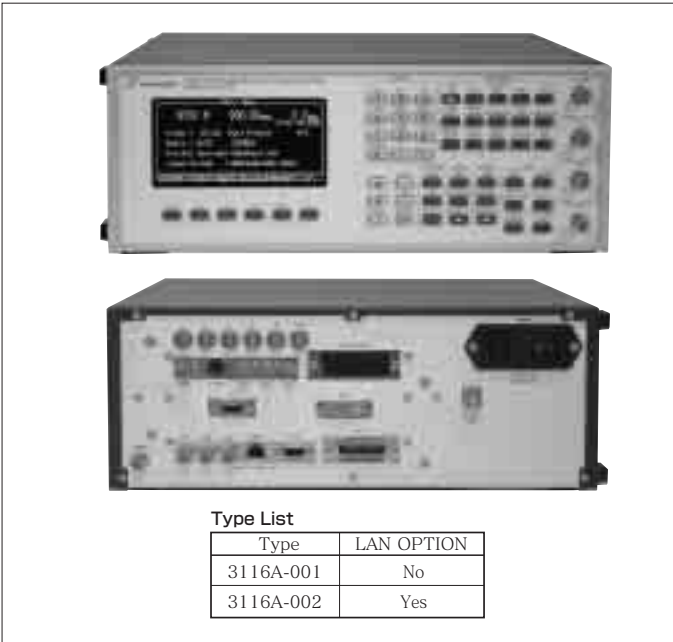


# 3116A

## MULTI-SYSTEM ANALOG TV MODULATOR

Analog TV development & production facilities



Type List

Type	LAN OPTION
3116A-001	No
3116A-002	Yes

### General

This unit is multi-system analog TV modulator that can output analog TV standard signal of each country in the world with all channel.

This unit equips generation part of various kinds of video signal, teletext multiplex signal and sound multiplex signal, so that test for analog TV of each country standard in the world is possible by only this unit.

For video output, output terminals of analog RGB signal output (Mini D-sub 15 pins) and of digital video signal output (DVI-I) are equipped, so that this unit is most suitable for receivers, such as TV and etc. which equip these input terminals.

Also, this unit is configured with video modulation part having VSB characteristics, so that this unit can be used for test of adjacent channel interference between analog TV signal and digital TV signal.

### Features

- Corresponding to TV system / Color system in the world.  
NTSC-M (Japan, U.S.A, and etc.)  
PAL-I (U.K. and etc.), -B/G (Germany and etc.), -D (Poland and etc.), -M (Brazil and etc.), -N (Argentine and etc.)  
PAL-B (AUS) (Australia), PAL-D (CHINA) (China),  
SECAM-B/G (Saudi Arabia and etc.), -D/K & KI (Russia, Czech and etc.), -L (France and etc.),  
NTSC-4.43B/G, -4.43D/K, -4.43I
- VSB characteristics suited for adjacent channel interference test between analog TV signal and digital TV signal.
- Built-in video signal (14 items, total 45 kinds except VITS ON/OFF · OPTION)  
COLOR BAR, CROSS HATCH, CIRCLE CROSS, MULTI BURST, MOD STAIRSTEP, WHITE, BLACK & WHITE, MOD RAMP, PURITY, AFTER IMAGE (MOVING WINDOW), MONOSCOPE, COLOR PATTERN, DEM PATTERN
- Built-in audio multiplex signal  
Japan system, BTSC (U.S.A) system, NICAM system (B/G, I, D-CHINA, FRANCE), A2 system.
- Built-in signal for audio modulation.  
10Hz ~ 150KHz of signal in 10Hz step is built-in. Low distortion is realized.  
By designating start/stop frequency, log (Logarithm) sweep function is realized.
- Possible to modulate by external video and audio.
- Enhanced audio modulation function (Simultaneous modulation of AM and FM).  
Regardless of TV system, audio modulation can be made by combining (or simultaneous) with AM and FM freely.
- Built-in digital service (TELETEXT and etc.)  
TELETEXT System B (TOP, FLOF, VPT, PSF), VPS, WSS, Closed Caption (CC, TEXT, XDS, V-chip)
- Selection of picture format  
VGA, SVGA, XGA, SXGA, \*Not corresponding to control data of DVI.

- Video signal generating part, audio (multiplexing) signal generating part, teletext signal multiplex generating part, video/audio modulation part and RF output part are put in small space.
- RF output frequency  
30MHz ~ 900MHz, corresponding to VHF, UHF and CATV channel in the world (50Hz step).
- Abundant external signal output.  
Composite signal output, RGB signal output, V, Pb, Pr output, S-VIDEO signal output, composite sync. signal output, HD, VD output, VGA signal output, Digital video signal output.  
\* SCART connector (Europe system) is equipped as the standard.
- Equipped remote interface.  
Standard model (3116A-001) : GP-IB (IEEE-488.2), RS-232C/Model corresponded to option (3116A-002) : LAN
- Option  
“Change to rear RF output”, “Addition of video signal” designated by customer and “Adding LAN” of remote interface are possible.

### Composition

- Main Unit** ..... 1  
Dimensions 350(W) × 132(H) × 420(D) mm (Excluding projections)  
Weight Approx. 9 kg
- Accessories**  
Power Cable (Designate type when order is made) ..... 1  
Instruction Manual and Test Result Sheet ..... 1 set
- Power Source**  
Input Voltage Allowable Range : AC90V ~ AC250V (50Hz/60Hz)  
Connector Rectangular 3P (with ground)  
Power Consumption : Approx. 80VA
- Operating Environment**  
Temperature : +5°C ~ +40°C  
Humidity : Less than 90%RH (No dew generation)