

PRO AUDIO & BROADCAST 2011



TASCAM[®]
TEAC PROFESSIONAL

HS-P82



RC-F82
Fader Controller for HS-P82



- Dual Compact Flash recording media supports backup, mirroring and seamless A/B recording
- Long battery life through low power usage
- Easy to read and operate using pivoting TFT Color Touch Panel interface
- All-aluminum chassis is rugged yet lightweight
- 8-track recording plus stereo mix for a total of 10-track recording
- 8-track recording at up to 96kHz/24-bit
- 4-track recording at 192kHz/24-bit
- Broadcast WAV (BWF) support with iXML metadata
- Various power options include AA batteries (x10), NP type, AC adaptor, external DC input and optional V-mount adaptor for ENDURA batteries
- Up to 5-second pre-record buffer
- Internal microphone for slate recording
- Limiter and low-cut filter per track
- Auto or manual cue points
- Alert signal to headphone output
- Retake function
- Panel lockout function to prevent accidental transport switching
- 8 high-quality microphone preamps and A/D converters with independent +48V phantom power for each (standard XLR connectors)
- 8 AES/EBU inputs and outputs (DB-25 connector)
- Sampling rate converter on each AES/EBU input
- 2 balanced analog outputs (XLR connector)
- Stereo digital output (BNC connector)
- SMPTE Timecode In and Out (BNC connector)
- Video/Word Clock/Cascade I/O (BNC connector)
- Headphone out (1/4" stereo jack)
- PS/2 keyboard input for track naming
- USB 2.0 high-speed data transfer to PC
- Optional AR-P82 case by PortaBrace
- 8 lbs (without battery)

TASCAM's **HS-P82** offers 8 tracks of the highest quality recording, yet it's built for the rigors of location recording with reliable solid-state performance. The HS-P82 is built for location television and film production audio, with eight microphone inputs for big shoots or reality programs. The standard XLR microphone inputs include phantom power and analog limiting, with trims controlled from recessed front-panel controls. In addition to the eight individual tracks, a stereo mixdown can be recorded for instant use during editing.

Audio is recorded at up to 192kHz/24-bit WAV format to a pair of Compact Flash cards. This solid state media is completely reliable with no moving parts, and you can record to both cards simultaneously for extra security. The Broadcast WAV files include iXML metadata for quick import into nearly any video or audio editing system via the USB 2.0 connection or a standard card reader.

The HS-P82 offers several options for power. It runs on either AA or NP batteries, an included AC adapter, external DC input or a V-mount adapter for Endura batteries. An internal slate microphone is available for naming takes. A 5-second pre-record buffer, front panel lockout and headphone output alert signal inspire confidence in recorded takes.

For high-resolution music recording, a set of AES/EBU connectors is available for attaching pedigree A/D converters and preamplifiers. SMPTE timecode in and out, video and word sync are provided. All of this is controlled from a color touchscreen interface which makes operation fast and simple.

The HS-P82 from TASCAM is built on 30 years of reliable field recording. See how affordable the state of the art can be with TASCAM's flagship production recorder, the HS-P82.



HS-8



RC-HS20PD
Direct Play Remote
with Touchscreen &
Fader Start



RC-SS20
Direct Play Remote



TASCAM's **HS-8** and **HS-2** are the first solutions for professional multi-track recording and playback to solid-state media. From studio surround recording to post production playback of HS-P82 location recordings, the HS-8 fits a variety of multitrack roles first pioneered by TASCAM's DA-88 recorders. True to TASCAM tradition, audio is top-quality throughout with up to 192kHz/24-bit recording.

Like the HS-P82, the HS-8 uses a color touch-screen interface to access settings and tracks. A stereo mixer is built in for monitoring, and the mix can be recorded live as a separate track. Audio is recorded as Broadcast WAV files to Compact Flash media, with SMPTE timecode available on various interfaces. A pair of CF card slots is available for data mirroring or continuous recording.

The HS-2 adds affordable stereo recording and playback to solid state media. Timecode on the HS-2 is added through an option card, the SY-2, making it an ideal broadcast replacement for timecode DAT recorders. The **RC-HS20PD** remote control allows operation of either recorder from a separate room over a RJ-45 connection.

TASCAM's HS-8 and HS-2 provide the sound quality, instant access and ease-of-use that studio and post professionals demand.

- 8-channel/2-channel solid-state recorder
- Records to Compact Flash media, dual slots for mirroring or continuous recording
- 8-channel 96kHz/24-bit Broadcast WAV file recording (HS-8)
- 4-channel recording at 192kHz/24-bit resolution (HS-8)
- 8-channel recording plus stereo mix track at 44.1/48k resolution (HS-8)
- Internal stereo mixer (level/pan, HS-8)
- BWF file format with iXML metadata
- Multi-channel flash start (HS-8)
- Color TFT touch panel interface
- 5-second pre-record buffer
- Cascade function for multiple unit operation
- (8) balanced analog inputs/outputs on 25-pin D-sub connectors (HS-8)
- Balanced stereo analog inputs/outputs on XLR connector (HS-2)
- XLR stereo analog input and output (Assignable, HS-8)
- AES/EBU digital I/O (HS-8: 8-channel 25-pin D-sub; HS-2: Stereo XLR)
- XLR stereo AES/EBU I/O (Assignable, HS-8)
- 8-channel ADAT optical digital in and out (HS-8)
- Video and word clock on BNC
- SMPTE timecode BNC in/out (HS-8, optional on HS-2)
- PS/2 keyboard input
- RS-232C serial control input
- RS-422 serial control input (HS-8, optional on HS-2)



HS-2



Pictured with optional SY-2 synchronization card installed

HS-4000



HS-2000



TASCAM's **HS-2000** & **HS-4000** are built for the needs of modern broadcast facilities and post studios. Recordings are captured on a reliable solid-state-based transport to a pair of Compact Flash cards, either individually or to both for redundancy. Confidence Monitoring is available to listen to audio off the card while recording. In addition to recording and logging tasks, both recorders include on-air and monitor play modes. The HS-4000 can function as two independent playback transports, each with flash start.

Audio on the HS-2000 & HS-4000 is captured as Broadcast WAV files, including a timestamp from the SMPTE input source. The transport can be controlled over RS-232C, RS-422, Parallel or LAN control. Balanced analog audio is interfaced through XLR connectors, and multi-channel AES/EBU digital I/O is available.

Both recorders feature a color TFT touchscreen which is used to change settings and view meters, making the GUI simple to use. Three remote controls are available with a variety of flash start, transport and fader functions.

- XLR balanced inputs/outputs
- XLR balanced stereo monitor outputs
- 1/4" TRS stereo headphone output
- RS-422, RS-232C and Parallel inputs on D-sub
- XLR balanced SMPTE timecode input and output
- RJ-45 gigabit ethernet
- PS/2 keyboard input
- USB host output (type-A 4P, USB 2.0)
- RJ-45 remote input (for RC-HS20PD or RC-HS32PD only)
- 2-track recorder with the functions of timecode DAT (HS-2000)
- 4-track recorder with timecode chase (HS-4000)
- Solid-state recording using dual Compact Flash card slots for redundancy
- Confidence monitoring mode for read-after-write verification
- Fast boot time
- Dual Deck mode operates as two separate flash start devices (HS-4000)
- Simple-to-use Touch screen interface with large color TFT display
- Timeline mode and Take mode
- On-air audio playback and monitor playback
- Advanced playlist functions include adding tracks to playlist while in play
- Gigabit ethernet control and file transfer
- Serial RS-422 and Parallel control modes
- USB host for record/transfer to USB flash media
- SMPTE Timecode sync with pull-up/pull-down modes
- Up to 96kHz/24-bit recording
- Export projects to AES31 format
- Stereo monitor mixing
- Video sync input supports NTSC/PAL/BB/HD Tri-Level
- Flash start using controller (RC-HS32PD, RC-HS20PD, RC-SS20), parallel control, RS-232C control or PS/2 keyboard
- Jog/Shuttle function
- 2u rackmount size

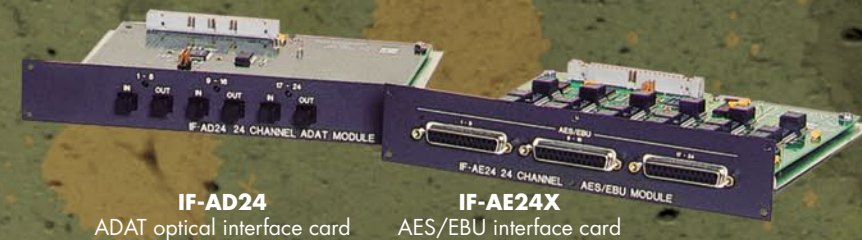


X-48mkII



Pictured with optional IF-AN24X analog interface cards installed

- 48-track digital recording at up to 96kHz/24-bit
- 32-bit floating point audio file recording and playback with no loss of track count
- Advanced integrated synchronization and machine control, including HDTV tri-level sync
- Time-stamped Broadcast WAV file format
- Front-panel transport, track arming, project management and metering functions
- Built-in 1TB hard drive and DVD for backup, transfer and restore
- $\pm 6\%$ varispeed
- 48-channel mixing with 6 stereo returns (60 total inputs at mixdown), 6 aux sends and dynamic level automation
- Dynamics, 4-band parametric EQ and 6 aux sends per channel
- 48-channel TDIF I/O standard
- S/PDIF stereo I/O
- USB 2.0 and eSATA interface for connecting hard drive
- Optional analog, AES-EBU and ADAT digital I/O cards (24-channels each, two expansion slots provided)
- SMPTE, MTC and RS-422 synchronization
- Video and Word Clock connectors



IF-AD24
ADAT optical interface card

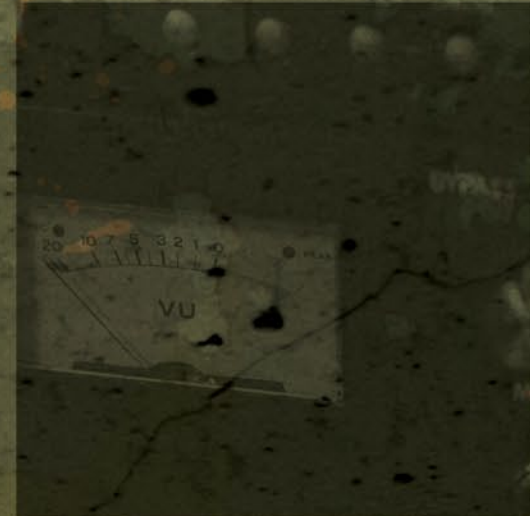
IF-AE24X
AES/EBU interface card

TASCAM's **X-48mkII** is the world's first standalone 48-track Hybrid Hard Disk Workstation. Co-developed with SaneWave, it integrates the best of both worlds: the stability and ease-of-use of a purpose-built hard disk recorder, with the GUI, editing and mixing features of a computer-based digital audio workstation.

The X-48mkII boasts up to 96kHz/24-bit recording across all 48 tracks. Its file compatibility and synchronization surpass even the TEC Award-winning MX-2424, with native Broadcast WAV audio file support and AAF export for compatibility with workstations like Pro Tools®, Nuendo and Logic. Support for external hard drives and Gigabit Ethernet allows simple transfer between systems, making it the ultimate multitrack solution for high-quality music, post and live recording applications. Record an event to the internal 1TB drive, or capture to an external USB or eSATA drive, unplug and deliver to a client for mixdown in the DAW of their choice.

The X-48mkII goes beyond mere standalone recorders with a built-in, automated 48-channel digital mixer and powerful editing functions. Plug in a VGA monitor, mouse and keyboard for editing, track naming and monitor mixing – nothing to install or troubleshoot. A DVD backup drive allows you to archive and update projects.

Trust your live event recording to TASCAM's compact X-48mkII multitrack hard disk recorder.



DM-4800



DM-3200



The TASCAM **DM-4800** and **DM-3200** are the ultimate digital consoles for professional users who demand flexible mix platforms that configure to fit their needs. The 64-channel DM-4800 features a “fat channel” strip in the center of the board, providing instant access to 4-band parametric EQ, dynamics and aux controls. A pair of effects processors include TC Reverbs for polished mixes. Twenty-four studio-grade mic preamps provide enough inputs for a live event, and more can be added using expansion cards with external preamps. The standard complement of analog and digital I/O is more than you’ll find on consoles costing three times as much, and a completely configurable 24-buss routing system allows you to re-patch the board at the flick of a switch.

TASCAM’s DM-4800 fits seamlessly into the modern recording environment based around a computer DAW. Its Remote layer provides 24-fader Mackie HUI or Mackie Control emulation for control of premiere workstations like Pro Tools, Logic, SONAR and Nuendo. The optional IF-FW/DM mkII interface card provides 32 channels to and from a computer at 96kHz over a single FireWire cable. And the optional surround monitoring card provides downmixing, bass management and level control for mixing in up to 6.1 surround.

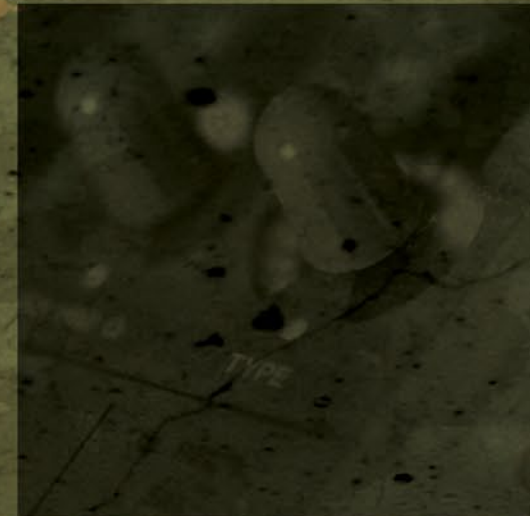
The 48-channel DM-3200 packs many of the features of the DM-4800 into a smaller size and price, with 16 mic pres and 16 busses for great sounding productions. Options include the MU-1000 meter bridge (pictured) and analog and digital expansion cards.

No matter what your application, the TASCAM DM-4800 and DM-3200 adapt to the needs of any professional audio installation.

- 48 channels and 16 returns for 64 total inputs (DM-3200: 48 inputs)
- 24 busses (16 busses on DM-3200)
- 12 Aux Sends (8 on DM-3200)
- 24 XLR mic/line inputs with analog inserts plus phantom power for condenser mics (16 on DM-3200)
- 4 expansion card slots support optional expansion cards (2 on DM-3200)
- Dedicated cascade port supports cascade of two consoles
- Channel Strip section for EQ, Dynamics and Aux control of selected channel (DM-4800 only)
- LED ring encoders for pan, aux sends and EQ
- Built-in DAW control layer compatible with Pro Tools®, Logic Pro™, SONAR™, Cubase™, Nuendo™, and Digital Performer™
- Transport buttons control DAW software, RS-422 devices or MMC devices
- Powerful automation with touch-sensitive motorized faders
- 4-band EQ, compression and gating on each channel
- Compression for each aux, buss and main output
- Two built-in effects processors, each able to run TC Reverb programs
- Flexible routing allows any input to be routed to any channel or output
- Save data to Compact Flash media using built-in CF slot
- (3x) 8-channel TDIF digital inputs and outputs (24 channels)
- 8-channel ADAT optical digital input and output
- (2) Stereo AES/EBU and S/PDIF digital inputs and outputs
- Stereo XLR balanced line outputs
- (8) 1/4" TRS balanced assignable insert sends (4 on DM-3200)
- (8) 1/4" TRS balanced assignable insert returns (4 on DM-3200)
- RCA timecode input
- MIDI In, Out and Thru connectors
- BNC Word Sync Input and Out/Thru with termination
- GPI output for parallel control
- RS-422 connector for device control
- USB connector for DAW control modes
- 1/4" Footswitch jack

Optional expansion cards include:

- Analog
- AES/EBU
- ADAT
- TDIF
- FireWire
- Aviom
- Cobranet
- Surround Monitoring



DR-680



TASCAM's **DR-680** brings multi-channel portable recording within reach of any musician for polished live, location and surround effect recordings. Up to eight tracks can be recorded to solid-state SD card media at WAV or BWF format, up to 96kHz/24-bit resolution. Six mic inputs provide phantom power and 60dB of gain for great-sounding recordings with your condenser microphones. Each mic input has a selectable low cut filter and analog limiter for optimal sound.

Inputs can be monitored using a built-in mixer with level and pan controls for each input. The stereo mixdown can even be recorded along with the six mics for quick stereo playback of the event. Mid-Side microphone decoding is available for sound effects gathering, either during recording or in monitor/mixdown.

In addition to multi-channel recording up to 96kHz, the DR-680 captures stereo audio at 192kHz/24-bit for audiophile-quality masters. The DR-680 records up to four channels of MP3 audio for web-ready recordings. Two of the recorders can be connected with a cascade cable for up to 14-track recording on battery power. Two optional cases are available, one by TASCAM and a second by PortaBrace.

- (6) mic pres with 60dB of gain and phantom power
- (4) XLR/1/4" (combi) mic/line inputs and (2) TRS 1/4" mic/line inputs
- Low cut filter and limiter on each input
- (6) RCA unbalanced line outputs
- S/PDIF digital in and out
- USB 2.0 (mini B) connection for computer
- Built-in speaker
- 1/4" stereo headphone output
- Included accessories: PS-1225L power supply, shoulder strap
- 8-track portable recording at up to 96kHz/24-bit Broadcast WAV file resolution
- Record eight individual inputs or six inputs plus a stereo mixdown
- Stereo 192kHz/24-bit recording mode
- 4-channel MP3 recording
- Digital monitor mixing (level and pan) with recordable stereo mixdown
- Mid-side microphone decoding
- Ganged input option for use with stereo microphones
- Ideal for surround music and effects recording
- Cascade function for running two units together
- Pre-recording feature
- Auto-recording mode begins recording when the input reaches a certain level
- Mark function during recording/playback
- Edit functions such as divide and delete
- 128x64 backlit LCD display
- Powered through (8x) AA batteries or (included) PS-1225L adapter
- Records to SD/SDHC card media (not included)
- Premium AKM Audio4Pro™ 192kHz A/D converters with over 100dB signal to noise ratio

DR-100

The rugged **DR-100** offers high-end recording features to musicians and engineers who demand more from their portable recorder. It features four built-in microphones, two cardioid and two omnidirectional, with analog limiting and filtering for great-sounding recordings. A pair of XLR microphone inputs with phantom power welcomes pro-grade condenser microphones, and line in and out connectors are also provided.

The DR-100 includes a rechargeable Lithium-ion battery, but can also be powered by AA batteries or an optional AC adapter. A built-in speaker allows for instant playback, and the metal enclosure includes a tripod mounting hole for recording flexibility. A wired or wireless remote control is also included for remotely starting the recording.

- Four microphones - Stereo Cardioid and Omni Condenser Mics
- 44.1k to 96k sampling rates for WAV file recording
- MP3 and WAV file Recording and Playback
- XLR Mic Inputs with Phantom Power, Low Cut Filter and Analog Limiter
- High-performance microphone preamp with 60dB of gain
- AKM Audio4Pro™ A/D converters with over 100dB signal to noise ratio
- 3.5mm Line Inputs and Outputs
- Built-in Speaker
- Integrated microphone stand mount
- Runs on Rechargeable Li-Ion Battery or AA Batteries



HD-P2



Designed for stereo remote recording, the TASCAM **HD-P2** Portable High-Definition Stereo Audio Recorder is the professional solution for live and on-location applications. Co-developed with Frontier Design Group, it records at up to 192kHz/24-bit resolution to Compact Flash media, and its audio files are instantly available to DAWs through the built-in high-speed FireWire computer connection.

The professional HD-P2 incorporates high-end features like a SMPTE timecode input for synchronization to external devices while in record or playback. The user interface is designed for fast and intuitive use under stressful one-take-only situations, and its large, angled LCD is perfect for any application from over-the-shoulder location recording to concert recording and commercial use.

- XLR mic inputs with phantom power and analog limiter
- Unbalanced stereo analog I/O, S/PDIF digital I/O
- Built-in mono microphone and speaker for desktop interview applications
- Analog level controls for easy operation without the need to look at the unit
- SMPTE/LTC timecode input on locking XLR balanced jack
- Timestamp Broadcast WAV recordings with SMPTE input
- Chase lock to incoming SMPTE timecode
- Video clock input resolves to house clock with tri-level sync support for HDTV applications
- Includes Frame Lock, Lock and Release and flexible Free-wheel settings for unpredictable timecode sources
- Pull-up and Pull-down sample rates included for video format compatibility
- Approximately 5.5 hours of operating time on (8) AA battery power, < 2 lbs with batteries

DV-RA1000HD



TASCAM's award-winning **DV-RA1000HD** shatters the price barrier to recording mixes and masters to Direct Stream Digital, Sony's 2.822MHz/1-bit "Super Audio" format that must be heard to be believed. The stereo recorder captures audio from 44.1kHz to 192kHz as WAV files. In addition, the breakthrough DSD recording format adds incredible detail with all of the depth and imaging of quality analog recording.

The DV-RA1000HD records directly to a 60GB hard drive or to a CD/DVD optical drive, and DVDs or CDs can be made from hard drive playlists. The rich-sounding analog converters are capable of recording DSD format audio - no additional hardware is required. Designed for recording studio mixdown, audiophile archival, live recording and installed sound, you can trust the DV-RA1000HD with your most treasured master recordings.

- High-quality stereo recording at up 192kHz/24-bit or DSD format
- Records to Built-in 60GB hard drive, DVD+RW, CD-R/RW media
- Archives to DVD-R, DVD-RW, DVD+R and DVD+RW discs
- Multiband compression and 3-band EQ mixdown effects
- USB 2.0 connection to PC for use as DVD data drive
- Balanced XLR and unbalanced RCA inputs and outputs
- Balanced AES/EBU inputs and outputs, running at normal, double-speed and double-wire formats
- SDIF-3 DSD input and output for external conversion and processing of DSD audio
- Stereo S/PDIF digital output on coaxial connector
- Word Sync In, Out, Thru
- RS-232C serial control
- PS/2 keyboard connector for title editing
- User-definable function keys
- Large, backlit LCD display
- Records to standard CD-DA, Broadcast Wave and DSDIFF formats
- Dedicated input level control and adjustable maximum output level
- $\pm 6\%$ pitch control
- Fade in/out
- Jog playback
- Power on play feature
- Various play and record modes such as auto track increment, auto cue, auto ready, single/continuous play and program A/B play.
- Wired remote control (RC-RA1000) included
- 1/4" Headphone output

KAMESAN

The **KS-342** is a feature-rich 4-channel mixer for film and location video recording with an expandable design that enables you to grow your mixer to fit your application.

It offers flexible output and monitor structures like 4-ch direct output capability while monitoring in stereo, multiple headphone outputs and an aux input that can cascade external sources or offer the ability to monitor the return from a camera or external recorder. No-compromise design includes 12/48V phantom power, LCF, internal oscillator and built-in compression. The KS-342 even has a 96kHz-capable AES/EBU output.

The KS-342's unique "piggy-back" plug-in module expands the capabilities of the mixer. Available modules add EQ, compression and even more channels of mixing to the KS-342. Each of these modules get their power from the KS-342, so no additional power is required. An all-weather pocketed case is also available.



The **KS-T2000** offers the high standards of its bigger brother in a more compact, budget-conscious mixer. This 3-channel location mixer is ideal for news gathering, DV video production and more. The lightweight KS-T2000 operates for six hours on four AA batteries. It also includes 12/48V phantom power and LCF. A multi-level stereo output, oscillator and switchable headphone monitoring with EE input provide a wide selection of bussing and monitoring options. An optional soft case provides storage and all-weather access to controls and connectors.



The **KS-1017** Lip Checker is a unique product which tracks signal time differences in broadcast and post production. The Lip Checker accepts both video and audio signals, comparing an audio source with a video burst or another audio source. It then displays the time difference and signal strength so problems can be fixed before the program leaves the studio. A standalone sound and light burst source - the KS-1018 Video Kachinko - is also available for use in remote locations.





Much more information, including detailed specifications and owners manuals, is available at www.TASCAM.com