

## CAM8800 Agile Modulator (NTSC, PAL-B, PAL-D & PAL-I available)

### Features

- Front panel control, CPU control, 3 LED display, easy to operate.
- 47-860MHz output frequency agility.
- High output level, low spurious.
- With SAW Filter for accurate side band response and high adjacent rejection.
- Adjacent channel capability.
- Low out-of band noise for multiple modulator installation.
- Video modulation and audio deviation level adjustable.
- Sound carrier level adjustable.
- High VSB attenuation.
- External IF loop through capable to any scrambling.
- Overmodulation LED indicator.
- Last channel memory.
- Field defeatable audio pre-emphasis for BTSC stereo/mono baseband inputs.
- 2 PLL synthesized channel control.
- Meets F.C.C. offset and accuracy requirement.
- Built-in switching mode power supply (S.M.P.S.) for easy installation.
- 19" Eia rack mountable.

### Specifications

#### ■RF

Output frequency range	47~860MHz adjustable
Output level	50dBmV typical
Output level range	15dB continuously adjustable
V/A carrier power ratio	-9~-30dB continuously adjustable
Spurious harmonics	≥ 55dB below video carrier
Output impedance	75Ω
Frequency accuracy/ stability	within ±5KHz(meets F.C.C. socket 21006 specs.)
Video modulation depth indicator	set @87.5%, adjustable to 90% typical

#### ■IF

IF output level	28dBmV (video carrier)
Video IF carrier frequency	NTSC 45.75MHz PAL-B 38.9MHz PAL-D 38MHz PAL-I 38MHz
Audio IF carrier frequency	NTSC 41.25MHz PAL-B 33.4MHz PAL-D 31.5MHz PAL-I 32MHz



#### ■Video

Input level	Factory set for 87.5% modulation for a video input of 1.0vp-p
Input type	Composite video negative sync
Video frequency response	±2dB
Modulation range	0~95% adjustable
Input impedance	75Ω

#### ■Audio

Input level	400mVp-p for ±25KHz deviation
Audio frequency	NTSC 4.5MHz ±3KHz above video PAL-B 5.5MHz ±3KHz above video PAL-D 6.5MHz ±3KHz above video PAL-I 6.0MHz ±3KHz above video
Audio harmonic distortion	0.50%
Audio frequency response	±0.5dB
Input impedance	Hi-Z
BTSC stereo/mono(*)	Field defeatable audio pre-emphasis for BTSC baseband inputs
Audio overmodulation LED indicator	25KHz ±2KHz
(*)NOTE : Clip out of R4 on A/V modulator board defeats pre-emphasis for stereo capability	

#### ■General

Power requirement	90~260V AC switching 50/60 Hz
Temperature range	0~50°C
Rear panel connectors	F-type (video in, IF out, IF in and RF out) RCA type (audio in)
Dimensions	19"(L) x 9-1/2(W) x 1-3/4(H)

### FRONT PANEL OPERATION

1. Power indicator
2. RF output level adjustment
3. Channel selector
4. TV/CATV/H/C selector : Pull out the small panel below and use the DIP switch inside to select TV/CATV/HRC
5. LED channel indicator
6. Audio overmodulation indicator
7. Audio deviation level adjustment
8. Audio carrier level adjustment
9. Video Modulation level adjustment
10. Video overmodulation indicator