YAMAHA

AW16G

SIMPLY AWESOME!

AW16G

◎ **16-Track Digital Recorder** ◎ **Quick Loop Sampler** ◎ **Parametric EQ and Dynamics**

◎ **Pro Quality Effects** ◎ **Sound Clip Recorder** ◎ **Optional CD-RW Drive**

Professional Digital Music Production Made Quick and Easy

The AW16G takes state-of-the-art digital recording technology and puts it in the hands of the artist, giving you the power to take your music from concept to CD, quickly and easily. It all starts with a clear, intuitive interface that makes setup and recording a breeze. A Quick Rec function lets you quickly assign inputs to recording tracks through the visual ease of its graphic display. Navigation is easy too, with dedicated buttons that let you freely switch between the functions you use most, such as Record and Monitor modes. Eight channel inputs with 24-bit A/D conversion let you record up to 16 tracks of audio (eight simultaneously) with pristine fidelity. Plus each track can contain up to eight virtual tracks for recording alternate takes, giving you unprecedented creative freedom for your music. There's even a Quick Loop Sampler for making drum grooves and adding sound effects. Once your tracks are recorded, you can add dynamics and parametric EQ to each channel and use the AW16G's powerful built-in effects to further sweeten up the sound. Selected Channel knobs, conveniently located next to the LCD panel, give you direct access to these and other parameters, allowing you to adjust them on the fly as you record and mix your tracks. And with the optional CD-RW drive, you can burn CDs of your final mix without ever leaving the digital domain. When it comes to making professional-quality recordings of your music, the AW16G has everything you need...without the learning curve!

- **Powerful 16-track digital audio workstation with 8 simultaneous record tracks and 144 virtual tracks**
- **Dynamics processing and 4-band parametric EQ on all channels**
- **Two blocks of high-quality multi-effects taken from the popular AW4416 Professional Audio Workstation**
- **13 types of studio-quality mastering effects**
- **Quick Loop Sampler with 4 stereo sample pads for recording drums and sound effects (CD-ROM with over 250MB of samples included!)**
- **Sound Clip function to quickly capture ideas while practicing**
- **Built-in 20GB hard disk**
- **Optional CD-RW drive lets you burn CDs of your music and back up recording data**
- **Steel top panel provides added durability and a professional look**

Made for Wherever You Make Music

Right at Home in Your Home Studio

Whether you work mainly with acoustic instruments or use software-based synthesizers and sequencers,
the AW16G can easily integrate into your existing production environment.
Equipped with eight mic/line inputs (including two phantom-powered XLR inputs and one HI-Z guitar input),
the AW16G can accommodate virtually any type of analog input source.
Plus optical S/PDIF input and output terminals allow you to connect digital peripherals,
such as DAT recorders, MD decks and CD players, to conveniently import and export digital audio.
MIDI IN, OUT and THRU jacks let you connect the AW16G to external synthesizer workstations,
drum machines and sequencers for synchronized recording and playback.
And if you use a computer for music production, you can use the AW16G as
a MIDI Remote Control surface for convenient hands-on control over the virtual mixing console
and playback transport of popular software packages, such as Cubase,
Logic and Sonar, using the physical faders and controls of the AW16G!
You can even program your own remote templates by sending MIDI control data
from a device to the AW16G in Remote mode. Control the filter cutoff of
a synthesizer or the channel volumes of an XG tone generator, for example.
If you prefer to edit audio data with a software-based editor,
you can use the AW16G's WAV Export function to transfer recorded audio tracks
to your computer via the optional CD-RW drive.

Home Recording

The Ultimate Mobile Recorder

Compact and lightweight, the AW16G
makes an ideal portable digital recorder
to complement a computer-based
recording studio.
Take it to a rehearsal studio
or to a gig, and record a live
performance of your band. Eight analog
inputs provide ample room for complex
microphone and instrument setups.
Mic an entire drum set, for example.
The AW16G can record up to eight tracks simultaneously,
so you can record the kick drum, snare, cymbals and toms to
separate tracks, if you'd like. Once you get back to the studio, you can
transfer the recorded data to your computer
for editing and mixdown.

Live

## Sound Clip: A Sketchpad for Your Musical Ideas

Sometimes the best ideas seem to come out of
nowhere. And when inspiration strikes, the
AW16G's Sound Clip function is ready to
capture the moment—without having to deal
with input routings, track assignments and other
time-consuming setups. Working essentially as an
endless tape recorder, Sound Clip gives you up to
180 seconds of looped recording time using special
memory, separate from that of the 16 record
tracks. This gives you the freedom to experiment
with musical ideas before committing them to a
project. Just plug in, hit record, and jam away. You
can even record yourself playing the sample pads,
or jam along with a drum loop as you record.
Whenever you come across a great lick or melody,
stop the recorder and copy
the phrase to a track, or
assign it to a sample pad, and
use it in a recording session.

The AW16G can record up to eight tracks of audio
simultaneously, making it an ideal portable digital
recorder for live band recording—simply plug each
microphone and instrument into its own channel,
record the show, and then mix everything to
perfection when you get home!
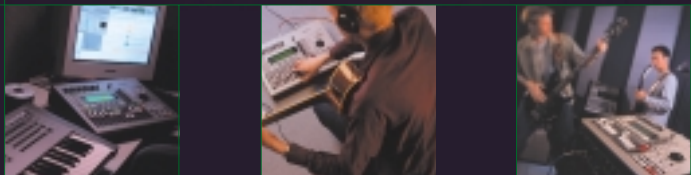
From Conception to Completion, the AW16G Gives You Everything You Need to Sound Like a Pro!

Multitrack Recording Made Simple

Although packed with powerful recording functions, the AW16G is surprisingly easy to set up and use. Simply route the input sources to the tracks you want to record to by pressing the respective Input and Track buttons. The display will graphically show the connections you have made.

It takes a minimum of effort to record a great guitar sound with the AW16G. Rather than having to mic your guitar cabinet to get a warm compressed sound, simply choose one of the 5 speaker simulator presets and tweak the settings to your liking. You can then add distortion/overdrive, compression and other effects to shape your tone just the way to want it. A HI-Z input is provided for recording guitars with maximum clarity and punch.

Input routings are clearly shown on the display.

A number of other features help take the work out of the production process and let you focus on being creative. Each of the AW16G's 16 playback tracks can have up to eight virtual tracks for recording multiple takes or variations of solos. Scene Memory lets you store the AW16G's current mixer settings, such as fader levels, pan position, muting and effects routing, and recall them at the touch of a button. This makes it easy to lay out the basic structure of your song (intro, verse, chorus, etc.) and "A-B" different mixes for comparison.

The AW16G's built-in effects library includes a variety of guitar presets.

Lay Down Drum Grooves with the Quick Loop Sampler

The AW16G's built-in loop sampler makes it easy to add realistic drum tracks and sound effects to your recordings. Simply assign audio samples to the 16 flash memory locations and tap the sample pads as you record. Right out of the box, the AW16G comes with a sample library containing over 250MB of professionally produced drum kits, loops and other stereo samples for you to use in your music. You can even record your own samples directly into memory, copy and paste audio phrases from tracks you've recorded, or import WAV files from a CD. And even if the original loops don't match the tempo of your song, the AW16G's Slice function will automatically sync them to the proper BPM—without changing their pitch! Each sample pad has its own recording track, so you don't have to use up any of the 16 audio tracks to record samples.

Mix and Master Your Music to Perfection

Once all your tracks have been recorded, use the AW16G's advanced mixing and audio processing capabilities to give your song a professionally produced sound. Pan controls let you spread your tracks across the stereo field, and dynamics processing and precision 4-band parametric EQ on all channels allow you to carefully "carve out" a place for each instrument in the mix. Two onboard digital effects processors provide a variety of effects templates for vocals, guitars, bass and drums, which you can use "as is" or as a starting point for creating your own effects library. A total of 13 types of mastering effects are also included, making it possible to give your final recording that extra punch and presence heard on today's commercially produced music CDs. The DSP used in the AW16G is based on that of other Yamaha AW series professional audio workstations, assuring you the highest standards of quality for your music.

4-band parametric EQ on all channels gives you precise control over your sound.
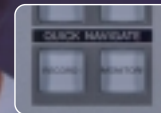
Switching between Record and Monitor modes is quick and easy thanks to the AW16G's Quick Navigate buttons.

Use the AW16G's built-in mastering effects library to put the final touches on your song before recording to CD-R.

Dynamics Processing on All Channels

Dynamics processing is one of the most important audio production tools needed to create a professional-sounding mix. Yet, the AW16G is the ONLY digital audio workstation in its class that gives you compression, expansion, gate and ducking on ALL channels, providing extremely powerful and flexible dynamics processing to help you get the most out of your recordings.

Not familiar with compression? No problem. The AW16G makes it a snap to adjust the settings—simply turn a single knob to increase or decrease the effect level, and all of the associated parameters will change to an optimum relative value. Of course, you can also tweak the parameters individually, if you desire.

Burn to CD!

Equipped with the optional CD-RW drive (CDRW16G), the AW16G lets you burn your final mix right to inexpensive CD-R media. For making CDs of long continuous jam sessions, the AW16G includes a Song Marking feature that lets you split a single song file into separate tracks. You can also use the CD-RW drive to back up your recording session data. Plus the AW16G is compatible with the backup file formats of both the AW4416 and the AW2816 Professional Audio Workstations, so you can import backup CDs directly from either of these workstations without having to first convert the audio tracks to a standard format like WAV. The CD-RW drive's improved recording speed allows you to make more CD copies of your demo in a shorter period of time.

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CREATING 'KANDO' TOGETHER

Options

Internal CD-RW drive
Installing the optional CD-RW drive is quick and easy.
Simply slide it in and secure two screws. There's no need to open up
the unit or install any software drivers. Just plug and play.

FC-5 Footswitch
Use the optional FC-5 footswitch for convenient Punch In/Out
recording and other operation enhancements.

General Specifications

Frequency Response	20Hz–20kHz (0 +1/-3 dB Mic/Line In to Stereo Out)
Total Harmonic Distortion	Less than 0.03% @1kHz/ -10dBV (Line In to Stereo Out)
Dynamic Range	103 dB Typ. (Line In to Stereo Out)

HD Recorder Section

Internal Tracks	144 Tracks (16 Tracks + Stereo Track) x 8 Virtual Tracks
Simultaneous Recording	8 Tracks
Simultaneous Playback	16 Tracks
Recording Resolution	16 Bit Linear (uncompressed)
Maximum Songs	1,000 Songs
Locate Point	RTZ, A/B, LAST REC IN/OUT
Mark	99
Punch I/O	Auto Punch I/O, Manual Punch I/O
HDD	2.5" IDE (pre-installed, 20 GB)
Sound Clip	Max. 180 seconds

Mixer Section

A/D Conversion	24 Bit
D/A Conversion	24 Bit / 128 times oversampling
Internal Processing	32 bit
Simultaneous Mixing Inputs	Total 36 CH
	Mic/Line Input x 8, Internal Effect Return x 4, Recorder Monitor x 16, Quick Loop Sampler x 4 Stereo
Sampling Frequency	44.1kHz ±6%
Busses	Total 8 Busses (Bus x 2, Aux x 2, Stereo, Effect x 2)
Channel Functions (Input 1–8, Pad1–4, Track 1–16)	Attenuation, Phase, 4-band fully parametric EQ, Dynamics, Bus assign, Channel On/Off, Pan
Memory	Scene Memory, EQ Library, Dynamics Library, Effect Library, Channel Library, Sample Library
Faders	45 mm x 13
Effects	Input Library (for Electric Guitar, Acoustic Guitar, Bass, Vocal, Speaker Simulator), Mastering Library, Reverb, Delay, Modulation, Distortion, Dynamics, Multi, etc.

Quick Loop Sampler

Playback Polyphony	4 voices (Stereo)
Recording Time	Total 44 seconds (Stereo)
Audio File Assign	HD Recorder, External Input, WAV File, Audio CD

CD-RW Section: Yamaha CDRW16G (Option)

Functions	Playback/Make audio CD, Import from audio CD, WAV file import/export Save/Load backup data from/to HD

Inputs and Outputs

Input	Mic/Line In 1, 2 (Balanced XLR)	Nominal Input Level/ -46 dB – + 4dB +48V Phantom power supplied
	Mic/Line In 3-8 (Balanced TRS Phone)	Nominal Input Level/ -46 dB – + 4 dB
	Mic/Line In (HI-Z) 8 (Unbalanced Phone)	Nominal Input Level/ -46 dB – +4 dB
Output	Stereo/Aux Out (Unbalanced Phone)	Nominal Output Level/ -10 dBV
	Monitor Out (Unbalanced Phone)	Nominal Output Level/ -10 dBV
	Phones	Max. Output Level 100 + 100 mW Typ. (40 ohm load)
Digital I/O	Digital Stereo In/Out	Optical

Others

File System	AW16G original format (AW4416/AW2816 file exchange and track import possible)
Display	240 x 64-dot backlit LCD
MIDI	MTC, MIDI Clock, MMC, Program Change, Control Change, Bulk Dump, MIDI Remote
Accessories	CD-ROM (Sample library [preinstalled on HDD], Demo Song, MIDI Remote Templates)

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LPA 465   Printed in Japan