
3	#(1 ~ 54) → Preset/AF	Go to Preset (1 ~ 54)
4	CameraSetup Menu(D4) → F1 or #(55) → Preset/AF	Camera Menu On/Off
5	CAM(SET) or #(56) → Preset/AF	Menu Mode : Enter Key
6	ESC or #(57) → Preset/AF	Menu Mode : ※ ₁
7	Pan Action(B1) → F1 or #(58) → Preset/AF	Auto Pan
8	Pan Action(B1) → 2 → F1 or #(59) → Preset/AF	Scan
9	#(60) → Preset/AF	Alarm Reset
10	PatrolLearn(B4) → F1 or #(61) → Preset/AF	Pattern 1
11	#(62) → Preset/AF	Pattern 2
12	#(63) → Preset/AF	Pattern 3
13	#(64) → Preset/AF	Cam Reset...
14	Joystick Up (2)	Menu Mode: '↑' Key
15	Joystick Down (8)	Menu Mode: '↓' Key
16	Joystick Left (4)	Menu Mode: '←' Key
17	Joystick Right (6)	Menu Mode: '→' Key

5) Function3

	Dedicated Micros Sprite2 Network Viewer / Controller	SCC-641/643
1	DM Sprite2 Input Ch.	CAMERA ADDR Selectection
2	Pan/Tilt/Zoom/Focus/Iris	Pan/Tilt/Zoom/Focus/Iris
3	Preset → #(1 ~ 36)	Go to Preset (1 ~ 54)
4	* → Menu or Preset → #(37)	Camera Menu On/Off
5	Enter or	Menu Mode : Enter Key

	Preset → #(38)	
6	AUTO PAN Icon(Button)	Auto Pan
7	PATROL Icon(Button)	Pattern 1
8	Joystick Up (2)	Menu Mode: '↑' Key
9	Joystick Down (8)	Menu Mode: '↓' Key
10	Joystick Left (4)	Menu Mode: '←' Key
11	Joystick Right (6)	Menu Mode: '→' Key

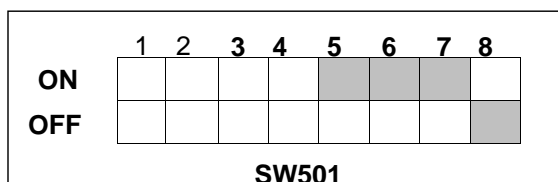
※₁ It is used to select 'SIZE' and 'POSITION' in Setup Menu.

(**MAIN MENU ** → CAMERA... → MOTION DET ON → AREA USER... or
 **MAIN MENU ** → VIDEO SET... → IRIS ALC... → AREA USER...)

3. PROTOCOL ID : 7

1) **Maker** : PHILIPS HALF

2) **Dip Switch** : Set 5,6,7,8 pin of SW501. (Protocol Select)



※ Refer to SCC-641/643 User's Manual

SW501 1~2 : RS-485 termination

3~4 : Baud Rate.

Baud Rate	SW501-3	SW501-4
38400BPS	OFF	OFF
9600BPS	ON	OFF
2400BPS	OFF	ON
1200BPS	ON	ON

3) Function

	LTC8200/50, LTC5136/60, LTC5138	SCC-641/643
1	PAN/TILT/ZOOM/FOCUS/IRIS	Pan/Tilt/Zoom/Focus/Iris
2	SET → #(1~22) → ENTER	Set Preset(1~22)
3	SHOT → #(1~22) → ENTER	Go To Preset(1~22)
4	SHOT → #(23) → ENTER	Menu On
5	SHOT → #(24) → ENTER	Menu Mode : Enter Key
6	SHOT → #(25) → ENTER	Menu Mode : ※ ₁
7	SHOT → #(26) → ENTER	Pattern 1
8	SHOT → #(27) → ENTER	Pattern 2
9	SHOT → #(28) → ENTER	Pattern 3
10	SHOT → #(29) → ENTER or ON → #(8) → ENTER	Scan
11	SHOT → #(30) → ENTER or ON → #(2) → ENTER	Auto Pan
12	SHOT → #(31) → ENTER	Alarm Reset
13	SHOT → #(32) → ENTER	Cam Reset
14	Joystick Up	Menu Mode : ↑ Key
15	Joystick Down	Menu Mode : ↓ Key
16	Joystick Left	Menu Mode : ← Key
17	Joystick Right	Menu Mode : → Key

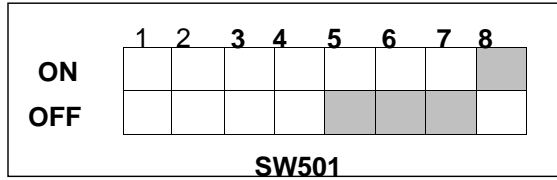
※₁ It is used to select 'SIZE' and 'POSITION' in Setup Menu.

(**MAIN MENU ** → CAMERA... → MOTION DET ON → AREA USER... or
**MAIN MENU ** → VIDEO SET... → IRIS ALC... → AREA USER...)

4. PROTOCOL ID : 8

1) Maker : PELCO-P HALF

2) Dip Switch : Set 5,6,7,8 pin of SW501.(Protocol Select)



SW501 1~2 : RS-485 termination (Refer to SCC-641/643 User's Manual)

3~4 : Baud Rate

Baud Rate	SW501-3	SW501-4
9600BPS	ON	OFF
4800BPS	OFF	ON
2400BPS	ON	ON

3) Function1

	CM6700 Matrix Switcher	SCC-641/643
1	#(1~16)→CAM	Camera Address Set
2	PAN/TILT/ZOOM/FOCUS/IRIS	PAN/TILT/ZOOM/FOCUS/IRIS
3	#(1~90)→PRESET(hold for two seconds)	Set Preset(1~90)
4	#(1~90)→PRESET	Go To Preset(1~90)
5	#(99)→PRESET	Auto Pan On
6	#(96)→PRESET	Auto Pan Off
7	#(91)→PRESET or PATTERN	Pattern 1
8	#(92)→PRESET	Pattern 2
9	#(93)→PRESET	Pattern 3
10	#(98)→PRESET	Scan
11	#(95)→PRESET	Menu On
12	IRIS OPEN	Menu Mode : Enter Key
13	IRIS CLOSE	Menu Mode : ※ ₁
14	#(97)→PRESET	Alarm Reset
15	#(94)→PRESET	Camera Reset
16	Joystick Up	Menu Mode : ↑ Key
17	Joystick Down	Menu Mode : ↓ Key
18	Joystick Left	Menu Mode : ← Key
19	Joystick Right	Menu Mode : → Key

4) Function2

	CM6800 Matrix Switcher PACOM 2035 Controller	SCC-641/643
1	#(1~48)→CAM	Camera Address Set

2	PAN/TILT/ZOOM/FOCUS/IRIS	PAN/TILT/ZOOM/FOCUS/IRIS
3	DEF→PRST→#(1~90)→ENTER	Set Preset(1~90)
4	PRST→#(1~90)→ENTER	Go To Preset(1~90)
5	PRST→#(99)→ENTER	Auto Pan On
6	PRST→#(96)→ENTER	Auto Pan Off
7	PRST→#(91)→ENTER	Pattern 1
8	PRST→#(92)→ENTER	Pattern 2
9	PRST→#(93)→ENTER	Pattern 3
10	PRST→#(98)→ENTER	Scan
11	PRST→#(95)→ENTER	Menu On
12	IRIS OPEN	Menu Mode : Enter Key
13	IRIS CLOSE	Menu Mode : ※ ₁
14	PRST→#(97)→ENTER	Alarm Reset
15	PRST→#(94)→ENTER	Camera Reset
16	Joystick Up	Menu Mode : ↑ Key
17	Joystick Down	Menu Mode : ↓ Key
18	Joystick Left	Menu Mode : ← Key
19	Joystick Right	Menu Mode : → Key

5) Function 3

	Dedicated Micros Sprite2 Network Viewer / Controller	SCC-641/643
1	DM Sprite2 Input Ch.	CAMERA ADDR Select
2	Pan/Tilt/Zoom/Focus/Iris	Pan/Tilt/Zoom/Focus/Iris
3	Preset → #(1 ~ 90)	Go to Preset (1 ~ 54)
4	* → Menu or Preset → #(95)	Menu On
5	Preset → #(95)	Menu Off
6	IRIS OPEN	Menu Mode : Enter Key
7	IRIS CLOSE	Menu Mode : ※ ₁
8	AUTO PAN Icon(Button)	Auto Pan
9	PATROL Icon(Button)	Pattern 1
10	Joystick Up (2)	Menu Mode: '↑' Key
11	Joystick Down (8)	Menu Mode: '↓' Key
12	Joystick Left (4)	Menu Mode: '←' Key
13	Joystick Right (6)	Menu Mode: '→' Key

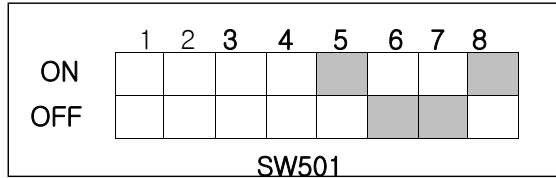
※₁ It is used to select 'SIZE' and 'POSITION' in Setup Menu.

(**MAIN MENU ** → CAMERA... → MOTION DET ON → AREA USER... or
**MAIN MENU ** → VIDEO SET... → IRIS ALC... → AREA USER...)

5. PROTOCOL ID : 9

1) **Maker** : KALATEL HALF

2) **Dip Switch** : Set 5,6,7,8 pin of SW501.(Protocol Select)



※ Refer to SCC-641 User's Manual

SW501 1~2 : RS-485 termination (Refer to SCC-641 User's Manual)

3~4 : Baud Rate.

3) Function1

	KALATEL (KTD-404 Keyboard-4800 bps Only)	SCC-641/643
1	#(001~249)	Camera Address Set
2	Pan/Tilt/Zoom/Focus/Iris	Pan/Tilt/Zoom/Focus/Iris
3	AUTO FOCUS	One AF
4	SET (Hold for 3sec) → 9,5,1, Seq → 2 (Rcvr) → 001~249 Camera Number → 2 (Preset) → Position #(00~53)	Set Preset(0~53)
5	SET → #(00~53)	Go To Preset(0~53)
6	AUTO or SET → #61	Auto Pan On/Off
7	SET → #57	Pattern 1 On/Off
8	SET → #58	Pattern 2 On/Off
9	SET → #59	Pattern 3 On/Off
10	SET → #60	Scan On/Off
11	SET → #54	Menu On/Off
12	SET → #55	Menu Mode : Enter Key
13	SET → #62	Alarm Reset
14	SET → #63	Camera Reset
15	Joystick Up	Menu Mode : ↑ Key
16	Joystick Down	Menu Mode : ↓ Key
17	Joystick Left	Menu Mode : ← Key
18	Joystick Right	Menu Mode : → Key

4) Function2

	KALATEL (KT405 Keyboard-9600 bps Only)	SCC-641/643
1	#(0~255) → SET	Camera Address Set
2	Pan/Tilt/Zoom/Focus/Iris	Pan/Tilt/Zoom/Focus/Iris
3	AUTO FOCUS	One AF

4	STORE → #(01~53) → STORE	Set Preset(1~53)
5	FIND → #(01~53)	Go To Preset(1~53)
6	FIND → #61	Auto Pan On/Off
7	TOUR → #1 or FIND → #57	Pattern 1 On/Off
8	TOUR → #2 or FIND → #58	Pattern 2 On/Off
9	FIND → #59	Pattern 3 On/Off
10	TOUR → #3 or FIND → #60	Scan On/Off
11	FIND → #54	Menu On/Off
12	FIND → #55	Menu Mode : Enter Key
13	FIND → #62	Alarm Reset
14	FIND → #63	Camera Reset
15	Joystick Up	Menu Mode : ↑ Key
16	Joystick Down	Menu Mode : ↓ Key
17	Joystick Left	Menu Mode : ← Key
18	Joystick Right	Menu Mode : → Key

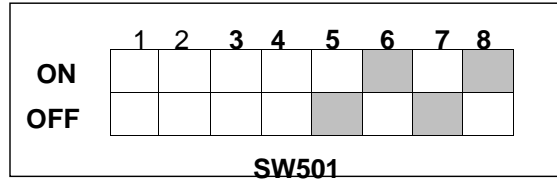
5) Function3

	KALATEL (ASCII Protocol-9600 bps Only)	SCC-641/643
1	#(1~249) → SET	Camera Address Set
2	Pan/Tilt/Zoom/Focus/Iris	Pan/Tilt/Zoom/Focus/Iris
3	SET Preset(01~53)	Set Preset(1~53)
4	Go to Preset(01~53)	Go To Preset(1~53)
5	Go to Preset(61)	Auto Pan On/Off
6	Go to Preset(57)	Pattern 1 On/Off
7	Go to Preset(58)	Pattern 2 On/Off
8	Go to Preset(59)	Pattern 3 On/Off
9	Go to Preset(60)	Scan On/Off
10	Go to Preset(54)	Menu On/Off
11	Go to Preset(55)	Menu Mode : Enter Key
12	Go to Preset(62)	Alarm Reset
13	Go to Preset(63)	Camera Reset
14	Joystick Up	Menu Mode : ↑ Key
15	Joystick Down	Menu Mode : ↓ Key
16	Joystick Left	Menu Mode : ← Key
17	Joystick Right	Menu Mode : → Key

6. PROTOCOL ID : 10

1) **Maker** : ERNA HALF

2) **Dip Switch** : Set 5,6,7,8 pin of SW501.(Protocol Select)



SW501 1~2 : RS-485 termination (Refer to SCC-641/643 User's Manual)

3~4 : Only 2400 BPS.

3) Function

	ernitec controller	SCC-641/643
1	※ ₁ #(1~128) → CAM	Camera Address Select
1	Pan/Tilt/Zoom/Focus/Iris	Pan/Tilt/Zoom/Focus/Iris
2	#(1~120) → Prepos	Go to Preset (1 ~ 120)
3	#(1~120) → ESC → Prepos	Save Preset (1 ~ 120)
4	AUTO → Sequence	Auto Pan Start/Stop
5	Sequence	Scan Start/Stop
6	121 → Prepos	Pattern 1
7	122 → Prepos	Pattern 2
8	123 → Prepos	Pattern 3
9	124 → Prepos	※ ₂
10	125 → Prepos	Camera Reset
10	'?' (Text On)	Camera Menu
11	'Palm' button	Menu Mode : Enter Key
12	Joystick Up	Menu Mode: '↑' Key
13	Joystick Down	Menu Mode: '↓' Key
14	Joystick Left	Menu Mode: '←' Key
15	Joystick Right	Menu Mode: '→' Key
16	'clock' button	Alarm Reset

※₁ ADDRESS SET : (SSC-641/643 ADDRESS +1).

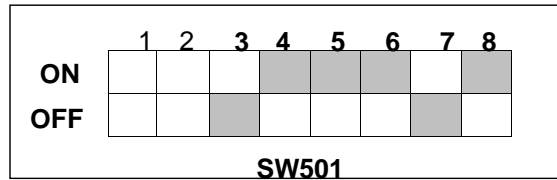
※₂ It is used to select 'SIZE' and 'POSITION' in Setup Menu.

(**MAIN MENU ** → CAMERA... → MOTION DET ON → AREA USER... or
 **MAIN MENU ** → VIDEO SET... → IRIS ALC... → AREA USER...)

7. PROTOCOL ID : 11

1) **Maker** : DIAMOND HALF

2) **Dip Switch** : Set 5,6,7,8 pin of SW501.(Protocol Select)



SW501 1~2 : RS-485 Termination (Refer to SCC-641/643 User's Manual)

3~4 : Baud Rate 9600 BPS.

3) Function

	DIAMOND CONTROLLER	SCC-641/643
	※ ₁ #(1~250) → CNTL	CAMERA ADDR
1	Pan/Tilt/Zoom/Focus/Iris	Pan/Tilt/Zoom/Focus/Iris
2	#(0~90) → PSHOT	Go to Preset (0 ~ 90)
3	PRGM → #(0~90) → ENTER	Save Preset (0 ~ 90)
4	91 → PSHOT	Camera Menu
5	92 → PSHOT	Menu Mode : Enter Key
6	93 → PSHOT	※ ₂
7	94 → PSHOT	Alarm Reset
8	95 → PSHOT	Scan
9	96 → PSHOT	Auto Pan
10	97 → PSHOT	Cam Reset
11	VSCAN → #(1~3) → ENTER	Pattern(1~3)
12	Joystick Up	Menu Mode : '↑' Key
13	Joystick Down	Menu Mode : '↓' Key
14	Joystick Left	Menu Mode : '←' Key
15	Joystick Right	Menu Mode : '→' Key

※₁ ADDRESS SET : (SSC-641/643 ADDRESS +1).

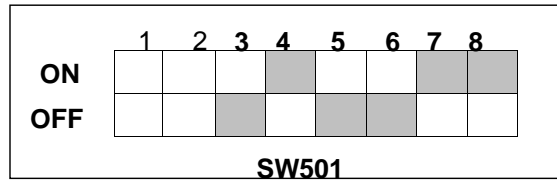
※₂ It is used to select 'SIZE' and 'POSITION' in Setup Menu.

(**MAIN MENU ** → CAMERA... → MOTION DET ON → AREA USER... or
 **MAIN MENU ** → VIDEO SET... → IRIS ALC... → AREA USER...)

8. PROTOCOL ID : 12

1) **Maker** : VCL HALF (VCLTP PROTOCOL)

2) **Dip Switch** : Set 5,6,7,8 pin of SW501.(Protocol Select)



1~2 : RS-485 Termination (Refer to SCC-641/643 User's Manual)

3~4 : Baud Rate 9600 BPS.

3) Function

	VCL CONTROLLER	SCC-641/643
	※ ₁ #(1~128) → CAM	CAMERA ADDR
1	Pan/Tilt/Zoom/Focus/Iris	Pan/Tilt/Zoom/Focus/Iris
2	#(0~118) → PRESET	Go to Preset (0 ~ 118)
3	hold PRESET → #(0~118) → Release PRESET	Save Preset (0 ~ 118)
4	119 → PRESET	Camera Menu
5	120 → PRESET	Menu Mode : Enter Key
6	121 → PRESET	Menu Mode: ※ ₂
7	122 → PRESET	Pattern 1
8	123 → PRESET	Pattern 2
9	124 → PRESET	Pattern 3
10	125 → PRESET	Scan
11	126 → PRESET	Alarm Reset
12	127 → PRESET	Cam Reset
13	AUTO PAN (LED ON)	Auto Pan On
14	AUTO PAN (LED OFF)	Auto Pan Off
15	Joystick Up	Menu Mode: '↑' Key
16	Joystick Down	Menu Mode: '↓' Key
17	Joystick Left	Menu Mode: '←' Key
18	Joystick Right	Menu Mode: '→' Key

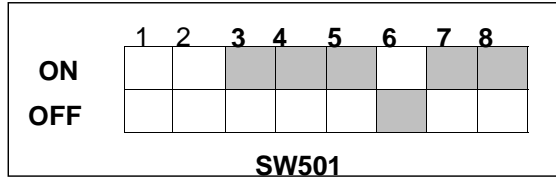
※₁ ADDRESS SET : (SSC-641/643 ADDRESS +1).

※₂ It is used to select 'SIZE' and 'POSITION' in Setup Menu.

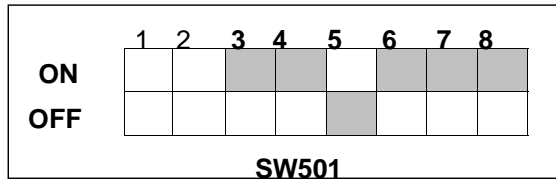
(**MAIN MENU ** → CAMERA... → MOTION DET ON → AREA USER... or
**MAIN MENU ** → VIDEO SET... → IRIS ALC... → AREA USER...)

9. PROTOCOL ID : 13, 14

- 1) **Maker** : PELCO-D HALF(13) / FULL(14)
 2) **Dip Switch** : Set 5,6,7,8 pin of SW501(Protocol Select).
 PELCO-D **HALF** Duplex



PELCO-D **FULL** Duplex



SW501 1~2 : RS-485 termination (Refer to SCC-641/643 User's Manual)
 3~4 : Baud Rate

Baud Rate	SW501-3	SW501-4
2400BPS	ON	ON

3) Function1

	CM6700 Matrix Switcher	SCC-641/643
1	#(1~16)→CAM	Camera Address Set
2	PAN/TILT/ZOOM/FOCUS/IRIS	PAN/TILT/ZOOM/FOCUS/IRIS
3	#(1~90)→PRESET(hold for two seconds)	Set Preset(1~90)
4	#(1~90)→PRESET	Go To Preset(1~90)
5	#(99)→PRESET	Auto Pan On
6	#(96)→PRESET	Auto Pan Off
7	#(91)→PRESET or PATTERN	Pattern 1
8	#(92)→PRESET	Pattern 2
9	#(93)→PRESET	Pattern 3
10	#(98)→PRESET	Scan
11	#(95)→PRESET	Menu On
12	IRIS OPEN	Menu Mode : Enter Key
13	IRIS CLOSE	Menu Mode : ※ ₁
14	#(97)→PRESET	Alarm Reset
15	#(94)→PRESET	Camera Reset
16	Joystick Up	Menu Mode : ↑ Key
17	Joystick Down	Menu Mode : ↓ Key
18	Joystick Left	Menu Mode : ← Key
19	Joystick Right	Menu Mode : → Key

4) Function2

	CM6800 Matrix Switcher	SCC-641/643
1	#(1~48)→CAM	Camera Address Set
2	PAN/TILT/ZOOM/FOCUS/IRIS	PAN/TILT/ZOOM/FOCUS/IRIS
3	DEF→PRST→#(1~90)→ENTER	Set Preset(1~90)
4	PRST→#(1~90)→ENTER	Go To Preset(1~90)
5	PRST→#(99)→ENTER	Auto Pan On
6	PRST→#(96)→ENTER	Auto Pan Off
7	PRST→#(91)→ENTER	Pattern 1
8	PRST→#(92)→ENTER	Pattern 2
9	PRST→#(93)→ENTER	Pattern 3
10	PRST→#(98)→ENTER	Scan
11	PRST→#(95)→ENTER	Menu On
12	IRIS OPEN	Menu Mode : Enter Key
13	IRIS CLOSE	Menu Mode : ※ ₁
14	PRST→#(97)→ENTER	Alarm Reset
15	PRST→#(94)→ENTER	Camera Reset
16	Joystick Up	Menu Mode : ↑ Key
17	Joystick Down	Menu Mode : ↓ Key
18	Joystick Left	Menu Mode : ← Key

※₁ It is used to select 'SIZE' and 'POSITION' in Setup Menu.

(**MAIN MENU ** → CAMERA... → MOTION DET ON → AREA USER... or
 **MAIN MENU ** → VIDEO SET... → IRIS ALC... → AREA USER...)

SCC-931T PROTOCOL FUNCTION TABLE

(Firmware V1.4)

History

Manufacturing Date	Version	Description
2004.10.	1.4	Multi Protocol Insertion

1. PROTOCOL ID : PELCO-P

1) **Baud Rate** : 2400, 4800, 9600(KBD-300-4800bps only)

2) **Function**

	CM6700 Matrix Switcher /KBD300	SCC-931T
1	#(1~16)→CAM	Camera Address Set
2	ZOOM/FOCUS/IRIS	ZOOM/FOCUS/IRIS
3	#(1~9)→PRESET	Go To Preset(1~9)
4	#(95)→PRESET	Menu On
5	IRIS OPEN	Menu Mode : Enter Key
6	Joystick Up	Menu Mode : ↑ Key
7	Joystick Down	Menu Mode : ↓ Key
8	Joystick Left	Menu Mode : ← Key
9	Joystick Right	Menu Mode : → Key

2. PROTOCOL ID : PELCO-D

1) **Baud Rate** : 2400bps

2) **Function**

	CM6700 Matrix Switcher	SCC-931T
1	#(1~16)→CAM	Camera Address Set
2	ZOOM/FOCUS/IRIS	ZOOM/FOCUS/IRIS
3	#(1~9)→PRESET	Go To Preset(1~9)
4	#(95)→PRESET	Menu On
5	IRIS OPEN	Menu Mode : Enter Key
6	Joystick Up	Menu Mode : ↑ Key
7	Joystick Down	Menu Mode : ↓ Key
8	Joystick Left	Menu Mode : ← Key
9	Joystick Right	Menu Mode : → Key

3. PROTOCOL ID: VICON

1) **Baud Rate** : 4800, 9600, 19200bps

2) **Function**

	VICON (VPS328, V1300X-DVC)	SCC-931T
1	ZOOM/FOCUS/IRIS	ZOOM/FOCUS/IRIS
2	RUN MODE : PP ENTER → #(1~9) → PP ENTER	Go to Preset (1 ~ 9)
3	RUN MODE : PP ENTER → #(90) → PP ENTER	Menu On/Off
4	RUN MODE : PP ENTER → #(91) → PP ENTER	Menu Mode : ENTER Key
5	Joystick Up	Menu Mode: ↑ Key
6	Joystick Down	Menu Mode: ↓ Key
7	Joystick Left	Menu Mode: ← Key

8	Joystick Right	Menu Mode: → Key
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4. PROTOCOL ID : PANASONIC

1) Baud Rate : 2400, 4800, 9600, 19200bps

2) Function1

	PANASONIC WV-CU161 Controller	SCC-931T
1	CAM ADDR	CAMERA ADDR Select
2	ZOOM/FOCUS/IRIS	ZOOM/FOCUS/IRIS
3	#(1 ~ 9) → PRESET SET	Go to Preset (1 ~ 9)
4	CAMERA SETUP	Camera Menu On/Off
5	PRESET SET	Menu Mode : Enter Key
6	Joystick Up (2)	Menu Mode: '↑' Key
7	Joystick Down (8)	Menu Mode: '↓' Key
8	Joystick Left (4)	Menu Mode: '←' Key
9	Joystick Right (6)	Menu Mode: '→' Key

3) Function2

	PANASONIC WV-CU550C Matrix Switcher	SCC-931T
1	CAM ADDR	CAMERA ADDR Select
2	ZOOM/FOCUS/IRIS	ZOOM/FOCUS/IRIS
3	#(1 ~ 9) → Preset/AF	Go to Preset (1 ~ 9)
4	CameraSetup Menu(D4) → F1 or #(55) → Preset/AF	Camera Menu On/Off
5	CAM(SET)#(56) → Preset/AF	Menu Mode : Enter Key
6	Joystick Up (2)	Menu Mode: '↑' Key
7	Joystick Down (8)	Menu Mode: '↓' Key
8	Joystick Left (4)	Menu Mode: '←' Key
9	Joystick Right (6)	Menu Mode: '→' Key

5. PROTOCOL ID : PHILIPS

1) Baud Rate : 2400, 9600, 38400bps

2) Function

	LTC8200/50, LTC5136/60, LTC5138	SCC-931T
1	ZOOM/FOCUS/IRIS	ZOOM/FOCUS/IRIS
2	SHOT → #(1~9) → ENTER	Go To Preset(1~9)
3	SHOT → #(23) → ENTER	Menu On
4	SHOT → #(24) → ENTER	Menu Mode : Enter Key
5	Joystick Up	Menu Mode : ↑ Key
6	Joystick Down	Menu Mode : ↓ Key
7	Joystick Left	Menu Mode : ← Key

8	Joystick Right	Menu Mode : → Key
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6. PROTOCOL ID : ERNA

1) Baud Rate : 2400bps

2) Function

	ernitec controller	SCC-931T
1	※ ₁ #(1~128) → CAM	Camera Address Select
2	ZOOM/FOCUS/IRIS	ZOOM/FOCUS/IRIS
3	#(1~9) → Prepos	Go to Preset (1 ~ 9)
4	'?' (Text On)	Camera Menu
5	'Palm' button	Menu Mode : Enter Key
6	Joystick Up	Menu Mode: '↑' Key
7	Joystick Down	Menu Mode: '↓' Key
8	Joystick Left	Menu Mode: '←' Key
9	Joystick Right	Menu Mode: '→' Key

※₁ ADDRESS SET : (SCC-931T ADDRESS +1).

7. PROTOCOL ID : DIAMOND

1) Baud Rate : 9600bps

2) Function

	DIAMOND CONTROLLER	SCC-931T
1	※ ₁ # → CTRL	CAMERA ADDR
2	ZOOM/FOCUS/IRIS	ZOOM/FOCUS/IRIS
3	#(0~9) → PSHOT	Go to Preset (0 ~ 9)
4	91 → PSHOT	Camera Menu
5	92 → PSHOT	Menu Mode : Enter Key
6	Joystick Up	Menu Mode : '↑' Key
7	Joystick Down	Menu Mode : '↓' Key
8	Joystick Left	Menu Mode : '←' Key
9	Joystick Right	Menu Mode : '→' Key

※₁ ADDRESS SET : (SCC-931T ADDRESS +1).

8. PROTOCOL ID : VCLTP

1) Baud Rate : 9600bps

2) Function

	VCL CONTROLLER	SCC-931T
1	※ ₁ # → CAM	CAMERA ADDR
2	ZOOM/FOCUS/IRIS	ZOOM/FOCUS/IRIS
3	#(0~9) → PRESET	Go to Preset (0 ~ 9)
4	119 → PRESET	Camera Menu
5	120 → PRESET	Menu Mode : Enter Key

6	Joystick Up	Menu Mode: '↑' Key
7	Joystick Down	Menu Mode: '↓' Key
8	Joystick Left	Menu Mode: '←' Key
9	Joystick Right	Menu Mode: '→' Key

※₁ ADDRESS SET : (SCC-931T ADDRESS +1).

SCC-C4X01/C4X03 PROTOCOL FUNCTION TABLE

(Firmware V1.1~)

History

Manufacturing Date	Version	Description
2003.06.	1.1	Multi Protocol Insertion

1. PROTOCOL ID : PELCO-P

1) **Baud Rate** : 2400, 4800, 9600bps(KBD-300-4800bps only)

2) **Function**

	CM6700 Matrix Switcher /KBD-300A	SCC-C4201
1	#(1~16)->CAM	Camera Address Set
2	ZOOM/FOCUS/IRIS	ZOOM/FOCUS/IRIS
3	#(1~90)->PRST	Go To Preset(1~90)
4	#(95)->PRST	Menu On/Enter
5	Joystick Up	Menu Mode : ↑ Key
6	Joystick Down	Menu Mode : ↓ Key
7	Joystick Left	Menu Mode : ← Key
8	Joystick Right	Menu Mode : → Key

2. PROTOCOL ID : PELCO-D

1) **Baud Rate** : 2400bps

2) **Function**

	CM6700 Matrix Switcher	SCC-C4201
1	#(1~16)->CAM	Camera Address Set
2	ZOOM/FOCUS/IRIS	ZOOM/FOCUS/IRIS
3	#(1~90)->PRST	Go To Preset(1~90)
4	#(95)->PRST	Menu On/Enter
5	Joystick Up	Menu Mode : ↑ Key
6	Joystick Down	Menu Mode : ↓ Key
7	Joystick Left	Menu Mode : ← Key
8	Joystick Right	Menu Mode : → Key

3. PROTOCOL ID : PANASONIC

1) **Baud Rate** : 2400, 4800, 9600, 19200

2) **Function1**

	PANASONIC WV-CU550C Matrix Switcher	SCC-C4201
1	CAM ADDR	Camera Address Set
2	ZOOM/FOCUS/IRIS	ZOOM/FOCUS/IRIS
3	#(1~54)->PRST	Go To Preset(1~54)
4	#(55)->PRST	Camera Menu On/Off
5	#(56)->PRST	Menu Mode : Enter Key
6	ALT+AF	ONEAF
7	Joystick Up	Menu Mode : ↑ Key
8	Joystick Down	Menu Mode : ↓ Key
9	Joystick Left	Menu Mode : ← Key
10	Joystick Right	Menu Mode : → Key

3) Function2

	PANASONIC WV-CU550C Matrix Switcher	SCC-C4201
1	CAM ADDR	Camera Address Set
2	ZOOM/FOCUS/IRIS	ZOOM/FOCUS/IRIS
3	#(1~54)->PRST	Go To Preset(1~54)
4	#(55)->PRST	Camera Menu On/Off
5	#(56)->PRST	Menu Mode : Enter Key
6	Joystick Up(2)	Menu Mode : ↑ Key
7	Joystick Down(8)	Menu Mode : ↓ Key
8	Joystick Left(4)	Menu Mode : ← Key
9	Joystick Right(6)	Menu Mode : → Key

4) Function3

	Dedicated Micros Sprite2 Network Viewer	SCC-C4201
1	DM Sprite2 Input Ch.	Camera Address Set
2	ZOOM/FOCUS/IRIS	ZOOM/FOCUS/IRIS
3	PRESET-> #(1~36)	Go To Preset(1~54)
4	PRESET-> #(37)	Camera Menu On/Off
5	#(56)->PRST	Menu Mode : Enter Key
6	Joystick Up	Menu Mode : ↑ Key
7	Joystick Down	Menu Mode : ↓ Key
8	Joystick Left	Menu Mode : ← Key
9	Joystick Right	Menu Mode : → Key

SCC-C64XX PROTOCOL FUNCTION TABLE

(SCC-C64X5 : Alarm V1.105 ~
SCC-C6407 : Alarm V1.004 ~
SCC-C6403 : Alarm V1.000 ~)

History

Manufacturing Date	Version	Description
2005.07.12	1.0	The first release
2005.09.30	1.1	Inserted KALATEL protocol
2005.11.30	1.2	Delete Function4(DM Sprite2) of KALATEL protocol
2006.01.24	1.3	Insert SCC-C6407
2006.03.24	1.4	Inserted SCC-C6403 Protocol Inserted AD Protocol(Full) in SCC-C64XX

[PROTOCOL SETTING]

SW704(0:↓,1:↑)				Protocol	HALF/FULL
1	2	3	4		
0	0	0	0	SAMSUNG	HALF
1	0	0	0	SAMSUNG	FULL
0	1	0	0	VICON	HALF
1	1	0	0	PANASONIC	HALF
0	0	1	0	PANASONIC	FULL
0	1	1	0	AD	FULL
1	1	1	0	PHILIPS	HALF
0	0	0	1	PELCO-P	HALF
1	0	0	1	KALATEL	HALF
0	1	0	1	ERNA	HALF
1	1	0	1	DIAMOND	HALF
0	0	1	1	VCL TP	HALF
1	0	1	1	PELCO-D	HALF
0	1	1	1	PELCO-D	FULL
1	1	1	1	VICON	FULL

[BAUD-RATE SETTING]

1. SAMSUNG

Baud Rate	SW704-5	SW704-6
38400BPS	OFF	OFF
19200BPS	ON	OFF
9600BPS	OFF	ON
4800BPS	ON	ON

2. VICON

Baud Rate	SW704-5	SW704-6
19200BPS	OFF	OFF
9600BPS	ON	OFF
4800BPS	OFF	ON
600BPS	ON	ON

3. PHILIPS

Baud Rate	SW704-5	SW704-6
38400BPS	OFF	OFF
9600BPS	ON	OFF
2400BPS	OFF	ON
1200BPS	ON	ON

4. PANASONIC, PELCO-P

Baud Rate	SW704-5	SW704-6
19200BPS	OFF	OFF
9600BPS	ON	OFF
4800BPS	OFF	ON
2400BPS	ON	ON

5. DIAMOND,VCLTP

Baud Rate	SW704-5	SW704-6
9600BPS	OFF	ON

(※ Only 9600BPS is supported.)

6. ERNA, PELCO-D

Baud Rate	SW704-5	SW704-6
2400BPS	ON	ON

(※ Only 2400BPS is supported.)

7. KALATEL

Baud Rate	SW704-5	SW704-6
9600BPS	OFF	ON
4800BPS	ON	ON

8. AD

Baud Rate	SW704-5	SW704-6
9600BPS	OFF	OFF
4800BPS	ON	OFF
2400BPS	OFF	ON
1200BPS	ON	ON

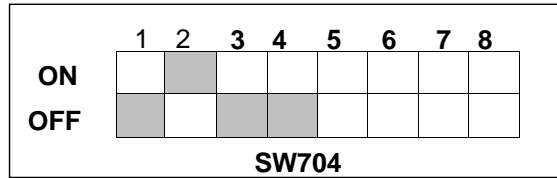
[ADDRESS SETTING]

: Use SW704. (Refer to SCC-C64XX User's Manual.)

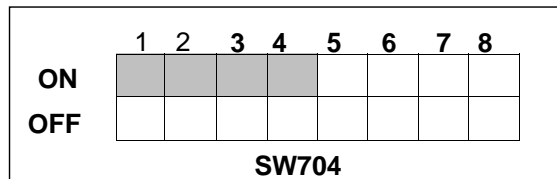
1. PROTOCOL ID: 2, 15

- 1) **Maker** : VICON HALF(2)/FULL(15)
- 2) **Dip Switch** : Set 1,2,3,4 pin of SW704. (To Select Protocol)

VICON **HALF** Duplex



VICON **FULL** Duplex



※ Refer to SCC-C64XX User's Manual

SW704 5~6 : Baud Rate

Baud Rate	SW704-5	SW704-6
19200BPS	OFF	OFF
9600BPS	ON	OFF
4800BPS	OFF	ON
※ ₁ 600BPS	ON	ON

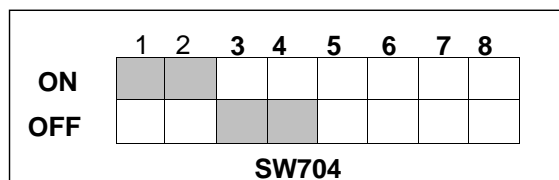
3) Function

	VICON (VP8328, V1300X-DVC)	SCC-C64XX
1	Pan/Tilt/Zoom/Focus/Iris	Pan/Tilt/Zoom/Focus/Iris
2	RUN MODE : PP ENTER → #(1~89) → PP ENTER	Go to Preset (1 ~ 89)
3	PGM MODE : PP ENTER → #(1~89) → PP ENTER	Save Preset (1 ~ 89)
4	RUN MODE : PP ENTER → #(90) → PP ENTER	Menu On/Off
5	RUN MODE : PP ENTER → #(91) → PP ENTER	Menu Mode : ENTER Key
6	RUN MODE : PP ENTER → #(92) → PP ENTER	Scan 1 On/Off
7	RUN MODE : PP ENTER → #(93) → PP ENTER or RUN MODE : A/P	Auto Pan 1 On/Off
8	RUN MODE : PP ENTER → #(94) → PP ENTER	Pattern1 On/Off
9	RUN MODE : PP ENTER → #(95) → PP ENTER	Pattern 2 On/Off
10	RUN MODE : PP ENTER → #(96) → PP ENTER	Pattern 3 On/Off
11	RUN MODE : PP ENTER → #(98) → PP ENTER	Alarm Reset
12	RUN MODE : PP ENTER → #(99) → PP ENTER	Camera Reset
13	Joystick Up	Menu Mode: ↑ Key
14	Joystick Down	Menu Mode: ↓ Key
15	Joystick Left	Menu Mode: ← Key
16	Joystick Right	Menu Mode: → Key

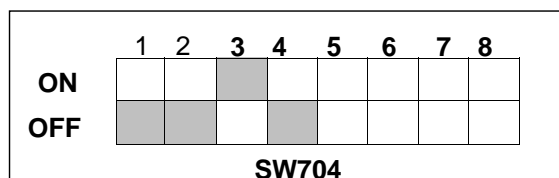
※₁ 600 BPS is recommended when you install more than 128 cameras.

2. PROTOCOL ID : 3, 4

- 1) **Maker** : PANASONIC HALF(3) / FULL(4)
 2) **Dip Switch** : Set 1,2,3,4 pin of SW704.(To Select Protocol)
 PANASONIC **HALF** Duplex



PANASONIC **FULL** Duplex



※ Refer to SCC-C64XX User's Manual

SW704 5~6 : Baud Rate

Baud Rate	SW704-5	SW704-6
19200BPS	OFF	OFF
9600BPS	ON	OFF
4800BPS	OFF	ON
2400BPS	ON	ON

3) Function1

	PANASONIC (WV-CU161 Controller)	SCC-C64XX
1	CAM ADDR	CAMERA ADDR Select
2	Pan/Tilt/Zoom/Focus/Iris	Pan/Tilt/Zoom/Focus/Iris
3	#(1~54) → PRESET SET	Go to Preset (1 ~ 54)
4	CAMERA SETUP or #(55) → PRESET SET	Camera Menu On/Off
5	# → PRESET SET or PRESET SET Holding Cam setup(program) or #(56) → PRESET SET	Menu Mode : Enter Key
6	#(58) → PRESET SET	Autopan 1 On/Off
7	#(59) → PRESET SET	Scan 1 On/Off
8	#(60) → PRESET SET	Alarm Reset
9	#(61) → PRESET SET	Pattern 1 On/Off
10	#(62) → PRESET SET	Pattern 2 On/Off
11	#(63) → PRESET SET	Pattern 3 On/Off
12	#(64) → PRESET SET	Camera Reset
13	#(1) → AUTO	Auto Pan 1 On
14	#(2) → AUTO	Scan 1 On
15	Patrol Play	Pattern 1 On

16	#(3) → AUTO	Alarm Reset
17	Joystick Up (2)	Menu Mode: '↑' Key
18	Joystick Down (8)	Menu Mode: '↓' Key
19	Joystick Left (4)	Menu Mode: '←' Key
20	Joystick Right (6)	Menu Mode: '→' Key

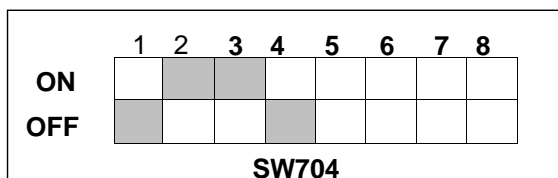
4) Function2 (Buad Rate : SCC-C64XX support 19200 BPS or 9600 BPS)

	PANASONIC WV-CU550C Matrix Switcher	SCC-C64XX
1	CAM ADDR	CAMERA ADDR Select
2	Pan/Tilt/Zoom/Focus/Iris	Pan/Tilt/Zoom/Focus/Iris
3	#(1 ~ 54) → Preset/AF	Go to Preset (1 ~ 54)
4	CameraSetup Menu(D4) → F1 or #(55) → Preset/AF	Camera Menu On/Off
5	CAM(SET) or #(56) → Preset/AF	Menu Mode : Enter Key
6	#(58) → Preset/AF	Auto Pan 1 On/Off
7	#(59) → Preset/AF	Scan 1 On/Off
8	#(60) → Preset/AF	Alarm Reset
9	#(61) → Preset/AF	Pattern 1 On/Off
10	#(62) → Preset/AF	Pattern 2 On/Off
11	#(63) → Preset/AF	Pattern 3 On/Off
12	#(64) → Preset/AF	Cam Reset
13	Pan Action(B1) → F1	Auto Pan 1 On
14	Pan Action(B1) → 2 → F1	Scan 1 On
15	PatrolLearn(B4) → F1	Pattern 1 On
16	Joystick Up (2)	Menu Mode: '↑' Key
17	Joystick Down (8)	Menu Mode: '↓' Key
18	Joystick Left (4)	Menu Mode: '←' Key
19	Joystick Right (6)	Menu Mode: '→' Key

3. PROTOCOL ID : 6

1) **Maker** : AD Full

2) **Dip Switch** : Set 1,2,3,4 pin of SW704.(To Select Protocol)



※ Refer to SCC-C64XX User's Manual

SW704 5~6 : Baud Rate

Baud Rate	SW704-5	SW704-6
9600BPS	OFF	OFF
4800BPS	ON	OFF
2400BPS	OFF	ON
1200BPS	ON	ON

3) Function

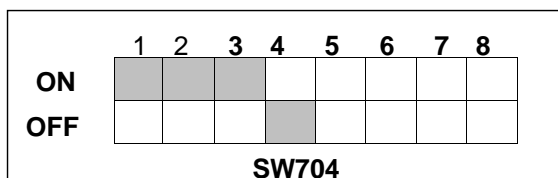
	AD (AD2079-1, AD2150, AD2083-02B-1)	SCC-C64XX
1	#(1~32)→CAMERA	Camera Address Set
2	Pan/Tilt/Zoom/Focus/Iris	Pan/Tilt/Zoom/Focus/Iris
3	Key switch (PROGRAM) #(1~16) → SHOT	Set Preset
4	Key switch (OPERATE) #(1~16) → SHOT	Go To Preset
5	Key switch (OPERATE) #(69) → SHOT → #(70) → SHOT	Scan 1 On / Off
6	Key switch (OPERATE) #(69) → SHOT → #(71) → SHOT	Auto Pan 1 On / Off
7	Key switch (OPERATE) #(70) → SHOT	Pattern 1 On/Off
8	Key switch (OPERATE) #(71) → SHOT	Pattern 2 On/Off
9	Key switch (OPERATE) #(72) → SHOT	Pattern 3 On/Off
10	IRIS OPEN(holding) → FOCUS FAR(holding) → ZOOM WIDE	Menu On
11	IRIS CLOSE(holding) → FOCUS NEAR	Menu Off
12	FOCUS FAR	Menu Mode : Enter Key
13	Key switch (OPERATE) #(66) → SHOT	Alarm Reset
14	Key switch (PROGRAM) #(65) → SHOT	Camera Reset
15	Joystick Up	Menu Mode : ↑ Key
16	Joystick Down	Menu Mode : ↓ Key

17	Joystick Left	Menu Mode : ← Key
18	Joystick Right	Menu Mode : → Key

4. PROTOCOL ID : 7

1) **Maker** : PHILIPS HALF

2) **Dip Switch** : Set 1,2,3,4 pin of SW700. (To Selcet Protocol)



※ Refer to SCC-C64XX User's Manual

SW704 5~6 : Baud Rate.

Baud Rate	SW704-5	SW704-6
38400BPS	OFF	OFF
9600BPS	ON	OFF
2400BPS	OFF	ON
1200BPS	ON	ON

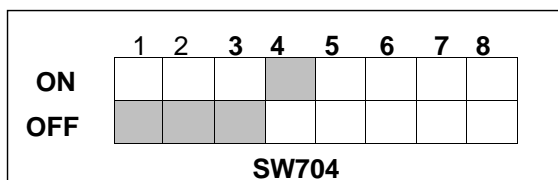
3) Function

	PHILIPS (LTC8200/50, LTC5136/60, LTC5138)	SCC-C64XX
1	Pan/Tilt/Zoom/Focus/Iris	Pan/Tilt/Zoom/Focus/Iris
2	SET → #(1~22) → ENTER	Set Preset(1~22)
3	SHOT → #(1~22) → ENTER	Go To Preset(1~22)
4	SHOT → #(23) → ENTER	Menu On/Off
5	SHOT → #(24) → ENTER	Menu Mode : Enter Key
6	SHOT → #(26) → ENTER	Pattern 1 On/Off
7	SHOT → #(27) → ENTER	Pattern 2 On/Off
8	SHOT → #(28) → ENTER	Pattern 3 On/Off
9	SHOT → #(29) → ENTER	Scan 1 On/Off
10	SHOT → #(30) → ENTER	Auto Pan 1 On/Off
11	SHOT → #(31) → ENTER	Alarm Reset
12	SHOT → #(32) → ENTER	Cam Reset
13	ON → #(8) → ENTER	Scan 1 On
14	ON → #(2) → ENTER	Auto Pan 1 On
15	Joystick Up	Menu Mode : ↑ Key
16	Joystick Down	Menu Mode : ↓ Key
17	Joystick Left	Menu Mode : ← Key
18	Joystick Right	Menu Mode : → Key

5. PROTOCOL ID : 8

1) **Maker** : PELCO-P HALF

2) **Dip Switch** : Set 1,2,3,4 pin of SW704.(To Select Protocol)



※ Refer to SCC-C64XX User's Manual

SW704 5~6 : Baud Rate

Baud Rate	SW704-5	SW704-6
9600BPS	ON	OFF
4800BPS	OFF	ON
2400BPS	ON	ON

When you connect with KBD-300, only 4800 BPS

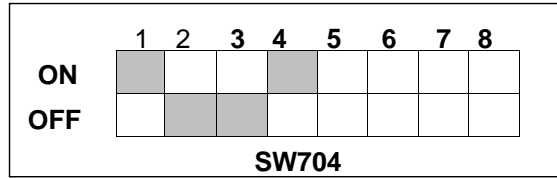
3) Function

	PELCO-P (KBD-300, CM6700 Matrix)	SCC-C64XX
1	#(1~16)→CAM	Camera Address Set
2	Pan/Tilt/Zoom/Focus/Iris	Pan/Tilt/Zoom/Focus/Iris
3	#(1~90)→PRESET(hold for two seconds)	Set Preset(1~90)
4	#(1~90)→PRESET	Go To Preset(1~90)
5	#(99)→PRESET	Auto Pan 1 On
6	#(96)→PRESET	Auto Pan 1 / Scan 1 Off
7	#(91)→PRESET or PATTERN	Pattern 1 On/Off
8	#(92)→PRESET	Pattern 2 On/Off
9	#(93)→PRESET	Pattern 3 On/Off
10	#(98)→PRESET	Scan 1 On
11	#(95)→PRESET	Menu On/Off
12	IRIS OPEN	Menu Mode : Enter Key
13	#(97)→PRESET	Alarm Reset
14	#(94)→PRESET	Camera Reset
15	Joystick Up	Menu Mode : ↑ Key
16	Joystick Down	Menu Mode : ↓ Key
17	Joystick Left	Menu Mode : ← Key
18	Joystick Right	Menu Mode : → Key

6. PROTOCOL ID : 9

1) **Maker** : KALATEL HALF

2) **Dip Switch** : Set 1,2,3,4 pin of SW704.(To Select Protocol)



※ Refer to SCC-C64XX User's Manual

SW704 5~6 : Baud Rate

Baud Rate	SW704-5	SW704-6
9600BPS	OFF	ON
4800BPS	ON	ON

3) Function1

	KALATEL(KTD-404 Keyboard - 4800BPS only)	SCC-C64XX
1	#(001~249)	Camera Address Set`
2	Pan/Tilt/Zoom/Focus/Iris	Pan/Tilt/Zoom/Focus/Iris
3	AUTO FOCUS	One AF
4	SET (Hold for 3sec) → 9, 5, 1, Seq → 2 (Rcvr) → 001 ~ 249 Camera Number → 2 (Presets) → Position #(00~53)	Set Preset(0~53)
5	SET → #(00~53)	Go To Preset(0~53)
6	AUTO or SET → #61	Auto Pan 1 On/Off
7	SET → #57	Pattern 1 On/Off
8	SET → #58	Pattern 2 On/Off
9	SET → #59	Pattern 3 On/Off
10	SET → #60	Scan 1 On/Off
11	SET → #54	Menu On/Off
12	SET → #55	Menu Mode : Enter Key
13	SET → #62	Alarm Reset
14	SET → #63	Camera Reset
15	Joystick Up	Menu Mode : ↑ Key
16	Joystick Down	Menu Mode : ↓ Key
17	Joystick Left	Menu Mode : ← Key
18	Joystick Right	Menu Mode : → Key

4) Function2

	KALATEL(KT405 Keyboard - 9600BPS only)	SCC-C64XX
1	#(0~255) → SET	Camera Address Set`
2	Pan/Tilt/Zoom/Focus/Iris	Pan/Tilt/Zoom/Focus/Iris
3	AUTO FOCUS	One AF
4	STORE → #(01~53) → STORE	Set Preset(1~53)
5	FIND → #(01~53)	Go To Preset(1~53)
6	FIND → #61	Auto Pan 1 On/Off
7	TOUR → #1 or FIND → #57	Pattern 1 On/Off
8	TOUR → #2 or FIND → #58	Pattern 2 On/Off
9	FIND → #59	Pattern 3 On/Off
10	TOUR → #3 or FIND → #60	Scan 1 On/Off
11	TOUR → #4	Scan 2 On/Off
12	FIND → #54	Menu On/Off
13	FIND → #55	Menu Mode : Enter Key
14	FIND → #62	Alarm Reset
15	FIND → #63	Camera Reset
16	Joystick Up	Menu Mode : ↑ Key
17	Joystick Down	Menu Mode : ↓ Key
18	Joystick Left	Menu Mode : ← Key
19	Joystick Right	Menu Mode : → Key

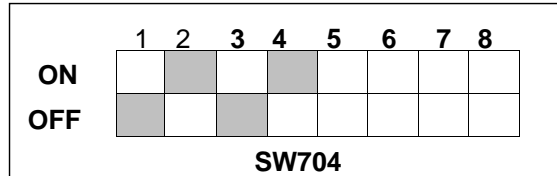
5) Function3

	KALATEL(ASCII Protocol - 9600 BPS only)	SCC-C64XX
1	#(1~249) → SET	Camera Address Set`
2	Pan/Tilt/Zoom/Focus/Iris	Pan/Tilt/Zoom/Focus/Iris
3	Set Preset → #(1~53)	Set Preset(1~53)
4	Go To Preset → #(1~53)	Go To Preset(1~53)
5	Go To Preset → #61	Auto Pan 1 On/Off
6	Go To Preset → #57	Pattern 1 On/Off
7	Go To Preset → #58	Pattern 2 On/Off
8	Go To Preset → #59	Pattern 3 On/Off
9	Go To Preset → #60	Scan 1 On/Off
10	Go To Preset → #54	Menu On/Off
11	Go To Preset → #55	Menu Mode : Enter Key
12	Go To Preset → #62	Alarm Reset
13	Go To Preset → #63	Camera Reset
14	Joystick Up	Menu Mode : ↑ Key
15	Joystick Down	Menu Mode : ↓ Key
16	Joystick Left	Menu Mode : ← Key
17	Joystick Right	Menu Mode : → Key

7. PROTOCOL ID : 10

1) **Maker** : ERNA HALF

2) **Dip Switch** : Set 1,2,3,4 pin of SW704.(To Select Protocol)



※ Refer to SCC-C64XX User's Manual
Only 2400 BPS.

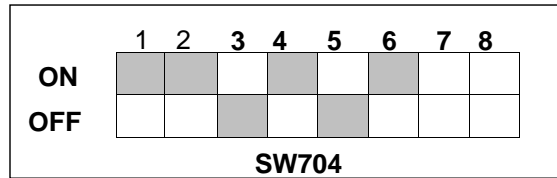
3) Function

	ERNA Keyboard	SCC-C64XX
1	#(1~128) → CAM	Camera Address Select
2	Pan/Tilt/Zoom/Focus/Iris	Pan/Tilt/Zoom/Focus/Iris
3	#(1~120) → Prepos	Go to Preset (1 ~ 120)
4	#(1~120) → ESC → Prepos	Save Preset (1 ~ 120)
5	AUTO → Sequence	Auto Pan 1 On/Off
6	Sequence	Scan 1 On/Off
7	121 → Prepos	Pattern 1 On/Off
8	122 → Prepos	Pattern 2 On/Off
9	123 → Prepos	Pattern 3 On/Off
10	125 → Prepos	Camera Reset
11	'?' (Text On)	Menu On/Off
12	'Palm' button	Menu Mode : Enter Key
13	Joystick Up	Menu Mode: '↑' Key
14	Joystick Down	Menu Mode: '↓' Key
15	Joystick Left	Menu Mode: '←' Key
16	Joystick Right	Menu Mode: '→' Key
17	'clock' button	Alarm Reset

8. PROTOCOL ID : 11

1) **Maker** : DIAMOND HALF

2) **Dip Switch** : Set 1,2,3,4 pin of SW704.(To Select Protocol)



※ Refer to SCC-C64XX User's Manual

SW704 5~6 : Baud Rate

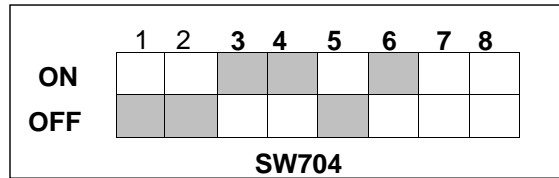
Baud Rate 9600 BPS

3) Function

	DIAMOND CONTROLLER	SCC-C64XX
1	#(1~250) → CNTL	CAMERA ADDR
2	Pan/Tilt/Zoom/Focus/Iris	Pan/Tilt/Zoom/Focus/Iris
3	#(0~90) → PSHOT	Go to Preset (0~90)
4	PRGM → #(0~90) → ENTER	Save Preset (0~90)
5	91 → PSHOT	Menu On/Off
6	92 → PSHOT	Menu Mode : Enter Key
7	94 → PSHOT	Alarm Reset
8	95 → PSHOT	Scan 1 On/Off
9	96 → PSHOT	Auto Pan 1 On/Off
10	97 → PSHOT	Cam Reset
11	VSCAN → #(1~3) → ENTER	Pattern(1~3) On/Off
12	Joystick Up	Menu Mode : '↑' Key
13	Joystick Down	Menu Mode : '↓' Key
14	Joystick Left	Menu Mode : '←' Key
15	Joystick Right	Menu Mode: '→' Key

9. PROTOCOL ID : 12

- 1) **Maker** : VCLTP HALF (VCLTP PROTOCOL)
 2) **Dip Switch** : Set 1,2,3,4 pin of SW704 (To Select Protocol)



※ Refer to SCC-C64XX User's Manual

SW704 5~6 : Baud Rate

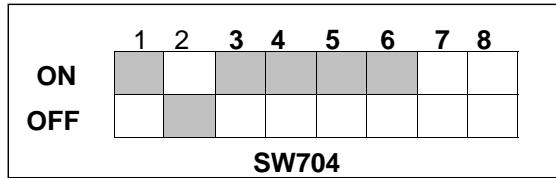
Baud Rate 9600 BPS

3) Function

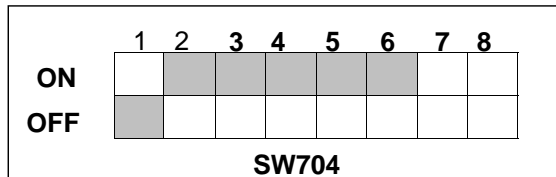
	VCLTP CONTROLLER	SCC-C64XX
1	#(1~128) → CAM	CAMERA ADDR
2	Pan/Tilt/Zoom/Focus/Iris	Pan/Tilt/Zoom/Focus/Iris
3	#(0~118) → PRESET	Go to Preset (0 ~ 118)
4	hold PRESET → #(0~118) → Release PRESET	Save Preset (0 ~ 118)
5	119 → PRESET	Camera Menu
6	120 → PRESET	Menu Mode : Enter Key
7	122 → PRESET	Pattern 1 On/Off
8	123 → PRESET	Pattern 2 On/Off
9	124 → PRESET	Pattern 3 On/Off
10	125 → PRESET	Scan 1 On/Off
11	126 → PRESET	Alarm Reset
12	127 → PRESET	Cam Reset
13	AUTO PAN (LED ON)	Auto Pan 1 On
14	AUTO PAN(LED OFF)	Auto Pan 1 Off
15	Joystick Up	Menu Mode: '↑' Key
16	Joystick Down	Menu Mode: '↓' Key
17	Joystick Left	Menu Mode: '←' Key
18	Joystick Right	Menu Mode: '→' Key

10. PROTOCOL ID : 13, 14

- 1) **Maker** : PELCO-D HALF(13) / FULL(14)
 2) **Dip Switch** : Set 1,2,3,4 pin of SW704(To Select Protocol)
 PELCO-D **HALF** Duplex



PELCO-D **FULL** Duplex



※ Refer to SCC-C64XX User's Manual

SW704 5~6 : Baud Rate

Baud Rate	SW704-5	SW704-6
2400BPS	ON	ON

3) Function

	PELCO-D (CM6700 Matfix Switcher)	SCC-C64XX
1	#(1~16)→CAM	Camera Address Set
2	Pan/Tilt/Zoom/Focus/Iris	Pan/Tilt/Zoom/Focus/Iris
3	#(1~90)→PRESET(hold for two seconds)	Set Preset(1~90)
4	#(1~90)→PRESET	Go To Preset(1~90)
5	#(99)→PRESET	Auto Pan 1 On
6	#(96)→PRESET	Auto Pan 1 Off/ Scan 1 Off
7	#(91)→PRESET or PATTERN	Pattern 1 On/Off
8	#(92)→PRESET	Pattern 2 On/Off
9	#(93)→PRESET	Pattern 3 On/Off
10	#(98)→PRESET	Scan 1 On/Off
11	#(95)→PRESET	Menu On/Off
12	IRIS OPEN	Menu Mode : Enter Key
13	#(97)→PRESET	Alarm Reset
14	#(94)→PRESET	Camera Reset
15	Joystick Up	Menu Mode : ↑ Key
16	Joystick Down	Menu Mode : ↓ Key
17	Joystick Left	Menu Mode : ← Key
18	Joystick Right	Menu Mode : → Key

SCC-C4X05/C4X07/C9302 PROTOCOL FUNCTION TABLE

(SCC-C4X05 : Firmware V2.2 ~
SCC-C4X07 : Firmware V1.0 ~
SCC-C9302 : Firmware V1.0 ~)

History

Manufacturing Date	Version	Description
2005.07.12	1.0	The first release
2005.09.30	1.1	Inserted KALATEL protocol
2005.11.30	1.2	Delete Function4(DM Sprite2) of KALATEL protocol
2006.03.24	1.3	Inserted C9302 Protocol

1. PROTOCOL ID : VICON

1) **Baud Rate** : 4800, 9600, 19200bps

2) Function

	VICON (VP8328, V1300X-DVC)	SCC-C4X05/C4X07/C9302
1	Zoom/Focus/Iris	Zoom/Focus/Iris
2	RUN MODE : PP ENTER → #(1~89) → PP ENTER	Go to Preset (1 ~ 89)
3	PGM MODE : PP ENTER → #(1~89) → PP ENTER	Save Preset (1 ~ 89)
4	RUN MODE : PP ENTER → #(90) → PP ENTER	Menu On/Off
5	RUN MODE : PP ENTER → #(91) → PP ENTER	Menu Mode : ENTER Key
6	Joystick Up	Menu Mode: ↑ Key
7	Joystick Down	Menu Mode: ↓ Key
8	Joystick Left	Menu Mode: ← Key
9	Joystick Right	Menu Mode: → Key

2. PROTOCOL ID : PANASONIC

1) **Baud Rate** : 2400, 4800, 9600, 19200bps

2) Function1

	PANASONIC (WV-CU161 Controller)	SCC-C4X05/C4X07/C9302
1	CAM ADDR	CAMERA ADDR Select
2	Zoom/Focus/Iris	Zoom/Focus/Iris
3	#(1~54) → PRESET SET	Go to Preset (1 ~ 54)
4	CAMERA SETUP or #(55) → PRESET SET	Camera Menu On/Off
5	PRESET SET or # → PRESET SET Holding Cam setup(program) or #(56) → PRESET SET	Menu Mode : Enter Key
6	Joystick Up (2)	Menu Mode: '↑' Key
7	Joystick Down (8)	Menu Mode: '↓' Key
8	Joystick Left (4)	Menu Mode: '←' Key
9	Joystick Right (6)	Menu Mode: '→' Key

3) Function2 (Buad Rate : SCC-C4X05/C4X07/C9302 support 19200 BPS or 9600 BPS)

	PANASONIC WV-CU550C Matrix Switcher	SCC-C4X05/C4X07/C9302
1	CAM ADDR	CAMERA ADDR Select
2	Zoom/Focus/Iris	Zoom/Focus/Iris
3	#(1 ~ 54) → Preset/AF	Go to Preset (1 ~ 54)
4	CameraSetup Menu(D4) → F1 #(55) → Preset/AF	Camera Menu On/Off
5	CAM(SET) #(56) → Preset/AF	Menu Mode : Enter Key
6	Joystick Up (2)	Menu Mode: '↑' Key
7	Joystick Down (8)	Menu Mode: '↓' Key
8	Joystick Left (4)	Menu Mode: '←' Key

9	Joystick Right (6)	Menu Mode: '→' Key
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3. PROTOCOL ID : PHILIPS

1) Baud Rate : 2400, 9600, 38400bps

2) Function

	PHILIPS (LTC8200/50, LTC5136/60, LTC5138)	SCC-C4X05/C4X07/C9302
1	Zoom/Focus/Iris	Zoom/Focus/Iris
2	SET → #(1~22) → ENTER	Set Preset(1~22)
3	SHOT → #(1~22) → ENTER	Go To Preset(1~22)
4	SHOT → #(23) → ENTER	Menu On/Off
5	SHOT → #(24) → ENTER	Menu Mode : Enter Key
6	Joystick Up	Menu Mode : ↑ Key
7	Joystick Down	Menu Mode : ↓ Key
8	Joystick Left	Menu Mode : ← Key
9	Joystick Right	Menu Mode : → Key

4. PROTOCOL ID : PELCO-P

1) Baud Rate : 2400, 4800, 9600(KBD-300-4800bps only)

2) Function

	PELCO-P (KBD-300, CM6700 Matrix)	SCC-C4X05/C4X07/C9302
1	#(1~16)→CAM	Camera Address Set
2	Zoom/Focus/Iris	Zoom/Focus/Iris
3	#(1~90)→PRESET(hold for two seconds)	Set Preset(1~90)
4	#(1~90)→PRESET	Go To Preset(1~90)
5	#(95)→PRESET	Menu On/Off
6	IRIS OPEN	Menu Mode : Enter Key
7	Joystick Up	Menu Mode : ↑ Key
8	Joystick Down	Menu Mode : ↓ Key
9	Joystick Left	Menu Mode : ← Key
10	Joystick Right	Menu Mode : → Key

5. PROTOCOL ID : KALATEL

1) Baud Rate : 4800, 9600bps

2) Function1

	KALATEL(KTD-404 Keyboard - 4800BPS only)	SCC-C4X05/C4X07/C9302
1	#(001~249)	Camera Address Set`
2	Zoom/Focus/Iris	Zoom/Focus/Iris
3	AUTO FOCUS	One AF

4	SET (Hold for 3sec) → 9, 5, 1, Seq → 2 (Rcvr) → 001 ~ 249 Camera Number → 2 (Presets) → Position #(00~53)	Set Preset(0~53)
5	SET → #(00~53)	Go To Preset(0~53)
6	SET → #54	Menu On/Off
7	SET → #55	Menu Mode : Enter Key
8	SET → #62	Alarm Reset
9	SET → #63	Camera Reset
10	Joystick Up	Menu Mode : ↑ Key
11	Joystick Down	Menu Mode : ↓ Key
12	Joystick Left	Menu Mode : ← Key
13	Joystick Right	Menu Mode : → Key

3) Function2

	KALATEL(KT405 Keyboard - 9600BPS only)	SCC-C4X05/C4X07/C9302
1	#(0~255) → SET	Camera Address Set`
2	Zoom/Focus/Iris	Zoom/Focus/Iris
3	AUTO FOCUS	One AF
4	STORE → #(01~53)	Set Preset(1~53)
5	FIND → #(01~53)	Go To Preset(1~53)
6	FIND → #54	Menu On/Off
7	FIND → #55	Menu Mode : Enter Key
8	Joystick Up	Menu Mode : ↑ Key
9	Joystick Down	Menu Mode : ↓ Key
10	Joystick Left	Menu Mode : ← Key
11	Joystick Right	Menu Mode : → Key

4) Function3

	KALATEL(ASCII Protocol - 9600 BPS only)	SCC-C4X05/C4X07/C9302
1	#(1~249) → SET	Camera Address Set`
2	Zoom/Focus/Iris	Zoom/Focus/Iris
3	Set Preset → #(1~53)	Set Preset(1~53)
4	Go To Preset → #(1~53)	Go To Preset(1~53)
5	Go To Preset → #54	Menu On/Off
6	Go To Preset → #55	Menu Mode : Enter Key
7	Joystick Up	Menu Mode : ↑ Key
8	Joystick Down	Menu Mode : ↓ Key
9	Joystick Left	Menu Mode : ← Key
10	Joystick Right	Menu Mode : → Key

6. PROTOCOL ID : ERNA

1) Baud Rate : 2400bps

2) Function

	ERNA Keyboard	SCC-C4X05/C4X07/C9302
1	#(1~128) → CAM	Camera Address Select
2	Zoom/Focus/Iris	Zoom/Focus/Iris
3	#(1~120) → Prepos	Go to Preset (1 ~ 120)
4	#(1~120) → ESC → Prepos	Save Preset (1 ~ 120)
5	'?' (Text On)	Menu On/Off
6	'Palm' button	Menu Mode : Enter Key
7	Joystick Up	Menu Mode: '↑' Key
8	Joystick Down	Menu Mode: '↓' Key
9	Joystick Left	Menu Mode: '←' Key
10	Joystick Right	Menu Mode: '→' Key

7. PROTOCOL ID : DIAMOND

1) Baud Rate : 9600bps

2) Function

	DIAMOND CONTROLLER	SCC-C4X05/C4X07/C9302
1	# → CTRL	CAMERA ADDR
2	Zoom/Focus/Iris	Zoom/Focus/Iris
3	#(0~90) → PSHOT	Go to Preset (0~90)
4	PRGM → #(0~89) → ENTER	Save Preset (0~89)
5	91 → PSHOT	Menu On/Off
6	92 → PSHOT	Menu Mode : Enter Key
7	Joystick Up	Menu Mode : '↑' Key
8	Joystick Down	Menu Mode : '↓' Key
9	Joystick Left	Menu Mode : '←' Key
10	Joystick Right	Menu Mode: '→' Key

8. PROTOCOL ID : VCLTP

1) Baud Rate : 9600bps

2) Function

	VCLTP CONTROLLER	SCC-C4X05/C4X07/C9302
1	# → CAM	CAMERA ADDR
2	Zoom/Focus/Iris	Zoom/Focus/Iris
3	#(0~118) → PRESET	Go to Preset (0 ~ 118)
4	hold PRESET → #(0~118) → Release PRESET	Save Preset (0 ~ 118)
5	119 → PRESET	Camera Menu
6	120 → PRESET	Menu Mode : Enter Key
7	Joystick Up	Menu Mode: '↑' Key

8	Joystick Down	Menu Mode: '↓' Key
9	Joystick Left	Menu Mode: '←' Key
10	Joystick Right	Menu Mode: '→' Key

9. PROTOCOL ID : PELCO-D

1) Baud Rate : 2400bps

2) Function

	PELCO-D (CM6700 Matfix Switcher)	SCC-C4X05/C4X07/C9302
1	#(1~16)→CAM	Camera Address Set
2	Zoom/Focus/Iris	Zoom/Focus/Iris
3	#(1~90)→PRESET(hold for two seconds)	Set Preset(1~90)
4	#(1~90)→PRESET	Go To Preset(1~90)
5	#(95)→PRESET	Menu On/Off
6	IRIS OPEN	Menu Mode : Enter Key
7	Joystick Up	Menu Mode : ↑ Key
8	Joystick Down	Menu Mode : ↓ Key
9	Joystick Left	Menu Mode : ← Key
10	Joystick Right	Menu Mode : → Key