

## SAA7188A programming example

### SAA7188A PROGRAMMING EXAMPLE

SUB ADDR	DATA	FUNCTION
0-39	00	NULL
3A	5F	Input Port Control – DF selects internal color bars – MP port used – 8 bit mux'd data
3B-41	00	NULL
42	6B	OSD Y-0
43	00	OSD U-0 WHITE
44	00	OSD V-0
45	1D	OSD Y-1
46	AD	OSD U-1 YELLOW
47	0E	OSD V-1
48	00	OSD Y-2
49	1D	OSD U-2 CYAN
4A	AD	OSD V-2
4B	EC	OSD Y-3
4C	CA	OSD U-3 GREEN
4D	BB	OSD V-3
4E	CF	OSD Y-4
4F	3A	OSD U-4 MAGENTA
50	46	OSD V-4
51	BC	OSD Y-5
52	E5	OSD U-5 RED
53	54	OSD V-5
54	9E	OSD Y-6
55	55	OSD U-6 BLUE
56	F1	OSD V-6
57	90	OSD Y-7
58	00	OSD U-7 BLACK
59	00	OSD V-7
5A	3F	Chroma Phase
5B	79	Gain U Axis
5C	AD	Gain V Axis
5D	3C	Black Level
5E	3A	Blanking Level
5F	00	NULL
60	38	Cross Color Reduction Filter Select
61	15	Standard Control
62	69	Burst Amplitude
63	1F	SubCarrier (4 LSBs)
64	7C	SubCarrier
65	F0	SubCarrier
66	21	SubCarrier (4 MSBs)
67	67	Closed Caption – Odd Field – First Byte
68	68	Closed Caption – Odd Field – Second Byte
69	69	Closed Caption – Even Field – First Byte
6A	6A	Closed Caption – Even Field – Second Byte
6B	11	Port Select – Closed Caption Line Position
6C	6D	RCV Port Control (Slave Mode Selected)
6D	07	RCM-CC Mode
6E	9D	H Trigger (LSBs)
6F	06	H Trigger (MSBs)
70	C4	SubCarrier Reset Mode – V Trigger

## SAA7188A programming example

SUB ADDRS	DATA	FUNCTION
71	6C	Begin MP Request
72	00	End MP Request
73	00	MP Request (MSBs)
74	00	NULL
75	00	NULL
76	00	NULL
77	00	Begin RCV2 Out
78	00	End RCV2 Out
79	00	RCV2 Out (MSBs)
7A	0C	Field Length
7B	12	First Active Line
7C	03	Last Active Line
7D	22	Field Control (MSBs)

Encoder in SLAVE mode (RCV1, RCV2 and LLC are INPUT).

RCV1 is reset with Field ID (low for Field 1, high for Field 2).

RCV2 is reset with HREF (low during video blanking period).

SubCarrier provides the correct 4 field sequence.

Video into MP Port, NTSC (US standard-7.5 IRE setup).

OSD programmed for 100/75 color bars.

SAA7188A driven from a Tektronix TSG422 generator (CCIR656 format).

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