

1203A

COLOR BAR GENERATOR (SECAM)

Video & audio signal generator/Multiple-signal generator

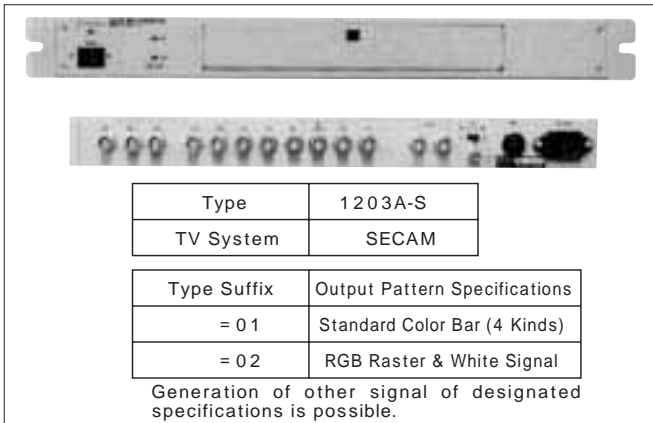
Digital TV development & production facilities

RF Capture system

Analog TV development & production facilities

Video & audio signal generator/Multiple-signal generator

Line instruments, accessories & other reference data



Type	1203A-S
TV System	SECAM
Type Suffix	Output Pattern Specifications
= 01	Standard Color Bar (4 Kinds)
= 02	RGB Raster & White Signal

Generation of other signal of designated specifications is possible.

General

This unit is signal generator that generates color bar signal of SECAM/L system. Composite video signal (2 routes), Y signal (1 route) and C signal (1 route) and as synchronous signal output, SYNC (1 route), HD (1 route), VD (1 route), BLK (1 route), BF (1 route), LALT (1 route) and SC (1 route) are output from rear panel. This unit is the most suitable as concentrated signal source for monitor adjustment. GEN-LOCK function is equipped.

Features

- Video data are accommodated in large volume ROM.
- Logic circuit is made smaller by employing FPGA and reliability is increased.
- Level adjustment is constructed interior type, so that it is most suitable as concentrated signal source.
- 4 kinds of color bar signal are built-in which are output by selecting of switch.
- ON/OFF of chroma signal is possible.
- ON/OFF of IDENT signal is possible.
- GEN-LOCK function is equipped.

Composition

Main Unit 1
Dimensions	425(W) × 49(H) × 400(D) mm (Excluding projections)
Weight	Approx. 6 kg
Accessories	
Power Cable (Including 3pin 2pin converter) 1
Rack Mount Adapter 1set
Instruction Manual and Test Result Sheet 1
Power Source	
Input Voltage Allowable Range	: AC90V ~ AC250V (50Hz/60Hz)
Power Consumption	: Approx. 14VA
Operating Environment	
Temperature	: + 5 ~ + 40
Humidity	: 45% ~ 85%RH (No dew generation)

Rating

• Frequency

Horizontal Sync.	$f_H=15.625\text{KHz} \pm 0.0003\%$
Vertical Sync.	$f_V=50\text{Hz}$
Sub-Carrier Frequency	$f_{OR}=4.406250\text{MHz} \pm 10\text{Hz}$
	$f_{OB}=4.250000\text{MHz} \pm 10\text{Hz}$

• Input Signal (For GEN-LOCK) 1 route BNC Connector

Composite Picture Signal VS 1 Vp-p ± 6dB
(with 75 termination ON/OFF switch)
GEN-LOCK function with horizontal sync. phase comparison

• Output Signal

Composite Video Signal	75 BNC Connector
Number of Output	2 Outputs
Output Level	1Vp-p
Y signal Level	0.7Vp-p ± 3IRE (at 100% white)
C signal Level	0.214Vp-p ± 2IRE (at f_{OR} burst signal)
	0.167Vp-p ± 2IRE (at f_{OB} burst signal)
SYNC Level	0.3Vp-p ± 2IRE
SET UP Level	0.0Vp-p
FIELD IDENT Signal	0.543Vp-p ± 2IRE (f_{OR} MAX)
	0.499Vp-p ± 2IRE (f_{OB} MAX)
Y Signal	75 BNC Connector
Number of Output	1 Output
Output Level	1Vp-p
Y Signal Level	0.7Vp-p ± 3IRE (at 100% white)
SYNC Level	0.3Vp-p ± 2IRE
C Signal	75 BNC Connector
Number of Output	1 Output
C Signal Level	0.214Vp-p ± 2IRE (at f_{OR} burst signal)
	0.167Vp-p ± 2IRE (at f_{OB} burst signal)
Signal Output Level Variable Range (By potentiometer on sub-panel plate)	
Y Signal Level	0 ~ 1Vp-p
C Signal Level	± 0.5Vp-p

SYNC Level	0 ~ 0.5Vp-p
SET UP Level	0 ~ 0.1Vp-p
SYNC	75 BNC Connector
Number of Output	1 Output
Output Level	4Vp-p ± 10% (Negative polarity)
Pulse Width	H SYNC 4.7 μs ± 10%
	EQ Pulse 2.35 μs ± 10%
	SERR Pulse 4.7 μs ± 10%
HD	75 BNC Connector
Number of Output	1 Output
Output Level	4Vp-p ± 10% (Negative Polarity)
Pulse Width	6.8 μs ± 10%
VD	75 BNC Connector
Number of Output	1 Output
Output Level	4Vp-p ± 10% (Negative Polarity)
Pulse Width	7.5H
BLK	75 BNC Connector
Number of Output	1 Output
Output Level	4Vp-p ± 10% (Negative Polarity)
Pulse Width	HBL 12.0 μs ± 10%
	VBL 25H
BF(CBLK)	75 BNC Connector
Number of Output	1 Output
Output Level	4Vp-p ± 10% (Negative Polarity)
Pulse Width	6.8 μs ± 10%
LALT	75 BNC Connector
Number of Output	1 Output
Output Level	4Vp-p ± 10% (Negative Polarity)
Pulse Wave Form	Rectangular wave of H/2
SC	75 BNC Connector
Number of Output	1 Output
Output Level	2Vp-p ± 10% (Negative Polarity)
Frequency Accuracy (f_{OB})	4.250000MHz ± 10Hz
S/N	45dB(Vp-p/Vp-p)
Overshoot	Less than 3%
Sag	Less than 2%
Smear	Less than 2%

Output Pattern 1203A - S01
Standard Color Bar (~ is output by switching)

COLOR BAR1 (100/0/75/0) : Full Color Bar

6.5 μs	6.5 μs	6.5 μs	6.5 μs	6.5 μs	6.5 μs	6.5 μs	6.5 μs
W 100%	YEL	CY	G	MG	R	B	BLACK

COLOR BAR2 (75/0/75/0) + 100% white : Split Color Bar

7.0 μs	7.5 μs	7.5 μs	7.5 μs	7.5 μs	7.5 μs	7.5 μs	7.5 μs	
W 100%	YEL	CY	G	MAG	R	B	U/2	
BLACK			W 100%			BLACK		U/2

COLOR BAR3 (30/0/30/0) : 30% Color Bar

6.5 μs	6.5 μs	6.5 μs	6.5 μs	6.5 μs	6.5 μs	6.5 μs	6.5 μs
W 30%	YEL	CY	G	MG	R	B	BLACK

COLOR BAR4 (75/0/75/0) + Colorless : Split Color Bar

7.0 μs	7.5 μs	7.5 μs	7.5 μs	7.5 μs	7.5 μs	7.5 μs	7.5 μs
W 75%	YEL	CY	G	MAG	R	B	No color
	YEL	CY	G	MAG	R	B	Color

Specify following items when order is placed.

1. Power source voltage to be used.
2. Pattern specifications.
3. Inquire separately for special specifications.