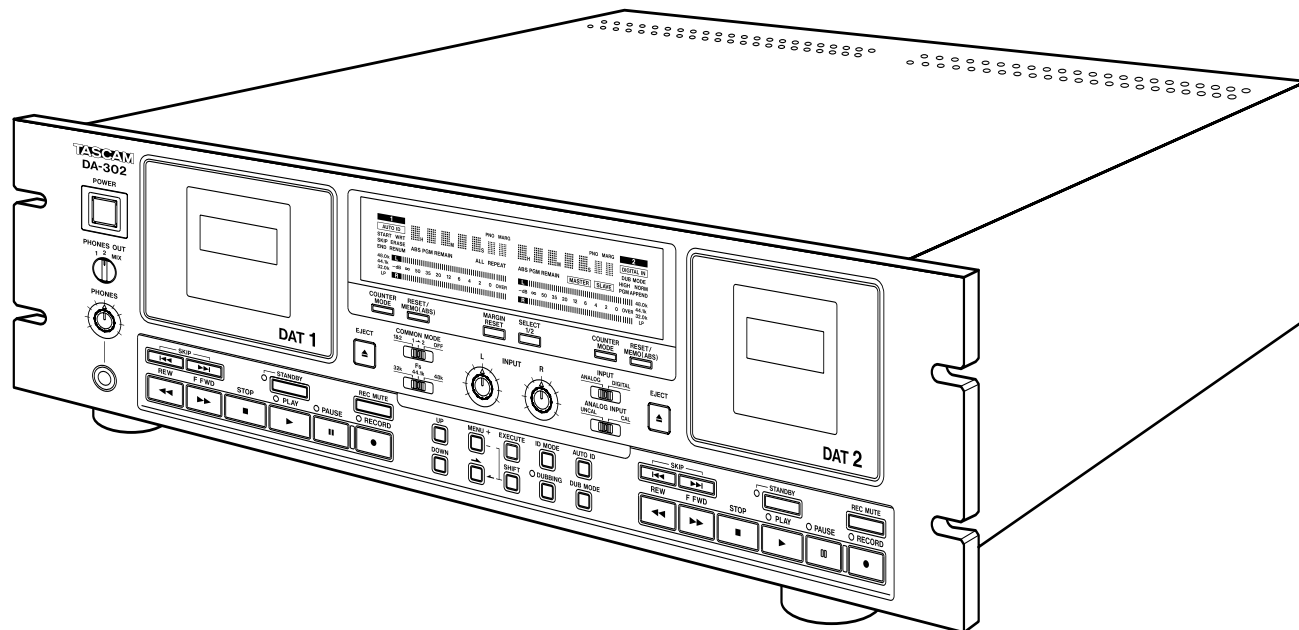


# DA-302

## PRELIMINARY



## A Great Master Recorder That Also Handles Your Duplication Needs

In today's modern studio, DAT recorders handle some major responsibilities — creating two track masters, archiving material, and functioning as a transfer medium. DAT is a great format for mastering — the shortcoming is that you've always needed a second unit in order to backup those valuable tapes. Until now. Introducing the TASCAM DA-302 Dual DAT Recorder.

The new DA-302 delivers a great master recorder and duplication machine in one 3U rackmount design. Featuring two great DAT decks in one space-saving unit, the DA-302 offers a multitude of advanced features that will have you asking, "Why didn't this idea come along before?"

## A Terrific Master Recorder

The DA-302 is a great tool for creating your studio master recordings. As expected, the unit offers both the industry-standard 44.1kHz and 48kHz sampling frequencies — enabling you to record at whichever rate best suits your needs.

As the DA-302 features two fully functional DAT decks, you can now simultaneously record both your studio master tape and duplication master in one pass! Imagine the time you'll save not having to backup that precious tape in a separate operation — unless, of course, you want to. With the DA-302, creating master and backup tapes simultaneously is just one of many recording tasks that this new recorder excels at.

## The Best DAT Deck For Long-Format Recording Jobs

The DA-302 is the absolute best DAT recorder available for recording lectures, presentations and other long-format recording jobs. In addition to simultaneous record capability between decks 1 and 2, the DA-302 also features continuous record capability. With a standard 120 DAT tape in each well coupled with the unit's Long Play/Record capability (32kHz), you can achieve a whopping 8 hours of uninterrupted stereo record time! With its continuous (or relay) record and playback capability, the DA-302 can be interconnected with multiple units and provide even longer durations.

## A Duplication And Playback Wonder

A first among DAT recorders, the DA-302 incorporates External Control I/O for multiple unit operation, along with both digital and analog cascade outputs. Used individually or in a multiple unit system, the DA-302 has the features you need to get your duplication work done quickly.

Imagine interconnecting multiple DA-302s with the optional WR-7000 synchro cable and having each tape an exact duplicate of the original. Better yet, imagine all these tapes being created with a single keystroke from the master machine. The DA-302 is an expandable system that puts you in control!

For a quick backup copy within one unit, you'll certainly appreciate the DA-302's high-speed dubbing capability — another first among DAT recorders. Now you can run off a copy and not have to endure the real-time hassles so typically associated with duplication tasks.

With the DA-302's exciting new Append dubbing function, you can begin dubbing from any position on the master tape. Eliminating the necessity of rewinding and starting from the tape's beginning, Append dubbing is a feature you won't want to be without.

## The Inputs and Outputs You Need

As each DAT deck within the DA-302 can function either in tandem or independently, you'll need the same flexibility with the unit's inputs and outputs if you expect to really benefit. The DA-302 delivers the goods!

The DA-302 incorporates independent S/PDIF digital inputs and outputs for each deck — enabling you to digitally record or transfer different program material at the same time. Deck 1 can be digitally recording while deck 2 is digitally transferring material to an external unit — a tremendous time-saving feature for the busy studio operator.

For analog connections, you can integrate the DA-302 into your studio using the recorder's unbalanced RCA inputs and outputs. If you prefer, the optionally available LA-D302 balanced kit provides XLR connectors. Either way, in a commercial installation, the DA-302 provides the flexibility to send one set of

program material to the bar while the other deck feeds an entirely different set of material to the restaurant.

Monitoring your work will never be a problem with the DA-302. The unit's headphone output gives you the ability to monitor deck 1, deck 2 or a mix of both.

## Digital Output Format Selection

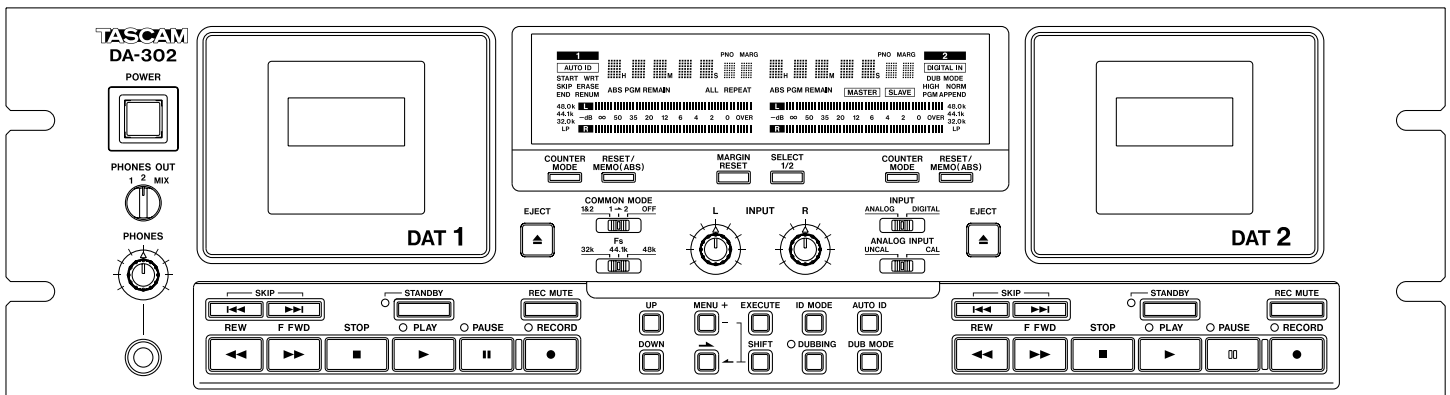
For transferring or archiving data digitally to external devices, the DA-302's digital output format selection supports both the S/PDIF and AES/EBU protocols. This digital output flexibility enables you to communicate with just about every imaginable piece of studio equipment on the market — vastly simplifying the integration of the DA-302 into your studio.

You'll also appreciate the DA-302's user-selectable Copy ID functionality. The DA-302 lets you flag tapes for one digital copy allowed, no digital copies allowed or unlimited copies. This way, you remain firmly in control of your tapes.

## One Great Sounding, Easy To Use Recorder

The DA-302 sounds terrific! This outstanding value delivers the goods you'd expect from any great DAT recorder. The DA-302 uses 1 bit Delta Sigma A/D and D/A converters — ensuring that your record and playback quality will be as natural sounding and transparent as you need it to be.

All controls are logically laid out with independent transport controls for each deck and easy to understand keys and switches for common system parameters. The DA-302's comprehensive, wide fluorescent display provides the information you need to keep track of the unit's operations and inspect record/playback levels, time displays, start IDs, etc.



DA-302 Dual DAT Recorder Front Panel

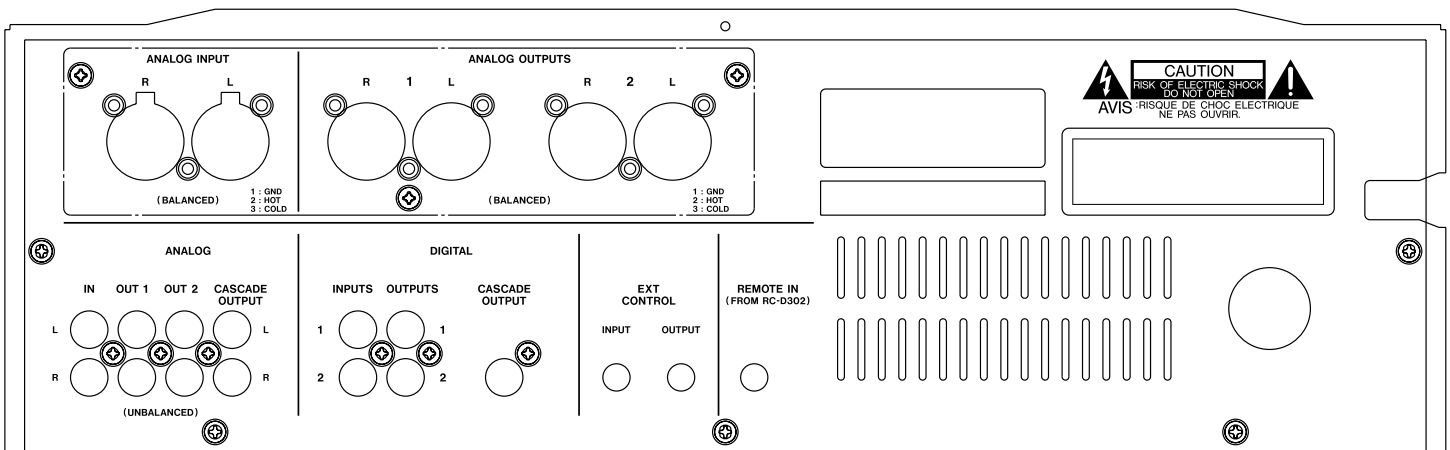
## Great Features You're Sure To Want

- Two DAT recorders built into a 3U rackmount configuration
- External control I/O for multiple unit operation
- High-speed dubbing capability (within one unit)
- Append dubbing capability facilitates dubbing from any position on the master tape
- Independent S/PDIF digital inputs and outputs for each deck
- Digital output format selection (S/PDIF or AES/EBU)
- Continuous recording between deck 1 and 2
- Simultaneous record capability
- Optional LA-D302 balanced analog I/O kit

## SPECIFICATIONS

Type:	Rotary head digital audio tape recorder
Tape Speed:	8.15 mm/sec (SP record/playback/LP double speed dubbing) 16.3 mm/sec (SP doublespeed dubbing) 4.075 mm/sec (LP record/playback) 12.225 mm/sec
Recording And Playback Time:	120 minutes in SP mode (with 120 minute tape) 240 minutes in LP mode (with 120 minute tape)
Fast Winding Time:	60 seconds or less (approx.) (with 120 minute tape)
Error Correction:	Duplex Read Solomon code
Channel:	2-channel stereo
Quantization:	16 bit linear (SP mode) 12 bit non-linear (LP mode)
Sampling Rate:	44.1kHz (recording/playback) 48kHz (recording/playback) 32kHz (recording/playback)
Emphasis:	50 msec/15 msec (only in playback)

Frequency Response:	20Hz~20kHz $\pm 0.5$ dB (Fs~48/44.1kHz) 20Hz~14.5kHz $\pm 0.5$ dB (Fs = 32kHz)
Signal to Noise Ratio:	Better than 90dB
Dynamic Range:	Better than 90dB
THD:	Less than 0.007% (SP mode) Less than 0.07% (LP mode) (recording/playback overall, at 1kHz, at full scale)
Channel Separation:	Better than 85dB (at 1kHz)
Wow and Flutter:	Unmeasurable (less than 0.001%)
Analog Line In	
Connector:	RCA x 2
Nominal Input Level:	-10dBV unbalanced (full-scale -16dB)
Input Impedance:	20KW
Analog Line Out	
Connector:	RCA x 2
Nominal Output Level:	-10dBV unbalanced
Maximum Output Level:	+6dB (2Vrms) unbalanced (10KW loaded)
Output Impedance:	Less than 1KW
Analog Cascade Output	
Connector:	RCA x 2
Nominal Output Level:	-10dBV unbalanced
Maximum Output Level:	+6dB (2Vrms) unbalanced (load 10KW)
Output Impedance:	Less than 1KW
Headphone Out:	stereo 1/4" jack, 20mW + 20 mW (load 32W)



DA-302 Rear Panel

## Digital Input

Connector: RCA x 2  
Format: IEC958 TYPE I (AES/EBU)  
IEC958 TYPE II (SPDIF), auto selection  
Input Impedance: 75W

## Digital output

Connector: RCA x 2  
Format: IEC958 TYPE I (AES/EBU)  
IEC958 TYPE II (SPDIF), switchable  
Output Level: 0.5Vp-p  
Output Impedance: 75W

## Cascade Output

Connector: RCA x 1  
Format: IEC958 TYPE I (AES/EBU)  
IEC958 TYPE II (SPDIF), switchable  
Output Level: 0.5Vp-p  
Output Impedance: 75W

Control In: Mini plug x 1 (TTL level)  
Control Out: Mini plug x 1 (TTL level)  
Power Consumption: 27W  
Dimension: 482 x 150.5 x 353 mm (D x H x D)  
Weight: 7.2Kg

Note: High speed duplication can be done only in one machine operation. It can not be allowed in multiple unit system due to the limit of SONY's DSP.

Note: Append dubbing allows to start dubbing from selected point on the master tape. In the Normal or High speed dubbing mode, both master and slave are wound to the beginning of the tape before dubbing start.

Specifications and features subject to change without notice or obligation.



For more information about other TASCAM FAXBACK literature, call 1-800-827-2268.

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