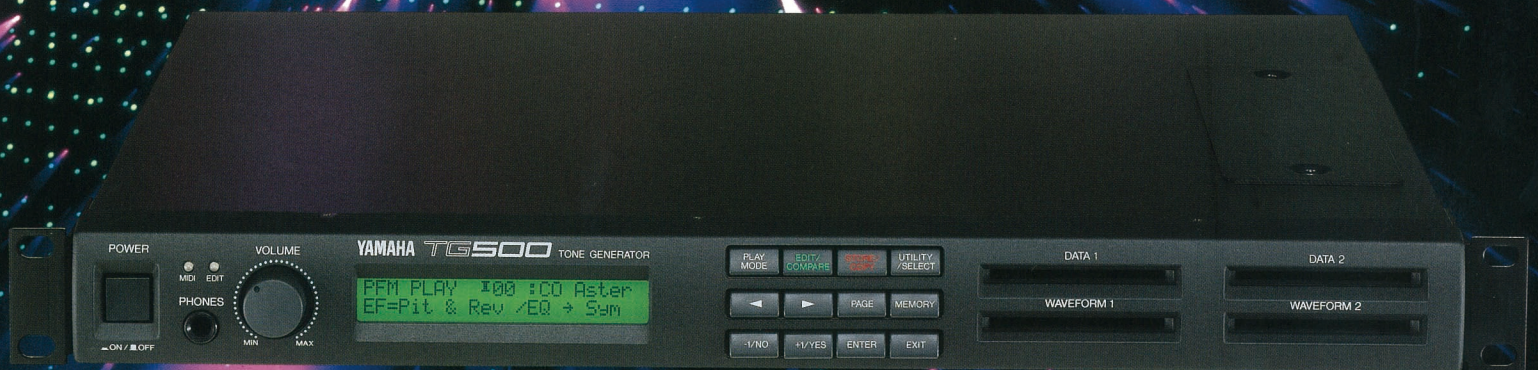


YAMAHA

TONE GENERATOR

TG500



SOLIDIFY YOUR STAGE OR STUDIO SETUP WITH UNMATCHED AWM2 SOUND

The TG500 Tone Generator is the ideal way to add incredible sound to your existing MIDI music system. It features Yamaha 2nd-generation Advanced Wave Memory (AWM2) technology and a huge 8-megabyte waveform ROM for dazzling, true-to-life sound with 64-note polyphony. So you can play right away without having to program, the TG500 has 384 pre-programmed voices and 192 "performance combinations" in which up to four voices are combined in various ways. Of course, plenty of programming power is available when you want to edit the presets or create totally new sounds.

For those who want to work with samples from other sources, up to 1-megabyte of waveform RAM can be installed to allow loading of external samples via waveform cards or the MIDI Sample Dump protocol.

In terms of sound and programming power, the TG500 offers unprecedented levels of quality and performance.

AWM2 Tone Generator with Expanded Wave ROM

Yamaha's AWM2 (second-generation Advanced Wave Memory) synthesis system takes the musical reproduction of digitally sampled sound to new levels of performance, providing unprecedented clarity and realism in the reproduction of acoustic instruments and other natural timbres. For an even more stunning improvement in sound quality the TG500 packs a very impressive 8 megabytes of sampled waveform ROM. An extraordinary range of programmable parameters let you customize and shape the sound to created "voices" that ideally match your individual musical requirements, and a "performance" mode allows up to four voices to be layered and combined in a variety of ways.

384 Voices and 192 Performance Combinations

The TG500's internal ROM voice memory holds 256 preset voices, while the internal RAM memory holds an additional 128 voices that can be edited and rearranged as required.

Although the TG500 voices can be selected and played individually, a versatile "performance" mode allows up to 4 different voices to be combined in a number of ways for extra depth and variety. Layers can be played simultaneously across the entire keyboard, limited to specific ranges to create split keyboard setups, or overlapped in any way that meets your musical requirements. In addition to 128 preset ROM performance combinations, RAM memory is provided for an additional 64 combinations that can be

recalled in the same way as the individual voices. A complete set of 192 pre-programmed performance combinations is supplied with the instrument.

```
PFM Voice [B] AP Chrs2
150 102 152 128
```

Expandable Sample RAM

Up to 1 megabyte of optional "sample RAM" memory can be installed in the TG500 for storage of AWM2 samples loaded from external sources via either the MIDI Sample Dump protocol or waveform cards. The loaded sample data can be assigned to voices and used in the same way as the internal AWM2 samples. This means that the TG500 has virtually "open-ended" sample handling capability, giving you access to an unlimited world of sound.

Advanced Digital Filters for Dynamic Timbre Control

In addition to sophisticated amplitude and pitch envelope generators, LFO control, and assignable controller capabilities, the TG500 features an advanced digital filter system that affords extensive voice programming power. Low-pass, high-pass, band-pass, and band-elimination response can be selected as required, and a complex 6-segment filter envelope generator makes it possible to produce a virtually unlimited range of dynamic filtering patterns. For those of you who miss the distinct musical personality of analog synthesizer type filters, the TG500 filter even has a resonance parameter that allows you to boost the cutoff-frequency peak ... all the way into oscillation if you like. The filter cutoff frequency can be controlled in real time via the modulation wheel, a foot controller, or keyboard aftertouch for real-time timbre control.

```
UCE FLT Param <Res>
LPF (3.085kHz) 88 26
```

16 Multi-timbre Setups

If you'll be driving the TG500 from a sequencer or music computer, you'll appreciate its versatile multi-timbre mode. 16 internal memory locations are provided for complete "multi" setups, so you can create up to 16 original "orchestras" with different combinations of voices that can be recalled whenever needed. Each multi setup consists of up to 16 different voices or performance combinations assigned to "instruments" 1 through 16. Each instrument is controlled via the correspondingly numbered MIDI channel. Each instrument also has several parameters that can be individually edited for extensive sound control: volume, stereo pan position, effect send level, note shift, fine tuning, output assignment, and name. There are also a range of effect settings which apply to the entire multi setup.

```
MLT (BR Swell) Vol Pan
[16] P163 127 +16
```

90 Superb Effects Add Essential Ambience

The TG500 offers 90 outstanding digital effects — including Aural Exciter® — with two high-performance internal digital signal processors. The internal effect processors are equivalent in quality and performance to some of the most advanced rack-mount units available today. The two effect processors can be interconnected in several ways, providing a wide range of sophisticated parallel and series processing configurations. A range of programmable parameters for each effect make it easy to give your sound the extra warmth and "spaciousness" that it deserves.

```
PFM EF Type (Aural Exc.)
Ef1:23 Ef2:50
```

**Aural Exciter® is a registered trademark and is manufactured under license from Apex Systems, Ltd.*

Quick Edit Modes

In addition to powerful in-depth editing features, the TG500 offers quick-edit modes that allow fast, easy editing of voice and performance data. The voice quick edit mode, for example, permits fast, easy selection of AWM waves as well as pre-programmed envelope and filter types. Simplified LFO and effect parameters are also provided. The quick edit mode provides you everything to create complete new voices, or voice "foundations" that can later be refined using the in-depth editing features.

```
UCE QED Filter <Type>
06:SynBass2 34 59 +63
```

Stereo L/R and 4 Individual Audio Outputs

To allow individual handling of voices, the TG500 has 4 individual outputs in addition to the main stereo outputs. Voices can be assigned to individual outputs as well as the stereo outputs. It is a simple matter, for example, to have each percussion sound in a drum voice appear separately at a different output. The individual outputs are also a great advantage when using the TG500 multi-timbre mode, allowing separate voice setups to be processed via different channels of a mixing console.

Dual Data & Waveform Cards

For extra data storage capacity and data management convenience, the TG500 has a total of four card slots — two for voice data and two for sample waveforms. A single Yamaha MCD64 type data card can hold up to 256 voices and 128 performance combinations, so with two data cards installed you have a total of 640 voices and 320 performance combinations on-line! The waveform card slots accept pre-programmed cards containing sample data, including those released for the SY77 and SY55 Music Synthesizers.

Comprehensive MIDI Implementation

Since the TG500 may be asked to perform in any MIDI system, it has been provided with a comprehensive set of MIDI parameters for maximum compatibility and versatility. Receive channels are independently programmable, a program change assignment table maximizes voice selection versatility, MIDI bank select messages can be received for expanded voice selection capability, and a range of bulk dump functions make data transfers to bulk storage devices quick and easy.



YAMAHA
TONE GENERATOR
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PERFORMANCE LIST

Preset 1	Preset 2	Internal
No. Performance Name	No. Performance Name	No. Performance Name
000 CO Dream	000 CO Ncert	000 CO Aster
001 KY Piano	001 KY Loud	001 AP Piano
002 SP Aztec	002 SP Carol	002 SP Mtrix
003 SC Wyrz	003 SL Miley	003 SC Skank
004 CH Choir	004 ME Orion	004 ME Sprk2
005 BA Pick1	005 GT Amped	005 BA Drive
006 ST Rosin	006 SE Rolls	006 BR Fnrfr2
007 BR Stab	007 WN Tenor	007 SE Devil
008 CO Soire	008 CO DXStr	008 ST Moin
009 OR Bee	009 OR Sine	009 FI Dulcm
010 SP Lush	010 SP Venus	010 CO Bells
011 SC Rude	011 SL Chick	011 KY Knock
012 CH Breth	012 ME Glitz	012 SP Fanta
013 BA Swap	013 GT Strat	013 SC Elec1
014 ST Octvs	014 SE C-tar	014 ME Gokrk
015 BR Pro5	015 WN Sacks	015 BA Susud
016 CO Orch	016 CO Stass	016 BR Forth
017 KY Digi1	017 KY Digi2	017 SE Swmp
018 SP Faery	018 SP Whino	018 ST Legat
019 SC Talk	019 SL L7	019 GT Pedal
020 CH OohAh	020 ME Honto	020 CO Gloom
021 BA Pick2	021 GT Phunk	021 OR Cool
022 ST Pltz	022 SE Xeno	022 SP Flash
023 BR Stz	023 WN Alto	023 SC Gob
024 CO Sable	024 CO Megin	024 ME Max
025 KY Roody	025 KY Jerry	025 BA Slidge
026 SP Slide	026 SP Hinx	026 BR Synth
027 SC Klav	027 SL Eazy	027 SE Wall
028 CH Vespa	028 ME Mars	028 ST Accat
029 BA -Fret	029 GT Rock	029 GT Steel
030 ST Rings	030 SE Storm	030 CO India
031 BR Forte	031 WN Panic	031 OR Rock
032 CO Jazzr	032 CO Gospl	032 SP Atrio
033 OR Gimme	033 OR Cheap	033 SC Woody
034 SP Lite	034 SP Pluto	034 ME Chori
035 SC Buzz	035 SC Clank	035 GT Round
036 CH Munch	036 ME Ecco	036 BR Stfz
037 BA Rezzo	037 GT Harm	037 SE Rado
038 ST Dark	038 SE Zoom	038 ST LgSm
039 BR Saw	039 BR Reeds	039 SL Mefeo
040 CO E.S.P	040 CO Ethos	040 CO Clock
041 KY Elek	041 KY PncMW	041 OR Mite
042 SP Stars	042 SP Synth	042 SP Wind
043 SC Snaps	043 FI Santo	043 SC Arred
044 CH Abyss	044 ME Alien	044 ME Chom
045 BA Mini	045 GT B12	045 CO Fmpad
046 ST 2002	046 SE Delay	046 BR Tots
047 BR Obie	047 BR Lips	047 SE Indst
048 CO Pnoch	048 CO Kings	048 CO Nuage
049 OR Nave	049 KY Callo	049 SP Lodge
050 SP Ace	050 SP Anlog	050 SC Oz
051 SC Point	051 SC Wind	051 CO Japan
052 CH Comet	052 ME Spark	052 KY Hrpz
053 BA Guppy	053 GT 12Str	053 SL Sqsaw
054 ST Blg	054 SE Files	054 BR CShm
055 BR Fatti	055 BR Miles	055 CO Laura
056 CO Inca	056 CO Happt	056 CO Orch2
057 KY Funky	057 KY Digi3	057 ME Hits
058 SP Vekta	058 SP Arpeg	058 ST Solo
059 SC Pizal	059 TP Bells	059 CO Soul
060 CH Oral	060 ME Hit	060 GT Wires
061 BA Doom	061 GT Acstc	061 OR Pan
062 ST Tron	062 SE Hero	062 BR 3 Osc
063 BR Swell	063 BR Fanfr	063 CO Fire

VOICE LIST

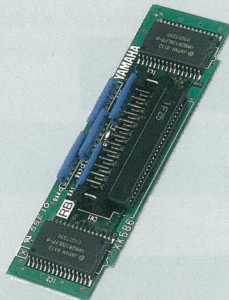
Preset 1	Preset 2	Preset 3	Preset 4	Internal 1	Internal 2
No. Voice Name	No. Voice Name	No. Voice Name	No. Voice Name	No. Voice Name	No. Voice Name
000 AP Grand	000 FI Lip	000 SC Dig2	000 SP Paddy	000 AP Brite	000 SC Hool
001 AP Chors	001 FI Sitar	001 SC Dig3	001 SP Phaze	001 AP Dark	001 SC Hand
002 AP Dance	002 GT Nylon	002 SC Ecco	002 SP Poly	002 AP Chrs2	002 SC WoodX
003 AP Rock	003 GT Dark	003 SC Fingr	003 SP SawSt	003 BA Pluck	003 SC Wire
004 AP Tack	004 GT Steel	004 SC Housy	004 SP Slow	004 BA Soul	004 SC Pain
005 AP Touch	005 GT 12Str	005 SC Jmey	005 SP Smoky	005 BA Stick	005 SC Pluck
006 BA Wood	006 GT Jazz	006 SC Metal	006 SP Space	006 BA Low	006 SC Reflx
007 BA Pitz	007 GT Strt1	007 SC Mute	007 SP Square	007 BA Head	007 SC Sprkl
008 BA Fingr	008 GT Strt2	008 SC Pan	008 SP Sweep	008 BA Tri	008 SC Thumb
009 BA Frlts	009 GT Strt3	009 SC Perc	009 SP Sweet	009 BR Punch	009 SC Uzzy
010 BA Pick1	010 GT Mute	010 SC Rezz	010 SP Vizon	010 BR Tpsf1	010 SC Vxcla
011 BA Pick2	011 GT Harm	011 SC Spike	011 SP Wine	011 BR Movin	011 SC Walk
012 BA Slap	012 GT Comp1	012 SC Sqiff	012 ST Violn	012 BR Ruber	012 SC Wits
013 BA Thump	013 GT Comp2	013 SC Synnr	013 ST JeanL	013 BR CS80	013 SC Wow
014 BA Syn 1	014 GT Dist	014 SC Topla	014 ST Sectr	014 BR Strai	014 SE Alien
015 BA Syn 2	015 GT Warm	015 SC Vocal	015 ST Power	015 BR Lush	015 SE Clox
016 BA Syn 3	016 GT Wah	016 SC Vox	016 ST Deep	016 BR Tpsf2	016 SE Crck
017 BA Syn 4	017 GT Feed	017 SC Wires	017 ST Dark	017 CH Quiet	017 SE Crsh
018 BA Syn 5	018 KY EP 1	018 SC Wondr	018 ST Brite	018 CH Kwire	018 SE Duel
019 BA Syn 6	019 KY EP 2	019 SE Alert	019 ST Arco	019 CH Spirt	019 SE Fear
020 BA Syn 7	020 KY EP 3	020 SE Templ	020 ST Stz	020 CH Analg	020 SE Roll
021 BA Syn 8	021 KY EP 4	021 SE Bdup	021 ST Pizz	021 CH VoxPc	021 SE Lava
022 BA Syn 9	022 KY EP 5	022 SE Chou	022 ST Tron	022 DR Tom	022 SE Laze
023 BA Syn10	023 KY EP 6	023 SE Demon	023 ST Anlog	023 FI Banjo	023 SE Mono
024 BA Syn11	024 KY EP 7	024 SE Dropr	024 ST Sizzl	024 FI Koto	024 SE Saw
025 BA Syn12	025 KY EP 8	025 SE Gobln	025 ST Synth	025 FI Str2	025 SE Swmp
026 BR Trump	026 KY EP 9	026 SE Hell	026 ST Thin	026 FI Tamba	026 SE Vaqum
027 BR Mute	027 KY EP 10	027 SE Hell	027 ST Combo	027 GT Fingr	027 SE Vektr
028 BR Horn	028 KY EP 11	028 SE Hyena	028 TP Glock	028 GT Armod	028 SE Zip
029 BR Tromb	029 KY EP 12	029 SE Indus	029 TP Xylo	029 GT Strat	029 SL lck
030 BR Tuba	030 KY Clav1	030 SE It	030 TP Vibs	030 GT Pedal	030 SL 2VCO1
031 BR TEns	031 KY Clav2	031 SE Noize	031 TP Tubal	031 GT Dist2	031 SL Ash
032 BR Tpts	032 KY Hrspi	032 SE Pops	032 TP Hands	032 KY Hrpz	032 SL Gth
033 BR Tpsfz	033 KY Acrdn	033 SE Rain	033 TP Siam	033 KY EP 13	033 SL Oint
034 BR Stab	034 KY Call1	034 SE Rezo	034 TP Steel	034 KY EP 14	034 SL Sqsaw
035 BR EnsSF	035 KY Call2	035 SE S&H	035 TP Loggy	035 KY EP 15	035 SL Ut
036 BR East	036 ME Bottl	036 SE Star	036 TP Bambu	036 KY EP 16	036 SP 1980
037 BR Syn 1	037 ME Gizmo	037 SE Up&Up	037 TP Mmba	037 KY EP 17	037 SP Decay
038 BR Syn 2	038 ME Grind	038 SE Wind	038 TP Timp	038 KY EP 18	038 SP Ear
039 BR Syn 3	039 ME Hand	039 SL Cutty	039 TP Syn	039 KY Harm	039 SP Glas2
040 BR Syn 4	040 ME Kali	040 SL Digi	040 TP SynDr	040 KY SyClv	040 SP It
041 BR Saw	041 ME Mello	041 SL Dist	041 TP Tinkl	041 KY Enshe	041 SP Lash
042 BR SawSF	042 ME Orch1	042 SL Hamma	042 TP Agone	042 ME Eubbl	042 SP Latt
043 BR Swell	043 ME Orch2	043 SL Lead	043 TP Angle	043 ME Hit	043 SP Lonly
044 BR Tooth	044 ME Orchr	044 SL Lyle	044 WN Sopr	044 ME Marin	044 SP Lyle
045 BR Rezz	045 ME Soro	045 SL Pulse	045 WN Alto	045 ME Mojo	045 SP Melo
046 BR Toto	046 ME Templ	046 SL Saw 1	046 WN Tenor	046 ME Poot	046 SP Nsty2
047 BR Wow	047 ME Tink	047 SL Saw 2	047 WN Bari	047 ME Sweep	047 SP Oscil
048 CH Aah	048 ME Tomi	048 SL Squar	048 WN SaxSF	048 ME Table	048 SP Ray
049 CH Och	049 ME Voics	049 SL Sync	049 WN Flute	049 ME Tremi	049 SP SioMo
050 CH Pure	050 OR Jaz B	050 SL Whisl	050 WN Fluc	050 ME Angel	050 ST Cello
051 CH Breth	051 OR Smoke	051 SP Abyss	051 WN Pan	051 ME Whisl	051 ST Cntra
052 CH Ghost	052 OR Airy	052 SP Bg	052 WN Clari	052 OR Door0	052 ST Chamb
053 CH Quire	053 OR Dist	053 SP Exita	053 WN Oboe	053 OR Jazz	053 ST Arco2
054 CH Vespa	054 OR Cheap	054 SP Freqs	054 WN Basso	054 OR Pipe	054 ST High
055 CH Vocod	055 OR Pipes	055 SP Glass	055 WN Recor	055 OR Rock	055 ST Anlg2
056 FI Blue1	056 OR Click	056 SP Goner	056 WN Breth	056 OR Smooth	056 TP Bell
057 FI Blue2	057 OR Perc	057 SP Hyper	057 MI Crash	057 SC Anti	057 TP Clock
058 FI Dudel	058 SC Ahal	058 SP Makro	058 MI EPNP	058 SC Bell2	058 TP GSVib
059 FI DulcD	059 SC Bari	059 SP Mello	059 MI Hiss	059 SC Blind	059 TP Tabla
060 FI DulcM	060 SC Bell	060 SP Movie	060 MI Ride	060 SC Blot	060 TP Boink
061 FI Harp	061 SC Clav	061 SP Nasty	061 MW EGBia	061 SC Chop	061 WN Flut1
062 FI Kalim	062 SC Digi1	062 SP Nehan	062 AT EGBia	062 SC Klav	062 WN Flut2
063 DR Kit	063 DR Zones	063 DR GMIDI	063 DR Efect	063 DR Revrs	063 DR Voice

TG-500 SPECIFICATIONS

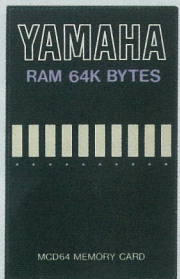
Tone Generator Systems	AWM2 (2nd-generation Advanced Wave Memory), 64-note polyphony.
Internal Memory	Wave ROM: 8 megabytes. Wave RAM: Expandable to 1 megabyte (optional SYEMB06 x 2). Preset ROM: 256 voices, 128 performance combinations. Internal RAM: 128 voices, 64 performance combinations, 16 multis. Data slot x 2, Wave slot x 2 (optional MCD64 memory card for voice data). 90 types (dual DSP units).
External Memory	Backlit 24-character x 2-line LCD. 2 LEDs.
Effects	Volume control.
Displays	12: play mode, edit/compare, data entry x 2, cursor x 2, page, enter, exit, store/copy, utility/select, memory).
Controllers	Headphones, audio output (stereo+ 4 individual),
Panel Switches	MIDI in, MIDI out, MIDI thru.
Connectors	US & Canadian models: 120 V, 18 W. General model: 220 ... 240 V, 18 W.
Power Requirements	440 x 347 x 44 mm (17-3/8" x 13-3/4" x 1-3/4")
Dimensions (W x D x H)	4.4 kg (9 lbs 11 oz)
Weight	

Specifications and appearance subject to change without notice.

OPTIONAL ACCESSORIES



SYEMB06
Expansion Memory Board
(0.5 megabyte per board)



MCD64
Memory Card

For details please contact:

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