



# Tyros 4

HEAR THE DIFFERENCE,  
PLAY YOUR DREAM



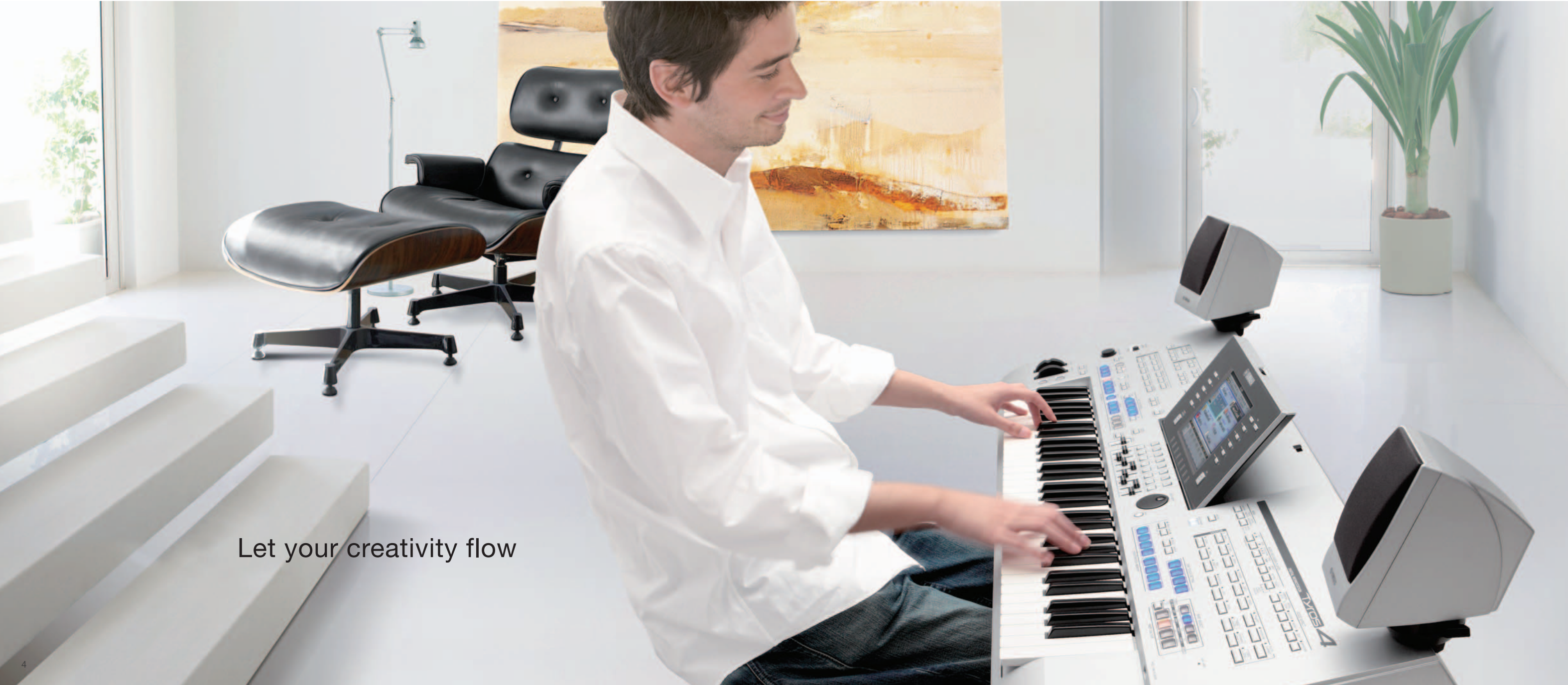
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The more things change, the more they stay the same. Now in its fourth generation, the Tyros4 retains its ease of use, ergonomic panel layout and playability, and augments it with an even greater and wider variety of Voices, Styles, and sophisticated features.

And the sound?  
Better than ever. More natural, more authentic, and exceptionally expressive. It's a difference you can instantly hear—one that inspires you to new creative heights and lets you play your dream!





Let your creativity flow

#### **Play to your heart's content**

Powered by the latest sound technologies, including Super Articulation, the Tyros4 has a wealth of amazingly authentic and naturally expressive Voices. The sound is so real—right down to the performance techniques—it truly makes your playing come alive!

#### **Extraordinarily expressive, realistic sound**

Super Articulation Voices give you a level of expressive realism you've never experienced before in a keyboard. The Choir Voices sound remarkably human and respond expressively to your control, while wind and brass instruments feature natural legato and staccato expression and let you easily use performance effects such as vibrato, pitch bend and glissando.

#### **Wealth of Voices and effects**

The Tyros4 provides 993 dynamic, realistic Voices, giving you instant access to virtually every instrument in the real world. In addition to the Super Articulation Voices, Live!, Cool! and Sweet! Voice categories feature exceptionally realistic acoustic and electronic instrument sounds. Special Mega Voices deliver enhanced realism and expression in Song data and MIDI recording applications. Moreover, there's an Organ Flutes section that lets you use the nine panel sliders to instantly adjust the individual flute footages. And for the final touch, a comprehensive set of Digital Signal Processing (DSP) effects let you enhance the sound in a variety of ways (with reverb, chorus or EQ).

#### **Powerful, pro-quality accompaniment**

With the huge set of 500 built-in dynamic Styles, the Tyros4 puts a full professional-sounding backing band at your disposal. The Styles of the Tyros4 have been vastly enhanced with new Super Articulation Voices, and made even more powerful with DSP effect processing. Guitar parts respond accurately to your chord changes with remarkable realism, and human voice sounds can also be played with unprecedented expressiveness.

There are many other performance tools and features to inspire your creativity as well. Multi Pads let you play in real time a wide selection one-shot phrases and special loops—which can automatically sync to the Styles. The convenient Music Finder feature lets you call up ideal Style and Voice setups for the particular type of music you want to play. Moreover, One Touch Setting presets with four specially programmed settings for each Style let you reconfigure the Tyros4 with the proper Voices and effects, for playing in that style of music, while the Registration Memory feature gives you eight pads for instant, total recall of your favorite panel settings.

## The all singing keyboard

The human voice is featured in almost every style of music imaginable, but because the sound is so familiar, it becomes one of the most difficult to convincingly reproduce on a keyboard instrument. Tyros4 uses new technology and clever sampling techniques to introduce a new dimension in vocals on digital workstations. Whether you're playing the new vocal Voices live on the keyboard or singing with the amazing new VH2 Vocal Harmony, you'll be amazed with the sound you create.



### New Vocal Voices & Styles

You'll hear something different as soon as you play Tyros4's classical choir Voices: the sound is incredibly natural thanks to Ambient Sampling. For sampling, microphones are normally positioned close to the instrument to capture a direct sound which includes very little of the room's ambience. For Tyros4's new classical choirs, the microphone positions were carefully adjusted to capture not only the sound of the choir but also the ambience of the room, resulting in unprecedented clarity and realism of sound.

Together with technologies such as Super Articulation, Tyros4's pop vocals use Yamaha's latest voicing technology, Wave Cycling, to bring hugely versatile vocal creativity to your performances. Tyros4 is packed with different vocal articulations such as Aah, Bah, Bee, Doh etc., and Wave Cycling varies the articulation of the Voice as you play. This means that you can now play incredibly realistic "shoo-bee-doo-bah" and scat vocals with remarkable ease! The vocal Voices in Tyros4 lend themselves to many different types of music from Pop to Latin, Classical to Jazz, and they sound great for any melody. But it doesn't stop with just great panel Voices, the Styles in Tyros4 also feature the new vocal sounds and this makes a vast difference to the entire sound field. Whatever genre of music you choose to play, Tyros4's new vocals make the Styles sing!

### Vocal Harmony 2

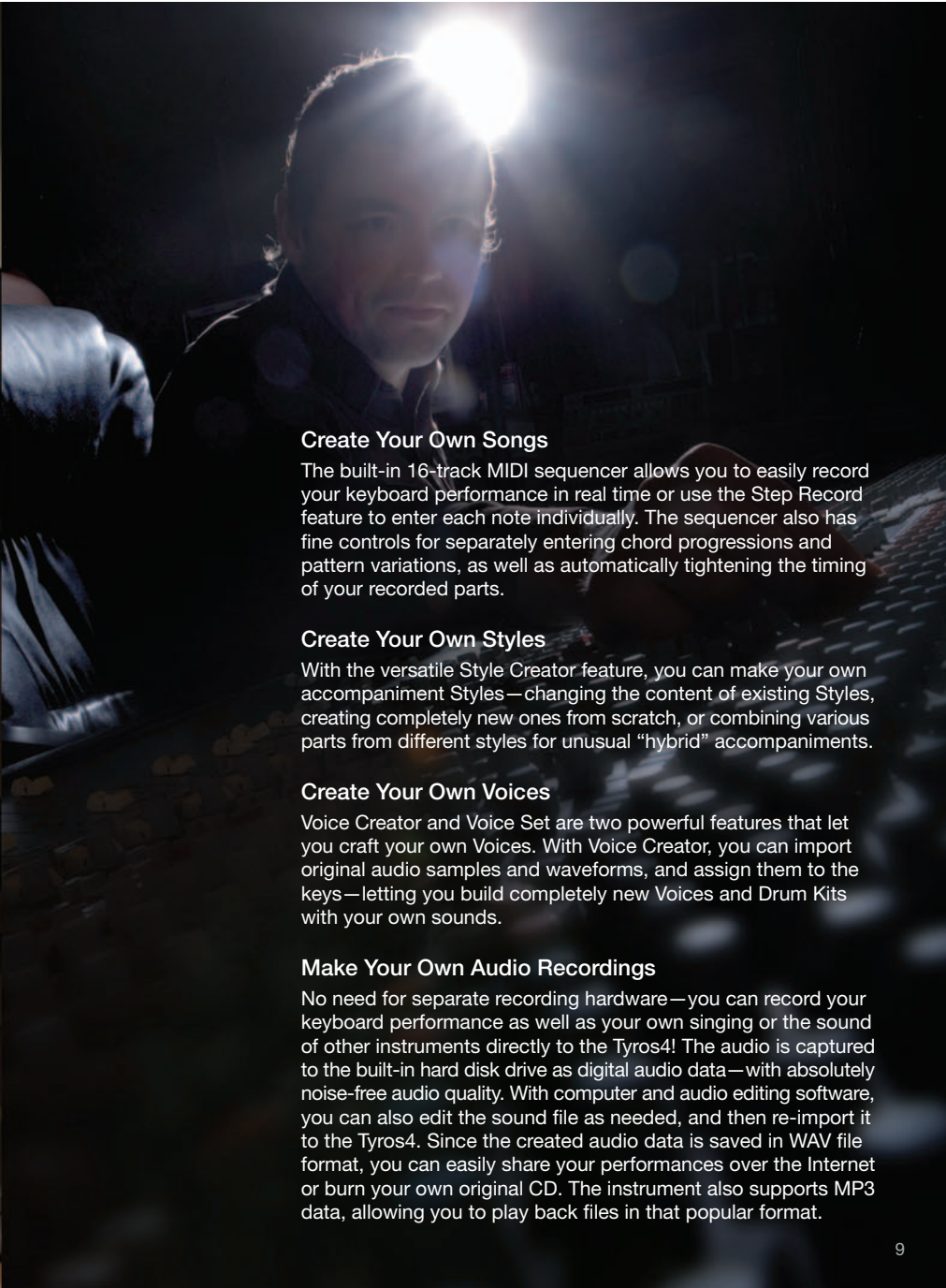
With Vocal Harmony you can sing along with your own virtual backing vocalists, and Tyros4's Vocal Harmony feature is such a step forward, we've given it a new name—VH2. You'll notice the quality from the moment you plug your microphone into the balanced XLR/Jack combination input. With dedicated DSP effect power, a new preamp and signal processing under the hood, VH2 delivers great sounding Vocal Harmony. Adding up to three harmony vocalists in addition to your own voice and with new pitch recognition and stability controls, you're sure to deliver a dazzling performance. A convenient real-time Mic Level indicator is included in the main display, and a new intuitive graphic user interface makes it easy to experiment with your own mic settings, effects and harmony types. To get you started Tyros4 includes 44 exciting Vocal Harmony presets, including male, female and SFX settings.

In addition to Vocal Harmony, VH2 features a new Synth Vocoder. This real-time vocal processor uses one of 10 carrier voices together with the microphone signal to create a 'talking synthesizer' effect. Simply sing or talk into the microphone and hear your voice instantly synthesized! A range of versatile presets with effect settings are provided, and you can make detailed parameter adjustments using the new graphic user interface to find your own sound.



## Making your musical dreams real

Packed full with comprehensive features for creating your own Songs, Voices, Styles and even audio recordings—everything you need to fully realize your creative potential.



### Create Your Own Songs

The built-in 16-track MIDI sequencer allows you to easily record your keyboard performance in real time or use the Step Record feature to enter each note individually. The sequencer also has fine controls for separately entering chord progressions and pattern variations, as well as automatically tightening the timing of your recorded parts.

### Create Your Own Styles

With the versatile Style Creator feature, you can make your own accompaniment Styles—changing the content of existing Styles, creating completely new ones from scratch, or combining various parts from different styles for unusual “hybrid” accompaniments.

### Create Your Own Voices

Voice Creator and Voice Set are two powerful features that let you craft your own Voices. With Voice Creator, you can import original audio samples and waveforms, and assign them to the keys—letting you build completely new Voices and Drum Kits with your own sounds.

### Make Your Own Audio Recordings

No need for separate recording hardware—you can record your keyboard performance as well as your own singing or the sound of other instruments directly to the Tyros4! The audio is captured to the built-in hard disk drive as digital audio data—with absolutely noise-free audio quality. With computer and audio editing software, you can also edit the sound file as needed, and then re-import it to the Tyros4. Since the created audio data is saved in WAV file format, you can easily share your performances over the Internet or burn your own original CD. The instrument also supports MP3 data, allowing you to play back files in that popular format.

## Tyros4 Optional Accessories



Monitor Speaker TRS-MS04



MIDI Foot Controller MFC10



Flash Memory Expansion Module  
FL512M / FL1024M

### Specifications

		TRS-MS04	
Type	Advanced Active Servo Technology		
Output power	Satellite speakers	20 W + 20 W (1 kHz, 4 Ω at T.H.D.=10%)	
	Subwoofer	40 W (100 Hz, 5 Ω at T.H.D.=10%)	
Frequency response	32 Hz to 20 kHz		
Speaker unit	Satellite speakers	Tweeter 1.9 cm (3/4") dome, magnetic shielding	
	Subwoofer	Midrange 8 cm (3") cone, magnetic shielding	
Power consumption	65W		
	Dimensions (W x H x D)	97 (3.8") x 159 (6.3") x 178 (7") mm	
Weight	Satellite speakers	0.7 kg (1 lb. 9 oz.) x 2	
	Subwoofer	7.4 kg (16 lbs. 5 oz.)	
Accessories	Speaker brackets x 2		
	RCA pin cables x 2		
	RCA pin/8-pin combination cable x 1		
	Owner's Manual		

		MFC10	
Program Change Memory	Normal:128, Mix:25		
Function Memory	100		
Control	Foot Switch x12		
	Onboard Foot Controller x1		
	Panel Switch x5		
	LED Display, Power Switch		
	MIDI IN/WX IN Switch		
Connectors	Function Normal/Mix Switch		
	External Foot Controller Jacks x4		
	MIDI IN/OUT		
Accessories	WX IN Terminal		
	DC IN Jack		
Dimensions	Owner's Manual, User Memo Sticker		
Weight	608 (23.9") x 215 (8.5") x 153 (6")mm		
Power Supply	3.5kg (7.7 lbs.)		
	PA3B or equivalent AC adaptor		

		FL512M		FL1024M	
Data size	512 MB		1GB (1024MB)		
Connectors	120-pin dedicated connector				
Dimensions	90 (W) x 50 (D) x 25 (H) mm				
Weight	35g		40g		

### Add Even More Sounds with Premium Packs and Voices



Premium Packs provide a full upgrade for your Tyros4 by adding new Premium Voices, Premium Styles, One Touch Settings, Multi-Pads, registrations and demonstration songs. Each Premium Voice gives you a fantastic new instrument sound that makes for a valuable addition to your Tyros4's selection of built-in factory voices. Visit us at [services.music.yamaha.com](http://services.music.yamaha.com) and expand your creativity!

### Available Now



#### Premium Pack – Euro & US Organ

Add two of the world's most popular organ sounds to your Tyros4 with this pack. Tyros4 features a wide range of organ voices but with the Euro and US organ pack you can add to this with detailed recreations of two legendary organ types.

#### Premium Pack – Choir & Vocals

Just what you've been waiting for! The human voice is truly the original musical instrument and features in almost every musical style imaginable. Bring new creative inspiration to your fingertips with new vocal and choir voices.

#### Premium Voice – SA2 Pan Flutes

Pan Flutes are an ancient wind instrument still widely used in folk and world music. They produce a warm, breathy sound which is great for playing lead melodies and easily stands out from the sound of typical accompaniment instruments.

#### Premium Voice – SA2 Trombone

Super Articulation 2 was introduced on Yamaha's Tyros4 to great acclaim. The same advanced technology is used to create this uncannily realistic trombone suited to a wide range of musical genres.

### Coming Soon

The Vintage Keyboard Premium Pack and the realistic sound of the Premium SA2 Saxophone Voice.

For more information about Premium Packs and Voices, visit  
[music-tyros.com/service](http://music-tyros.com/service)

### Expand the Tyros4 with Online Services

Take your music to the next level! With a Yamaha instrument and Online Services, you can learn, play and enjoy music in ways you never thought possible. Visit us at [services.music.yamaha.com](http://services.music.yamaha.com) and see just how far you can expand your musical horizons.

### Play

#### Play with Styles

Bring a full band sound to your solo performances—easy to control beats, fills, bass lines, and harmony accompaniments add depth and expression to your songs and help you play like a pro.



#### Play Right Away

Trying to set up your keyboard to play a particular song? Song "Records" make it easy, with perfect voice and style setups for an authentic rendition of any popular song.



#### Play with Songs

Discover new ways to play with Yamaha song downloads. You can mute parts or create new ones, change instrument voicings, adjust volumes, tempos, keys, and more—play along however you want.



### Learn

#### Take Lessons

A Yamaha instrument is a great learning tool, offering many new, exciting and easy ways to learn music. Even if you've never played before, interactive instrument functions and online lessons will have you playing in no time.



### Listen

#### Listen to Radio

Imagine your favorite artists performing in your home! Get 24-hour access to over a dozen channels of high quality piano music that play directly through your instrument for a unique listening experience.



#### Listen to Songs

Open up your ears to a new way to listen to music—classic, professional interpretations of the world's greatest songs, played with the famous Yamaha piano sound.



[services.music.yamaha.com](http://services.music.yamaha.com)



Keyboard Stand  
L-7S



Foot Switch  
FC4



Foot Switch  
FC5



Foot Controller  
FC7



# Tyros4 Panel Controls & Terminals



## TOP Panel

- 1 MIC GAIN control
- 2 MASTER VOLUME control
- 3 DEMO button
- 4 FADE IN/OUT button
- 5 UPPER OCTAVE buttons
- 6 PITCH BEND wheel
- 7 MODULATION wheel
- 8 ART. 1/ART. 2 buttons
- 9 PHONES jack
- 10 MIC buttons
- 11 SONG buttons
- 12 STYLE category selection buttons
- 13 STYLE CONTROL buttons
- 14 TEMPO buttons
- 15 MULTI PAD CONTROL buttons
- 16 TRANSPOSE buttons
- 17 MIXING CONSOLE button
- 18 CHANNEL ON/OFF button
- 19 BALANCE button
- 20 LCD and related controls  
(The entire display panel is 5-point adjustable; flat for storage or tilted up to enhance visibility during performance.)
- 21 MENU buttons
- 22 AUDIO RECORDER/PLAYER buttons
- 23 VOICE EFFECT buttons
- 24 INTERNET button
- 25 MUSIC FINDER button
- 26 VOICE category selection buttons
- 27 REGISTRATION MEMORY buttons
- 28 ONE TOUCH SETTING buttons
- 29 PART SELECT buttons
- 30 PART ON/OFF buttons
- 31 USB TO DEVICE terminal



## Rear Panel

- 1 TO RIGHT SPEAKER jack
- 2 LAN terminal
- 3 USB TO HOST terminal
- 4 USB TO DEVICE terminal
- 5 ASSIGNABLE FOOT PEDAL jacks
- 6 MIDI terminals
- 7 RGB OUT terminal
- 8 VIDEO OUT terminal
- 9 LINE OUT jacks
- 10 AUX IN/LOOP RETURN jacks
- 11 AUX OUT/LOOP SEND jacks
- 12 MIC jack (Combo Jack) either XLR or 1/4" Phone plug connector
- 13 TO SUB WOOFER jacks
- 14 Power on/off switch (⏻)
- 15 AC IN terminal
- 16 TO LEFT SPEAKER jack

## Tyros4 Specifications Chart

Keyboard	Keys	61 keys (C1–C6) Initial Touch/Aftertouch
	Type	Organ (FSX)
Voice	Polyphony (max)	128
	Layer	R1/R2/R3/L
	Split	Style (default point: F#2), Left (default point: F#2), Right 3 (default point: G2)
	Voices	993 Voices + 30 Organ Flutes + 480 XG Voices + 256 GM2 Voices + 44 Drum/SFX Kits (And GS Voices for GS Song playback)
	S.Articulation2! (AEM technology)	15 (additional 15 for Styles) [STRINGS] JazzViolin/CelticViolin [TRUMPET] JazzTrumpet/ClassicTrumpet [SAXOPHONE] PopSoprano/BalladSoprano/JazzSax/BreathySax [FLUTE/CLARINET] Clarinet/BalladClarinet/RomanceClarinet/IrishPipeAir/IrishPipeDance [ACCORDION] Harmonica/BluesHarp
	S.Articulation!	164
	MegaVoice	43
	Live!	101
	Cool!	71
	Sweet!	30
Voice Expandability	Organ Flutes!	30 Presets
	Drums	44 (including SFX Kits)
Voice Expandability	Custom Voice	Yes
	Premium Voices	Yes (optional flash memory expansion module is necessary)
	Voice Set	Yes
Style	Styles	500
	Format	SFF GE
	Control	SYNC STOP, STNC START, START/STOP, AUTO FILL IN
	Section	Intro x 3, Ending x 3, Main x 4, Fill In x 4, Break
	Fingering	Single Finger, Fingered, Fingered On Bass, Multi Finger, AI Fingered, Full Keyboard, AI Full Keyboard
	Style Creator	Yes
	RAM Capacity per a Style	approx. 120 KB
OTS (One Touch Setting)		4 for each Style
Music Finder	Preset Records (Max.)	135 (2,500)
	Music Finder Plus	Yes
Song	Preset Songs	5 Sample Songs
	Control	REC, STOP, PLAY/PAUSE, REW, FF, METRONOME

Song	Recording	Quick Recording, Multi Recording, Step Recording
	Tracks	16
	RAM Capacity per a Song	approx. 300 KB
	Lyric Display	Yes
	Score Display	Yes
	Song Position Jump	4 point / Loop
Style/Song Control		FADE IN/OUT, TAP TEMPO, TEMPO (5-500)
Data Compatibility		GM, XG, XF, SFF, SFF GE, GM2/GS (for Song Playback)
Pack Installation		Yes
Audio Recorder/Player	Tracks	Play: 2 Stereo Track (Multi), 1 Stereo Track (Simple) REC: 1 Stereo Track (Multi/Simple)
	Control	REC, STOP, PLAY/PAUSE, PREV, NEXT
	File Format	Play: .mp3 (MPEG-1 Audio Layer-3), .wav REC: .wav
MultiPad	Preset	164 banks x 4 Pads
	Control	Pad 1–4, STOP, SYNC START
Vocal Harmony	Preset	Vocal Harmony: 44 Synth Vocoder: 10
	User	60 * The number is the total of Vocal Harmony and Synth Vocoder.
	Vocal Effect	23
Mic Setting	User Memory	10
Effects	Reverb	44
	Chorus	106
	DSP1–DSP7	285
	DSP8–DSP9	285 (for Style)
	Master Compressor	5 Presets + 5 User settings
	Master Equalizer	5 Presets + 2 User settings
Registration Memory	Harmony/Echo	Yes
	Sustain Button	Yes
	Buttons	1–8
	Control	Bank select, Memory, Freeze, Registration Sequence
Control	Pitch Bend Wheel	Yes
	Modulation Wheel	Yes
	Articulation Switch	ART. 1, ART. 2
	Sliders	9 (including 1 assignable)
Transpose		-12–0–12 (Keyboard/Song/Master)
Tuning		414.8–440–466.8 Hz

Display		640 x 480 dots TFT VGA color 7.5 inch LCD
	Language	5 languages (English, German, French, Spanish, Italian)
	Text Viewer	Yes
	Wallpaper Customize	Yes
Storage		USB to Device
	Internal Flash	6MB
	Internal Hard Disk Drive	250GB or more
Terminals	USB TO HOST	USB 2.0 HighSpeed x 1
	USB TO DEVICE	USB 2.0 HighSpeed x 2 (Front/Back)
	MIDI	MIDI A (IN/OUT), MIDI B (IN/OUT)
	FOOT PEDAL	1 (SUSTAIN), 2 (ARTICULATION 1), 3 (VOLUME), Function Assignable
	Audio	LINE OUT MAIN (L/L+R, R) LINE OUT SUB (1, 2) LOOP SEND (L/L+R, R) / AUX OUT (Level Fixed): Selectable LOOP RETURN (L/L+R, R) / AUX IN (with TRIM control) MIC jack (Combo Jack) PHONES
	RGB Out	Yes
	VIDEO OUT	NTSC / PAL Composite
	LAN	Yes (100BASE-TX/10BASE-T)
	For Option Speaker	To Satellite Speaker (L/R), To Sub Woofer (L/R)
	Power Supply	AC IN
Dimensions [W x D x H] (without Music Rest)		1140 x 450 x 143 mm
Weight (without Music Rest)		14.5 kg

### Optional Accessories

Speaker	TRS-MS04
Headphones	HPE-150/ HPE-160/ HPE-170
Footswitch	FC4/ FC5
Foot Controller	FC7
Flash Memory Expansion Module	FL1024M/ FL512M
MIDI Foot Controller	MFC10
Keyboard Stand	L-7S

Refer to the following special website for more information

<http://music-tyros.com/>