

# 4220C - 006

ALL CHANNEL UP CONVERTER

Digital TV development & production facilities

Digital TV development & production facilities

RF Capture system

Analog TV development & production facilities

Video & audio signal generator/Multiple-signal generator

Line instruments, accessories & other reference data



## Performance

- **Input/Output Return Loss within Range**  
Less than - 12dB
- **Output Level Deviation (At AGC working)**  
Within  $\pm 2.5$ dB against setting level at input level of - 10dBm  $\pm$  5dB
- **Output Level Deviation (At MGC working)**  
Within  $\pm 5.5$ dB against setting level at input level of - 10dBm  $\pm$  5dB
- **Output Level Deviation by Temperature**  
Within  $\pm 1.5$ dB (At AGC working and frequency fixed)
- **Output Frequency Accuracy**  
Within  $\pm 5$ kHz for setting frequency (After 30 min. of power ON)
- **Group Delay within Band**  
Less than 10nsec-p
- **Frequency Response within Band**  
Within 1dBp-p
- **Output Spurious**  
Less than - 60dB (At output level of 0dBm)
- **Phase Noise**  
Less than - 90dBc/Hz (at 10kHz)
- **Isolation at Output OFF**  
Less than - 60dB
- **GP-IB interface is equipped**

Under remote control, in case that unit is used for a long time by switching setting frequently, please consult with Eiden separately.

## General

This unit is all channel up-converter corresponding to production of TV receiver and IRD of terrestrial digital broadcasting system.

Input frequency corresponds to 36 ~ 44MHz, so that this can be used for each system of ISDB-T & ISDB-T<sub>SB</sub> (OFDM), DVB-T (COFDM) and ATSC (8VSB).

## Composition

Main Unit	.....	1
Dimensions	425(W) x 49(H) x 530(D) mm (Excluding projections)	
Weight	Approx. 9 kg	
Accessories		
Power Cable (Including 3pin 2pin converter)	.....	1
Instruction Manual and Test Result Sheet	.....	1
Power Source		
Input Voltage Allowable Range	: AC90V ~ AC132V (50Hz/60Hz) AC180V ~ AC250V (50Hz/60Hz)	
Power Consumption	: Approx. 75VA	
Operating Environment		
Temperature	: +5 ~ +40	
Humidity	: 45% ~ 85%RH (No dew generation)	

## Rating

- **Converter Polarity**  
Reverse
- **IF Input Center Frequency**  
36.00MHz ~ 44.00MHz
- **IF Input Step Frequency**  
50kHz step
- **IF Input Frequency Range**  
 $\pm 4$ MHz
- **IF Input Impedance**  
50 standard (BNC type Female)
- **IF Input Level**  
- 10dBm  $\pm$  5dB (AGC function is available)
- **2nd IF Input/Output Center Frequency**  
286.00MHz
- **2nd IF Input/Output Frequency Range**  
 $\pm 4$ MHz
- **2nd IF Input/Output Impedance**  
50 standard (BNC type Female)
- **2nd IF Input/Output Level**  
- 12dBm
- **RF Output Center Frequency**  
48.00MHz ~ 860.00MHz
- **RF Output Step Frequency**  
10kHz step, 1/6MHz step, 1/7MHz step
- **RF Output Frequency Range**  
 $\pm 4$ MHz
- **RF Output Impedance**  
50 standard (N type Female)
- **RF Output Level**  
- 90dBm ~ 0dBm (1dB step)