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Overview

The intuitive TouchFlow Operation™ interface is optimized for touch-panel control and provides an easy-to-use digital mixing console environment for a broad spectrum of users and uses. The TF1 Digital Mixing Console features a 16 + 1 fader configuration in a compact rack-mountable unit.





Rear Panel

Features

- 16 + 1 fader configuration
- Input channels: 32 mono, 2 stereo, 2 return.
- Busses: 20 Aux (8 mono, 6 stereo), Stereo, Sub, 4 matrix.
- · Local I/O: 16 mic/line + 2 stereo line in, 16 out.
- Recallable "D-PRE™" Microphone Preamplifiers provide an ideal sonic foundation.
- · Intuitive user interface optimized for touch panel operation.
- · Traditional Overview and Selected Channel Interfaces
- "1-knob COMP™" & 1-knob EQ™ make it easy to dial in the ideal sound.
- "QuickPro Presets™" provide instant access to pro sound setups.
- "GainFinder™" supports precision gain setup
- · "DCA Roll-out" enhances group control.
- "SENDS ON FADER" buttons instantly bring the specified AUX or FX bus levels up on the faders for easy verification and adjustment.
- Seamlessly integrated remote control and offline editing via an Apple iPad® or other computing device.
- · Direct 2-track recording to USB storage devices, or serious multitrack recording to a DAW via USB.
- · Multitrack recordings can be used for "virtual sound checks" when performers aren't available.
- 1 expansion slot for NY64-D audio interface card
- Other features: 8 Powerful Processing/Effect Units, User Defined Knobs, User Defined Keys, 8 DCA groups, and more.



Specifications 1/2

Functional Specifications

	Input Mixing Channels	32 mono + 2 stereo + 2 return		
	Mix Buses	20		
	Matrices	4		
Mixing Capacity	Stereo Buses	1		
	Mono Buses	1		
	FX Buses	2		
	Cue Bus	1		
	Analog Input	16 mic/line + 2 stereo line		
	Analog Output	16		
	NY Slots	1		
	Word Clock I/O	No		
	MIDI I/O	No		
	USB for File Save/	1		
Local	Load			
Connectors	USB for 2 Track Rec/Play	1		
	USB for Multitrack			
	Rec/Play to/from PC	1		
	Ethernet	Yes		
	Foot Switch	Yes		
	Phones	1		
	AC Inlet	1		
	Number of Scenes	200		
	Recall Safe	Yes		
	Focus Recall	No		
	Fade Time	No		
Soona Mamary		No		
Scene Memory	Preview Selective Load			
	/ Save	No		
	Global Paste	No		
	Tactile Control Keys	No (on-screen)		
	Gain Compensation	No		
	Digital Gain	Yes (-24dB~ +10dB)		
	HPF	20Hz ~ 600Hz		
	PEQ	4 Band Full PEQ		
	Dynamics 1	Gate		
Input Channel	Dynamics 2	Comp		
Functions	Input Delay	No		
	Pan	Center Nominal		
	DCA Group	8 (Input DCA)		
	DCA Rollout	Yes (Unscrollable)		
	Number of Inserts	0		
	Direct Out	Yes		
	Quick Pro Preset	Yes		
	PEQ	4 Band Full PEQ		
Output Channel	GEQ	Yes		
Functions	Dynamics 1	Compressor		
	Output Channel Delay	No		
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Output Channel	Number of Inserts	0 (Insert Effect on AUX 9/10-19/20)		
Functions	Quick Pro Preset	Yes		
T dilotiono	Number of FXs	2 for Input Channels + 6 for AUX 9/10-19/20		
FX	Number of FX Programs	20		
GEQ	Available Channels	Stereo, AUX1-8		
	Number of I/O Channels	32 in / 24 out (with NY64-D)		
Dante	Dante Patch from Console	No		
	USB Memory	_		
Recording	Recording	Yes		
recording	DVS Recording	Yes (Nuendo Live bundled)		
	5.1 Surround Panning	No		
Broadcast	Surround Monitor	No		
Functions	Mix Minus	No		
	L-Mono / R-Mono / LR-Mono	No		
Monitor	Solo Mode	No		
	Oscillator	Sine Wave / Pink Noise / Burst Noise		
	Port to Port	No		
	GPI/MIDI	No		
	Wireless Mic Monitoring	No		
Other Functions		Yes		
	Output Port Delay	No		
	Cascade	No		
	User Level	Yes		
	Help File	Yes		
	Display	7 inch Touch Panel		
	Faders	16+1		
	Channel Encoder	No		
	Channel Name / Color Display	Yes		
	Custom Fader Banks	Yes		
User Interface	User Defined Keys	6		
	User Defined Knobs	4		
	Touch and Turn Knob	Yes		
	Monitor Level Knob	Yes (by User Difined Knob)		
	iPad Stay	No		
	Rack-mounting	Yes		
	Editor	TF Editor		
	StageMix	TF StageMix		
Software	MonitorMix	Yes		
Guitwale	Nuendo Live: Control integration	No		
	Console File Converter	No		



Specifications 2/2

General Specifications

Sampling Internal		48 kHz			
		Less than 2.6 ms, INPUT to OMNI OUT, Fs=48 kHz			
Fader		100 mm motorized, Resolution = 10-bit, +10 dB to –138 dB, $-\infty$ dB all faders			
Total harmonic o	distortion	Less than 0.05% 20 Hz–20 kHz @+4 dBu into 600 Ω , INPUT to OMNI OUT, Input Gain=Min. (Measured with a -18 dB/octave filter@80 kHz)			
Frequency response	onse	+0.5, -1.5 dB 20 Hz-20 kHz, refer to +4 dBu output @1kHz, INPUT to OMNI OUT			
Dynamic range		110 dB typ., DA Converter, 107 dB typ., INPUT to OMNI OUT, Input Gain=Min.			
Hum & noise	Equivalent input noise	–128 dBu typ., Input Gain=Max. (Measured with an A-Weight filter)			
level	Residual output noise	-85 dBu, ST master off (Measured with an A-Weight filter)			
Crosstalk		-100 dB (Measured with a -30 dB/octave filter@22 kHz), adjacent INPUT/OMNI OUT channels, Input Gain=Min.			
Power requireme	ents	100–240 V 50/60 Hz			
Power consump	tion	100 W			
Dimensions (W	x H x D)	510 mm x 225 mm x 599 mm (20.1" x 8.9" x 23.6")			
Net weight		13.5 kg (29.8 lbs)			
Accessories		Quick Guide, Power Cord, Nuendo Live			
Options		Rack-mount Kit RK5014, Expansion Card, Foot Switch (FC5)			
Others		Operating temperature range: 0–40 °C, Storage temperature range: -20–60 °C			

Analog Output Characteristics

	Output	Source	For Use With	Output Level			Balanced /
	Terminals	Impedance	Nominal	Nominal	Max. before clip	Connector	Unbalanced
•	OMNI OUT				+24dBu	XLR-3-32	
	1-16	75Ω	600 Lines	(1.23 V)	(12.3 V)	type*1	Balanced
,	PHONES*5	100Ω	40 Phones	3mW	75mW	Stereo Phone Jack (TRS)*2	Unbalanced

^{*1 1:} GND,2: HOT, 3: COLD

Digital Input/Output Specifications

Terminals	Format	Data length		Connector
USB (TO HOST) USB			34ch input / 34ch output, PCM	
iPad	USB		Playback: MP3 or WAV file data / Record: WAV file data	USB (A type)

Control I/O Specifications

Terminals	Format	Level	Connector
NETWORK	IEEE802.3	10BASE-T/100Base-TX	RJ-45
FOOT SW	_	_	TS Phone

Analog Input Characteristics

Input		Load	For Use With	Input Level				Balanced /
Terminals	GAIN	Impedance	Nominal	Sensitivity*1	Nominal	Max. before clip	Connector	Unbalanced
INDUT	.0040			-82dBu	-62dBu	-42dBu	Combo Jack	,
INPUT	+6608		50-600 Mics	(61.6µV)	(0.616mV)	(6.16mV)	(XLR-3-31	
1-16		7.5K Ω	or 600 Lines	-10dBu	+10dBu	+30dBu	type ₂ or TRS	Balanced
(TF1)	-6dB			(245mV)	(2.45V)	(24.5V)	phone∗3)	
ST IN				-30dBV	-10dBV	+10dBV	RCA Pin	
1,2		10k	600 Lines	(31.6µV)	(316mV)	(3.16V)	Jack	Unbalanced

^{*1} Sensitivity is the lowest level that will produce an output of +4dBu (1.23V) or the nominal output level when the unit is set to maximum gain. (All faders and level controls are at maximum position.)

^{*2} Tip: LEFT, Ring: RIGHT, Sleeve: GND

^{*3} In these specifications, 0dBu = 0.775Vrms.

^{*4} All output DA converters are 24bit, 128times oversampling.

^{*5} The position of the level control is lowered by 16dB from the maximum.

^{*2 1:} GND, 2: HOT, 3: COLD

^{*3} Tip: HOT, Ring: COLD, Sleeve: GND

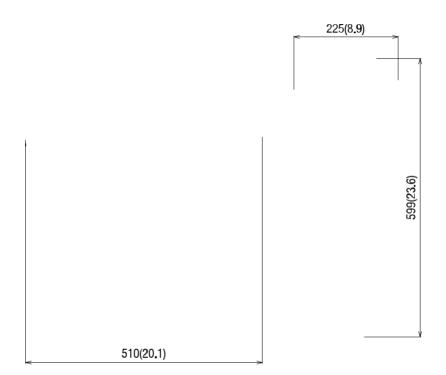
 $^{^*4}$ In these specifications, 0dBu = 0.775Vrms.

^{*5 +48}V DC (phantom power) can be supplied to INPUT XLR type connectors via each individual software controlled switch.

Dimensions

Unit: mm (inch)

.



Options

- Rack Mount Kit
- I/O Rack
- Dante Interface Card

• Foot Switch

RK5014

Tio1608-D

NY64-D

FC5

Software

- TF Editor
- TF StageMix
- MonitorMix
- Steinberg Nuendo Live

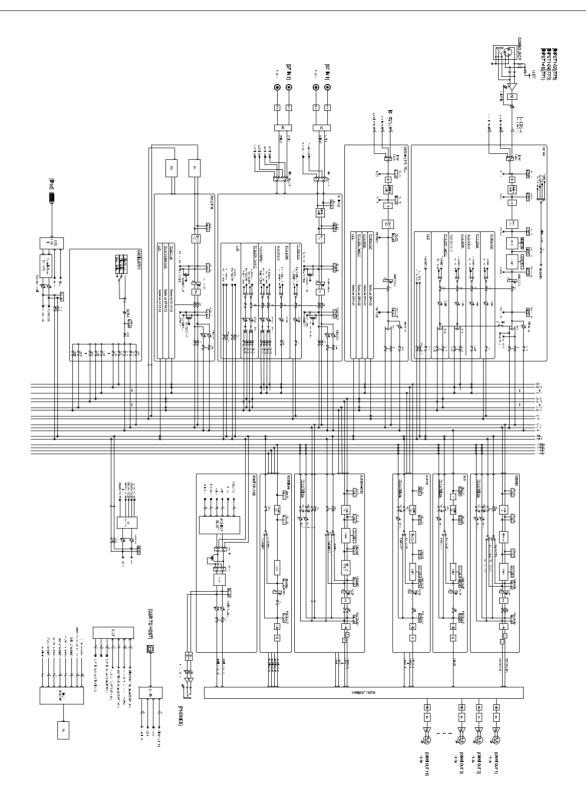


Architectural and Engineering Specifications

The Yamaha TF1 Digital Mixing Console shall feature an intuitive TouchFlow Operation™ interface that is optimized for touch-panel control. It shall be an easy-to-use, compact, rack-mountable digital mixing consoles. With 16 + 1 faders it shall provide a mixing capacity of up to 32 mono and 2 stereo inputs, 2 returns, 20 auxiliary buses, and 4 matrix buses. It shall include recallable class-A D-PRE microphone preamplifiers, 1-knob COMP compression, and 1-knob EQ equalization facilities. For optimum live-sound workflow it shall include 8 powerful effect processors, and Flex12 EQ that allows up to 12 of 31 available EQ bands to be applied to the main L/R bus and auxiliary buses 1 through 8. The mixing console shall be compatible with TF Editor, TF StageMix, MonitorMix, and other Yamaha support software running on external computing devices. Physical controllers other than faders shall include Touch and Turn knobs and, 6 User Defined Keys, and 4 User Defined Knobs. Local I/O shall include 16 microphone/line and 2 stereo line inputs, plus 16 line outputs. An optional NY64-D Dante I/O card shall provide Dante connectivity with the Tio1608-D I/O rack unit. Dimensions shall be 510 (W) x 225 (H) x 599 (D) mm. Weight shall be 13.5 kg.



Block Diagrams



^{*}All information subject to change without notice.

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