



marantz®

MODIFICATION

The Daniel Technology model **MRC/SS** circuit provides three functions in one package. First, an efficient (low power drain) remote control allows the recorders to be started and stopped by computer logic, relay contacts, or a simple switch. In remote control stand-by the **MRC/SS** draws about 150 μ Amps, less power than the self-discharge of most batteries (about ten years) and in operation imposes a burden of less than one percent of normal battery life. A standard Marantz PMD-201 in remote stand-by will drain a fresh set of batteries in less than one day and a PMD-430 has no remote control facility at all.

The second function is a "Silent Stop" at the end of tape. A standard Marantz recorder has a solenoid which makes noise when it disengages the "Play" and "Record" keys at the end of a tape. In the event that the recorder is located near the subject of an investigation this noise could be heard. The **MRC/SS** not only disables the solenoid but also provides electronic shut-off to minimize power consumption and strain on the recorder and tape.

Finally, the **MRC/SS** provides power to the type of electret microphones which are widely used by law enforcement agencies. It is especially useful with the Daniel Technology model LV-7 microphones when used in motor vehicles, aircraft, or boats. In the PMD-201 and PMD-221 a modified version of the standard input connector is used and can be operated with these electret microphones or an ordinary dynamic microphone. The PMD-430 stereo recorder has a five pin DIN connector which will allow electret power, both microphone inputs, and remote control to all be connected with a single plug. This is particularly useful when an installation is pre-wired and only a short time is available to connect a recorder with fresh tape and batteries.

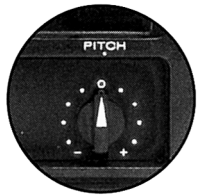
Half-speed modification of the PMD-430. Daniel Technology, through careful circuit modification and calibration is able to alter the operating speed of the tape to 15/16 inches per second while maintaining high recording quality. In conjunction with the dbx™ noise reduction system in the PMD-430 this option allows up to two hours of continuous recording with sound quality comparable to many other recorders operating at standard speed. A concise label on the top of the machine advises users of the special speed and how to achieve optimum performance.

Telephone input modification of PMD-201. The standard PMD-201 has an RJ-11 modular telephone jack which causes the phone line to go "Off hook" when the recorder is turned on. It can also cause audio signals to playback into the line. These characteristics are designed for applications other than law enforcement. This input circuit is changed so that it does **not** cause the line to go "Off hook" or be loaded in any way. Any possibility of feedback into the line is totally eliminated. The input impedance is 5 K Ω AC and greater than 10 M Ω DC. While advanced counter-measures equipment may detect the recorder on the line, this circuit is suitable for all consensual recording as well as many non-consensual installations where simple types or no counter-measures are encountered.

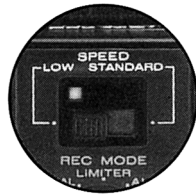
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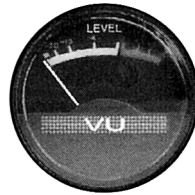
THE PMD LINE OF PORTABLE PROFESSIONAL CASSETTE RECORDERS



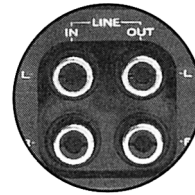
Variable Pitch Control



Half-speed Record and Playback*



Easy to read VU meters*



RCA line inputs and outputs



RJ-11 jack for telephone send and receive*

* Available on select models

P M D F E A T U R E S	P M D 1 0 1	P M D 2 0 1	P M D 2 2 1	P M D 2 2 2	P M D 4 3 0
GENERAL					
Stereo/Monaural	Mono	Mono	Mono	Mono	Stereo
Number of Heads	2	2	3	3	3
INPUTS / OUTPUTS					
Microphone Input Type	1/4"	Miniplug	Miniplug	Miniplug/XLR	1/4"
Left mic mono input (switchable)					•
Built-in condenser mic	•	•	•	•	
Remote jack		•	•	•	
Modular telephone jack		•	•	•	
External speaker jack		•	•	•	
RECORD CONTROLS					
VU meters		1	1	1	2
VU meter illumination					•
Two speed recording (1 7/8 ips and 15/16 ips)	•	•	•	•	
Dolby B noise reduction					•
dbx noise reduction					•
Microphone attenuation		0, -10dB, -20dB	0, -10dB, -20dB	0, -10dB, -20dB	0, -15dB, -30dB
Ambient Noise Control		•	•	•	
MPX filter					•
Manual level control		•	•	•	•
Limiter		•	•	•	•
Automatic level control	•	•	•	•	
Peak Indicator			•	•	
PLAYBACK CONTROLS					
Pitch control	± 20%	± 20%	± 20%	± 20%	± 6%
Bias fine adjustment					•
Tone control	•	•	•	•	
Half-speed playback (drops music one octave)	•	•	•	•	
Memory rewind			•	•	•
SPECIFICATIONS					
Frequency response (±3dB)					
Normal tape 1 7/8 ips	40Hz-12kHz	40Hz-12kHz	40Hz-12.5kHz	40Hz-12.5kHz	35Hz-14kHz
15/16 ips	40Hz-6kHz	40Hz-6kHz	40Hz-6.5kHz	40Hz-6.5kHz	
CrO2 tape 1 7/8 ips	40Hz-13.51kHz	40Hz-13.51kHz	40Hz-14kHz	40Hz-14kHz	35Hz-15kHz
15/16 ips	40Hz-7kHz	40Hz-7kHz	40Hz-7.5kHz	40Hz-7.5kHz	
Metal tape 1 7/8 ips	40Hz-14kHz	40Hz-14kHz	40Hz-15kHz	40Hz-15kHz	35Hz-17kHz
15/16 ips	40Hz-8kHz	40Hz-8kHz	40Hz-8.5kHz	40Hz-8.5kHz	
Signal to Noise Ratio					
NR off	57dB	57dB	57dB	57dB	50dB
Dolby B NR on					60dB
dbx NR on					75dB
Wow and Flutter (15/16 ips)					
	.12% (.15%)	.12% (.15%)	.12% (.15%)	.12% (.15%)	.10%
Dimensions					
	2"x 9"x 6 1/2"	2"x 9"x 6 1/2"	2"x 9"x 6 1/2"	2"x 9"x 6 1/2"	2"x 9"x 6 1/2"
Weight					
	2.9 lbs	2.9 lbs	2.9 lbs	2.9 lbs	2.9 lbs

STANDARD ACCESSORIES

Carrying Case

AC Adaptor

Optional Accessories Include: RB430 rechargeable battery pack, DA36 AC adaptor, CLC221 and WPC221 carry cases, and CA221 car power adaptor.



All PMD Portable Recorders feature: RCA line inputs/outputs • 1/4" headphone jack • Built-in speaker • Pause control • Audible cue and review • Tape counter • Full auto shut-off • Low battery indicator • Three standard D cell batteries provide up to 7 1/2 hours of remote operation, the optional RB430 rechargeable battery provides 5 1/2 hours.