# N3282

# Full Range Agile Tunable Modulator

# User Manual



#### **Audio & Video Modulator**



## **Features**

- 45-870 MHz frequency range
- 5 digits LED
- 1<sup>2</sup>C bus-mastering
- GaAs Component used

- Front panel control board to adjust frequency, modulation level, A/V ratio, volume, RF signal level through the LED by turning keys
- High C/N, reliable and easy to operate.

## **Specifications**

RF		Differential phase:	2.5°
Frequency range:	45 to 870.00MHz	Chrominance luminance delay: 40nS	
Frequency Stability:	5 KHz	Video modulation level	<b>:</b> 87.5%
Frequency stepping:	250KHz	Video clamping:	25dB
Output Level:	≤108dB u V (max)	Modulation level:	1-32 levels adjustable
Level adjustment range: 20dB		<u>Audio</u>	
	(1-32 levels adjustable)	Input level range:	+5 to +25dBmv
Output Impedance:	75 ohm	Input Impedance:	≥10k <b>Ω</b>
<b>Spurious Output:</b>	-60dB	Frequency response:	1.5dB
Output return loss:	14dB	Aural S/N:	52dB
C/N: in band	65dB (min 62dB)	Audio distortion:	0.4%
adjacent channel	68dB (min 65dB)	Sound frequency:	6.50, 6.00, 5.50, 4.50MHz
out-of-band 60dB			optional
A/V carrier ratio:	-13 to -20dB	<b>Maximum sound frequency deviation:</b> 50KHz	
(	8 levels adjustable )	Pre-emphasis:	50 u s
Video		Audio level:	1-32 levels adjustable
Standard input level:	1.0V p-p	General	
Video input impedance: 75Ω		Power:	110V/60Hz
Visual S/N: 50 dB		Operating Temperature: -10°C to +40°C	
Video Response:	1.5 dB	Dimensions:	19"(W) X 7.8"(D)X1.75"(H)
Differential gain:	2.5%	Weight:	about 2.5Kg

(Specifications subject to change without notice.)



NAGASIMA ELECTRONIC EQUIPMENT <u>www.neecatv.com</u>
Tel: +86-592-5771182 Fax: +86-592-5032560 Email: neecatv@vip.sina.com

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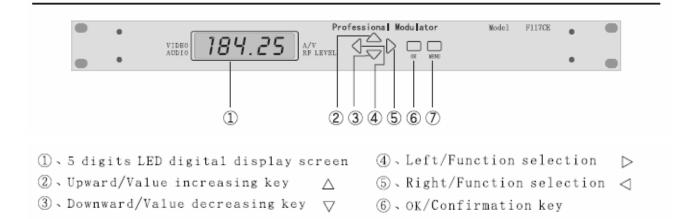
### **Installation and Operation Guidelines**

#### Before Use

Before packing and shipment, every products was quality and durability tested and approved. After opening the box, please check to ensure all components are attached

In case physical damage found, please notify distributor immediately. F117CE is designed to be ready to install in "EIA 19" type of cabinet.

#### Front Panel



(7) . MENU key

#### Rear Panel



- ①"F"type connector output RF modulated signal
- ③ BNC type connector input Audio signal
- ②BNC type connector input Video signal ④AC power supply 220V/50Hz socket

#### Operation Instruction

#### Stage one

"Main Pages" under normal operation. Press"MENU" key to enter Stage two "Menu Page"

VIDEO 184.25 A/V Output frequency is 184.25MHz (standard eighth channel)

#### Stage two

5 selection pages, which can be moved by pressing left key ( < ) , right key ( ▷)

VIDEO 184.25 A/V RF LEVEL

184.25 twinkles, to select suitable frequency by pushing upward key ( $\triangle$ ) or downward key( $\nabla$ ).

VIDEO 6.50

6.50 twinkles, to select suitable sound frequency by pushing upward key ( $\triangle$ ) or downward key ( $\nabla$ ).

VIDEO - 18 A/V RF LEVEL

To select suitable video modulation level by pushing upward key ( $\triangle$ ) or downward key( $\nabla$ )

VIDEO A/V RF LEVEL

To select suitable volume by pushing upward key ( $\triangle$ ) or downward key( $\nabla$ )

VIDEO 18 - A/V RF LEVEL

It shows A/V ratio is -18dB.To select suitable value by pushing upward key(  $\Delta$  ) or downward key( $\nabla$ )

VIDEO AVV RF LEVEL

To select suitable RF level by pushing upward  $\ker(\Delta)$  or downward  $\ker(\nabla)$ 

www.neecatv.com

Email: neecatv@vip.sina.com

Data Storage

When all data adjustment is over, press"OK"key, system starts to store data automatically. LED display screen shows "OK", then it will back to "Main Page" automatically.

VIDEO 184.25 A/V Frequency output is 184.25MHz(standard NO.8 channel)

#### Note:

- \* In case power off and restart, the modulators will operate according to last setting and storing data automatically (last data memory with power off).
- \* To avoid affection from temperature changing, data adjusting should be started after the modulator has operated for half an hour.
- \* When several modulators work together, appropriate space for ventilation is required.

If problem occurs and persists, please contact
your local authorized agent. Please do NOT disassemble
the machine yourself and cause permanent damage.

#### **NOTE**

If you have any questions or need further information, please feel free to contact us:

NAGASIMA ELECTRONIC EQUIPMENT CO., LTD.

ADD: NEE Building, 39 Xiangyue Rd,

Torch Xiang-An Industrial Park,

Xiamen, P.R.C. Post Code: 361001

TEL: +86-592-5771182, 5771892

FAX: +86-592-5032560 Web: www.neecatv.com

Email: neecatv@vip.sina.com

