

# 1211A

COLOR PATTERN GENERATOR

Video & audio signal generator/Multiple-signal generator

Digital TV development & production items

RF Capture system

Analog TV development & production facilities

Video & audio signal generator/Multiple-signal generator

Line instruments, accessories & other reference data



Type	System
1211A - N01	NTSC System : Philips pattern
1211A - P01	PAL System : Philips pattern
1211A - S01	SECAM System : Philips pattern
1211A - N02	NTSC System : ITE complexion chart
1211A - P02	PAL System : ITE complexion chart



NTSC/PAL



SECAM

## General

This unit is signal generator to generate color pattern developed as the standard signal on adjustment and checking in factory of color TV, VTR, disk and etc. This is the most suitable as concentrated signal source.

## Features

- Output color pattern data are superior in stability as they are output by D/A conversion and maintenance is easy.
- Level adjustment is constructed in behind door on front panel.
- 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	1 set
Instruction Manual and Test Result Sheet	1
Power Source	
Input Voltage Allowable Range	: AC90V~AC250V (50Hz/60Hz)
Power Consumption	: Approx. 71VA
Operating Environment	
Temperature	: +5℃~+40℃
Humidity	: 45%~85%RH (No dew generation)

## Rating

### • Output Signal

- Composite Video Signal 75Ω, BNC Connector
  - Number of Output 2 outputs
  - Output Voltage 1Vp-p (100% white reference)
- Y Signal 75Ω, BNC Connector
  - Number of Output 1 output
  - Output Voltage 1Vp-p (100% white reference)
- C Signal 75Ω, BNC Connector
  - Number of Output 1 output
  - Output Voltage
    - NTSC 0.286Vp-p (Burst reference)
    - PAL 0.3Vp-p (Burst reference)
    - SECAM 0.214Vp-p (foR reference)
    - 0.167Vp-p (foB reference)

### White Lattice Signal

- Number of Line Horizontal 14 lines×Vertical 18 lines
- Pulse Width Horizontal 1H Vertical NTSC 0.24μs  
PAL/SECAM 0.21μs

- Lattice Size NTSC 18H×2.94μs  
PAL/SECAM 21H×2.85μs
- Level NTSC 0.714Vp-p  
PAL/SECAM 0.7Vp-p

- Set-up 0.34Vp-p
- Circle Signal Approx. 88% of vertical effective area
- Fringe Stripe Signal Level NTSC 0.714Vp-p  
PAL/SECAM 0.7Vp-p

### Black Window Signal

- Width NTSC Horizontal 18H, Vertical 11.45μs  
PAL/SECAM Horizontal 21H, Vertical 11.5μs
- Level NTSC 0.714Vp-p  
PAL/SECAM 0.7Vp-p

### Black Bar, White Window Signal

- Black Bar Half Value Width NTSC 0.24μs  
PAL/SECAM 0.21μs
- White Window Level NTSC 0.714Vp-p  
PAL/SECAM 0.7Vp-p

### 250kHz Square Wave Signal Level

- NTSC 0.535Vp-p
- PAL/SECAM 0.525Vp-p
- Color Bar with luminance order
- Possible ON/OFF by switch

### Color Bar Signal

### Center Marker

### Multi-Burst Signal

- Frequency NTSC 0.5/1.0/2.0/3.4/4.0MHz  
PAL 0.8/1.8/2.8/3.8/4.8MHz  
SECAM 0.8/1.8/2.8/1.8/0.8MHz
- Frequency Deviation ±3%
- Amplitude Deviation NTSC ±2% (Deviation against 0.5MHz)  
PAL/SECAM ±2% (Deviation against 0.8MHz)
- Level NTSC 0.714Vp-p  
PAL/SECAM 0.7Vp-p

### Stair Wave Signal

- 6 stairs 0/20/40/60/80/100%
- Linearity ±3%
- Level NTSC 0.714Vp-p  
PAL/SECAM 0.7Vp-p

### White Bar, Black Window Signal

- White Bar Half Value Width NTSC 0.24μs  
PAL/SECAM 0.21μs
- Level NTSC 0.714Vp-p  
PAL/SECAM 0.7Vp-p

### Delay Check Signal

### Red Color Width

### Color Signal Outside of it (No at SECAM)

- Red Color Width Approx. 3μs (Same as color bar)
- R-Y 270°/90°
- G-Y 326°/146°
- B-Y 180°/0°
- R-Y, B-Y NTSC For R-Y (270°) B-Y (0°), possible ON/OFF by switch  
PAL For R-Y (90°/90°, 0°/180°), possible ON/OFF by switch
- Level NTSC 0.286Vp-p/PAL 0.3Vp-p

### External VBS Input

GEN-LOCK is possible by input of external VBS signal or black burst (But, only SYNC is effective for SECAM)

- BNC Bridge Connection (Loop through)  
With 75Ω termination ON/OFF switch
- Input Level NTSC SYNC 0.286Vp-p±3dB  
Burst 0.286Vp-p±3dB  
PAL SYNC 0.3Vp-p±3dB  
Burst 0.3Vp-p±3dB  
SECAM SYNC 0.3Vp-p±3dB

## ■ Designate followings when order is placed.

1. TV system.
2. Power source voltage to be used.
3. Yes or No for designation of logo mark.