YAMAHA

DIGITAL MIXER
TF-RACK

Groundbreaking TF Series
TouchFlow Operation™ in Rack-mount Form

TF-RACK is a compact rack-mount version of the TF Series digital mixing consoles, offering the same levels of performance and groundbreaking operability.
This space-saving model is accessible to a wide range of users, from beginners to seasoned engineers.

- 40 input mixing channels (32 mono + 2 stereo + 2 return)
- 20 AUX buses (8 mono + 6 stereo) + stereo + sub • 8 DCA groups with Roll-out
- 16 analog XLR/TRS combo mic/line inputs + 1 analog RCA pin stereo line inputs
- 8 analog XLR outputs + 8 analog TRS outputs
- 34 x 34 digital record/playback channels via USB 2.0 + 2 x 2 via a USB storage device
- 1 expansion slot for NY64-D audio interface card

■ FRONT

■ REAR

16 Mic/Line + 1 Stereo Line Input, 16 Outputs. Intuitive and Smooth All-in-One Rack-Style Digital Mixer

TF-RACK offers all-in-one mixing and processing capability for small to medium scale live sound, corporate speech events, installations, and much more. It packs an intuitive user interface, natural control flow, digital effects/processing units and many shortcuts to a great sound into a compact, portable rack-style unit.
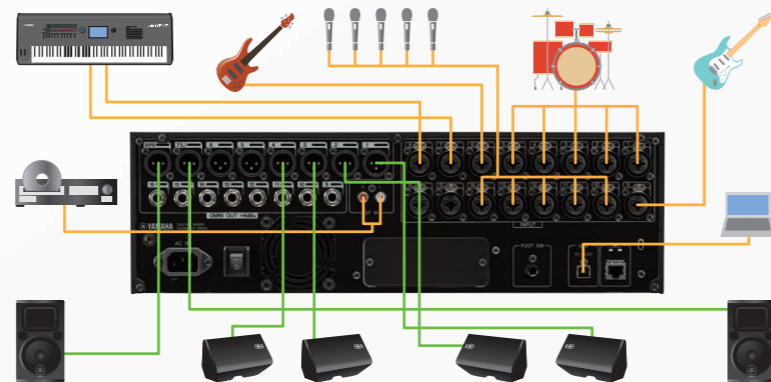
Applications that Work Seamlessly with the Console

Separate software applications that allow wireless mixing, personal monitor mixing, or offline setup of digital live mixing consoles have become fairly common. The TF series goes a step further with three dedicated apps – TF Editor, TF StageMix, and MonitorMix – that feature user interfaces that seamlessly extend the console's own on any device.

StageMix   TF Editor   MonitorMix
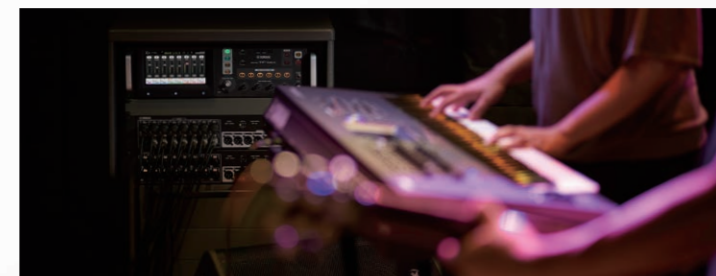
Natural Sound Foundation with Extra Creative Freedom

Faithful reproduction of the sound is the foundation, then creativity can take over. The TF-RACK features acclaimed D-PRE™ microphone preamplifiers that not only deliver outstanding quality, but are recallable as well. That solid sonic foundation is backed up by an updated selection of high-performance processors and effects. Input and output channel processors such as EQ, gates, and compressors are complemented by eight processors that provide a broad spectrum of creative capabilities.

Intuitive User Interface Optimized for Touch Panel Operation

Allowing most operations to be carried out via the touch panel alone, the innovative TF series interface will quickly become second nature to a broad spectrum of users. Along with the fast and accurate gain setup feature "GainFinder™", shortcuts to great sound "QuickPro Presets™" and so on, TF series will lead you to the desired results quickly and effortlessly through a smooth, efficient workflow.

Two Scene Memory Banks	GainFinder™
1-knob COMP™	QuickPro Presets™
1-knob EQ™	

Specifications

General Specifications

Fader Configuration		
Mixing Capacity	Input Channels	40 (32 mono + 2 stereo + 2 return)
	Main Buses	Stereo + Sub
	Aux Buses	20 (8 mono + 6 stereo)
	Groups	8 DCA Groups
I/O Connectors	Inputs	16 mic/line (XLR/TRS combo) + 1 stereo line (RCA pin)
	Outputs	16 (8 XLR + 8 TRS phone)
	Expansion Slot	1 (for NY64-D)
Signal Processors		8 Effects + 10 GEQ
Recording/Playback	PC/Mac (USB2.0)	Recording:34-track / Playback:34-track
	USB Storage Device	Recording: 2-track (USB HDD/SSD) Playback: 2-track(USB HDD/SSD/Flash memory)
Sampling Frequency	Internal Clock	48 kHz
Signal Delays		Less than 2.6 ms, INPUT to OMNI OUT, Fs=48 kHz
Fader		Resolution = 10-bit, +10 dB to −138 dB, −∞ dB all faders
Frequency Response		+0.5, −1.5 dB 20 Hz–20 kHz, refer to +4 dBu output @1kHz, INPUT to OMNI OUT
Total Harmonic Distortion[2]		Less than 0.05% 20 Hz–20 kHz @+4 dBu into 600 Ω, INPUT to OMNI OUT, Input Gain=Min.
Hum & Noise[3]		−128 dBu typ., Equivalent Input Noise, Input Gain=Max., −85 dBu, Residual output noise, ST master off
Dynamic Range		110 dB typ., DA Converter, 108 dB typ., INPUT to OMNI OUT, Input Gain=Min.
Crosstalk@1 kHz		−100 dB[1], adjacent INPUT/OMNI OUT channels, Input Gain=Min.
Dimensions (W x H x D)		480 mm x 132 mm x 409 mm (18 7/8 in x 5 1/4 in x 16 1/8 in)
Net Weight		9.2kg (20.3 lb)
Power Requirements (wattage)		85 W
Power Requirements (voltage and hertz)		100–240 V 50/60 Hz
Temperature Range		Operating temperature range: 0–40 °C / Storage temperature range: -20–60 °C
Included Accessories		Quick Guide, Power Cord, NUENDO LIVE (DAW Software), Rubberstoppers (4)
Options		Audio Interface Card (NY-64D), Foot Switch (FC5)

*1 Crosstalk is measured with a −30 dB/octave filter@22 kHz.
*2 Total Harmonic Distortion is measured with a −18 dB/octave filter@80 kHz.
*3 Hum & Noise are measured with an A-Weight filter.

Analog input characteristics

Input Terminals	GAIN	Load Impedance	For Use With Nominal	Input Level			Connector	balanced / Unbalanced
				Sensitivity[1]	Nominal	Max. before clip		
INPUT1-16	+66dB	7.5kΩ	50-600Ω Mics or 600Ω Lines	-82dBu (61.6μV)	-62dBu (0.616mV)	-42dBu (6.16mV)	Combo Jack(XLR-3-31 type[2] or TRS phone[3])	Balanced
	-6dB			-10dBu (245mV)	+10dBu (2.45V)	+30dBu (24.5V)		
ST IN 1,2		10kΩ	600Ω Lines	-30dBV (31.6μV)	-10dBV (316mV)	+10dBV (3.16V)	RCA Pin 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. 1: GND, 2: HOT, 3: COLD
*3. Tip: HOT, Ring: COLD, Sleeve: GND *4. In these specifications, 0dBu = 0.775Vrms.
*5. +48V DC (phantom power) can be supplied to INPUT XLR type connectors via each individual software controlled switch.

Analog output characteristics

Output Terminals	Source Impedance	For Use With Nominal	Output Level		Connector	balanced / Unbalanced
			Nominal	Max. before clip		
OMNI OUT 1-8	75Ω	600Ω Lines	+4dBu (1.23 V)	+24dBu (12.3 V)	XLR-3-32 type[1]	Balanced
OMNI OUT 9-16					Stereo Phone Jack (TRS)[6]	
PHONES [5]	100Ω	40Ω Phones	3mW	75mW	Stereo Phone Jack (TRS)[2]	Unbalanced

*1. 1: GND, 2: HOT, 3: COLD *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. *6. Tip: HOT, Ring: COLD, Sleeve: GND
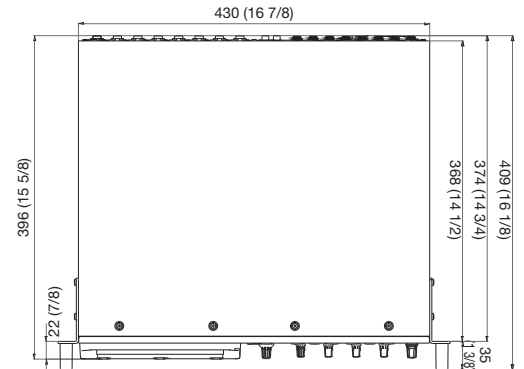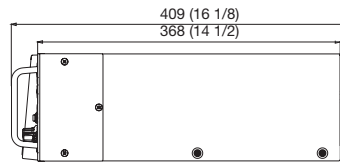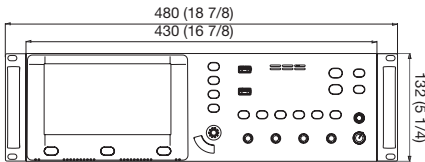
Digital input/output specifications

Terminal	Format	Data length	Audio	Connector
USB (TO HOST)	USB	24bit	34ch input / 34ch output, PCM	USB (B type)
iPad	USB	—	Playback: MP3 or WAV file data Record: WAV file data	USB (A type)

Control I/O specifications

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

Dimensions

480 (18 7/8)
430 (16 7/8)
132 (5 1/4)

409 (16 1/8)
368 (14 1/2)

430 (16 7/8)
396 (15 5/8)
22 (7/8)
409 (16 1/8)
374 (14 3/4)
368 (14 1/2)
35 3/8

mm (inch)

Option

I/O Rack **Tio1608-D**	Dante expansion card **NY64-D**	Foot Switch **FC5**

*All specifications are subject to change without notice.
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