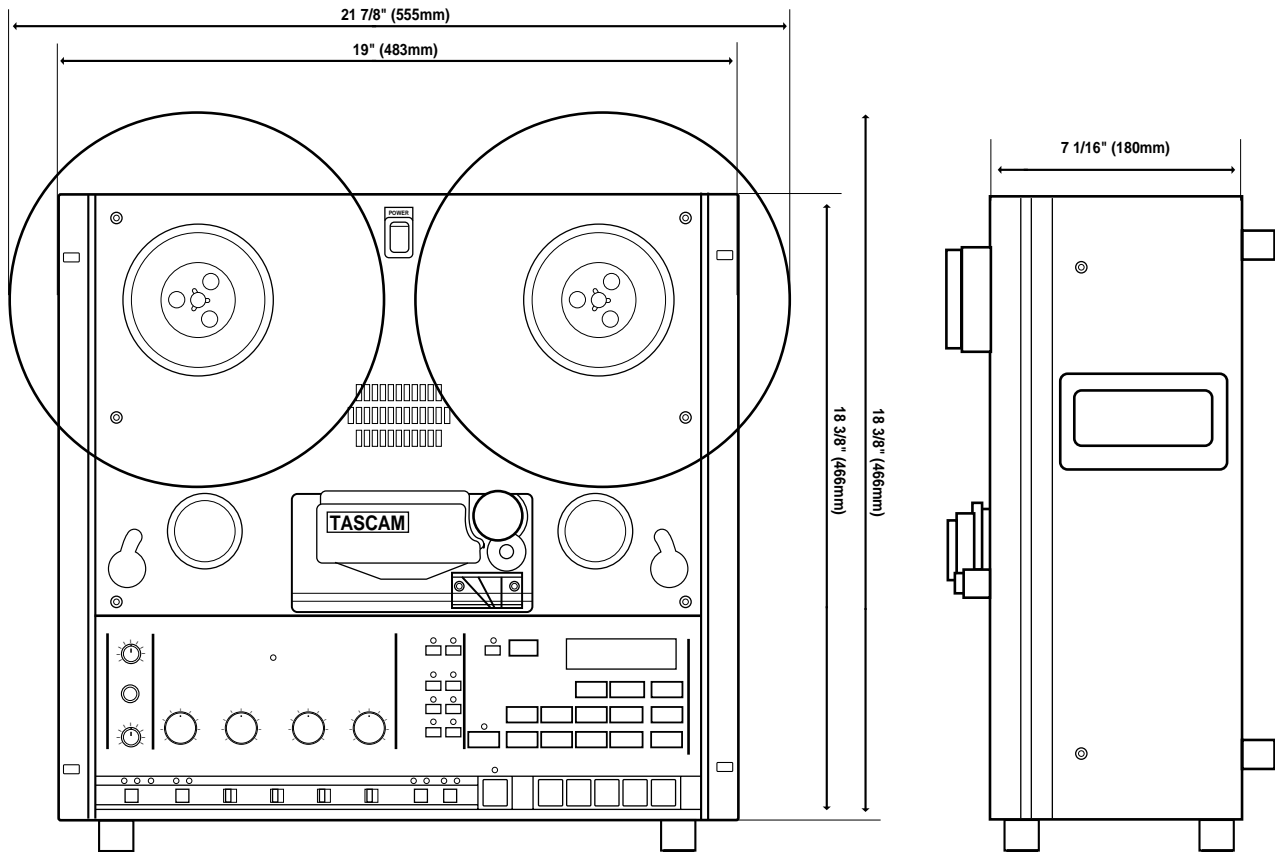


# BR-20 & BR-20T



## Advanced Analog 2-Track for Radio Broadcast & Video Post Production

Although digital equipment is the industry's newest and most exciting technology, analog equipment remains the mainstay for many radio broadcast production, video post-production, and related recording studios. Analog machines offer exceptional compatibility, ease of use, cost/performance, reliability, unique sound and, of course, familiarity.

The TASCAM BR-20 and BR-20T 2-track recorders have been specifically designed to achieve such results. Using the very latest microcomputer control technology to deliver the performance required for today's production studios, the compact BR-20 and BR-20T offer an array of advanced, easy-to-use features.

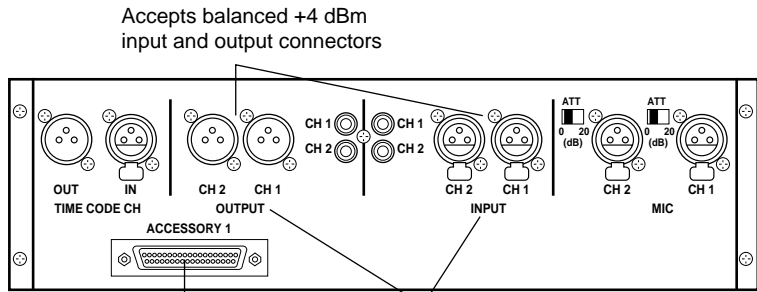
## Designed With Production In Mind

The BR-20 offers a selection of audio production features to allow interface, optimum performance and ease-of-use, such as balanced +4 dBm inputs and outputs, and easily accessible front panel audio calibration controls. Its transport was designed with a precision tension servo control system that achieves exceptionally smooth operation, accurate time counter readings, and smooth manual editing performance.

## The Latest In Analog Design Microcomputer Control Accuracy

Many of the BR-20's most advanced features have been made possible by state-of-the-art microprocessor control technology. Not only does the computerized precision enable accurate location of three pre-set cue points in addition to zero, but it allows direct time location as well.

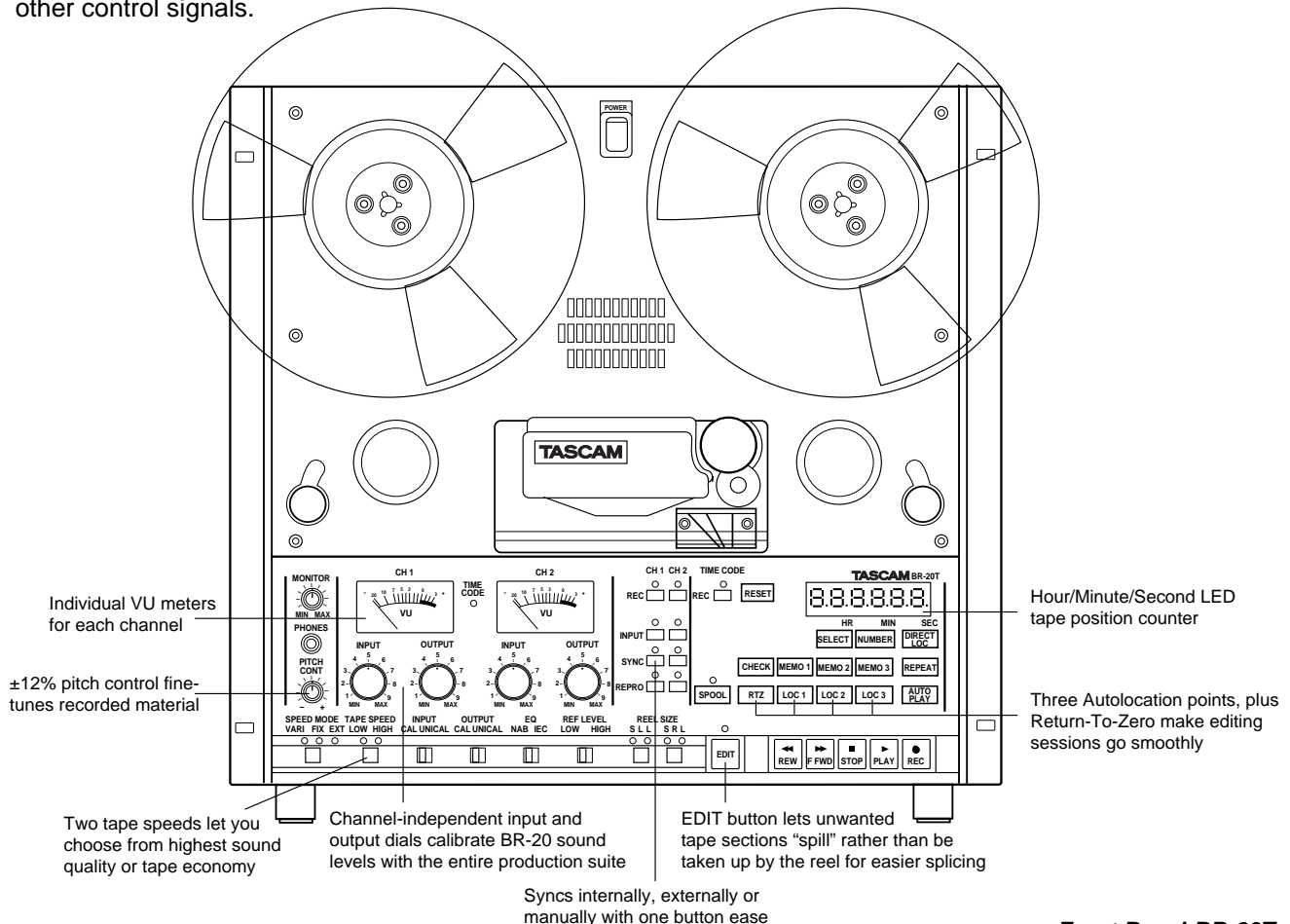
BR-20T offers even greater convenience and performance, it uses a center/line timecode waveform optimization system that eliminates the need for timecode level monitoring, offsets and adjustments. The ideal timecode waveform is automatically recorded on tape for error-free sync and control operation. The center/line track can also be used to store production information.



Rear Panel-BR-20T

## Flexible External Control

To make operation smoother and faster, nothing beats remote transport control. It gives you increased flexibility and greater convenience. The BR-20 gives you transport control from an optional TC-402 remote control unit connected to its ACCESSORY 1 parallel port. It also works hand in hand with such accessories as an external synchronizer capstan control, event triggering, a fader start control from a mixer, and many other control signals.



Front Panel-BR-20T

## SPECIFICATIONS

### MECHANICAL CHARACTERISTICS

#### BR-20

Tape:	1/4", 1.5 mil
Track Format:	2-Track, 2-Channel (2.0 mm/NAB)
Head Configuration:	3: Erase, record/sync and reproduce
Reel Size (max):	11.1" (PANCAKE), 10.5 inch, (NAB)
Tape Speed:	15 ips/7.5 ips (7.5 ips/ 3.75 ips on request)
Speed Accuracy:	+1.0% deviation
Pitch Control Range:	±12%
Wow and Flutter (15 ips):	+0.06% peak (DIN weighted)
Start Time:	0.3 sec.
Fast Wind Time:	120 sec. for 10.5" reel, 2,400-ft tape
Weight (net):	61-12/16 lbs

### ELECTRICAL CHARACTERISTICS

Line Input:	
XLR balanced:	+4 dBm/10 kohms
Unbalanced:	-10 dBV/50 k ohms
Line Output:	
XLR balanced:	+4 dBm/100 ohms
Unbalanced:	-10 dBV/600 ohms
Bias Frequency:	145 kHz
Power consumption:	95 W

### PERFORMANCE

Frequency Response: (Rec/repro) 15 ips:	35 Hz to 22 kHz ± 2dB (at 0 VU)
Total Harmonic Distortion (THD):	0.8% or less at 1,000 Hz, 320 nWb/m
Signal to Noise Ratio: (ref to 3% THD):	DIN AUDIO/ NAB A WTD 15 ips: 72 dB/79 dB NAB
Crosstalk:	60 dB or better at 1,000 Hz
Erasure:	70 dB or better at 1,000 Hz

#### BR-20T

Tape:	1/4", 1.5 mil
Track Format:	2-Track plus center/line timecode track
Head Configuration:	3: Erase, record/sync and reproduce
Reel Size (max):	11.1" (PANCAKE), 10.5 inch, (NAB)
Tape Speed:	15 ips/7.5 ips (7.5 ips/ 3.75 ips on request)
Speed Accuracy:	+1.0% deviation
Pitch Control Range:	±12%
Wow and Flutter (15 ips):	+0.06% peak (DIN weighted)
Start Time:	0.3 sec.
Fast Wind Time:	120 sec. for 10.5" reel, 2,400-ft tape
Weight (net):	61-12/16 lbs

### ELECTRICAL CHARACTERISTICS

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Note: in these specifications, 0 dBV is referenced to 1.0 volt, 0 dBu=0.7775V.

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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