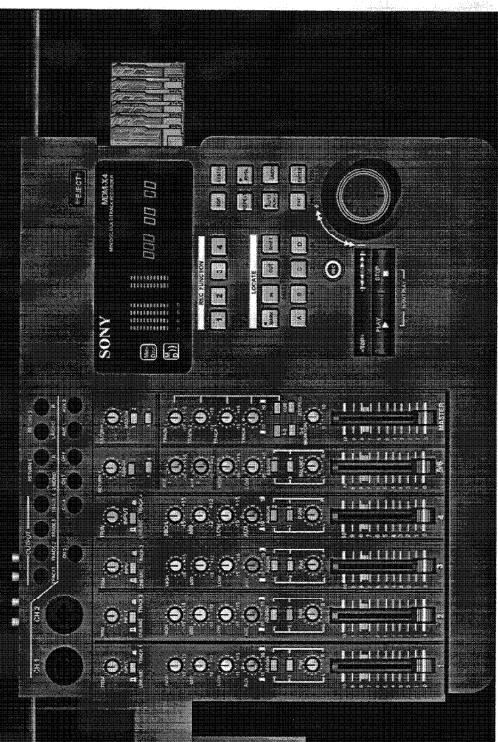
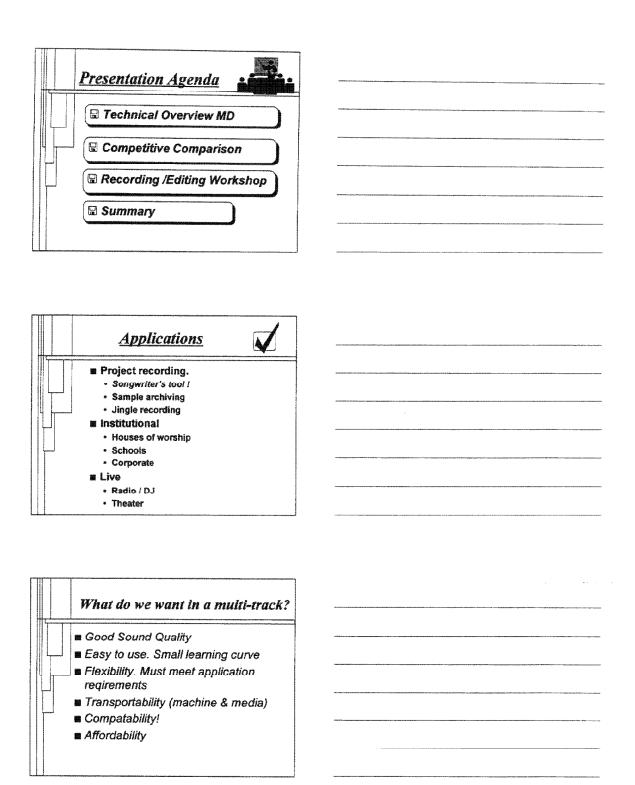
SONY MOMAX



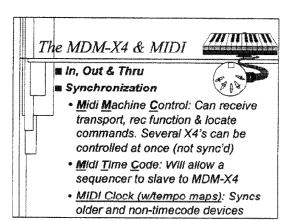


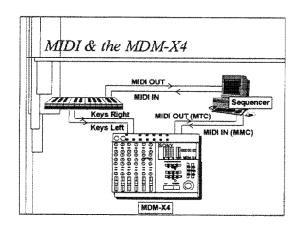
MD Overview	
■ 4 track mode: DATA MD only! 37 mins. rec time Cannot play on standard MD player Length of first track sets song length 1 & 2 track modes: 74 min recording time in stereo 148 mins. in mono Cannot change track format in Song once set Compatable with standard MD Rec/players	
	٦
MD Overview	
■ UTOC (User Table Of Contents) • 255 Indexes • Titles (7 characters ea.) • Editing • Tempo Maps	
X4: Operations Overview	
MIXER: • All (10) inputs bus assignable • Inputs always available for monitoring (stereo)	
Combo jacks accept XLR or TRS balanced mic or line signal Stereo fader does not effect record levels Low noise mic pre-amps w/buffer amps Low crosstalk design	
	W

X4: Operations Overview Menu's System: - Pitch: Can be toggled from fixed to varied. - MMC: Turns MIDI machine control on/off. - Sync: Selects MIDI time code or MIDI clock as sync. - SW 1 & 2: Assigns funcionality to foot-switch jacks. - Roll: Sets Reherse loop pre/post play time. - Rec: Sets track format to 1,2 or 4 track.

-Rehrs: Selects increase or decrease in level

after edit point.





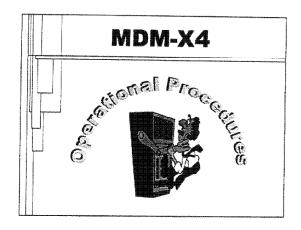
the COMPETITION

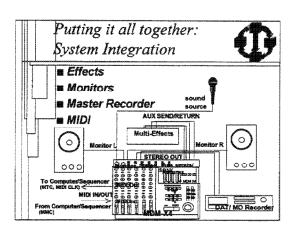
Competitive Con Existing Recording	
Pluses: ■ Cassette: • Affordable, portable. Easy to use ■ Tape-based Digital: • Good sound, low cost media. Expandable ■ Hard-Disc: • Good sound, editing flexibility, Becoming	Minuses: Cassette: Lower fidelity, speed, reliability Tape-based Digital: Tape reliability (?). Expensive howare. No editing. Access ? Hard-Disc: High media/ howare

	MD (+	/-)	
	Pluses: Good sound quality Media (R,R,R,A) Small learning curve Compatability Advantages over tape Viable cassette replacemant	■ Minuses: Can't be sync'd together Slower than HD No virtual tracking Non-linear audio No external back-up No digital mixing	

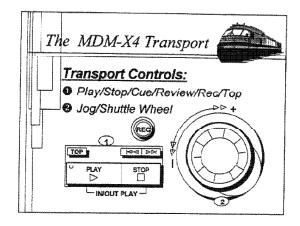
MD Overview	
ATRAC:	
(Adaptive TRansform Acoustic Coding)	A
Data compression is not a "bad" thing.	
Compression in other formats (DVD,	
workstations, Internet media)	
Psycho-acoustic model (dynamic	
masking)	
X4 uses ATRAC v3.5. (Encode only).	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
1/D)/(V/	
MDM-X4	
Industry Notes:	
■ Current high profile X4 user's:	
Laurence Juber (Paul McCartney)	
Davey Johnstone (Elton John)	
T. Lavitz (Dixie Dreggs)	
Diane Ponzio (Martin Guitars)	
Diano i Graio (ivaran Galano)	
[] C	•
<u>Competition</u>	According to a serification of white the life is being to the contract of the
■ Tascam 564 (ret. \$1499)	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
More mixer oriented features Digital output (?)	
• ATRAC v. 2.0	
Confusing layout Play-list style aditing	
NO track editing !	
■ - <u>Yamaha MD 4</u> (ret. \$1,199)	
Limited mixer features (No XLR's , 2nd aux, stereo fader)	
Limited MIDI functions (No MMC, MIDI in or thru)	
No Jog/shuffle No undo. Very limited track editing. ATRAC v. 2.0	
Standard MD compatability	

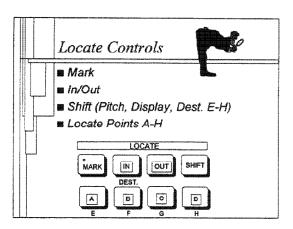
MDM-X4 Key Selling Points Targets the songwriter/pre-production markets (largest market) Combines advantages of other formats Build on success of MD format Growing consumer awareness · Over 40,000 MD multitracks units sold world-wide · Co-op dollars and promotions Training clinics Where to get more information: ■ Other training sessions ■ Magazine reviews (EQ, Mix, E.M., Recording) ■ Sony Website http://www.sony.com/proaudio ■ X4 literature & User's guide ■ Bob's E-mail: Bob_Tamburri@mail.sel.sony.com



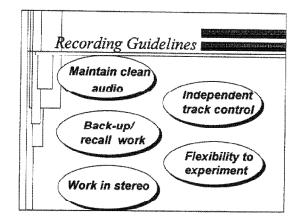


	Multi-Function Fluoresc Display	ent 88:88
8	Peak-reading levels Tracks 1- Absolute-time / Bar/beat count Song Number Track Rec Status Edit Function Status OLEP STATE STATE	ter





Edit Functions		
■ Edit ■ System	EDIT	SYSTEM
	1 2	RHSL
■ Auto-Punch	MINCH F	инро
■ Exit/Enter	NO NO	ENTER

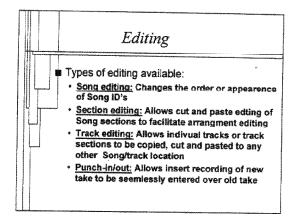


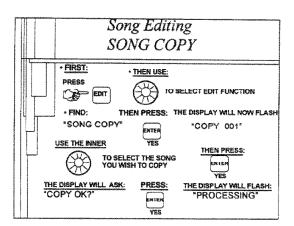
Recording Tracks: Operation similar to standard 4 track units: Select "New Song" (press "TOP" twice) Input signal (mic, guitar, keyboard)

- Adjust trim, fader, eq, etc. Assign to track bus (1-4)
- · Arm corresponding track (1-4)
- · Press Rec & Play. Begin Recording
- Record for full song time or a bit longer, as this sets song length format
- Tracks may be overwritten several times with no degradation of sound quality

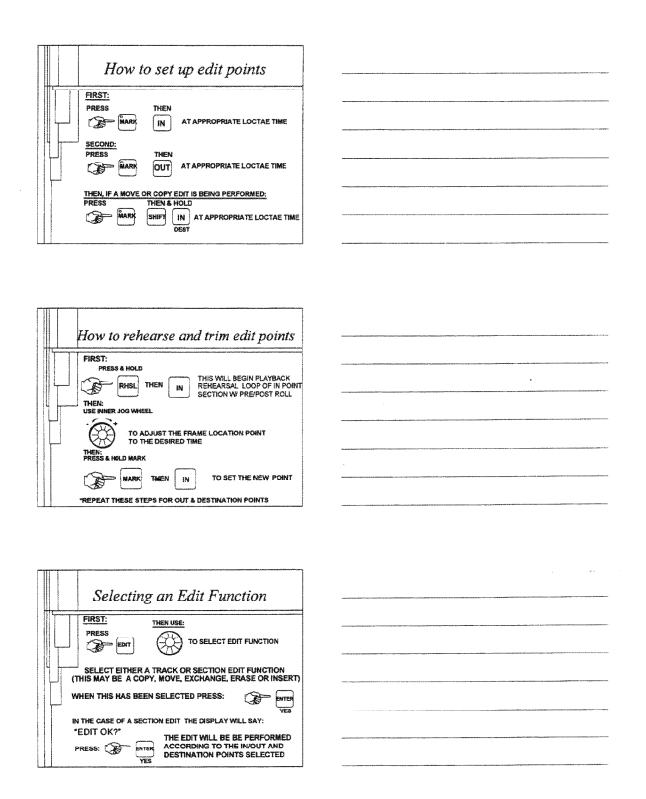
Mix-Write

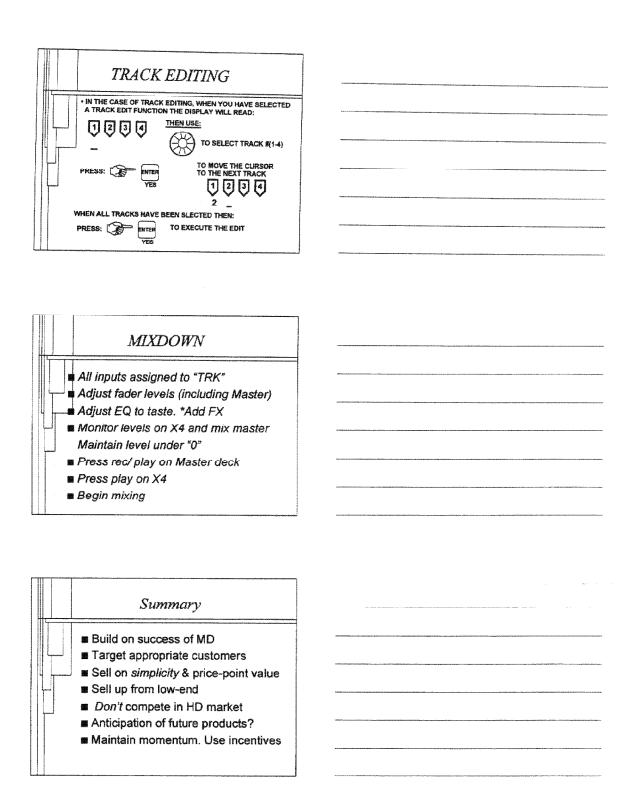
- Purpose of Mix-write:
 - To make room for more new tracks
 - To add effects to existing tracks
 - To record new information onto existing tracks
- All four tracks may be recorded before bouncing is performed (unlike analog where one track must be left open)
- Generation loss due to re-recording is negligible





*WHEN DONE, DISPLAY WILL FLASH: "SONG COPY" (THIS MEANS THE SONG HAS BEEN COPIED TO THE NEXT AVAILABLE SONG INDEX) - YOU HAVE NOW EXITED THE EDIT PAGE (*THE "UNIOO" BUTTON WILL NOW BE LIT TO INDICATE IT IS AVAILABLE *USE THE SONG SELECT BUTTON TO ADAVANCE TO THE COPIED SONG FILE PRESS PRESS PLAY *TO VERIFY THE COPY		SONG COPY (CONT'D)
	- USS ADA	(THIS MEANS THE SONG HAS BEEN COPIED TO THE NEXT AVAILABLE SONG INDEX) - YOU HAVE NOW EXITED THE EDIT PAGE (THE "UNDO" BUTTON WILL NOW BE LIT TO INDICATE IT IS AVAILABLE UNDO THE SONG SELECT BUTTON TO NOW:





MD Vs. Casset	te will	(0) (0,
	MiniDisc	**Cassett
Frequency Response	5hz-20khz	30hz-16khz
Wow & Flutter	unmeasurable	< 10 % RMS
THD(@1K)	<.01%	<3%
Signal to Noise	>94dB	>50dB (NR ou
Locate Time	Faster than CD	>60sec
Rec. Time	37min (4track)	22.5 min (C-90
Crosstalk	>85dB	>45dB
Non-linear Editing?	Yes	No
Cleaning Requir.?	No	Yes
Printthrough/Stretching	No	Yes
Wedia Cost	<\$15	<\$5 (C-90)

MDM-X	4 vs Oth	100	
MDM-X	4 VS (JIA		
		er MD	Yaran I
N. C.	18 Comics		
Maria de la compansión de		Yamaha MD4	SONY MDM-X4
Compat w/ stand, 2s MC's	Yes (Fley Uniy)	/69	p es
F of Song Index's Cata Compression used	2-1-2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		255
Fol XLR inputs	Yes (ATRAC)	Yes (ATRAC)	YES (4th gen. ATRAC
# of Aux sends	2 (2 fcts)	Q.	2
For UT michine inputs	4 (4 J43)		2 (1 pol)
# of Mereo inputs	•	0	4
# of hands FO	4. 3-mid suneri		
S Of Marso FX returns	зитна вимер)	597-199 B 199-199	**************************************
Song/Part editing?	Yes	Section 11 Statement	100 KW356-2.
Edit Jindo?	Yes	765	YES Yes
Track editing?	ndi saran mangalan na paga in	Yes (No lithe locate change)	105
Joy Shuttle?	Y66	No two miss levels consider	7ES
Large readable display?	N.	\$100.7	YES (w/ dimmer)
MYC/MIDI Clock	20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	V _{en}	YES (W. GIRRITHOT)
Tempo Maps?	Yes (30 per song)	Yes (20 per song)	YES (50 per nong)
MMC	Yes ("NO Track arming)	No.	(CO (SW per Bong)
Footewiichable?	THE I XI-RIC BYOUT	Yes (XI-lectivat)	YES (XZ-assignable
Pitch control?	+1-003	TORICAL STATE	*I-5 % (witogote-loc
Virtual Mixing	Yes Sounce forward	Yes	YES MIX-Write
# Auto-locate memories		4	44
Edil Rehearsal/Inm?	Yes (spoid report)	NA I	YES (w/Pre/post roll
Color soded controls	186		723
Suggested Retail Price	51,499	\$1.199	\$1.250

