

Agile A/V Stereo Demodulator

132 Channel Input Range 5.75-806 MHz
(CATV T7-T13 AND 2-125) and TV 2-69

Broadcast quality specifications for
unparalleled picture quality

Keyed AGC system provides
excellent picture stability

Quadrature single-tuned audio detection
guarantees superior audio quality

Digital display provides quick
channel identification

Bright LED bar graph provides quick
reference of modulation levels

Envelope detection ensures exceptional
differential gain and phase

45.75 MHz composite IF output allows tuner
monitoring, encoder, ghost canceling and
video override applications

SAW filtered for precise adjacent
channel rejection

Back-panel switch enables sub-band
operation for receiving remote TV origination,
making it even more flexible for
institutional cable systems

IRC and HRC input and output of offset
available for frequency setting in
systems using offset channels



The MACOM D860 is a frequency agile professional re-broadcast grade, microprocessor controlled CATV demodulator. Its phase-locked loop frequency control, envelope signal detection and superior SAW filtering minimize adjacent channel interference and assure accurate and spurious-free performance. The unit accepts any NTSC television signal in the 5.75-806 MHz frequency range, converting it to baseband video and audio while maintaining over 60 dB S/N ratio. The sub-band capabilities allow the reception of remote channel origination for redistribution over the entire cable system, making it the ideal signal processor in government and institutional environments. A rear panel switch enables sub-band channel operation. IRC and HRC offsets can be activated via push-button switches on the front panel. The unit's PLL circuitry in conjunction with the nonvolatile memory contained in the microprocessor ensures easy and reliable channel selection and restoration. The D860 provides three additional outputs: (a) an IF output to monitor tuner status and use in encoder, ghost canceling and video override applications, (b) a 4.5 MHz sub-carrier output, and (c) a broadband multiplex (MPX) output for high quality BTSC stereo pass-through. The D860 demodulator is shipped with all internal adjustments preset. The MACOM line is backed by an industry leading 5-year limited warranty.

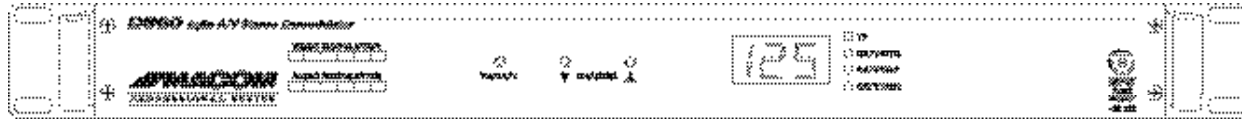
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D860

Product Specifications



Front Panel



Rear Panel

RF Input

Frequency Range:	5.75-806 MHz
CATV Channels:	T7-125
Broadcast Channels:	2-69
Level:	0-15 dBmV
Impedance:	75 ohms
Return Loss:	-18 dB

IF Output

Composite Level:	35 dBmV
Impedance:	75 Ohm

Video Output

Level:	.8-1.0 V p-p
Impedance:	75 Ohm
Differential Gain:	<2% typ
Differential Phase:	<1° typ
Chrom/ Lumin Delay:	±30 ns

Audio Output

Level:	.8-1.0 V p-p
Impedance:	600 Ohm

MPX Output

Level:	.8-1.0 V p-p
Format:	BTSC
Impedance:	600 Ohm

4.5 MHz Output

Level:	35dBmV
Impedance:	75 Ohm

General

Power Input:	90-260 VAC, 12 W
Operating Temperature:	-10°C to 50°C
Dimensions:	19"(L) x 12"(D) x 1.75"(H)
Weight:	7.8 lbs.
Connectors:	RF & Video "F" type
Audio:	"F" type & Terminal strip

Ordering Information

D860 Agile A/V Stereo Demodulator

Related Products

EAS-12B Emergency Override System
A860 Agile Modulator
A860S Agile Stereo Modulator
F860-Channel Fixed Modulator
F860S-Channel Fixed Stereo Modulator
C860 Bi-Directional Combiner
L860 Bi-Directional Launch Amplifier
DSP806 HDTV Agile Channel Processor

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