

UP22A Series

TELEVISION INSTRUMENTS

TEST PATTERN GENERATOR



General

These two units are digital monoscope pattern (Lion mark, high-resolution) generators used in the production of televisions, VCRs, CRTs and other equipment in NTSC-M format (UP22A1) or PAL-B, G, D, I/K format (UP22A2).

Features

- Output signals are a signal with a color burst signal added and a signal without a color burst signal added, both of which are output simultaneously through 2 lines each.
- Equipped with Genlock function.

Optional racks

- Output signals
 - Signal types Both are output simultaneously.
 - Monoscope pattern (Lion Mark) without color burst
 - Monoscope pattern (Lion Mark) with color burst
 - Number of outputs
 - Monoscope pattern (Lion Mark) without color burst
2
 - Monoscope pattern (Lion Mark) with color burst
2
 - Connector type BNC, 75 Ω
 - Output signal level

	(UP22A1)	(UP22A2)
Video signal	714 mVp-p, ±2% (in 100% signal)	700 mVp-p, ±2% (in 100% signal)
Sync signal	286 mVp-p, ±2%	300 mVp-p, ±2%
Color burst signal	286 mVp-p, ±2%	300 mVp-p, ±2%
 - Sync signal

	(UP22A1)	(UP22A2)
Line frequency	15.734 kHz	15.6525 kHz
Field frequency	59.94 Hz	50.0 Hz
H front porch width	1.5 μs, ±5%	1.5 μs, ±5%
H sync width	4.7 μs, ±5%	4.7 μs, ±5%
V front porch width	3H	2.5H
V sync width	3H	2.5H

- | | (UP22A1) | (UP22A2) |
|--------------------------------|----------------------|----------------------|
| Serrated pulse width | 4.7 μs, ±5% | 4.7 μs, ±5% |
| Equalizing pulse width | 2.3 μs, ±5% | 2.35 μs, ±5% |
| H blanking width | 10.7 μs, ±5% | 12.1 μs, ±5% |
| V blanking width | 20H | 25H |
| Subcarrier frequency accuracy | 3.579545 MHz, ±20 Hz | 4.433618 MHz, ±20 Hz |
| | (UP22A1) | (UP22A2) |
| Color burst signal input level | 286 mVp-p, ±6 dB | 300 mVp-p, ±6 dB |
| Color burst signal input level | 286 mVp-p, ±6 dB | 300 mVp-p, ±6 dB |
| | (UP22A1) | (UP22A2) |
| Sampling frequency | 28.63636 MHz | 28.375 MHz |
| Power cord | x 1 | |
| User's manual | x 1 | |