Fast Trac II™

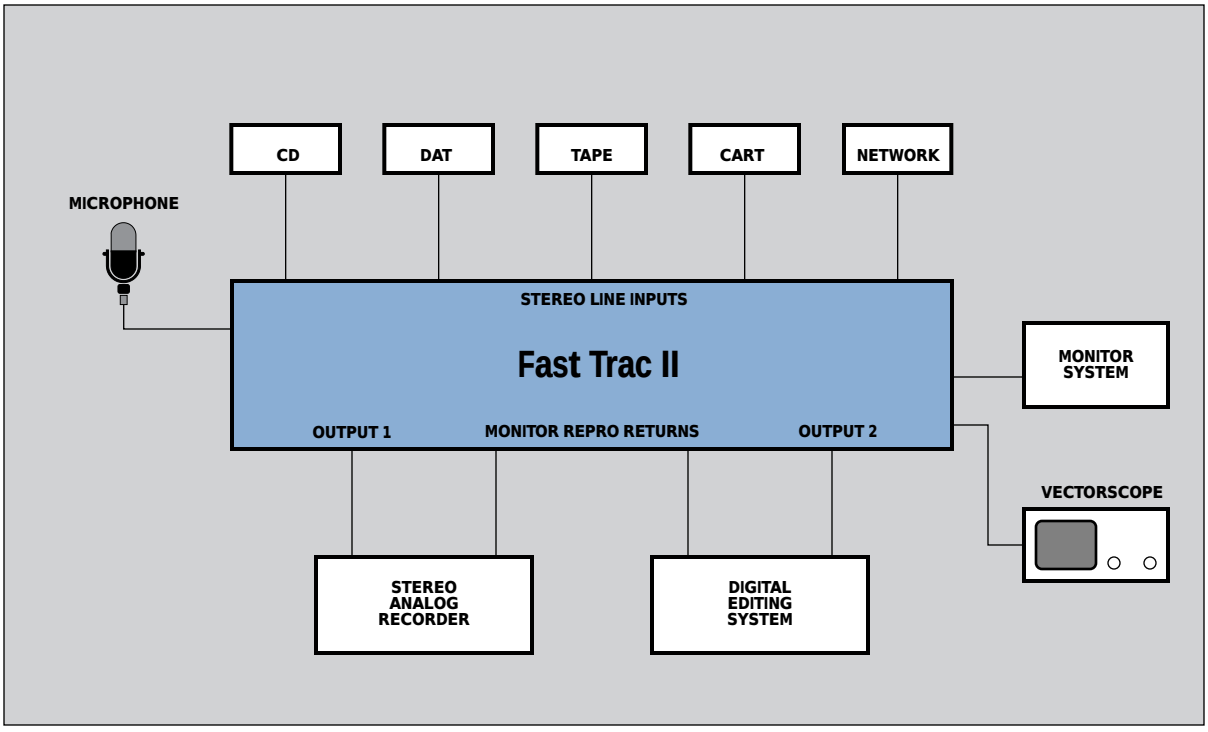
VOICE-OVER AUDIO WORKSTATION

Product Description

Fast Trac II is a comprehensive audio production system that is ideally suited for a wide range of broadcast and professional audio applications. It functions as a stereo switcher, audio mixer, utility dubbing center, voice-over recording system, compact production facility, or as the "control head" of a multi-track digital editing workstation.

Fast Trac II incorporates all of the functions of a typical audio mixing console: input selection, level and balance control, mic-over-line mixing, and complete monitoring. Additional features make Fast Trac II perfect for specialized broadcast production tasks. Automatic "ducking" permits efficient voice-over recording. The timed auto-start Machine Control System for source and recording equipment creates perfectly cued dubs reliably with one button ease.

Typical Application



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REV A 1993

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Functional Description

Fast Trac II is a comprehensive 7-input, 2-channel stereo mixing console. There are six inputs for stereo line-level sources, and one monaural microphone input. Mic audio can be mixed over any stereo Line source selected.

Any of five Line sources can be selected using the front panel **INPUT SELECT** pushbuttons; the sixth Line input is accessible via the front panel **EXT INPUT** jack. The audio level of the selected Line souce is controlled with the **LINE GAIN** control. The stereo balance of the source can be adjusted using the **BALANCE** control, which can be defeated if it is not needed. The Mic audio level is controlled with the **MIC GAIN** control. Mic audio is switched on and off with the **MIC** button, which also activates monitor muting. This button can also engage the automatic "ducking" function, which reduces Line audio to a predetermined (user adjusted) level when the mic is **ON**. The ducking function can be defeated if it is not needed.

Two individual "**Processor Loops**" are provided to permit the user to insert outboard processing equipment into the Line and/or Mic audio channels. Line channel processing can be switched in or out using the front panel **PROC IN/OUT** button. The **OUTPUT** buttons permit the Fast Trac II to operate in Stereo or in three modes of mono; Left-only, Right-only, or L+R combined.

Fast Trac II is ideally suited for critical dubbing and production tasks. It's monitor facilities are comprehensive and specifically designed with emphasis on quality control. Using the **LINE/REPRO** and **REPRO-1/REPRO-2** monitor modes buttons, the system's main stereo output can be monitored, as well as audio from two stereo "returns." This permits monitoring audio quality during the recording process, or monitoring audio from an external source(s).
The monitor signal can be combined to mono using the **MONO** button to check for phase cancellation while recording in stereo. **A SCOPE** output is provided for use with a vectorscope for accurate phase indication. The **MONITOR LEVEL** control adjusts the monitor audio level. There are additional outputs to drive an announce booth monitor and headphones.

The most unique feature of Fast Trac II is it's timed auto-start Machine Control System. When used in a dubbing application, Fast Trac II will automatically start both the source machine and the recorder at the appropriate times to ensure perfectly-cued dubs with one-button ease. The timing can be adjusted so that the recorder starts either *before or after* the source, to compensate for any pre-roll requirements of *either* machine. This timing is individually adjustable for each Line source; when a source is selected, the timing for that source is switched in automatically. When Fast Trac II's **START** button is depressed, the auto-start sequence begins, controlling the source machine and recorder according to user-programmed timing.

Technical Specifications

INPUTS

Line, Repro return	-10 to +8 dBm, gain adj for each source Stereo, 20K balanced, 10K unbalanced
External Line	0 dBm, 20K unbalanced, front panel jack
Microphone	-60 to -40 dBm, gain adj, 5K balanced
Talkback	0 dBm, 3K unbalanced

OUTPUTS

Main (L, R, and Mono)	+4 dBm nom, +26 dBm max, bal
Main Monitor	0 dBm nom, +20 dBm max, unbal
Studio Monitor/Scope	0 dBm nom (fixed), 3K unbal

PROCESS LOOPS

Microphone	Output:	-10 dBm, 3K unbal
	Return:	-10 dBm, 10K unbal
Line	Output:	0 dBm, 3K unbal
	Return:	0 dBm, 10K unbal
Headphone	0 dBm nom, +20 dBm max, 200 ohm unbal	

CONTROL LOGIC

Mic ON/OFF	Momentary closure to ground
Mic Tally	Open collector to ground when Mic is ON
Mic Ducking	Adj, 0 dB to -14 dB
Machine Control	N.O. contacts, momentary to start
Timer Reset	N.O. contacts, momentary at start

AUDIO PERFORMANCE

Frequency Response	10 Hz to 30 kHz, ±0.25 dB
Distortion	Less than .02% THD/IMD
Noise Floor	86 dB below nominal output level, typ
Headroom	20 dB
Dynamic Range	108 dB
Equivalent Digital Resolution	18-Bit

Power Requirements	115/230VAC, 50/60Hz, 12 W
Physical	1.75"h x 19.00"w x 12.00"d 8 lbs
Connectors	9 and 15 pin "D" type, all connectors supplied

Technical specifications subject to change without notice.

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