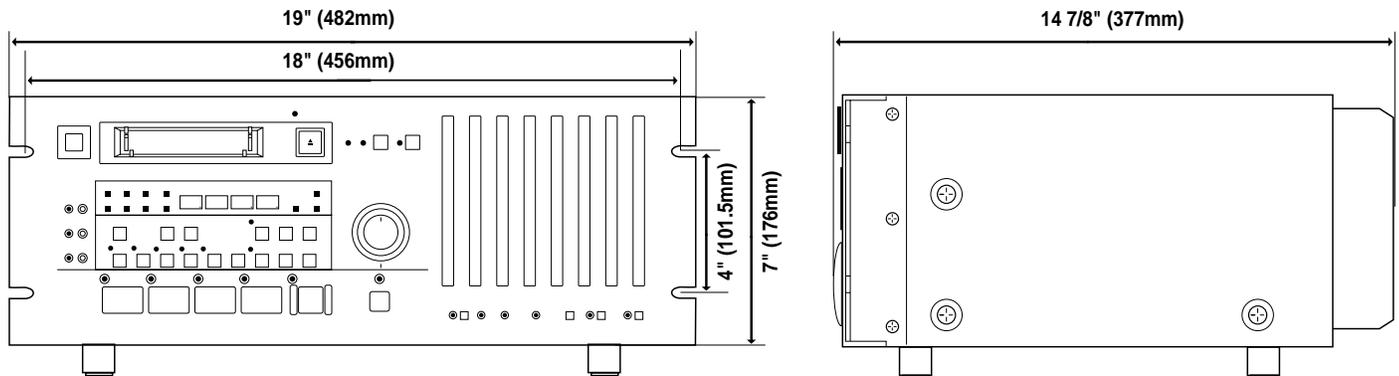


# DA-88



## The Ideal Modular Digital Multitrack System

Digital is the future of recording. Now personal, project and major production studios can get into digital multitrack recording at a cost previously unheard of. The DA-88 is just one component of a well thought out modular system that expands as you need it.

The DA-88 is an eight track digital multitrack recorder that utilizes the preferred Hi8 tape format to provide one-hour, forty-eight minutes of crisp digital audio on eight tracks. Combined with a rugged transport, ergonomic design and a full complement of production accessories, it is the ideal multitrack for music recording, audio for video post-production, live remote recording, broadcast production and more.

## CD-Quality Digital Masters

The sonic results you get with the DA-88 are simply astounding. With a flat 20Hz to 20kHz frequency response and dynamic range that exceeds 92dB, the DA-88 is known to be the best sounding digital multitrack on the market. That's because of the DA-88's premium quality A/D and D/A converters that feature 16-bit linear quantization at either 44.1 or 48kHz. You never have to worry about sample rate conversion and are assured the most faithful sound reproduction. The DA-88 delivers the pure, clean digital sound you've come to expect from professionally produced CDs.

## As Simple To Operate As An Analog Tape Deck

Making the move from analog to digital requires no re-training. That's because the DA-88's transport controls are just as simple to use as any commercial analog tape deck. The PLAY, RECORD, FF, REW and STOP buttons are right where you'd expect them to be. And they work just as easily, too. Recording with the DA-88 is as simple as inserting a Hi8 tape, feeding signal to any of the 8 tracks, setting proper recording levels on the 15-segment LED peak displays and pushing PLAY and RECORD.

As an added bonus, you can take full advantage of the accuracy and precision of digital audio with the DA-88's shuttle wheel. This allows you to advance or rewind the tape at your own pace; from 1/4 speed to eight times the normal playback rate.

## Superior Format and Superior Transport

The DA-88 uses the latest tape and transport technology to provide users with the best system on the market. Hi8 is a metal particle tape that provides higher density recording which means safer and better sound. This newer tape technology solves many of the problems of older tape formats, where tape exposure and tracking problems sacrifice reliability and sound quality.

The DA-88's tape transport system is unmatched in any other modular digital multitrack. Built to take a beating, the transport features direct drive brushless motors. It is fast and strong and made to handle continuous operation in a studio environment. Plus, the DA-88 uses an exclusive, write-after-read, 4-head interleave system of data

reading/writing. This interleaving design yields significantly more read area on Hi8 tape than on others. As a result, the DA-88 ensures better data integrity and provides superior dropout protection.

## The Most Advanced Tape-to-Head System

Only the Hi8 format, featured on the DA-88, provides the safety and security of ATF (Auto Track Finding). This system embeds timing information into the tape's subcode area during the helical scan. This means there is no analog control track, such as on some systems, which is subject to tape stretching, fraying or other failure. However, with ATF on the DA-88 you are guaranteed of perfect tape inter-changeability between different DA-88s.

## Precise Editing — Seamless Punching In/Out

Because digital recording is so precise, you can select tighter punch-in/out points than previously available in the analog world. The DA-88's variable digital crossfade technology promotes seamless overdubbing and error correction. You can adjust the crossfade from 10 to 90 milliseconds in 10 millisecond increments. At the appropriate time you either hit the track button or use the

optional in/out footswitch when it's time to punch in or out. Plus, the DA-88 offers a sophisticated rehearsal mode allowing you to practice your punch in/out prior to committing it to tape.

All in all, the DA-88 is the latest generation of digital multitrack technology. It results in a more reliable and superior format than any other modular digital multitrack format available.

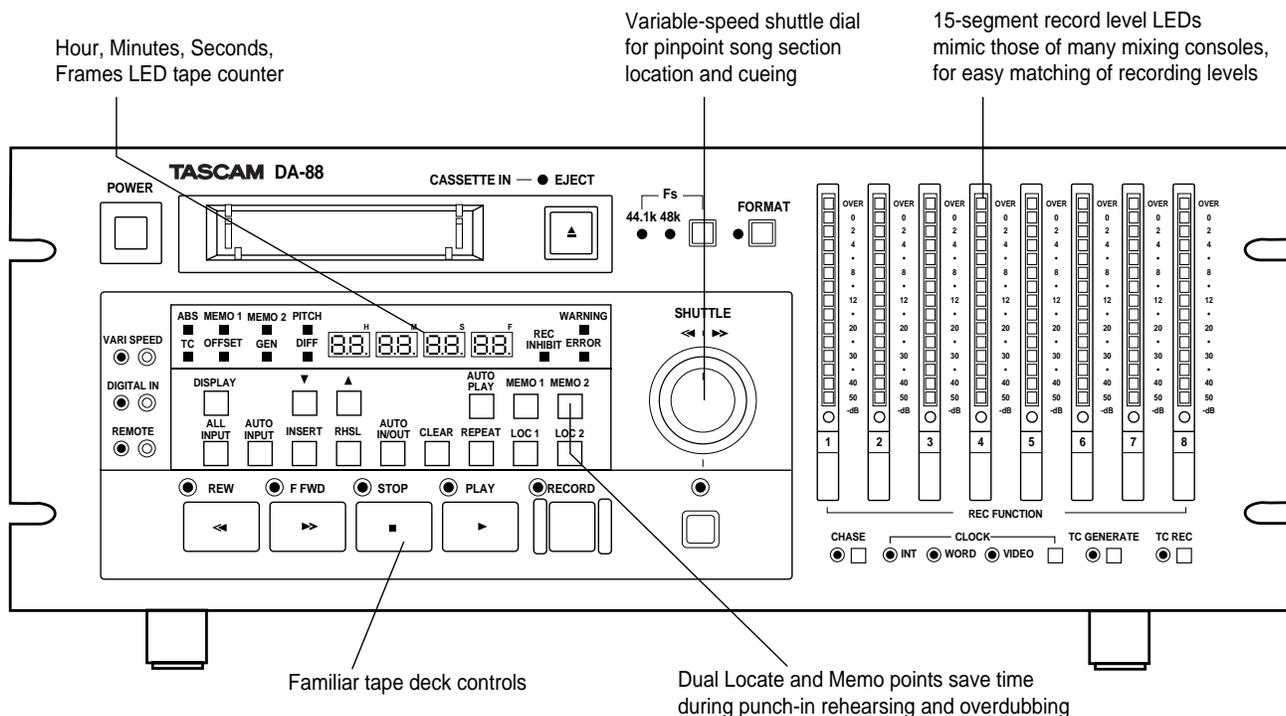
## Easy To Maintain, Service Or Upgrade

The DA-88s modular circuit board design makes servicing and maintenance simple for qualified personnel. Transport, analog/digital and digital/analog PCB board sub-assemblies easily plug-in and out of the well-shielded studio-ready, rack-mountable chassis. A further benefit to modular design is that future upgrades and third party add-on products will be as easy to incorporate to the DA-88 as a simple board swap.

## Auto Locate Means Marking and Finding Specific Selections Easy

If you need to loop a certain musical passage, or want to mark a certain point on the tape, use the DA-88's MEMO and LOCate functions. Simply press the MEMO

Front Panel-DA88



button when tape is rolling or standing still, and you electronically mark that point on tape. To quickly go back to that point simply press LOCate. A REPEAT button allows you to continuously play a loop of tape between two MEMO points.

## 8 to 128 Tracks

The DA-88 modular digital multitrack gives you eight simultaneously recordable tracks with which to create your musical masterpieces. But if your plans are ambitious or a client requires more tracks, it's easy to expand. You can easily link up to 16 DA-88s for expansion of up to 128 synchronized tracks. Best part is, they lock up lightening fast.

## Optional Equipment And Accessories Complete The Modular System

The DA-88 is well-supported with optional accessories and equipment that allows you to get more from your DA-88, make some operations quicker and easier, and allows you to integrate with analog, video, MIDI equipment, hard disk systems and more.

## The RC-808 Basic Transport Controller

The RC-808 allows you to control all the basic functions of the DA-88 from across the room — including transport, record, 2-point autolocator, monitor switching and auto punch-in/out controls. The RC-808 is ideal when you're both the engineer and the performer.

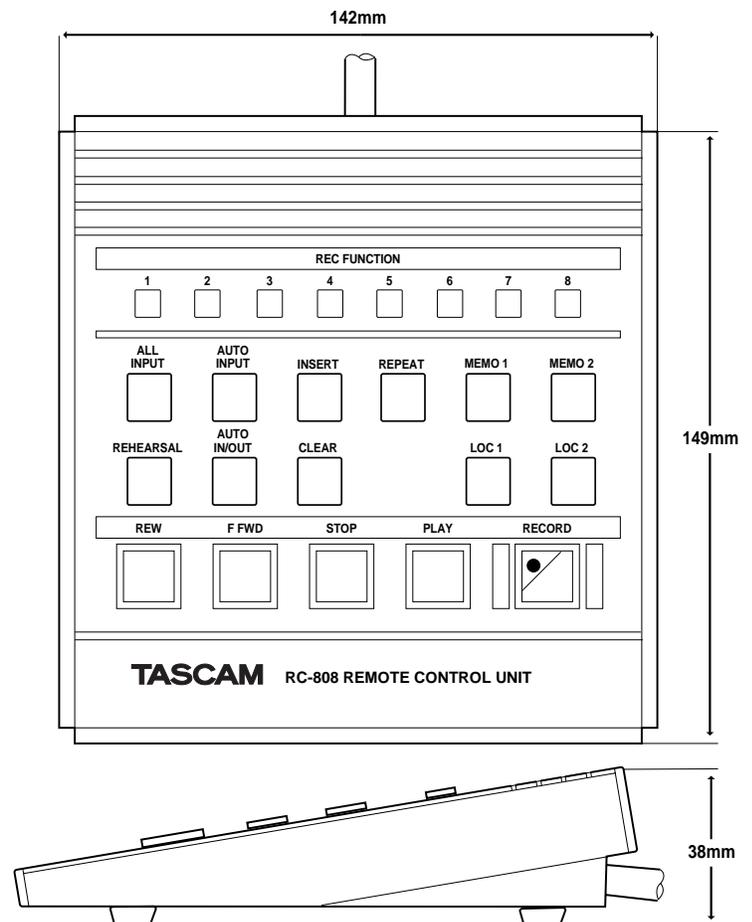
## RC-848 Remote Control Unit

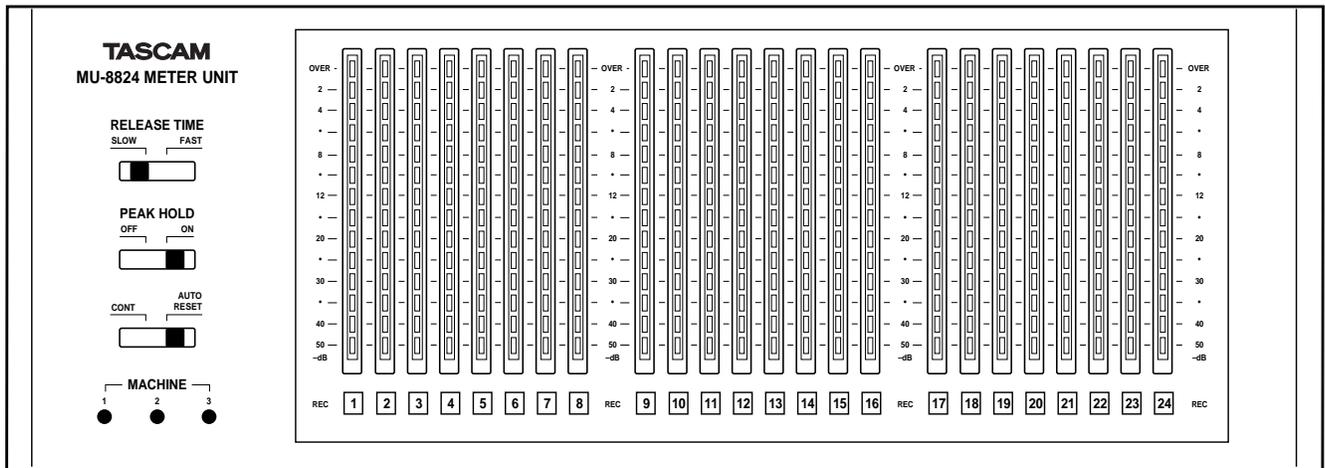
The RC-848 coordinates the simultaneous operation of up to six DA-88 units from one space-saving high-tech control station. With one RC-848 you can drive an entire rack full of DA-88s, maintaining complete transport and track control in perfect synchronization. It controls all transport functions, provides 99 tape location memory points, a dedicated master shuttle wheel and dual LED tape position counter that details current tape position and an alternate locate point. It can also address track delay, locate preroll time and many other functions. It also controls parallel port devices such as the TASCAM MSR-16, Otari MTR-90 and other non RS-422 VTRs via the EXT 1 (Accessory 1) port.

## SMPTE/MIDI/Chase Lock Synchronization

The SY-88 is a single add-in card solution that allows you to chase lock one or more DA-88s to wide variety of audio/video and MIDI gear. Simply plug it into a slot on the rear panel of the DA-88, and the SY-88 generates and reads SMPTE timecode formats based on an internal or external clock reference (video or word). It also provides full implementation of the MIDI machine control (MMC) protocol, and VTR (Sony 9 pin/RS-422) interface and emulation. The SY-88 turns the DA-88 into a production powerhouse for film, video and project studios.

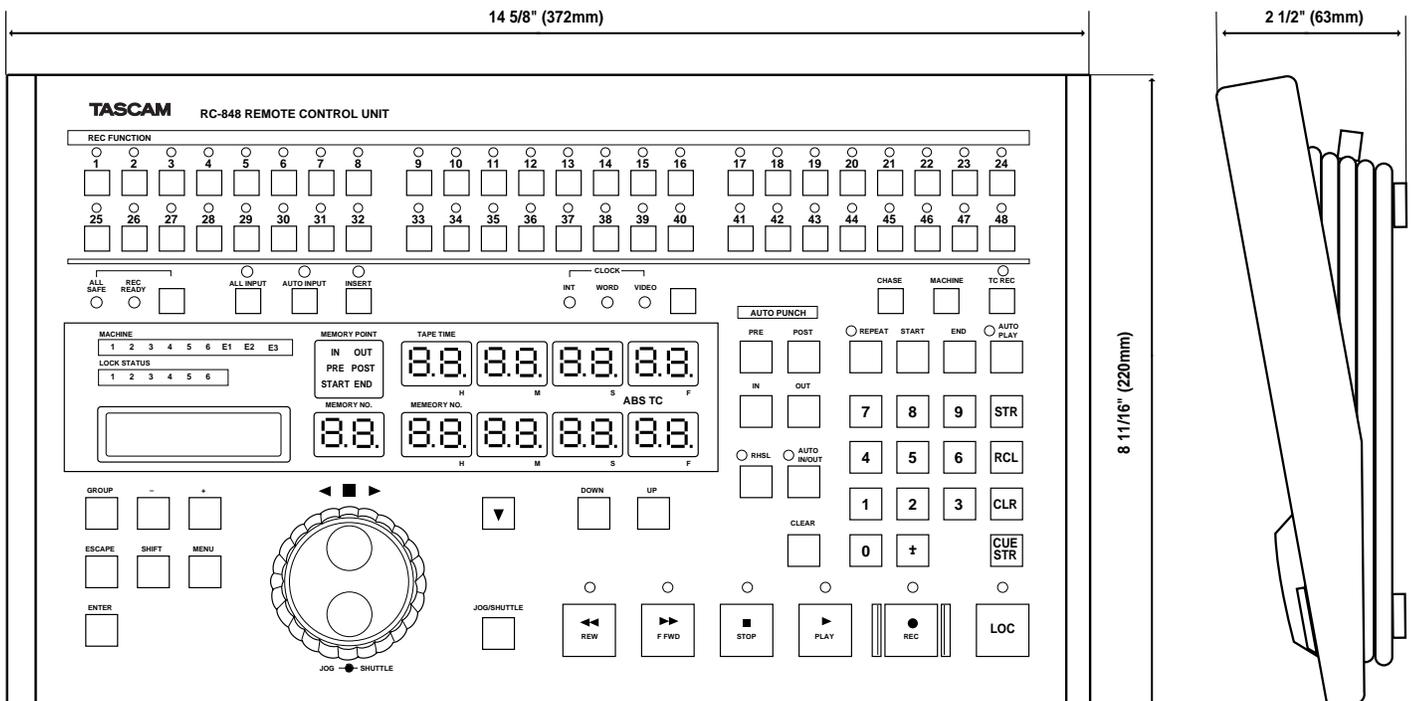
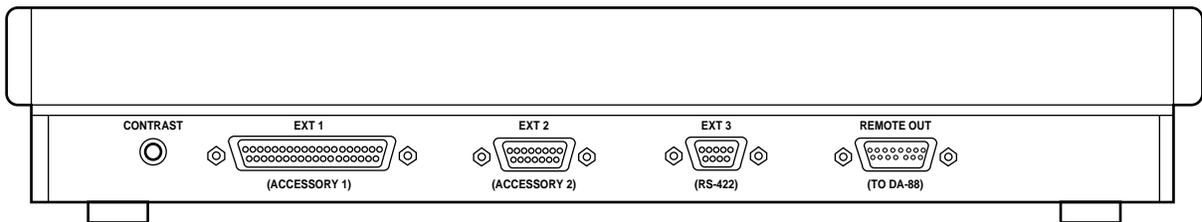
### Remote Control Unit-RC-808

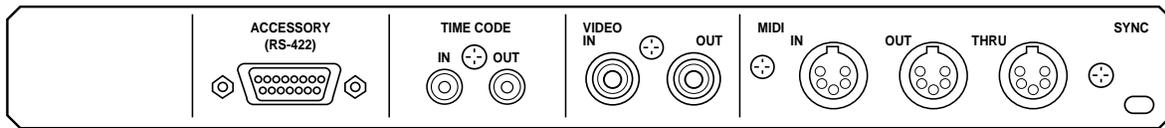




Meter Board-MU-8824

Remote Control Unit-RC-848





**Back Panel-SY-88**

## MMC-88 MIDI Machine Control Interface

The MMC-88 is an optional MIDI accessory designed to connect directly to the SYNC port of a DA-88. It provides two-way communication and allows information to be transferred to the slave DA-88s. If you'd like more information on the MMC-88, please call our FaxBack number and request document #9150.

## MU-8824 24-Channel Meter Bridge

The MU-8824 24-Channel Meter Bridge centralizes 24-tracks of 15-segment LED peak meter displays of three DA-88 units. It can either be rack mounted (RM-8824) or can be mounted to the RC-848 (MK-8824). Because it's a vertically modular bridge you can easily stack two MU-8824s to handle level display for a 48-track (six DA-88s) master recording suite. PW-88M cables handle connections between DA-88s and the meter bridges.

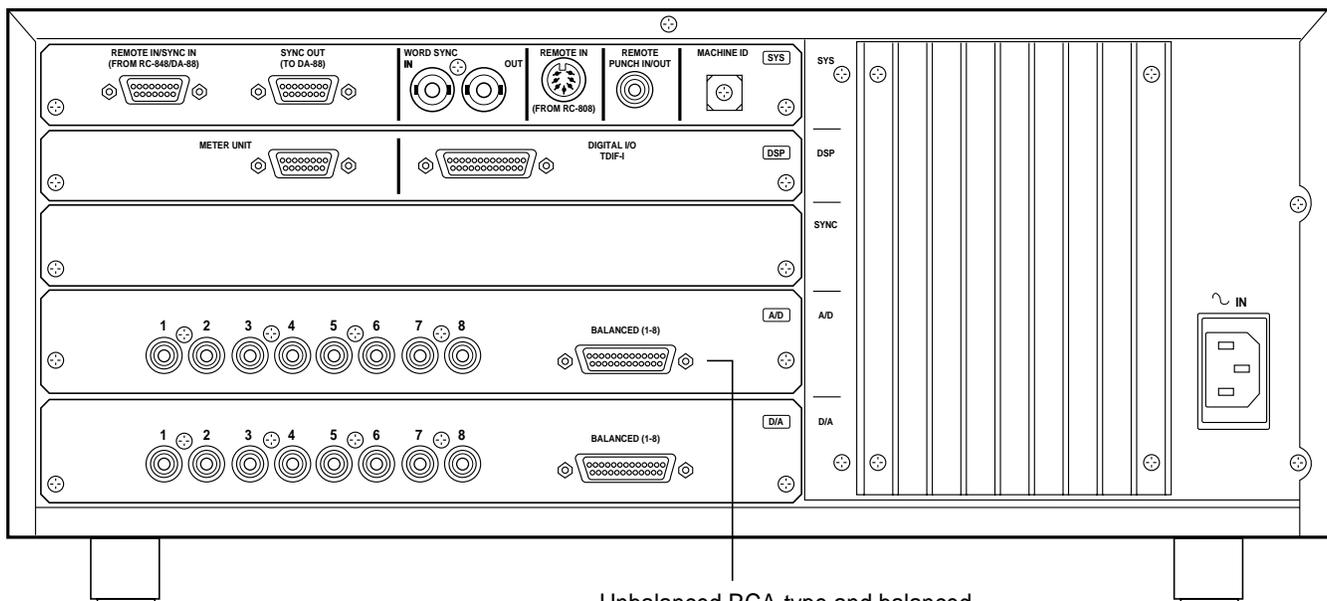
The DA-88 interfaces easily with a myriad of digital equipment with simple interface units:

- IF-88AE for AES/EBU and S/PDIF digital interfacing
- IF-88SD a digital interface that enables connection to DASH machines.

## The Best Value in Digital Multitrack Recording

- Total 108 minutes of recording time on low-cost Hi8 tape (over twice the recording time of others)
- 92 dB dynamic range
- Auto Track Finding constantly realigns tracks and eliminates tape skew and distortion
- 16-bit linear D/A and A/D quantization for error free sound reproduction
- Simple one cable (PW-88M) interface locks up to 16 DA-88s (one cable required for each machine)

**Rear Panel-DA-88**



Unbalanced RCA-type and balanced 25-pin D-sub input and output jacks

## Precision Features

- Advanced variable crossfade technology
- Programmable track playback delay (-4 to +150 ms) lets you allow for signal processor delays, phase alignment anomalies or to add subtle special effects
- 8-digit multi-function display shows absolute time, locate time, variable speed, offset and other parameters
- Pitch control  $\pm 6\%$  at either 44.1 or 48kHz sampling frequencies
- Auto Punch In/Out capability

## Rugged Construction

- Direct drive brushless transport motors
- Super-rugged, reliable transport built to take years of constant stopping, starting and shuttling
- Moderate speed rotary transport head minimizes tape stress
- Modular sub-assembly design aids in qualified servicing and maintenance and minimizes down time.

## SPECIFICATIONS

Tape:	Hi8 video tape
Recording Time:	108 min. (NTSC "120" tape) 113 min. (PAL/SECAM "90" tape)
Fast Winding:	80 sec. (100 x play speed)
Tracks:	8
Quantization Bit:	16-bit linear
Sampling Rate:	44.1 kHz, 48 kHz
Pitch Control:	$\pm 6\%$ (in 0.1% step)
Frequency Response:	20 Hz to 20 kHz ( $\pm 0.5$ dB)
Dynamic Range:	More than 92 dB
	Total Harmonic
Distortion:	Less than 0.00496%

Channel Separation:	Better than 90 dB at 1 kHz
Wow & Flutter:	Unmeasurable
Analog Audio Input:	RCA x 8 (-10 dBV/50 kohms, unbalanced) D-sub 25 pin x 1 (+4 dBm/10 kohms, balanced)
Analog Audio Output:	RCA x 8 (-10 dBV/250 ohms, unbalanced) D-sub 25 pin x 1 (+4 dBm/75 ohms, balanced)
Digital Audio I/O:	D-sub 25 pin x 1 (TDIF-1 format)
Power consumption:	74W
Weight:	14kg

The DA-88 Modular Digital Multitrack System includes these optional system enhancements:

RC-808:	Basic Remote Control
RC-848:	Remote Control for up to six DA-88
SY-88:	SMPTE/Midi/Chase Locke Synchronization Card
MU-8824:	24-Channel Meter Bridge; Centralizes 24-tracks of 15-Segment LED peak meter displays
IF-88E:	AES/EBU and S/PDIF digital interfacing
IF-88SD:	Digital interface enables connection to DASH machines
PW-SD1:	DASH output cable to IF-88SD
PW-SD2:	DASH input cable from IF-88SD
HC-8:	Head cleaning tape

Specifications and features subject to change without notice or obligation.



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