

# CHROMATIC TUNERS

## for Wind Instruments

*Tuning, especially for beginners, can be a troublesome procedure, but Yamaha's Digital Chromatic Tuners make tuning quick and easy. Designed especially to fit the needs of wind players they offer features like the transposition function, to simplify the tuning of wind instruments of different keys. An auto tuning mode offers hands free tuning and easy to read displays provide important information at a glance allowing for precise tuning of the instrument. Beginners and professionals will agree, Yamaha tuners make tuning easy.*



### TD-20

- Large transposition dial makes selecting one of the common wind instrument keys (C, E<sup>b</sup>, F, B<sup>b</sup>) quick and easy.
- Auto tuning mode automatically selects the note you play for quick and easy, hands free tuning.
- Sound mode allows tuning by ear.
- A wide tuning range (A0 to C8) and adjustable standard pitch (A4=380-480Hz).
- Backlit display is precise and easy to read. Cent display shows the exact difference from the correct pitch.
- Input and Output jacks are provided for an external microphone or electronic instruments.



### TD-10

- Auto tuning mode automatically selects the closest note to the tone played. Sound mode lets you tune by ear.
- Easy to read display provides information at a glance.
- Adjustable standard pitch can be set from A=430-449Hz in 1Hz increments.
- Two AAA batteries offer extended operating time.



### TD-2

- Transposes to common wind instrument keys (C, B<sup>b</sup>, F, E<sup>b</sup>) while an auto mode selects the closest played note.
- Sound mode allows tuning by ear.
- Simple and clear indicators are easy to read, compact size fits in most instrument cases.
- 7 1/3 octave tuning range (A0 to C8) with adjustable standard pitch (A=438-445Hz).



### TD-1

- Transposes to common wind instrument keys (C, B<sup>b</sup>, F, E<sup>b</sup>), auto tuning mode offers hands free tuning.
- Simple and clear indicators provide information at a glance.
- Compact size fits in most instrument cases. Cassette size case doubles as a stand.
- Wide 7 1/3 tuning range (A0 to C8) with adjustable standard pitch (A=438-445Hz).

## Specifications

	TD-20	TD-10	TD-2	TD-1
Mode	Meter (Auto/Manual) Mode, Sound (Auto/Manual) Mode	Auto Mode, Manual Mode	Tuner Mode, Sound Mode	Tuner Mode
Display / Indicators	LCD Display (Calibration, Cent, Mode, Note, Battery check, Volume), VU-meter, LED (Pitch Guide)	Cent (Meter Display), Note Display, Standard Pitch Display, Mode Display	Cent indicator, Note indicator, Calibration indicator, Key indicator	Cent indicator, Note indicator, Calibration indicator, Key indicator
Note Setting Range	A0 - C8	A0 (27.50 Hz) - B7 (3951.07 Hz)	A0 (27.5Hz) - C8 (4186.0Hz)	A0 (27.5Hz) - C8 (4186.0Hz)
Accuracy	±1 cent	±1 cent	±1 cent	±1 cent
Standard Pitch Setting Range	A4= 380-480Hz (1Hz increments)	A4=430-449Hz (1Hz steps)	A4=438Hz - 445Hz (1Hz steps)	A4=438Hz - 445Hz (1Hz steps)
Transposition	C, E <sup>b</sup> , F, B <sup>b</sup>	-	C, E <sup>b</sup> , F, B <sup>b</sup>	C, E <sup>b</sup> , F, B <sup>b</sup>
Auto Power Off Function	-	After approx. 20 minutes	After approx. 5 minutes	After approx. 5 minutes
Other Functions	Backlit	-	Memory backup function Battery check function	Memory backup function Battery check function
Connector	INPUT (standard monaural), BYPASS (standard monaural), DC IN (12V)	INPUT jack (6.3 ø monaural)	INPUT (3.5 monaural)	INPUT (3.5 monaural)
Power Source	AA alkaline battery × 2 or AC adaptor (optional)	AAA battery × 2 (optional)	Lithium battery × 2 (CR-2025)	Lithium battery × 2 (CR-2025)
Battery Life	Approximately 50 hours (alkaline battery, Meter Mode, A4 continuous sound input)	Approximately 100 hrs. (Manganese standard battery, A4 continuous sound input)	Approximately 3 hrs. (When the microphone has continuous sound input.)	Approximately 3 hrs. (When the microphone has continuous sound input.)
Dimensions (W × H × D)	140.5 × 60 × 39.5 mm (5-1/2" × 2-3/8" × 1-9/16")	100.5 × 16.5 × 62 mm (3-15/16" × 5/8" × 2-7/16")	102 × 17.3 × 64 mm (4" × 0.68" × 2.5")	102 × 12 × 64 mm (4-1/8" × 1/2" × 2-1/2")
Weight (including batteries)	160 g (5.6 oz)	60 g (2.1 oz) (without batteries)	80 g (2.8 oz) (including batteries)	65 g (2.1 oz) (including batteries)
Accessories	AA alkaline battery × 2	-	Lithium battery × 2 (CR-2025)	Lithium battery × 2 (CR-2025), Hard case (can be used as stand)

\* Specifications and design are subject to change without notice.