## OTM-4870

## FREQUENCY AGILE 870MHz MODULATOR

- Frequency agile from 48.25 to 865.25 MHz
- Microprocessor controlled by front panel push buttons
- LCD displays channel or test description
- $>80 \mathrm{~dB}$ out-of-band carrier to noise ratio
- +60 dBmV high output level
- Composite IF loop for up-converer applications
- Dual high level IF loops
- Auxiliary IF for EAS compatibility
- BTSC stereo and sap compatible
- Low power consumption for reliability
- Available in NTSC or PAL formats
- Video AGC selectable


The OTM-4870 has all the high end features required by the most sophisticated users of 100+ channels in cable televisions systems. Output frequencies may be selected by frequency in 12.5 KHz increments or by channel designation. EIA or OLSON channel plans can be selected for standard channel, HRC or IRC assignments.

SAW Filtering and OLSON TECHNOLOGY system design factors insure an out-of-band C/N ratio greater than 80 dB while maintaining an RF output level of +61 dBmV over the entire operating frequency range of the OTM-4870.

The OTM-4870 up converter section is a high performance tuner with excellent Phase Noise ( $>90 \mathrm{dBc}$ ) and frequency response that exceeds DOCSIS and CMTS specifications.


## RF

Frequency Range................. 48.25 MHz to 865.25 MHz

Selectable by front panel
touchbuttons by channel or
frequency in 12.5 KHz incre-
ments.

## AUDIO



## DUAL IF LOOPS

Video IF................................ +36dBmV @ 45.75MHz (typical)
Audio IF.............................. Adjustable -12dB to -21dB relative to video carrier

COMPOSITE IF LOOP
Video IF. $\qquad$ $+18 \mathrm{dBmV} @ 45.75 \mathrm{MHz}$ (typical)
Audio IF. $\qquad$ Adjustable -12 dB to -21 dB relative to video carrier

AUX. IF INPUT
Four Modes of Control............. Loss of video to modulator, rear panel closure screws for EAS compatibility

## EXTERNAL FEATURES

Front Panel Controls. $\qquad$ Video/Audio modulation levels, Audio to Video carrier ratio, RF output level, LCD contrast control, Push button menu controls
Front Panel LED's................... RF on, AUX IF in use, Synthesizer unlocked, Video/Audio over modulation

Rear Panel Connectors. $\qquad$ Type " $F$ " connectors for RF output, RF test point, AUX IF input, Video baseband input, Video and Audio IF inputs/ outputs. Composite IF input/ output and Audio subcarrier. Screw terminals for contact closure/audio baseband

## GENERAL

| Power Supply.......................... Universal 90 VAC to 240 VAC, |  |
| :--- | :--- |
|  | 50 to 60 Hz with IEC 320 power |
| connector |  |

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