

FM TONE GENERATOR



THE PERFECT MUSICAL COMPANION

Small, light and powerful. That's exactly what the Yamaha TQ5 FM Tone Generator is. It's also the ideal partner for any existing MIDI-equipped electronic instrument.

This little box is more than just an accessory, however. It packs literally hundreds of stunning synthesizer voices—voices that you can select and play instantly from your electronic piano or any other MIDI instrument. The TQ5's digital method of tone generation is capable of recreating the wide variety of powerful and subtle sounds that exist in the natural world. It can also produce unique, other-worldly special-effect sounds. With the User memory storage capacity of 100 voices, plus Card memory, your sound selection is unlimited.

And that's just the beginning. You can change the sounds in virtually any fashion to suit your musical purposes. Make a voice brighter. Put some vibrato or tremolo on it. Extend its sustain and make it longer. Or cut it off abruptly. Moreover, all voices can be further enhanced by a complete assortment of professional-quality effects, such as reverb, delay and distortion.

Also within this compact, piano-top unit is an eight-track recorder that captures your musical ideas. It lets you easily change what you've recorded, and lets you play back up to eight different sounds at the same time.



ICAL COMPANION



If you want a string voice to be brighter, you can make it so. If you need a bell sound to sustain for a slightly longer time, you can change it. If you think a brass voice would sound better if it had more of a distorted tone, you can arrange that as well. And all pertinent editing information is displayed on a large, illuminated LCD, which is also used to display the TQ5's Clock/Calendar function. The voice editing controls are both powerful and subtle and they allow you to come up with your own unique, original sounds.

WIDE-RANGING PERFORMANCE CAPABILITIES

The TQ5 offers a phenomenal degree of control over various performance functions, making it an extraordinarily expressive addition to your present setup.

The TQ5 is equipped with a powerful Multi Mode operation that lets you set up eight independent instrument voices to be played at the same time. Each voice can be assigned to a different part of the keyboard, or all voices can be "layered" together to create thick, gorgeous textures of sound. And all voices can be layered with whatever sound you've selected on your electronic piano.

Program, for example, a monophonic bass voice to sound from the lowest octave on the PF1500 Electronic Piano, with a flute voice in the next two-and-a-half octaves, and a trumpet voice at the top. Or set three different string voices to sound at the same time, for an unbelievably rich recreation of a full string section.

RECORDING AND COMPOSING

The TQ5 takes you even further in your creative explorations with a built-in eight-track MIDI sequencer. Any MIDI instrument can be used to record notes to the sequencer—from keyboards and rhythm machines to MIDI guitars and MIDI wind instruments. And playback perfectly preserves all the subtle nuances of your original performance. You can even arrange your songs in sections and layers, each with a different instrumental part, for richly textured music.

THE MIDI SEQUENCER

What is a MIDI sequencer? Think of it as tapeless tape recorder. Unlike a tape recorder, which records sounds, a sequencer records information about what voices of the electronic piano or synthesizer were selected, what keys of the keyboard were struck, and other important performance data.

The sequencer of the TQ5 records notes from your connected instrument precisely as you play them. It records exactly when you hit them and when you released them. Depending on the instrument you use, it also records how hard you hit the notes and how hard you pressed them down after hitting them.

There are many strong advantages in using a sequencer instead of a tape recorder. First, sequencer recordings have no sound deterioration or noise. Second, the sequencer lets you take advantage of some powerful editing and recording techniques that are simply unavailable on any tape recorder.

For example, if you've recorded a snare drum on one track of a tape recorder and want to change it to a cowbell, you would have to re-record the entire track. On the TQ5's sequencer, however, simply make the voice change at the beginning of the track and you're set.

You can also record notes to the TQ5 one at a time for creation of passages that would normally be impossible to play. You can even edit individual notes in the recording, taking them out or replacing them as you choose.

And that's not all. The Erase, Copy, Delete, and Insert functions provide similar benefits. With these, you can "cut and paste" sections of your song and move them around freely. Put measures in wherever you want them. And throw measures away wherever you DON'T want them. Song writing and recording has never been faster or easier.

FULL MIDI CAPABILITIES

Many of the TQ5's musical miracles are due to its extensive MIDI features. What is MIDI? MIDI is a "language" through which all kinds of digital musical equipment can communicate. MIDI enables digital instruments of all different types to control one another.

Through the magic of MIDI, you can play another electronic piano or synthesizer with the TQ5 and have both instruments sound together in a beautiful, rich layer. Or you can use the built-in sequencer to play a multiple-synthesizer setup—including rhythm machines—automatically, along with the voices of the TQ5. And of course, any MIDI-compatible instrument can be used to control or be controlled by the advanced functions of the TQ5. With MIDI and the TQ5, the music creation potential is as limitless as your imagination.

Here are just a few of the possibilities:

THE TQ5 WITH THE DX11 DIGITAL PROGRAMMABLE ALGORITHM SYNTHESIZER AND THE RX120 DIGITAL RHYTHM PROGRAMMER



The TQ5 holds its own as a control center in a sophisticated multi-instrument system as well. In this setup, the voices of the DX11 Digital Programmable Algorithm Synthesizer can be layered with those of the TQ5, for creation of complex synthesizer textures or lush, natural acoustic instrument sounds.

The Note Limit function on the DX11 can be combined with the TQ5's Multi Mode to expand this capability even further. You can effectively split up the keyboard of the DX11 into several sections and have each section play a different voice. Moreover, each section's DX11 voice can be layered with a different TQ5 voice, allowing you to play elaborate multiple instrument parts with just one keyboard.

And if two hands are not enough to play all the parts of your song, the sequencer of the TQ5 can store your musical ideas and play them back, using the voices of the DX11 and

the TQ5 together. Up to sixteen separate instrument sounds can be recorded and played back in this way, providing a virtual orchestra at your command.

To augment this powerful system, a RX120 Digital Rhythm Programmer can be included. Not only does it offer the very best in realistic percussion sounds, but it also delivers a wealth of rhythmic patterns that can be fashioned into songs—songs that can be played back in perfect synchronization with compositions recorded on the sequencer of your TQ5.

THE TQ5 WITH THE WX11 WIND MIDI CONTROLLER

The WX11 Wind MIDI Controller enables you to control the sounds of the TQ5 Tone Generator by using the same playing techniques that you use on a regular saxophone. Together, these two advanced devices put the wind player at the center of the incredible world of digital music. With the handy controls on the WX11, you can instantly select voices on the TQ5 without having to take your hands from the instrument or even touch the front panel of the TQ5.

The TQ5 is also a perfect match for the superior response and expressive power of the WX11.



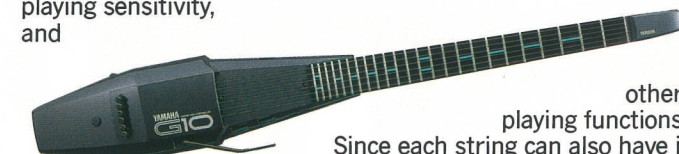
You can use lip pressure to bend pitch and use breath pressure to control the volume, tone or modulation effects of the TQ5. A separate Pitch Bend Wheel is also included for playing convenience. And special Octave Transpose keys let you make instantaneous octave jumps as you play.

Moreover, by coupling the Dual Play function on the WX11 with the Multi Mode feature of the TQ5, two notes can be played simultaneously, each with its own separate voice. Among the various possibilities are creation of two-instrument melody/harmony arrangements, as well as the continuous sustaining of one note while others are played around it.

THE TQ5 WITH THE G10 GUITAR MIDI CONTROLLER AND THE G10C GUITAR MIDI CONVERTER

The G10 Guitar MIDI Controller and the G10C Guitar MIDI Converter provide guitarists with an affordable yet highly sophisticated means of exploring the realms of synthesis and digital music. The G10 features an original Yamaha sensor system that provides precise, natural guitar response and the ultimate in expressive capability. No other controller in its class offers such precision, reliability and subtlety; fine picking variations come through with clean accuracy, and you can mute, bend, pull-off and hammer-on just as you would on an acoustic or electric guitar.

Naturally, the TQ5 is designed to take full advantage of the advanced capabilities of the G10 and the G10C. The G10's breath controller, tremolo arm, controller wheel and program change switches can be used for real-time control of the TQ5's voices. The rackmount G10C Guitar MIDI Converter is the actual control center of this MIDI guitar system. It can be connected directly to the TQ5 and allows you to adjust various performance parameters of the MIDI guitar system, such as string volume, tuning, transposition, playing sensitivity, and



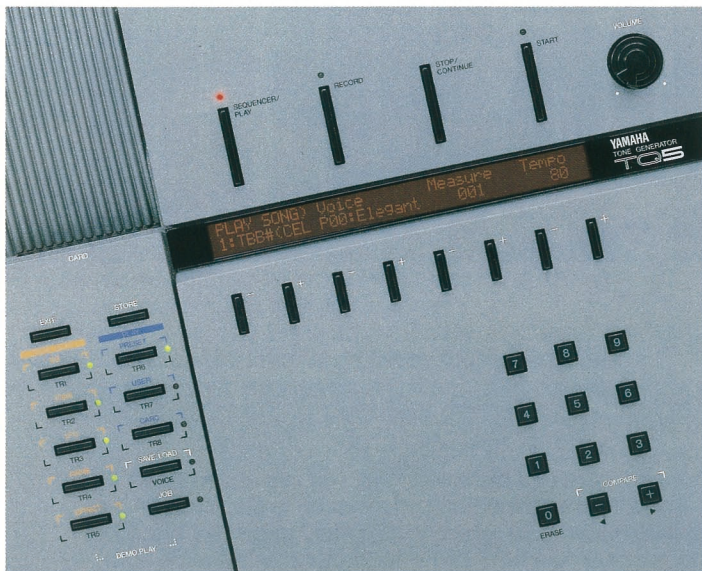
other playing functions. Since each string can also have its own MIDI channel, the TQ5 can be set to play a different voice for each string of the G10.

EDITING:

Making Your Own Sounds

With the TQ5 and its sophisticated features, you have virtually unlimited creative potential. All of the stunning sounds of the instrument can be changed and refashioned to your precise requirements.

VOICE LIST



00	Elegant	25	FloatChime	50	Guitar 1	75	Sax 1
01	SoftBrass	26	Daybreak	51	Guitar 2	76	Sax 2
02	WideString	27	Tinkle	52	E.Guitar 1	77	Oboe 1
03	Cosmic	28	SandBell	53	Harp 1	78	Clarinet
04	LargePipes	29	Suspense	54	Koto	79	Flute
05	SynString 1	30	Fog	55	Marimba	80	Recorder
06	FolkGuitar	31	HuskyVoice	56	Violin 1	81	Harmonica 1
07	Piano 1	32	Swirlies	57	Cello 1	82	Whistle
08	E.Piano 1	33	HuskyChoir	58	CelloEns.	83	Castanet
09	DistGuitar	34	PluckBrass	59	UprightBass	84	Triangle
10	SoftString	35	AngelChoir	60	E.Bass 1	85	BellTree
11	SynString 2	36	FluteVoice	61	E.Bass 2	86	Referee
12	RichString	37	SmallPipes	62	SynBass 1	87	SteelDrum 1
13	SynBrass 1	38	E.Organ 1	63	SynBass 2	88	SteelDrum 2
14	SynBrass 2	39	E.Organ 2	64	SynBass 3	89	Ricochet
15	SynBrass 3	40	Piano 2	65	SynBass 4	90	Zap
16	BrethBrass	41	E.Piano 2	66	SynBass 5	91	Shwhap
17	SoftEns.	42	WireBrass	67	NasalLead	92	PoundWood
18	WarmEns.	43	EasyClav	68	SolidLead	93	OilDrum
19	OrchesEns.	44	FunkyClav	69	ClariLead	94	SynSnare
20	Sunbeam	45	Harpsichord	70	Trumpet 1	95	DragonHit
21	Shimmer 1	46	Vibe	71	TightBrass	96	DuneHit
22	SoftCloud	47	Celeste	72	Trombone 1	97	Warp
23	Bamarimba	48	TubeBell	73	Horn 1	98	IceAge
24	Sandarimba	49	MusicBox	74	Horn 2	99	Encore

SPECIFICATIONS

Sound Source

FM tone generation (4-operator/8-algorithm), simultaneous 8 notes output

Internal Program RAM

100

Internal Program ROM

100

External Memory

RAM/ROM card (32 kBytes), for programs (100 programs × 1 bank), for sequencer (to save 1 song bank to internal memory)

Display

LCD (40 characters × 2 lines; illuminated), Built-in Clock

Controls (Front Panel Buttons)

SEQUENCER/PLAY; RECORD; STOP/CONTINUE; START; EXIT; STORE; EG/TR1; TONE/TR2; LFO/TR3; NAME/TR4; EFFECT/TR5; PRESET/TR6; USER/TR7; CARD/TR8; SAVE, LOAD/VOICE; JOB; +/− SELECTOR buttons; numeric keypad; cursor left and cursor right keys; rotary volume

Rear Panel Terminals

Output × 2 (L/MONO, R); PHONES × 1; MIDI IN × 1; MIDI OUT × 1; MIDI THRU × 1; DC 15 V IN

Power Consumption

6 W

Power Requirements (with PA-1505 15 V power adaptor)

U.S. and Canadian models: 120 V, 50/60 Hz; European model: 220-240 V, 50 Hz

Dimensions (W × H × D)

280 × 235 × 70 mm (11" × 9-1/4" × 2-3/4")

Weight

1.5 kg (3 lbs. 5 oz.)

Included Accessory

PA-1505 power adaptor

Specifications subject to change without notice.

For details please contact:

YAMAHA
YAMAHA CORPORATION
P.O. Box 1, Hamamatsu, Japan