

# PASS LABS

## Pass Labs Debuts XP-22 Preamp

At Pass Labs we don't change our products unless we feel that the changes are significant improvements over previous versions. Because of this our typical product life spans are eight to ten years.

We are constantly working on and listening to new things and increasing our knowledge of circuits and components on sound. Eventually we find some things worth putting into production because they are significant enough. That time has come with a new series of preamplifiers.



### XP-22 Preamplifier

Replacing the XP-20 Preamplifier that was introduced in 2008, the new XP-22 uses double shielded, low-noise toroidal transformers in an external supply connected via aviation-grade circular connectors using silver over oxygen-free copper. The power supply is dual mono, with two transformers offering lower radiated and mechanical noise. Noise is the most prominent part of THD+N at low levels, so by lowering noise we get better resolution and dynamics.

The gain circuitry continues to use our favorite transistors from Toshiba but has a larger, higher-biased, output stage like the Xs Preamp, and includes auto bias. The larger output stage makes longer, and multiple cable runs easier to drive and gives us the advantage of simplifying our single-ended output circuitry while increasing performance.

The volume control is a single stage instead of two stages and has more range; it is quieter and more accurate. This is the same volume control as used in the XP-30.



Overall this makes for a quieter, more neutral, musical and versatile control center for your system. The XP-22 measures spectacularly well — but it really stands out sonically.