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Find the *Crown Com-Tech 210* at our website: *Click HERE*

Com-Tech 10 Series. The New Commercial Amplifier Standard.

Designed from the ground up exclusively for the professional sound contractor, Com-Tech offers incredible features, flexibility, and the best long-term value in commercial audio today. And now, with the Com-Tech 10 Series, Crown brings you an even better value with upgraded features to help make your job easier.

New 10 Series Features

- R.S.V.P. Module. Enables remote power on/power off with no additional hardware needed.
- Reduced Power Consumption. At idle, the 10 Series uses significantly less power than other amplifiers. When in 8/4 Ohm mode, Com-Techs use 37% to 44% less power (depending on mode) and in 70V mode, from 42% to 60% less power (depending on mode). This means long-term savings in operating costs.
- More Powerful P.I.P. 2 Interface. With the addition of the improved P.I.P. 2 standard and internal upgrade, extremely accurate current monitoring information is now available through the Com-Tech's P.I.P. interface. In addition to the voltage sensing that was previously available, both frequency and impedance (load) monitoring can be performed via a P.I.P. module using our IQ System.
- On-Board Identification. The 10 Series features a new, non-volatile memory device in the amplifier that is accessible via P.I.P. interface. The chip contains model name, date of manufacture, manufacturer name and serial number. When used in combination with the IQ System, the chip automatically identifies the type of amplifier that is used at each location. This feature dramatically reduces the time needed to identify amplifiers in larger systems or when amplifiers have been moved within a system.
- Soft-Start Circuit. The 10 Series features a soft-staff circuit as well as a 4 second pseudo-random turn-on delay to minimize inrush currents and make power sequencers obsolete.

The Quality Sound and Reliability That's Trusted Around The World.

In installations worldwide, no name in amplifiers is more trusted than Crown. Like all our amplifiers, Com-Tech's quality starts with sonic accuracy, a defining characteristic of these amps. This means accurate, noise-free reproduction of the signal from crystal-clear highs to a tight, well-defined low end.



Com-Tech10 Series Power Ratings

Maximum average power at 1 kHz with less than 0.1% THD in Dual mode, both channels driven.

CT-210: 150W, 4 ohms
CT-410: 240W, 4 ohms
CT-810: 490W, 4 ohms
CT-1610: 870W, 4 ohms

Of course, the best sound in the world is only good for as long as it keeps going, which is why Com-Techs are built better to last longer.

Unlike most manufacturers, we take an integrated manufacturing approach that allows us to control quality at every step. Not only do we manufacture many of our own components, we also take the time to test every critical component that goes into a CT Series amp. Yes, it costs a little more, but it's another way we guarantee long-term product reliability and help protect your profitability by reducing unplanned service calls.

P.I.P. Flexibility Expands Capabilities and Lowers Costs.

The number of P.I.P. modules we've introduced has grown to over 20, with a wide range of capabilities such as crossovers, remote mic/line priority mixers and programmable compressors. Each module plugs into the back of a Com-Tech amp and provides performance equal or superior to stand-alone components at a cost- effective price. As an added benefit, you achieve additional savings by the reduction of required rack space and power distribution.

Most importantly, P.I.P.s allow your amp to easily take advantage of new technology as it's developed and extend the useful life of the amp far into the future.

For a complete list of available P.I.P.s and their capabilities, see your Crown Dealer, call our Fast Facts Fax, or visit our website at www.crownintl.com.

Essential Differences In Amplifier Design

Take a look at our list of innovations and you'll understand why Crown amplifiers are unequaled. Our design patents include virtually every major innovation in modern amplifier design—grounded bridge™, ODEP®, IOC®, P.I.P®, BCA™ and many more. Com-Techs take full advantage of these innovative designs such as grounded bridge with ODEP. Unlike schemes which use stepped "linear" output circuits, grounded bridge provides lower distortion, less thermal stress and a simpler, more reliable power supply. An added benefit is the efficient use of both power supply circuitry and chassis space for a high output power to size and weight ratio.

Com-Tech Gives You More Power Delivery Options

The Com-Tech 10 Series gives you more options for delivering their massive power than any other amp. We start with separate high voltage power supplies for each channel, allowing you to determine how to best configure your amp. For example, you may want to run one channel for 70 volts and use the other to drive a 4- or 8-ohm load. Whatever you choose, a simple flip of a switch quickly reconfigures your amplifier.

All Com-Techs feature a multi-impedance shift design that permits constant 70V output without the need for expensive, distortion causing, bandwidth reducing, output transformers. This means quicker, less expensive installations and better sound. For very long cable runs, Com-Techs can also be configured in a bridge-mono mode, reducing your wiring costs.

Outstanding Service & Support Backed by Two Warranties

From complete and clearly explained owner's manuals, to our experienced tech support staff, to our select authorized service centers, no one handles service and support as well as we do.

We back your purchase with the best warranty in the business—a Three Year No-Fault Full Warranty. This means that no matter what happens to your amplifier—even if it's damaged by accident—it's covered. No hassles. No arguing over fine print.

This warranty also guarantees that your amplifier will continue to meet or exceed all original printed specifications. In the rare case you should ever need service, we'll pay for all parts, all labor and all shipping costs in the U.S.A.[1]

And, as if our No-Fault Warranty wasn't enough, we've gone even further with our Installation Protection Plan for all Com-Tech installations in the U.S.A. As a contractor, you'll be covered by our exclusive 90-day installation warranty that not only covers the amp, but also pays you for any service calls. That's our commitment to long-term protection for you and your investment. And it's

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Com-Tech 10 Series Amplifier Specifications

Feature Summary

Ultra-Low Distortion: Crown's patented grounded bridge™ circuitry generates incredible voltage swings with ultra-low distortion and superior reliability.

ODEP® Protection: Patented Output Device Emulation Protection (ODEP) protects the amplifier and keeps the show going under adverse conditions that cause lesser amplifiers to fail. Front panel indicators show each channel's ODEP status. Several P.I.P.® modules also provide powerful features based on ODEP.

Distortion Indicator: Advanced Input/Output Comparator (IOC®) alerts you if the amplifier causes any distortion of 0.05% or more.

P.I.P. Compatibility: Accommodates Programmable Input Processor (P.I.P.) accessories that are used to customize the amplifier for specific applications.

Selectable Mono Modes: Bridge-Mono mode provides double output voltage, and Parallel-Mono mode provides double output current from a single channel.

Selectable Sensitivities: Choose from three input sensitivities: 0.775 volts for full rated power in 8/4-ohm mode, 0.775 volts for full rated power in 70-Volt mode, or a voltage gain of 26 dB.

70 Volt Output: Directly drives 70 volt distributed loud speaker systems.

NEW No Power Sequencers Needed: The soft-start circuit and the 4 second pseudo-random turn-on delay minimize inrush currents and make power sequencers obsolete.

Detented Level Controls: Detented level controls make it easy to set and reset precise levels.

Advanced Cooling System: Convection cooling with proportional, variable-speed forced air cooling which works only when needed and in proportion to amplifier cooling requirements.

NEW THX Approved: (Com-Tech 410 and 810) Lucasfilm® approved for THX® sound system installations.

No-Fault Warranty: Crown's exceptional Three Year "No-Fault" Full Warranty even covers round-trip shipping, and can be extended up to six years in the U.S.A.[1]

Performance

Note: The following performance specifications apply to 120 VAC, 60 Hz units in Dual mode with with both channels driven into 8 ohm loads and the input sensitivity set to 26 dB gain unless otherwise specified. Specifications for units supplied outside the U.S.A. may vary slightly at different AC voltages and frequencies.[1]

Frequency Response: ±0.1 dB from 20 Hz to 20 kHz at 1 watt.

Phase Response: ±10° from 10 Hz to 20 kHz at 1 watt.

Signal-to-Noise Ratio: A-weighted, better than 105 dB below full rated power. Better than 100 dB below full rated power from 20 Hz to 20 kHz.

Total Harmonic Distortion (THD): Less than 0.05% at full rated power from 20 Hz to 1 kHz increasing linearly to 0.1% at 20 kHz.

Intermodulation Distortion (IMD): Less than 0.05% from less than 10 milliwatts to full rated power.

Controlled Slew Rate: (Slew rates are limited to useful levels for ultrasonic/RF protection.) Greater than 13 volts per microsecond.

Damping Factor: Greater than 1,000 from 10 Hz to 400 Hz.



Power

Output Power: Maximum average power at 1 kHz with less than 0.1% THD and noise.

Com-Tech 210
Dual: 150 watts into 4 ohms. 110 watts into 8 ohms. 110 watts in 70 volt mode.
Bridge-Mono: 300 watts into 8 ohms. 220 watts into 16 ohms. 205 watts in 70 volt mode (140 volt output).
Parallel-Mono: 295 watts into 2 ohms. 215 watts into 4 ohms. 210 watts in 70 volt mode.

Com-Tech 410
Dual: 240 watts into 4 ohms. 220 into 8 ohms. 225 watts in 70 volt mode.
Bridge-Mono: 475 watts into 8 ohms. 450 watts into 16 ohms. 455 watts in 70 volt mode (140 volt output).
Parallel-Mono: 440 watts into 2 ohms. 440 watts into 4 ohms. 455 watts in 70 volt mode.

Com-Tech 810
Dual: 490 watts into 4 ohms. 305 watts into 8 ohms. 460 watts in 70 volt mode.
Bridge-Mono: 975 watts into 8 ohms. 610 watts into 16 ohms. 920 watts in 70 volt mode (140 volt output).
Parallel-Mono: 965 watts into 2 ohms. 610 watts into 4 ohms. 915 watts in 70 volt mode.

Com-Tech 1610
Dual: 870 watts into 4 ohms. 540 watts into 8 ohms. 960 watts in 70 volt mode.
Bridge-Mono: 1,745 watts into 8 ohms. 1,080 watts into 16 ohms. 1,805 watts in 70 volt mode (140 volt output).
Parallel-Mono: 1,745 watts into 2 ohms. 1,080 watts into 4 ohms. 1,780 watts in 70 volt mode.

Load Impedance: Safe with all types of loads. Rated for 4 to 8 ohms in Dual, 8 to 16 ohms in Bridge-Mono, and 2 to 4 ohms in Parallel-Mono mode. Appropriate loads vary widely in 70 volt mode.

Required AC Mains: 100, 120, 220 and 240 VAC, 50/60 Hz units are available (all voltage requirements are ±10%). All units draw 35 watts or less when idle.

AC Line Connector: Standard three-wire grounded connector.

Controls

Power: A front panel rocker switch used to turn the amplifier on and off.

Level: A detented back panel rotary potentiometer for each channel used to control the output level.

Dual/Mono: A three-position back panel switch used to select Dual, Bridge-Mono, or Parallel-Mono mode.

Output Mode: A recessed back panel switch for each channel used to select the 70 volt or 8/4 ohm output mode.

Sensitivity: A three-position switch located inside the P.I.P. compartment used to select the input sensitivity for both channels: 0.775 volts in 8/4 ohm mode or 0.775 volts in 70 volt mode for full rated output, or a voltage gain of 26 dB.

Reset: A back panel push button used to reset the circuit breaker that protects the power supplies.

Indicators

Enable: This amber indicator shows that the unit has been turned on and the low-voltage power supply is operational.

ODEP: An green indicator for each channel shows the reserve energy status. Normally, each indicator is brightly illuminated to show that reserve energy is available. In the rare event that a channel has no energy reserve, its ODEP indicator will dim in proportion to ODEP limiting.

IOC: A yellow indicator for each channel flashes if the amplifier causes any distortion of 0.05% or more.

Signal: A green indicator for each channel flashes to show that there is amplifier output.

Input/Output

Input Connector: A balanced three-terminal barrier block for each channel on the standard P.I.P-BB module. (A variety of input connectors are available with other P.I.P. modules)

Input Impedance: Nominally 20 K ohms balanced, and 10 K ohms unbalanced.

Output Connector: A four-terminal barrier block (two terminals per channel).

Output Impedance: Less than 10 milliohms in series with less than 2 microhenries.

Construction

Durable black finish on the steel chassis, a front panel Lexan overlay, and specially designed "flow-through" ventilation from front to side panels.

Cooling: Convection cooling with proportional, variable-speed forced air cooling which works only when needed and in proportion to amplifier cooling requirements. (Fan is an option for the Com-Tech 210).

NEW Power Cord: Three foot power cord makes rack install and cable dressing safer and easier while reducing AC interference.

Dimensions
Com-Tech 210 and 410: 19 in. (48.3 cm) wide, 3.5 in. (8.9 cm) tall and 16 in. (40.6 cm) deep behind the mounting surface. International Com-Tech 410s (non-120 VAC, 60 Hz units) are 5.25 in. (13.3 cm) tall.
Com-Tech 810: 19 in. (48.3 cm) wide, 5.25 in. (13.3 cm) tall and 16 in. (40.6 cm) deep behind the mounting surface.
Com-Tech 1610: 19 in. (48.3 cm) wide, 7 in. (17.8 cm) tall and 16 in. (40.6 cm) deep behind the mounting surface.

Approximate Weight
Com-Tech 210: Net 29 lbs, 6.5 oz. (13.3 kg). Shipping 33 lbs, 14 oz. (15.4 kg).
Com-Tech 410: Net 31 lbs, 15 oz. (14.5 kg). Shipping 36 lbs, 6 oz. (16.5 kg).
Com-Tech 810: Net 47 lbs, 4 oz. (21.5 kg). Shipping 50 lbs, 8 oz. (22.9 kg).
Com-Tech 1610: Net 57 lbs, 14 oz. (26.3 kg). Shipping 66 lbs, 10 oz. (29.4 kg).

Mounting: Standard 19 inch rack mounting (EIA RS-310-B).

[1] Please contact your Crown representative for full details. For customers outside of the USA, please contact your authorized Crown distributor for warranty information or call 219-294-8000.

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