

# DM-100

## UTILITY DEMODULATOR



The DM-100 is the perfect demodulator for utility applications in cable TV, industrial TV headends, trucks, presentation rooms, and more. A solid member of the Videotek demodulator family, the DM-100 has all the features demanded for basic demodulator applications.

The DM-100 accepts either Antenna or Cable TV RF inputs, and outputs both video and balanced BTSC stereo audio. The compact size of this unique product allows up to three DM-100 demodulators to be mounted side by side in only one rack unit of space... perfect where rackspace is a premium. The DM-100 has the special features needed for cable TV operation, such as a clear and positive front panel indication of unit operation and channel selected. A back panel switch allows for locking the DM-100 to all selected functions, including channel tuning, video and audio level, and stereo balance. Other functions include selection of channel fine tuning offsets and forced HRC tuning.

### Features

- Compact size - three demodulators in 1 RU
- Easy system power - 12 VDC operation, AC adapter included  
Multi unit and – 48 VDC power units available
- Front panel lock - set and forget
- BTSC Stereo decoder
- Clear front panel indication of channel selection - confirm operation at a glance
- Standards available: NTSC, PAL-M and NTSC-J

# DM-100 Utility Demodulator Specifications

## Tuner

Tuning Range	55.25 to 801.25 MHz
Connector	75Ω "F", female
Input range	-15 to +15 dBmV
Maximum Input Level	+30 dBmV
Channel Coverage	VHF Channels 2-13
UHF Channels	14-69
Cable Channels	2-99
Band Coverage	Low, Mid, High, Super, UHF
Detector	Synchronous

## Video

Video output	NTSC video output, sync negative 75Ω source terminated
Connector	75Ω BNC, female
Level	1V p-p, nominal into 75Ω load
Adjustment Range	±1.5 dB

## Audio

Audio Line Outputs	Balanced stereo (left and right)
Connector	2-piece terminal strip
Level	0 dBm, nominal
Adjustment Range	-16 dBm to +4 dBm
Audio Monitoring	Miniature stereo headphone jack, front panel, 32Ω

## Power

Input	12 VDC 120 VAC adapter included
Consumption	15 VA
Connection	Locking, center positive

## Environmental

Operating Temperature	0° to 50°C
Storage Temperature	-40° to 75°C
Humidity	90% maximum

## Mechanical Dimensions

Height	1.74" (4.4 cm)
Width	5.25" (13.3 cm)
Depth	9.9" (25.2 cm)
Weight	2.4 lb (1.1 kg) including AC adapter
Standard Accessories	Operation & Service Manual 90-264 VAC 50/60 Hz adapter

## Options

DM-100X	DM-100 without external power supply. Requires 12 VDC input or PS-120 or PS-48.
PS-120 (not shown)	Multiple Unit power supply. Will power up to 5 DM-100 units. Includes five power cables. 94-264 VAC 50/60 Hz input. 1/3 RU; can be mounted in dat-1 rackmount frame.
PS-48 (not shown)	-48 VDC power supply. Will power up to 5 DM-100 units. Includes five power cables. 1/3 RU; can be mounted in DAT-1 rackmount frame.
DAT-1	Rackmount frame. Accommodates any 3 Videotek self-contained modular units, including video and audio distribution and switching.
DM-100J	Changes the tuning frequency and channels plans for Standard M, Japan.

