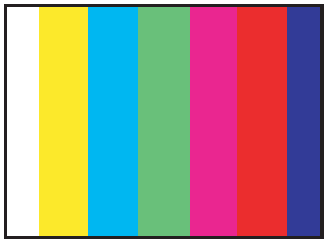
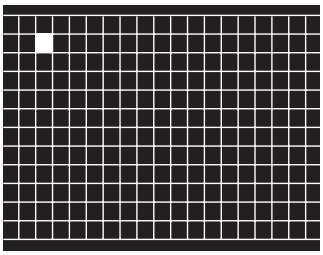
1200A

VIDEO SIGNAL GENERATOR

Type	1200A-N	1200A-P	1200A-S
TV System	NTSC	PAL	SECAM



Color bar signal



Cross-hatch signal

General

This unit is video signal generator which generates composite video signals. The signal generator section is made in unit and is designed to be able to output maximum three types of composite video signal (2 routes), luminance signal (1 route) and chroma signal (1 route) simultaneously.

Features

- Signals made on computer are accommodated in large volume ROM.
- Signal data are output by D/A conversion, so that this is superior in stability and maintenance is easy.
- Level adjustment is behind front panel door, so that this is the most suitable for concentrated signal source.
- Logic circuit is to be smaller by employing FPGA and reliability is increased.
- GEN-LOCK function is equipped.

Composition

Main Unit ·····1
Dimensions 425(W)×49(H)×400(D) mm (Excluding projections)
Weight Approx. 7 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. 42VA
Operating Environment
Temperature : ＋5℃～＋40℃
Humidity : 45%～85%RH (No dew generation)

Rating

• Frequency

Color Sub-carrier
NTSC fsc = 3.579545MHz ±10Hz
PAL fsc = 4.43361875MHz±10Hz
SECAM foR = 4.406250MHz±10Hz
foB = 4.250000MHz±10Hz
Horizontal Sync.
NTSC fh = 15.734264kHz ±0.0003%
PAL fh = 15.625000kHz ±0.003%
SECAM Same as that of PAL
Vertical Sync.
NTSC fv = 59.94Hz
PAL fv = 50Hz
SECAM Same as that of PAL
Output Signal (Output of ①～③ independently in each unit)
①Composite Video Signal 75Ω BNC Connector
Number of output 2 outputs
Output voltage 1Vp-p (100% white reference)
②Luminance Signal + SYNC 75Ω BNC Connector
Number of output 1 output
Output voltage 1Vp-p (100% white reference)
③Color Differential Signal 75Ω BNC Connector
Number of output 1 output
Output voltage NTSC 0.286Vp-p (Burst reference)
PAL 0.3Vp-p (Burst reference)
④Color Sub-carrier 75Ω BNC Connector
Number of output 1 output
Output voltage 2Vp-p
Number of Unit Possible to accommodate max. 3 units.
GEN LOCK Function

• Composite Video Signal Input

VS signal level 1Vp-p/75Ω± 6dB
Rear panel VS : BNC connector 1 route input/1 route through output
(with 75Ω/HIGH termination select switch)

• Lock Range NTSC

Burst Lock (Priority)
①Burst Level Range of 0.286Vp-p ±6dB
②Sync. Level Range of 0.286Vp-p ±6dB
GENLOCK is possible, if both conditions of ① and ② are fulfilled.
SYNC LOCK
①Burst Level Less than 0.286Vp-p ±6dB
②Sync. Level Range of 0.286Vp-p ±6dB
GENLOCK is possible, if both conditions of ① and ② are fulfilled.
INTERNAL
In case of no VS input
PAL
①Burst Level Range of 0.3Vp-p ±6dB
②Sync. Level Range of 0.3Vp-p ±6dB
GENLOCK is possible, if both conditions of ① and ② are fulfilled.
INTERNAL
In case of no VS input

• GEN LOCK

Working condition of EXT input signal of rear panel Synchronized with HSYNC rising of VS

• Output Pattern (Example)

Full field color bar
EIA color bar
SMPTE color bar
Convergence signal (cross-hatch, dot and etc.)
※Possible to generate other signal specified specifications.

■Please specify followings when ordering is made.

1. Power source voltage to be used.
2. Pattern specifications.
3. For special specifications, please consult with Eiden separately.