

2488neo

Digital Portastudio



The 2488neo is the successor of the 2488MkII, by far the most affordable 24-track recording and mixing workstation ever made for home studios.

Eight inputs can be simultaneously recorded into the XLR and jack inputs. Each song can have up to 250 virtual tracks, 24 of which can be chosen for the final mix. A submixer allows to add eight more input channels during mixdown for a total of 32 mixing channels. A further stereo track is provided for recording the pre-master which can then be written directly to CD/CD-RW.

The 2488neo has four XLR inputs with switchable phantom power for condenser mics plus four balanced jack inputs one of which can be switched to high impedance for electrical guitars. Each track and input offers 3-band EQ and three effect sends for sound and dynamics variation.

The 2488neo's editing functions enables the user to edit their audio tracks with high precision. Sections can be copied and pasted, cut and moved, tracks can be duplicated and up to 999 steps can be undone and redone. Alternative takes allow users to select the best take from multiple takes of a recording session.

For data backup, songs can be written to CD-R/CD-RW or can be transferred to a computer via a USB connection. Songs can also be exported as WAV files, and mono WAV files can be imported into songs. There's even more to explore—ask your specialized dealer for the 2488neo!

Main Features

Recorder section

- **24-track HDD-based multitrack recorder (80 GB)**
 - 44.1 kHz, 24/16 bit
 - Simultaneous playback of 24 tracks
 - Simultaneous recording of 8 tracks
- **250 assignable virtual (alternative) tracks**
- **2 additional tracks for mastering**
- **Powerful editing functions**
 - Copy -> Paste/Insert, Copy From -> To (allows precise alignment of a copied section), Move -> Paste/Insert, Open, Cut, Silence, Clone Track, Clean Out, Loop Paste
- **Flexible Undo/Redo**
 - 999-level history allows undo/redo of track editing, recording, auto punch and mastering operations
- **999 markers plus In/Out/To locate points per song**
- **Return To Zero function**
- **Manual punch in/out**
 - Use the transport keys or an optional foot switch (Tascam RC-30P) to start/stop a recording session
- **Auto punch in/out**
 - Start/stop recording automatically
 - Multiple take function: Record a section many

Channel link

- Control two channels with one set of controls
- **Solo/Mute**
 - Pre-listen and mute channels individually
- **Flexible on-board digital patch bay**
 - Assign inputs and tracks to mixer channels with a few key presses
- **Quick setup utility**
 - Instantly load track assignments for commonly used procedures like Recording, Track Bouncing or Mixdown
- **Snapshot memory**
 - Store settings of your recording session to recall them whenever you want
- **Digital input (SPDIF)**
- **Analogue (RCA) and digital (SPDIF) master outputs**
- **TRS quasi-balanced monitor output**
- **Headphones output**

Effects

- **Internal effects and dynamics processors**
 - Reverb, delay, chorus and others to be used as loop effect
 - Up to 4 insert mic effects
 - Assignable guitar multi-effects processor for overdrive distortion, delay, flange, amplifier

times, then choose the best take to insert

- **Rehearsal function**
 - Practise your takes until you're ready for recording
- **Repeat playback or recording function**
 - Practise or record a section as often as you wish
- **Variable pitch**
 - Alter both playback and record speed/pitch by $\pm 6\%$
- **Slow Speed Audition**
 - Reduce the playback speed of a selected pair of tracks by 50-100% to rehearse tricky lead lines etc.
- **Waveform view**
 - Set playback marker or locator points precisely by scrolling through the waveform of your recording

Mixer

- **24+8-channel digital mixer**
 - Main: 12 mono + 6 stereo channels, Sub: 8 mono channels
 - 20 physical faders
 - Physical master fader for submix
- **3-band EQ on all 24 channels and 8 inputs**
 - High and low sweepable shelving bands and full parametric mid band
- **8 analogue inputs**
 - 4 XLR/TRS balanced inputs with phantom power
 - 4 TRS balanced inputs (one shared with additional connector on unit's front for direct connection of a guitar or electric bass)
 - 8 trim controls and 8 overload indicators
- **3 aux sends on all input and track channels**
 - For use with internal loop effects or external effects devices or for monitoring purposes

- simulation, acoustic guitar simulator and more
- Dedicated stereo dynamics processor on the stereo output

- **Chromatic tuner**
- **Mastering compressor (single band or multi-band)**
- **Mastering equalizer and noise shaper**

MIDI

- **Sync to MTC (Master/Slave)**
- **MMC (MIDI Machine Control)**
- **MIDI Clock output with SPP (Song Position Pointer)**
- **Metronome**
- **Import and play Standard MIDI (SMF) files (external sequencer or sound module needed for audio output)**

CD writer

- **On-board CD-RW drive**
 - Burn your mixdown on CD
 - Import/export WAV files
 - Backup your hard drive
 - Play Audio CDs
- **Live Writer function**
 - Use the markers to set track increments automatically

Other

- **High-speed USB 2.0 port**
 - Connect your PC/Mac for data backup/restore and SMF/WAV file transfer
- **Connector for expression pedal**
 - Allows control of Wah or Volume

Specifications

Analogue inputs and outputs

MIC/LINE inputs (A-D)	Combined XLR/6.3-mm TRS connector
Input impedance	XLR: 2 kOhm, TRS: 8 kOhm
Input level	XLR: -57 dBu (MIC) to -10 dBu (LINE) TRS: -43 dBu (MIC) to +4 dBu (LINE)
Nominal input level	XLR: -10 dBu, TRS: +4 dBu
Maximum input level	XLR: +6 dBu, TRS: +20 dBu
MIC/LINE inputs (E-H)	6.3-mm TRS jack
Input impedance	4 kOhm
Input level	-43 dBu (MIC) to +4 dBu (LINE)
Nominal input level	+4 dBu
Maximum input level	+20 dBu
Input H (GUITAR)	6.3-mm jack (unbalanced) on front panel
Input impedance	1 MOhm
Input level	-55 dBu to -8 dBu
STEREO L/R outputs	RCA (unbalanced)
Output impedance	100 Ohm
Nominal output level	-10 dBV
Maximum output level	+6 dBV
EFFECT SENDS 1 and 2	6.3-mm TRS jack (unbalanced)
Output impedance	100 Ohm
Nominal output level	-10 dBV
Maximum output level	+6 dBV
MONITOR L/R outputs	6.3-mm TRS
Output impedance	100 Ohm
Nominal output level	-2 dBV
Maximum output level	+14 dBV
PHONES output	Stereo 6.3-mm jack
Maximum output level	55 mW + 55 mW (into 30 Ohm)

Digital inputs and outputs

DIGITAL input	RCA jack
Data format	IEC60958 Type II (SPDIF)
DIGITAL output	RCA jack
Data format	IEC60958 Type II (SPDIF)

Audio performance

Sampling frequency	44.1 kHz
Word length	16-bit/24-bit (user-selectable, per song)
Crossfade time	10 ms
Number of tracks	
Playback	24 simultaneously
Recording	8 simultaneously
Virtual	250 per song
Frequency response	
INPUTS A to H --> STEREO / EFFECT SEND / MONITOR	20 Hz – 20 kHz +1.0/-1.0 dB (trim at max.)
Noise level (inputs 150Ohm terminated, faders at nominal, 20k LPF)	
INPUTS A to H --> STEREO/EFFECT SEND	<90 dB(A)
INPUTS A to H --> MONITOR (trim at min.)	<82 dB(A)
Dynamic range (faders at nominal, 20k LPF)	
INPUTS A to H --> STEREO/EFFECT SEND/MONITOR	>96 dB(A)
Crosstalk (1 kHz, trim at minimum, 1 input at max, faders at nominal, 20k LPF)	
INPUTS A to H --> STEREO/EFFECT SEND/MONITOR	>80 dB(A)
Total Harmonic Distortion (inputs at max., 20k LPF, trim at min.)	
INPUTS A to H --> STEREO/EFFECT SEND/MONITOR	<0.01 %

Power supply and other specifications

Power requirements	230/240 V AC, 50/60 Hz
Power consumption	41 W
Applicable electromagnetic environment	E4
Dimensions (W x D x H)	545 mm x 355 mm x 145 mm
Weight	8 kg

Design and specifications subject to change without notice.

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