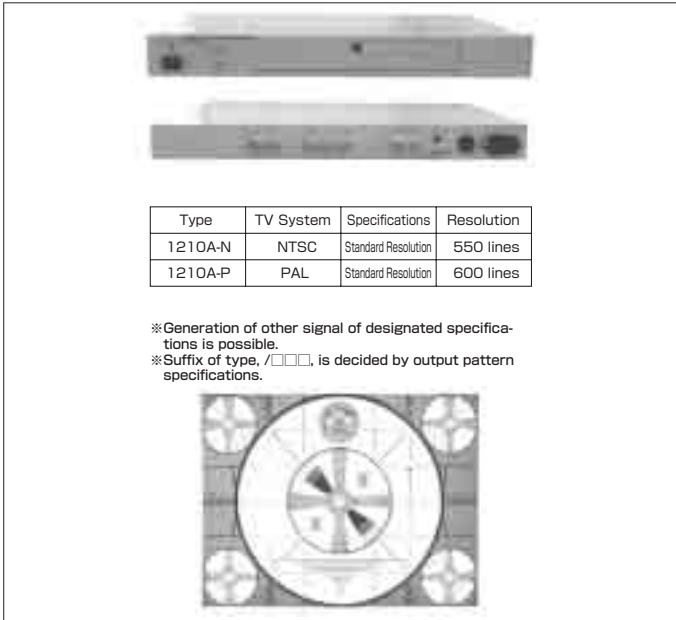


1210A

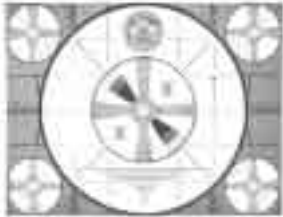
MONOSCOPE PATTERN GENERATOR

Video & audio signal generator/Multiple-signal generator



Type	TV System	Specifications	Resolution
1210A-N	NTSC	Standard Resolution	550 lines
1210A-P	PAL	Standard Resolution	600 lines

※Generation of other signal of designated specifications is possible.
 ※Suffix of type, /□□□, is decided by output pattern specifications.



General

This unit is signal generator generating monoscope pattern. Large volume ROM memorized high density monoscope pattern made on computer is equipped and its data are signal output by D/A conversion, so that there is no aging variation and maintenance is easy. From rear panel of this unit, composite video signal (2 routes), HD signal (1 route), VD signal (1 route) and composite sync. signal (1 route) are possible to output. GEN-LOCK function is equipped.

Features

- Video data are all accommodated in large volume ROM.
- Logic circuit is planned to be compact by employing FPGA and reliability is increased.
- GEN-LOCK selects burst comparison and horizontal sync. comparison automatically.

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. 30VA
Operating Environment	
Temperature	: +5 °C ~ +40°C
Humidity	: 45% ~ 85%RH (No dew generation)

Rating

Input Signal	Composite video signal 1Vp-p (When GEN LOCK is operated)
Output Signal	(Monoscope signal)
Output Signal	(Sync. signal)

	1210A-N	1210A-P
No. of output	2 outputs 75Ω	2 outputs 75Ω
Output voltage	V=0.714Vp-p S=0.286Vp-p	V=0.7Vp-p S=0.3Vp-p
Blanking width	H=10.9μs V=20H	H=12.0μs V=25H

HD, VD, Composite Sync. Signal 4Vp-p Negative polarity 75Ω BNC Connector

Output Pattern (High resolution 1210A-NH, -P)

Position	No. of Wedge	Resolution	Marker
Center High	7 lines	NTSC	1(100 line interval)
Resolution		400~600 lines	
Right Upper	7 lines	PAL	4(100 line interval)
Resolution		500~800 lines	
Center High	7 lines	NTSC	2(100 line interval)
Resolution		600~900 lines	
Left Lower	7 lines	PAL	4(100 line interval)
Resolution		800~1100 lines	
Peripheral High	5 lines	NTSC	4(50 line interval)
	Resolution	400~600 lines	
Resolution	7 lines	PAL	4(50 line interval)
	Resolution	500~600 lines	

Circle Signal

Large Circle Outer Line	99%	NTSC
	100%	PAL
Middle Circle Outer Line	49.5%	NTSC
	50%	PAL

Output Pattern (Standard 248E-N, -P)

Position	No. of Wedge	Resolution	No. of Marker
Center Hor. Left	7 lines	150~350 lines	5 (50 line interval)
Center Hor. Right	11 lines	300~500 lines	5 (50 line interval)
Center Ver. Upper	11 lines	300~500 lines	5 (50 line interval)
Center Ver. Lower	7 lines	150~350 lines	5 (50 line interval)
Left Side Vertical	1 lines	325~575 lines	10 (25 line interval)
Right Side Vertical	1 lines	50~300 lines	10 (25 line interval)
Center Ver.	11 lines	NTSC	
R/Upper		450~550 lines	
L/Lower	PAL	500~600 lines	
Peripheral	5 lines	150~300 lines	4 (50 line interval)
Horizontal		250~400 lines	
Peripheral	5 lines	150~300 lines	4 (50 line interval)
Vertical		250~400 lines	

Focus (Ring Signal, Letter Signal, Mascot Mark Signal) Ring

Center Ring	Resolution 300 lines, No. of ring = 6 rings
Peripheral Ring	Resolution 300 lines, No. of ring = 3 rings
Linearity of Deflection (Circle Signal, Lattice Signal)	
Circle	3 kinds of 100%, 50%, and 28% of the size of outer circle against vertical effective area
Lattice	Hor. 7×Ver. 9 lines

Picture Size, Over Scan (Lattice Signal, Hor./Ver Size Marker Signal)

Horizontal Size Marker	8 division of lattice square
Vertical Size Marker	8 division of lattice square

Streiking (Blind Signal)

Square wave signal corresponding to 1.5, 2.3, 3, 4.5, 6, 9, 12, 18, 24, 36, 49 and 72 lines in vertical resolution (NTSC)

Square wave signal corresponding to 1.5, 2.3, 3, 4.5, 6, 9, 12, 18, 24, 36, and 49 lines in vertical resolution (PAL)

Interface (Diagonal Line Signal)

Diagonal 1pair against picture center

Picture Center (Letter Signal)

Indication Character of 300 lines Ring 30

Gradation (Staircase Wave Signal)

Staircase wave 4 gradation (0%, 25%, 50%, 75%)

Circle Signal

Large Circle Outer Fringe	99%	NTSC
	100%	PAL
Middle Circle Outer Fringe.....	49.5%	NTSC
	50%	PAL

Performance

Input Signal (For GEN LOCK)

Composite video signal	VS 1Vp-p (With switch for 75Ω termination ON/OFF)
VIDEO	0.7Vp-p (PAL) 0.714Vp-p (NTSC)
SYNC	0.3Vp-p (PAL) 0.286Vp-p (NTSC)

VS Output Signal 75Ω BNC connectors

No. of output	2 outputs	
Output voltage	Video component	
	NTSC	0.714Vp-p±5%
	PAL	0.7Vp-p±5%
Sync. Component	NTSC	0.286Vp-p±5%
	PAL	0.3Vp-p±5%
Variable Range (By potentiometer on panel)		
VIDEO	0~1Vp-p	
SYNC	0~0.5Vp-p	
SETUP	0~0.15Vp-p	
S/N	More than 40dB	
Output Impedance	75Ω±5%	

HD Output 75Ω BNC connector

No. of output	1 output
Output voltage	4Vp-p±10% (Negative polarity)

VD Output 75Ω BNC connector

No. of output	1 output
Output voltage	4Vp-p±10% (Negative polarity)

SYNC Output 75Ω BNC connector

No. of output	1 output
Output voltage	4Vp-p±10% (Negative polarity)

■Please specify followings when ordering is made.

1. NTSC or PAL system.
2. Power source voltage to be used.
3. Pattern specifications, standard resolution or high resolution.
4. For special specifications, please consult with Eiden separately.