



Instruments and tone generators that play back digital sound samples are no longer a novelty. There's no doubt that they're important musical tools and are here to stay but ... something is missing.

The Yamaha TG55 Tone Generator revives the fine arts of musical control and creativity with a voice architecture that allows extensive sample layering and programmable dynamic timbre variation. With the TG55, individual sampled "waves" are building blocks that you arrange and process with a sophisticated dynamic filter system to create sound that's a perfect match for your music. You also have pitch envelope generators, amplitude envelope generators, a range of 34 programmable effects, and a wealth of other ways to customize your sound.

In this day and age of simple samples, the TG55 is a tone generator that puts the process of making music back on the right track.

# **Beyond Simple Samples**

- 64 preset voices in ROM.
- 64-voice internal RAM memory.
- External waveform and voice card slots.
- Multi-timbre capability with 16 memory locations for multitimbre setups.
- Drum voices allow 61 different drum and other waveforms to be assigned to different keys.
- Velocity switching for expressive power.
- **■** Extensive voice editing functions.
- 34 high-quality programmable digital effects built in.
- Pannable stereo output.

# AWM2:The Basic Technology Refined for Superior Sound

AWM2 — second-generation 16-bit Advanced Wave Memory — takes the musical reproduction of digitally sampled sound to new levels of performance. Technically speaking, the system deals with 16-bit wave data sampled at 32 or 48 kilohertz, 24-bit internal signal processing, and high-resolution 22-bit digital-to-analog converters. In terms of sound, the result rivals and often surpasses the quality of the finest compact disc players, giving you unprecedented clarity and realism in the reproduction of acoustic instruments and other

natural timbres.

Unlike many sampled-waveform instruments, however, you're by no means "stuck" with the sampled sound. An extraordinarily versatile digital filter system lets you shape the sound in real time for extended expressive control.

The TG55 packs a very impressive 2 megabytes of of sampled waveform ROM, so you have a choice of 74 individual waveforms built in. External wave cards provide virtually unlimited potential for expansion.

T	TG55 Preset Wave List						
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Piano E.Piano1 E.Piano2 E.Piano3 E.Piano4 E.Piano5 E.Piano6 E.Piano7 Harpsi Organ 1 Organ 2 Pipe Trumpet Mute Tp Trombone Flugel Sax Flute Brass	20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38	SynBrass GtrSteel Gtr Gut 12string E. Guitar E. Bass Popping WoodBass Syn Bass Violin Strings Chorus Itopia Vibe Marimba Glocken Shamisen Harp Mtl Reed	39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57	Saw Digital1 Digital2 Digital3 Pulse 10 Pulse 25 Pulse 50 Tri Voice Piano Np EPiano Np Uibe Np Bottle Tube Vocal Ga Bamboo Noise Styroll Bulb	58 59 60 61 62 63 64 65 66 67 70 71 72 73 74	Bell Mix BD 1 BD 2 BD 3 SD 1 SD 2 SD 3 Rim Tom 1 Tom 2 HHclosed HH open Crash Ride Claps Cowbell Shaker

### A New Concept in Voice Architecture

Element 2: Synth Brass

Each TG55 voice is composed of one, two or four "elements." Each element can be assigned an AWM2 waveform from the 74 provided in internal ROM, or others available on plug-in waveform cards. You can

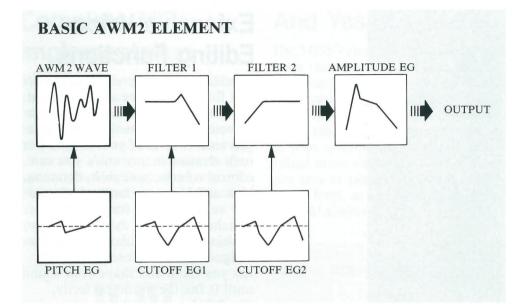
Element 1: Piano

have a single element voice that uses only a single waveform, or multielement voices that combine two or four different waveforms in a number of ways. Of course, each element has its own programmable 5-segment amplitude envelope generator so you could, for example, patch a piano

attack to a fat synth-brass type sustain, or create any number of unique sonic hybrids.

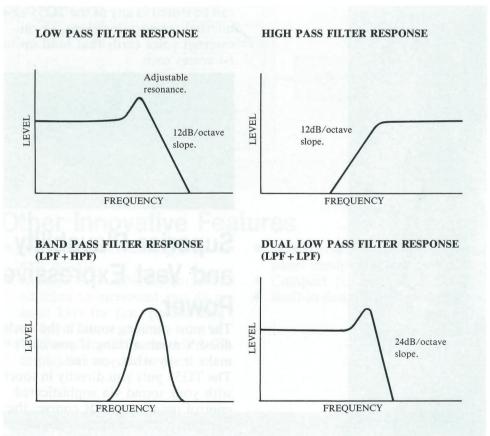
Layered elements in a 2-element voice.
4-element voices allow even greater complexity.

In addition to "layering" the elements in this way, each element can be assigned to a different section of the keyboard for exotic split keyboard setups. Each element also has a pitch envelope generator and two filter cutoff envelope generators that control the TG55's innovative digital filter system.



### Advanced Digital Filters for All-new Dynamic Timbre Control

Each TG55 voice element features two digital filters. One is a low-pass type, and the other is switchable for either low-pass or high-pass response. Each filter has its own 6-segment envelope generator so that a virtually unlimited range of dynamic filtering patterns can be produced. Lowpass and high-pass filters can be combined to create a bandpass response, or both filters can be set for low-pass operation — each with a rolloff slope of 12-dB/octave — to produce a steep 24-dB/octave lowpass curve. And, for those of you who miss the distinct musical personality of analog synthesizer type filters, the TG55 filters even have a resonance parameter that allows you to boost their cutoff-frequency peak all the way into oscillation if you like. To sum up, in a four-element voice with two filters per element, you have a total of eight filters working all at once.





# **Extensive Voice Editing Functions**

In addition to the envelope generators and filters we've already mentioned, the TG55 offers an extensive range of voice editing functions that give you total control of your sound. For each element in any voice you can control volume, note shift, detuning, high and low note limits, high and low velocity limits for velocityswitched keyboard dynamics, pan position, LFO modulation, controller assignments and more. The TG55 lets you mold and shape your sound until it fits the music perfectly. The TG55 comes with 64 preset voices in ROM, or you can create your own from scratch, starting with the bare waveforms provided in the TG55 ROM or others available via external waveform cards. Your sonic creations can be stored in any of the TG55's 64 internal memory locations, or on external voice cards that hold up to 64 voices each.



# Superior Playability and Vast Expressive Power

The most stunning sound in the world doesn't mean a thing if you can't make it say what you feel.

The TG55 puts you directly in touch with your sound via sophisticated control parameters. Of course, the standard pitch and modulation wheels perform their familiar functions, but you can also assign any MIDI

controller amplitude modulation, pitch modulation, filter cutoff modulation, direct filter cutoff control, envelope generator bias and volume ... not to mention after-touch pitch bias. And for a totally new type of expression there's velocity switching, which brings different elements into play depending on how hard you play the keys.

## **Built-in Effects Add Essential Ambience**

Yamaha is already firmly established as the leader in digital signal processing for professional music and production applications. The TG55 gives you a healthy helping of this ambience-enhancing capability built in. You have direct access to 34 effect programs including reverb, delay, early reflection, tone control and distortion — all programmable — to give your sound the extra impact it deserves.

T	G55 Effect Programs
1	Rev.Hall (Reverb Hall)
2	Rev.Room (Reverb Room)
3	RevPlate (Reverb Plate)
2 3 4 5 6 7	REVChrch (Reverb Church)
5	Rev.Club (Reverb Club)
6	RevStage (Reverb Stage)
7	BathRoom (Reverb Bath Room)
8	RevMetal (Reverb Metal)
9	Delay (Single Delay)
10	DelayL/R (Stereo Delay)
11	St.Echo (Stereo Echo)
12	Doubler1 (Single Doubler)
13	Doubler2 (Stereo Doubler)
14	PingPong (Ping Pong Delay)
15	Pan Ref. (Pan Reflections)
16	EarlyRef (Early Reflections)
17	Gate Rev (Gate Reverb)
18	Rvs Gate (Reverse Gate)
19	FB E/R (Feedback Early Reflections)
20	FB Gate (Feedback Gate)
21	FB Rvs (Feedback Reverse)
22	Dly1&Rev (Delay 1 & Reverb)
23	Dly2&Rev (Delay 2 & Reverb)
24	Tunnel (Tunnel Reverb)
25	Tone 1 (Tone Control 1)
26	Dly1&T1 (Delay 1 & Tone Control 1)
27	Dly2&T1 (Delay 2 & Tone Control 1)
28	Tone 2 (Tone Control 2)
29	Dly1&T2 (Delay 1 & Tone Control 2)
30	Dly2&T2 (Delay 2 & Tone Control 2)
32	Dist&Rev (Distortion & Reverb) Dist&Dly1 (Distortion & Delay 1)
34	Dist&Dly1 (Distortion & Delay 1) Dist&Dly2 (Distortion & Delay 2)

### Multi-timbre Mode and Built-in Drums

In addition to its normal voice play mode, the TG55 features a multitimbre mode in which up to 16 different voices can be assigned to 16 different MIDI channels — so the TG55, a master keyboard and a sequencer are all you need to go into full-swing music production. 16 memory locations are provided for complete "MULTI" setups including voice-to-channel assignments, individual voice volume, note shift, tuning, panning, and effects. The TG55 even supplies a range of highquality drum and percussion waveforms that can be assigned to different keys and handled as a single voice so you don't need an external drum machine.

#### Voice Number 63 : Drum Set 1 Key | Wave Name | Key | Wave Name |

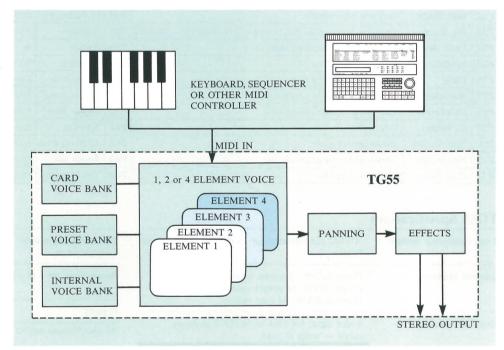
ARCJ	Truste Timine	2203	11 00 1 0 1 1001110
		C6	Syn Bass
A#5	Com Door	B5	Syn Bass
G#5	Syn Bass	A5	Syn Bass
UHO F#5	Syn Bass	G5	Syn Bass
(#3	Syn Bass	F5	Syn Bass
)#5	C D	E5	Syn Bass
#5	Syn Bass	D5	Syn Bass
F3	Syn Bass	C5	Syn Bass
\#4	Vocal Ga	B4	Bulb
3#4	Bell Mix	A4	Vocal Ga
#4	Bottle	G4	Bottle
784	Bottle	F4	Bottle
<b>D#4</b>	Shaker	E4	Styroll
C#4	Bamboo	D4	Ride
-#4	ватооо	C4	Vibe NP
4#3	Claps	В3	Vibe NP
3#3		A3	Claps
#3	Popping Tube	G3	Popping
#3	Tube	F3	Tube
#3	Ride	E3	Tube
#3	Crash	D3	Ride
43	Crasn	C3	Crash
4#2	Crash	B2	HH open
G#2	Shaker	A2	HH close
F#2	Claps	G2	Cowbell
re2	Claps	F2	Tom 1
D#2	Rim	E2	SD 1
C#2	SD 2	D2	Tom 1
-62	30 2	C2	Tom 1
A#1	SD 3	B1	Tom 1
G#1	BD 2	A1	BD 1
F#1	Tom 2	G1	Tom 2
7.1	10111 2	F1	Tom 2
D#1	BD 3	E1	Tom 2
C#1	BD 3	D1	BD 3
CAI	DD 2	C1	BD 2

# Complete MIDI Implementation

Since the TG55 may be asked to perform in any MIDI system, it has been provided with a complete set of MIDI parameters for maximum compatibility and versatility. Of course, the receive channel and device number are programmable, and a range of bulk dump functions make data transfers to bulk storage devices quick and easy.

### And Yes, It's Stereo

The TG55's stereo outputs are behind more than just a few stereo effects. Since each element in any voice can be panned to any position in the stereo sound field, you can create true stereo voices that will add a new dimension to your sound. Any of the 61 individual drum sounds in a drum voice can also be placed anywhere in the stereo field, as can individual voices in multi-timbre setups.



#### **Other Innovative Features**

- Page-accessed function groups for easy editing.
- Rotary DATA ENTRY control in addition to increment and decrement keys for fast, precise data entry.
- 16-character × 2-line backlit LCD display is easy on the eyes.
- Master volume control and frontpanel headphone jack.
- Compact 1U rack-mount size.
- Built-in demo playback feature.

REAR PANEL



#### TG55 Voice List

5 voice Li				
Piano	Orthodox acoustic piano.	P33	Thumb Bass	Play hard for slap bass sound.
Voyager	Choir with "sizzle." Play long chords.	P34	SynBadBass	Funky synth bass.
Pro55Brass	Fat analog brass pad.	P35	VCO Bass	Fat analog bass.
Elektrodes	Mellow electric piano.	P36	Violin	Solo violin with after-touch vibrato.
Zuratustra	Big orchestra Brass volume on MW.	P37	ChamberStr	Small violin section.
DawnChorus	Breathy choir. MW fades out breath.	P38	VCF String	Analog synth strings. Brightness on MW.
GX Dream	Greatest Dreaming Sound.	P39	Nova Quire	Choir with a unique attack.
GrooveKing	Classic funky, resonant synth voice.	P40	Vibraphone	Traditional vibrophone with tremolo on MW.
DistGuitar	Heavy guitar. Slow fade to feedback.	P41	Takerimba	Bamboo marimba. Brightness on MW.
ZenAirBell	Percussive bell/gong combination.	P42	Glocken	Glockenspiel Brightness on MW.
FullString	Light touch for small, heavy for large string section.	P43	DigiBell	Spacious synth bell.
JazzMan	Split wood bass and trumpet. MW swaps horns.	P44	Oriental	Oriental orchestra. Light touch for string section only.
ClassPiano	Classical Grand Piano.	P45	VCO Lead	Analog sawtooth lead voice.
RockPiano	Fat piano. Perfect for chord work.	P46	Spirit VCF	Analog synth with big, slow filter sweep.
DX E.Piano	Electronic piano.	P47	OZ Lead	Soft synth lead.
Hard EP	Electric piano with sharp attack and hard tone.	P48	Get Lucky	Fat square-wave synth sound with detune on MW.
Cry Clav	Automatic "wah" clav with resonant attack.	P49	Gamma Band	Oriental percussion ensemble. MW fades in metal drums and bells.
Funky Clav	Fat, funky clav.	P50	Metal Reed	Harmonica or accordion with after-touch pitch bend.
Deep Organ	Rock Organ.	P51	Modomatic	Choir with big MW filter sweep.
Warm Organ	Full, rich organ with rotating speaker effect.	P52	DataStream	Best with long notes.
Trumpet	Solo trumpet.	P53	Mystichoir	Play long chords for shifting notes.
Stab Brass	Thin pop brass section.	P54	St.Michael	Choir with bells on release.
Big Band	Big unison horn section. Play in octaves. MW fades to solo trumpet.	P55	Scatter	Voice on staccato notes, filtered synth on long tones.
Orch Brass	Big classical brass section with pan.	P56	Triton	Best with long chords.
SynthBrass	Powerful synth brass pad.	P57	Amazon	Wide touch range.
Flute	Breathy when played hard.	P58	SatinGlass	Metallic, spacious synth voice.
Saxophone	Solo sax with lots of presence.	P59	BrassChime	Filtered brass with chimes.
FolkGuitar	Steel-string acoustic folk guitar.	P60	Piano Mist	Piano bell. MW fades to staccato filtered voice.
12 String	Full 12-string guitar.	P61	Xanadu	Solo multi-tuned flute.
MuteGuitar	Muted electric guitar.	P62	WdBass Duo	Split wood bass and piano.
SingleCoil	Single-coil electric guitar pickup.	P63	Drum set 1	Drum set including bass and sound effects.
Pick Bass	Punchy picked bass.	P64	Drum set 2	Drum set including bass and sound effects.
	Piano Voyager Pro55Brass Elektrodes Zuratustra DawnChorus GX Dream GrooveKing DistGuitar ZenAirBell FullString JazzMan ClassPiano RockPiano DX E.Piano Hard EP Cry Clav Funky Clav Deep Organ Warm Organ Trumpet Stab Brass Big Band Orch Brass SynthBrass Flute Saxophone FolkGuitar 12 String MuteGuitar SingleCoil	PianoOrthodox acoustic piano.VoyagerChoir with "sizzle." Play long chords.Pro55BrassFat analog brass pad.ElektrodesMellow electric piano.ZuratustraBig orchestra Brass volume on MW.DawnChorusBreathy choir. MW fades out breath.GX DreamGreatest Dreaming Sound.GrooveKingClassic funky, resonant synth voice.DistGuitarHeavy guitar. Slow fade to feedback.ZenAirBellPercussive bell/gong combination.FullStringLight touch for small, heavy for large string section.JazzManSplit wood bass and trumpet. MW swaps horns.ClassPianoClassical Grand Piano.RockPianoFat piano. 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#### **TG55 Specifications**

Tone Generator System	AWM2 (2nd-generation 16-bit Advanced Wave Memory).  Wave ROM: 74 preset waveforms. Preset ROM: 64 preset voices. Internal RAM: 64 user voices.  Voice data: MCD64 or MCD32 memory cards — write & read.  Wave data: Yamaha wave cards — read only.				
Internal Memory					
External Memory					
Display	16-character × 2-line backlit LCD.				
Controls	DATA ENTRY, MASTER VOLUME.				
Keys & Switches	POWER, VOICE, MULTI, DEMO, UTILITY EDIT/COMPARE, STORE/COPY, -1/NO, +1/YES, PAGE-, PAGE+, <, >, EXIT, MEMORY, ENTER, SELECT.				
Output Connectors	Front panel: PHONES. Rear panel: OUTPUT R & L/MONO, INDIVIDUAL OUTPUT 1 & 2.				
MIDI Connectors	IN, OUT, THRU.				

Power Requirements/ Consumption	US & Canadian models: 120V/12 watts General model: 220—240V/12 watts				
Dimensions $(W \times H \times D)$	480 × 44 × 310 mm (18-7/8" × 1-3/4" × 12	-1/4")			
Weight	4.2 kg (9 lbs. 4 oz)				

All specifications subject to change without notice.

#### **Optional Memory Cards**

Yamaha MCD64 and MCD32 Memory Cards are light and compact, providing convenient external storage for your original TG55 voices.





MCD32

For details please contact:

