

YAMAHA

TMX

DRUM TRIGGER MODULE

EP75/KP75

ELECTRONIC PERCUSSION PADS



An Advanced Drum Trigger Interface & Stim

Electronic drums have come a long way in terms of both sound and performance since the earliest models. Until now, however, a significant gap between the physical world of live drums and their electronic counterparts has remained. The Yamaha TMX Drum Trigger Module brings technology and the drummer closer together than ever before with unprecedented response and playability, stunning sound quality, and a design that emphasizes playing rather than programming. It integrates an advanced 12-input trigger-to-MIDI interface with a state-of-the-art percussion tone generator in one compact, convenient module. All this has been achieved because Yamaha has a distinct advantage when it comes to creating advanced electronic drums: we're already recognized as a maker of some of the finest acoustic drums in the world — designed for drummers by drummers. We know what drummers want, and we have the resources to meet their needs.

If you've been disappointed or confused by electronic drums in the past, see your Yamaha dealer and try out the TMX Drum Trigger Module. You'll agree that it sounds great and is a pure joy to play — and that it's time to add expressive electronic drums and percussion samples to your musical palette.

■ 12-input/4-output Configuration

The Yamaha TMX Drum Trigger Module gives you a 12-input/4-output drum trigger interface plus a top-quality 245-voice percussion tone generator in a single rack space. 12 inputs gives you plenty of capacity to handle even sophisticated drum and pad setups, while 4 outputs — two main and two auxiliary — offer extended output processing capability. Each TMX voice can be individually assigned to the main or auxiliary outputs so you can easily assign specific instruments for external volume control, equalization, and signal processing.

■ Clean, Powerful Percussion Sound

The TMX Drum Trigger Module has 245 outstanding percussion sounds built right in — from realistic acoustic drum voices to exciting processed sounds and electronic percussion effects. Yamaha's AWM2 (2nd-generation Advanced Wave Memory) tone generator system delivers extraordinary sound quality — clean, vibrant, and true-to-life. The TMX tone generator also features 16-note maximum polyphony so you'll never lose notes, and there's plenty of capacity to handle even complex sequenced passages. You can easily assign any voice to any input, and voices can be stacked so you can trigger any two simultaneously from a single input.

■ Wide-ranging Sound Modification Capability

The TMX Drum Trigger Module actually gives you more than 245 voices. A pitch parameter lets you shift the pitch

Front Panel



Rear Panel



Programming Percussion Sound In One Easy-to-Use M

of each voice up or down by as much as 700 cents (100 cents equals one semitone), and a "modify" parameter can be used to change the timbre of most voices. If one of the preset sounds doesn't quite meet your needs, simply modify one to create precisely the effect your music demands. Other voice editing parameters are provided for volume, panning, output assignment, and alternate group assignment control.

```
NOTE  PITCH  MOD
036   000#   5
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Easy Setup & Programming

We know you'd rather play than program, so the TMX module comes with 25 pre-programmed drum kits for you to enjoy "right out of the box". All of the sound and sensitivity settings are adjusted for pads and/or acoustic drum set-ups. If you want to create your own kit, however, we've made the TMX Drum Trigger Module extra easy to set up and program. For example, to set the optimum trigger sensitivity for a specific drum or pad, simply select the Auto Setup feature and play the drum or pad three times. The TMX automatically sets the ideal sensitivity for you. Of course, fine adjustment capability is also provided if you want to "tweak" the parameters more for perfect response.

For fast, easy programming the TMX module features a "ZAP" key that takes you directly to the voice pitch and modify parameters. What's more, playing the drum or pad you want to program instantly selects the parameters for that instrument. Programming couldn't be easier: press ZAP, play an instrument, set the para-

meters as required, then press ZAP again to go back to where you started.

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IN-01  AUTO SET
Pg4    OFF
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Memory for 32 Performance Setups

The TMX Drum Trigger Module can store 32 "performance setups." Each performance setup includes the voice assignments for 61 MIDI note numbers — including the voice assignments for each of the 12 inputs — and the sensitivity settings for each input. You can easily create 32 different drum and percussion "kits" for different songs or sets during a performance, and then select them as required using the Song Chain mode.

```
PERF 01: ROCK
```

Superior Response & Playability

Any delay — even a few milliseconds — between the time you strike a drum and the time you hear the sound can make playing difficult. Unfortunately, many drum trigger modules suffer from this problem. In the TMX Drum Trigger Module we've taken every possible measure to reduce processing times as much as possible. The result is extremely fast tracking that makes playing natural and easy. The TMX module also features a remarkably wide dynamic range that lets you go from delicate taps to powerful back beats without losing even the subtlest dynamic nuances.

Since the TMX module is likely to be used with a wide range of trigger sources — pads and all types of acoustic drums — it includes a range of selectable response curves and false triggering rejection parameters so you'll get the cleanest possible response with any source.

```
IN-01  CURVE
Pg3    ↗
```

Velocity Range Control

When using acoustic drums to trigger the TMX module, this advanced feature lets you combine the acoustic and electronic drum sounds in the most effective way. Instead of simply having the TMX module produce sound simultaneously with the triggering acoustic drum, you can set a specific velocity level at which the TMX sound will begin to appear. This means that when you play softly only the acoustic drum will be heard. But then, as you play harder, the TMX sound will come in to augment the acoustic sound.

```
IN-01  VELOCITY
Pg7    050-127
```

Versatile MIDI Control

In addition to being triggered from acoustic drums or pads, the TMX Drum Trigger Module can be driven from just about any MIDI sequencer. In fact, its outstanding sound quality makes it an excellent dedicated drum and percussion tone generator for any serious MIDI music system. Of course you can also combine MIDI sequencer playback with acoustic-drum or pad-triggered sound. And, since the TMX module outputs MIDI note data corresponding to triggered input, it can be used to directly program a sequencer drum/percussion track — what better way to produce realistic sequenced drum patterns?

To make setting up MIDI note number assignments easy, the TMX module features a "Learn Mode" in which the drum pad played selects the input to be assigned, and a MIDI note number sent to the module from a keyboard or other instrument specifies the MIDI note number to be assigned to that voice.

```
UTIL-01
LEARN MODE: ON
```



Module

■ Full Hi-Hat Simulation & Other Footswitch Functions

To give you the feel and playability of live drums the TMX Drum Trigger Module includes footswitch hi-hat simulation capability. Play the hi-hat pad (connected to the number-12 input) with the footswitch “open” for an open hi-hat sound; press the footswitch to close the hi-hat (complete with closure sound); and play the hi-hat pad with the footswitch “closed” for a closed hi-hat sound.

The footswitch can also be assigned to several other functions. The footswitch bypass mode lets you instantly bypass the TMX sound when you want the acoustic drum sound only, an increment mode lets you use the footswitch to select different performance setups, and a start/stop mode allows the footswitch to be used to send MIDI start and stop commands to Yamaha QY10 or QY20 sequencer.

```
UTIL-04 FOOT SW  
FUNC=HI-HAT
```

■ Extra Pad Functions

Since drumming involves constant footwork that leaves no room for operating a footswitch, the TMX Drum Trigger Module allows the pads connected to the number 10 and 11 inputs to be used for a range of important functions: performance increment, performance decrement, bypass for acoustic-only sound, damp to instantly stop the TMX sound, and MIDI sequencer start/pause/stop control.

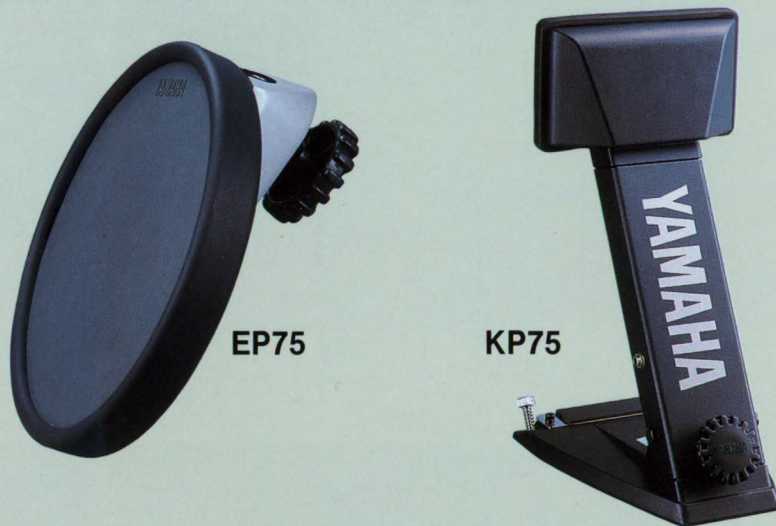
```
UTIL-09 PAD FUNC  
IN-10=INCREMENT
```

■ Other Important Features

- Fully programmable Chain Mode makes it easy to switch performance setups either via footswitch or a percussion pad.
- 16-character × 2-line backlit LCD panel is easy to read under any lighting conditions.
- Slim 1U rack-mount dimensions.

■ Yamaha Electronic Percussion Pads

Yamaha electronic percussion pads offer refined performance and response, and are an ideal match for the TMX Drum Trigger Module. They are compact — less than 8" in diameter — and can be added to an existing drum setup without getting in the way of other drums. They also feature a special head suspension system that provides ideal stick response while minimizing shock for fatigue-free playing. The suspension system also reduces acoustic noise so you don't hear the pads themselves. Each EP75 pad incorporates separate head and rim sensors which utilize separate 1/4" mono phone jacks so the pads can be connected to the TMX inputs via standard phone-to-phone cables. You can play just the head sound, the rim sound, or both at once. The KP75 kick pad features a wide head which easily accepts double-pedal setups. The kick pad assembly can easily be unfolded for flat, compact storage and transportation.

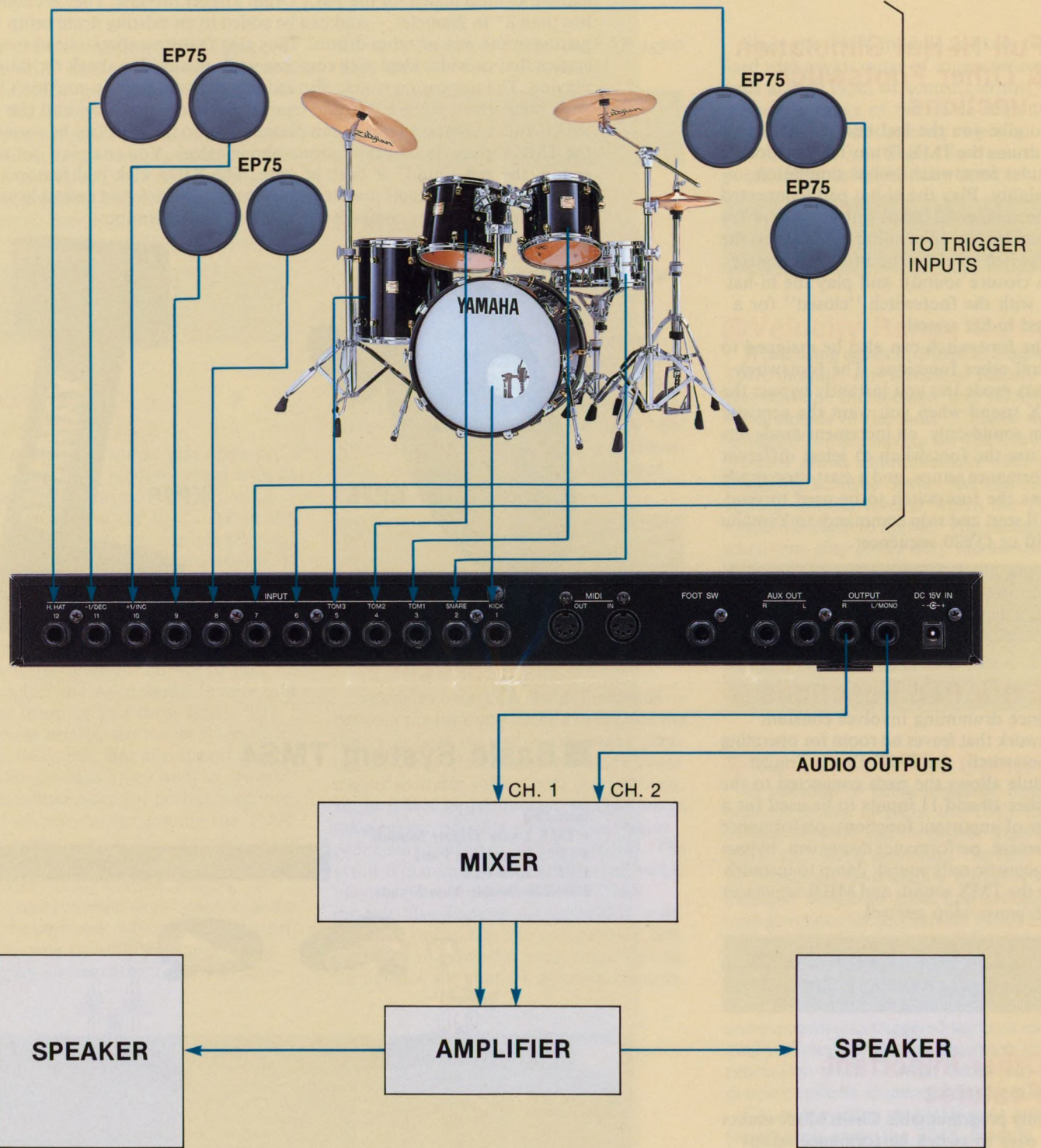


■ Basic System TMS4

- Including
- 1 TMX Drum Trigger Module
 - 4 EP75 Percussion Pads
 - 1 KP75 Kick Pad
 - 2 WS820 Double Tom Stands



System Application



Drum Trigger DT10



Footswitch FC-5



Voice List

Kicks		Snares		Toms		Percussions		Effects	
00K	KikDryHv	00S	Snr965Wd	00T	TomJazz1	00C	HatCls 1	00E	IronMnSr
01K	KikDryMp	01S	SnrWood	01T	TomJazz2	01C	HatCls 2	01E	ElecAnvl
02K	Kik18Dry	02S	SnrBrass	02T	TomJazz3	02C	HatDual	02E	WaterNet
03K	Kik24Dry	03S	SnrPicco	03T	TomJazz4	03C	HatQtr	03E	BellSizz
04K	KikDryT1	04S	SnrWdDry	04T	TomPwr1	04C	HatHlf	04E	CrnchKik
05K	KikDryT2	05S	SnrRiDry	05T	TomPwr2	05C	HatOpn	05E	SFXAfro
06K	KikJazz1	06S	SnrMtDry	06T	TomPwr3	06C	HatPdl	06E	SFXAfroU
07K	KikJazz2	07S	SnrPickL	07T	TomPwr4	07C	AnalgCls	07E	EFBongo
08K	KikBBal	08S	SnrSpank	08T	TomRM 1	08C	AnalgOpn		
09K	KikNakid	09S	SnrWoody	09T	TomRM 2	09C	Crash 1		
10K	KikNStak	10S	SnrBirch	10T	TomRM 3	10C	Crash 2		
11K	KikRoom1	11S	SnrJazz	11T	TomRM 4	11C	CrashFX		
12K	KikRoom2	12S	Snr137	12T	TomRM 5	12C	ChokeFX		
13K	Kik18RM	13S	PunchSr	13T	TomMpl 1	13C	Splash		
14K	Kik24RTC	14S	PwrMplSr	14T	TomMpl 2	14C	Ride 1		
15K	KikHallA	15S	SnrHiPop	15T	TomMpl 3	15C	Ride 2		
16K	KikHallB	16S	SnrTrash	16T	TomMpl 4	16C	EdgeCup		
17K	KikHallC	17S	SnrHiPMP	17T	TomMpl 5	17C	RideCup		
18K	KikLive	18S	GatePcSr	18T	TomDry1	18C	China		
19K	KikGate1	19S	SnrGate1	19T	TomDry2				
20K	KikGate2	20S	SnrGate2	20T	TomDry3				
21K	KikPro1	21S	SnrGate3	21T	BrshTom1				
22K	KikPro2	22S	SnrProc	22T	BrshTom2				
23K	Kik18Gat	23S	SnrRvPic	23T	BrshTom3				
24K	KikFatGt	24S	SnrRoom1	24T	EchoTom1				
25K	KikLitGt	25S	SnrRoom2						
26K	BD King	26S	SnrRoom3						
27K	KikTekno	27S	SnrRoom4						
28K	KikAnalg	28S	SnrRev1						
29K	Kik18Amb	29S	SnrRev2						
30K	KikDanc1	30S	SnrRev3						
31K	KikDanc2	31S	SnrRev4						
32K	KikAnaJz	32S	AnlgPuSr						
33K	KikJzTek	33S	AnlgAmbi						
34K	KikNWoof	34S	SnrTekno						
35K	KikAnaNZ	35S	SnrAna1						
36K	KikANJng	36S	SnrAna2						
37K	KikAnaRM	37S	SnrBgAna						
38K	KikCncrt	38S	SnrWaaoo						
39K	KikHoror	39S	SnrAPing						
40K	KikRatlr	40S	SnrAnaRv						
41K	KikTalkB	41S	SnrRim1						
42K	KikScrem	42S	SnrRim2						

Performance List

1	ROCK	17	T TEKNO
2	STUDIO	18	T RAP
3	METAL	19	T HOUSE
4	POP	20	T JAZZ
5	TEKNO	21	T R&B
6	RAP	22	T BALLAD
7	HOUSE	23	T FUNK
8	JAZZ	24	T LATIN
9	R&B	25	"G,NLMIDI"
10	BALLAD	26	KICKS*
11	FUNK	27	SNARES*
12	LATIN	28	TOMS*
13	TROCK	29	EFX*
14	T STUDIO	30	QY10
15	T METAL	31	USER
16	T POP	32	USER

- PERF #01 ~ #12 for pads only setup.
- PERF #13 ~ #24 for acoustic drums with pads setup.
- PERF #25 General MIDI

Specifications

Tone Generator	16-bit AWM2
Polyphony	16 notes maximum
Voices	245 voices (Kick: 43, Snare: 60, Tom: 48, Cymbal: 19, Percussion: 33, Effect: 42)
Voice Layering	2 voices/trigger input
Display	Backlit 16-characters x 2 line LCD
Performance	32 (including 25 factory presets)
Controls	PERFORMANCE, CHAIN, EDIT, UTILITY, STORE, VOICE EDIT, ZAP, PAGE ▲, PAGE ▼ CURSOR ◀, CURSOR ▶ +1/YES, -1/NO, Rotary volume knob
Trigger Inputs	12
MIDI Connectors	In, Out
Outputs	4 (2 Main, 2 Aux)
Footswitch Input	1
Power Supply	DC 15V 500mA
Dimensions (W x H x D)	480 x 44 x 261mm (18-7/8" x 1-3/4" x 10-2/5")
Weight	Approx. 3.7kg (8 lbs)

All specifications subject to change without notice.

For details please contact:

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