

HARMAN QUICK PITCH GUIDE





CEILING SPEAKERS



COLUMN SPEAKERS

LCT 81C/T

LOW-PROFILE LAY-IN 2' X 2' CEILING TILE LOUDSPEAKER

- · High efficiency 200 mm (8 in) dual-cone driver
- · Perforated metal grille included
- · Combined 70V/100V and low impedance direct operation
- 20 Watts at 8Ω (low-impedance) direct setting
- 10 Watt multi-tap at 70V/100V with taps at 10W, 5W, 2.5W (and 1.3W for 70V only)



CBT 50LA-I

PASSIVE CONTROLLED-COVERAGE COLUMN SPEAKER WITH EIGHT 50 MM DRIVERS

- Patent-pending Constant Beamwidth Technology™ provides constant directivity up to the highest frequencies and reduces out-of-coverage lobing
- Switchable voicing: flat response in music mode or mid-range presence peak in speech mode
- Dynamic SonicGuard™ overload protection
- · Built-in 70V/100V transformer, plus 8 ohm direct capability



CONTROL CONTRACTOR 20 SERIES

BLIND-MOUNT SMALL FORMAT CEILING SPEAKERS

- Provide full-range, high-fidelity sound reinforcement for applications such as background music or music-plus-paging systems
- 4" to 6.5" speaker size versions (70V and 8 ohm capable)
- · Deliver extremely wide, even coverage enabling fewer speakers to be utilized.
- Two subwoofer models available
- Paintable



CBT 70J-I + 70JE-I

PASSIVE CONTROLLED-COVERAGE COLUMN SPEAKER WITH EXTENSION SYSTEM

- Components: Four 125 mm (5") high-power LF drivers (70|E-1)
- 500W power handling (70JE-1)
- Built-in crossover network for combining CBT 70|-1 and 70|E-1
- · Extended bass response to 45 Hz.
- Patent-pending Constant Beamwidth Technology™
- Switchable voicing: flat response in music mode or mid-range presence peak in speech mode

CONTROL CONTRACTOR 20 SERIES

SURFACE MOUNT SPEAKERS

- 13 models and sizes with an assortment of coverage patterns and output ranges
- · Deliver superior fidelity with high SPL output and wide, consistent coverage
- · Weather-resistant transducers and enclosures with high-impact polystyrene s
- Recently updated 23-1, 25-1 and 28-1 models provide higher power handling extended frequency range and U-bracket option
- · Patented JBL InvisiBall™ mounting enables easy install and theft deterrence



CBT 100LA-I

PASSIVE CONTROLLED-COVERAGE COLUMN SPEAKER WITH SIXTEEN 50 MM DRIVERS

- Vertical coverage switchable between 40° for medium-throw and 15° for long-throw
- Dynamic SonicGuard™ overload protection
- Built-in 70V / 100V transformer, plus 8 ohm direct capability
- · Life safety (LS) model also available
- \cdot CBT 200LA-1 model also available with thirty two 50 mm drivers in 200 cm housing



CONTROL CONTRACTOR 40 SERIES

CONSTANT-DIRECTIVITY CEILING SPEAKERS

- Premium, in-ceiling, specialty loudspeakers provide outstanding pattern control and superior sonic performance
- Patented RBI Radiation Boundary Integrator[®] provides uniform 120° conical coverage
- Six models including a low-profile model for tight ceiling spaces and a subwoofer with built-in passive crossover
- · High intelligibility even off axis so you can potentially use less speakers
- Paintable



CBT 1000 + CBT 1000E

PASSIVE CONTROLLED-COVERAGE COLUMN SPEAKER / EXTENSION SYSTEM

- · Components: Six (6) 165 mm (6.5") high-excursion LF drivers (CBT1000E)
- 1500W power handling (CBT1000E) or 3000W power handling (CBT1000+1000E)
- · Patent-pending Constant Beamwidth Technology™
- Patent-pending tapered horizontal in both front and rear corners of a room (CBT1000)
- · Switchable voicing for music mode or speech mode







PROFESSIONAL AMPLIFIERS

*6 YEAR WARRANTY PROMO ON ALL CROWN AMPLIFIERS

CROWN DRIVECORE SERIES

ANALOG + BLU LINK INPUT AMPLIFIERS

- · Available in 300W, 600W, I200W per channel versions
- · 2-and 4-c frame sizes (2RU rack space)
- · High Z or Low Z operation (8, 4, 2 ohm, 70V or 100V)
- · Blu Link versions available to use with BSS Audio Architect
- · IBL speaker tunings pre-loaded for easy install
- · Front Panel display for easy programming



Soundcraft

ANALOG AND DIGITAL MIXERS

NOTEPAD SERIES

SOUNDCRAFT ANALOG MIXERS

- · Legendary Soundcraft sound for music, podcasts or videos
- · Built-in USB audio interface to use with editing software
- · Renowned Soundcraft mic preamps
- Well-suited for home studio or portable studio requirements
- · Not just for musicians perfect for podcasters too



DRIVECORE INSTALL SERIES

DCi NETWORK AMPLIFIERS

- · 300W and 600W per channel models with 2, 4 or 8 channels
- 1250W and 2400W per channel models with 2 or 4 channels
- · Analog and Digital inputs (HARMAN Blu Link)
- · Network and Monitoring Control via HiOnet using Audio Architect
- Full DSP includes LevelMAX Limiter, EQ, Delay, Matrix Mixer and Speaker Line Monitoring



SOUNDCRAFT UI SERIES

Ui16, Ui12, Ui24R DIGITAL MIXERS

- 12-, 16- and 24-channel frame sizes and integrated Wi-Fi
- Remote Control Digital Mixer from up to 10 smart devices simultaneously
- · Signal Processing from dbx®, Digitech®, and Lexicon®
- Ui24 model enables multi-track recording, expansion option, Studer-designed mic pre-amps, and UDP Control Recall



DRIVECORE INSTALL NETWORK DISPLAY SERIES

DCi NETWORK AMPLIFIERS WITH AVB

- Two models available: 4-channel with 1250W output or 8-channel with 600W output
- Certified by the AVnu Alliance[®] as compliant with Audio Video Bridging and Time Sensitive Networking standards
- Designed to meet the requirements of mission critical, network-based multimedia applications where synchronization is paramount



SOUNDCRAFT SI SERIES

Si DIGITAL MIXERS

- 16-, 24- and 32-channel frame sizes
- Up to 80 channels to mix
- · Motorized faders and very tactile control
- Card slot expansion for apps such as Stagebox, Blu Link, Dante or digital recording
- · HiQnet port for wireless control via ViSi app or ViSi Listen app
- · BSS, DBX and Lexicon built in
- · VCA's on some models



CROWN XTI 2 SERIES

XTI 1002, 2002, 4002, 6002

- Premium output 2-channel amps in 500W, 800W, 1200W and 2100W per channel versions
- · PeakX Plus Limiters
- Enhanced control with Sub-harmonic Synth Selection
- · Three user-definable fan modes
- · 50 presets (49 user-definable)



SOUNDCRAFT VI SERIES

Vi DIGITAL MIXERS

- · Premium mixing console available in multiple frame sizes
- · Up to 128 inputs and 32 mono/stereo busses
- · Dante and MADI built-in; 2 expansion card slots
- · Motorized faders and very tactile control
- · HiQnet port for wireless control via ViSi app or ViSi Listen app
- · BSS, DBX and Lexicon built-in







AUDIO PROCESSORS

DBX SIGNAL PROCESSORS

ZONEPRO DIGITAL ZONE PROCESSORS

- 12x6 or 6x4 I/O choices; "M" versions added mic/line inputs
- · Fixed architecture with easy setup using the wizard tool
- Optional ZC Wall Controllers for zone control of volume, input source, and presets
- · AFS Advanced Feedback Suppression built-in
- Stackable Expansion option
- RS-232 for third-party control





COMMERCIAL MIXERS / AMPLIFIERS

JBL COMMERCIAL AUDIO

CSA SERIES AMPLIFIERS

- Eight options available with 1 or 2 channels and between 40W and 300W per channel, depending on model
- · Built-in 70V and 100V
- · Fanless, space-saving IU design
- · Sleep mode disable function
- · Energy-efficient amplifier





DBX SIGNAL PROCESSORS

ZONE CONTROLLERS

- Nine options including break-out boxes and wall mount controllers provide added utility to DBX Signal Processors
- Utilize analog DC voltage and Cat 5 cable connectivity for distances up to 1,000 feet
- Wall-mounted ZCs provide convenient access to source selection, volume, muting, and scenes / presets
- · ZC-FIRE model provides specialized Fire Safety interface





JBL COMMERCIAL AUDIO

CSM SERIES ANALOG MIXERS

- 4 or 8 inputs with I- or 2-channel outputs
- · Fanless, space-saving IU design
- · Configurable output routing (on 2-channel models only)
- · Independent base/treble controls
- Priority muting, VOX ducking, and phantom power
- CSM-21 and CSM-32 models offer specialized features for Public Address applications including one line input for priority audio, music EQ, and global mic EQ



BSS AUDIO SIGNAL PROCESSORS

SOUNDWEB FIXED I/O DEVICES

- · Professional-grade Audio DSP with five options
- Expandable with break in and break out boxes
- · Digital audio connectivity with BSS proprietary Blu Link topology
- · AEC Acoustic Echo Cancellation available
- · VOIP and POTS line available for audio-conferencing
- · RS-232 for third-party control



JBL COMMERCIAL AUDIO

VMA SERIES MIXER / AMPLIFIERS

- · Several configuration models available:
 - 5 inputs with single output of 60W, I20W, or 240W
 - 8 inputs with two outputs of 60W or I20W
- · Independent bass and treble controls for each output channel
- 100V and 70V output, or 4 ohms / 8 ohms
- · Paging Chime, and Priority muting
- · Works with JBL CSR-V wall controllers





BSS SIGNAL PROCESSORS

CONTRIO CONTROLLERS

- Six options provide enhanced control and audio routing flexibility when installed with BSS Soundweb devices
- Model options include various combinations including volume knob, 4-8 multi-color programmable buttons, backlit LCD display, and ethernet or analog control
- Compatible with stylish black or white Decora style switch plates in single or dual-gang configurations





JBL COMMERCIAL AUDIO

CSMA SERIES MIXER / AMPLIFIERS

- · Several configuration models available:
 - Inputs with single output of 80W or I20W
 - 8 inputs with two outputs of 40W, 80W or I20W
- · Fanless, space saving IU design
- · Independent bass and treble controls for each output channel
- Supports 70V and 100V distributed audio systems without the need for a separate transformer









COMPACT POWERED SPEAKERS

IRX SERIES

POWERED LOUDSPEAKERS WITH BLUETOOTH

- · Models include 8" or 12" IBL woofer and a robust 1300W amplifier
- · Bluetooth integration enables streaming source audio
- · Four real-world EQ presets take the guesswork out of optimizing sound
- · dbx AFS Automatic Feedback Suppression stops feedback before it starts.
- · One-touch ducking automatically lowers music volume when speech is detected
- · Lightweight design: <28 lbs.





POWERED LOUDSPEAKERS

EON600 SERIES

POWERED LOUDSPEAKERS WITH BLUETOOTH CONTROL

- · 10", 12", 15" two-way speakers and 18" subwoofer
- · JBL Waveguide Technology
- · 1000W Class D Amplifier
- · Bluetooth control of DSPs via EON Connect App
- Designed for flexible use: On side, standing up, pole mount, M10 Suspension Points





ALL-IN-ONE PORTABLE PA

EON ONE COMPACT

ALL-IN-ONE BATTERY POWERED PORTABLE PA WITH

4-CHANNEL MIXER

- 112 dB output the highest volume in its class
- · 8" woofer with deep low-frequency performance down to 37.5 Hz
- · Ultralight unit weighs just 17.6 lbs. (8 kg)
- · Set up quickly and easily using JBL EON ONE Compact Control App
- · Tool-free, swappable battery provides up to 12 hours of playtime
- · Bluetooth integration enable music streaming and connection 4 EON ONE Compact units



PRX800 SERIES

POWERED LOUDSPEAKERS WITH WI-FI CONTROL

- Powerful line-up includes a 12" two-way, 15" two-way, 15" three-way speaker and single or dual 18" subwoofers
- Built-in Wi-Fi for wireless control of your system from anywhere in the venue
- · Class-leading I 500W amplifier delivers ample power to fill your venue
- JBL Differential Drive® transducers for higher SPL in a lightweight design
- Updated tuning delivers flat frequency response and smooth off-axis behavior



EON ONE

ALL-IN-ONE LINEAR ARRAY PA WITH 6-CHANNEL MIXER

- · 380W of power, 118 dB max SPL for clear, detailed audio
- · Patent-pending linear-array configuration offers exceptional sound coverage
- · Unobstructed 10" bass-reflex subwoofer for accurate low-frequency response
- · Bluetooth connectivity for streaming audio from your mobile device
- · Powerful 6-channel mixer with easy-to-use controls



SRX800 SERIES

POWERED LOUDSPEAKERS WITH HIQNET NETWORKING

- Line-up includes 12" two-way, 15" two-way, 15" three-way speakers and single or dual 18" subwoofer
- · 2000W Crown DriveCore Amplification
- JBL Premium Transducers
- · User-configurable Advanced DSP with network control
- · LCD Screen and glow in the dark ink on back panel
- · Tour-worthy lightweight and durable cabinets and MIO Suspension Points



FON ONE PRO

ALL-IN-ONE BATTERY-POWERED PA WITH 7-CHANNEL MIXER

- · Unobstructed 8" subwoofer and linear array delivers powerful bass and great coverage
- · Performs for up to 6 hours without recharging
- · Lightweight (~35 lbs.) and compact modular design for easy breakdown and transport
- · 7-channel analog mixer featuring Hi-Z inputs and phantom power
- Stream break music or backing tracks from your mobile device via Bluetooth



VRX900 SERIES

CONSTANT CURVATURE LINE ARRAY SYSTEM

- Passive and Powered versions in 8" or 12" models (white finish also available), as well as subwoofer and stage monitor models
- 1750W peak power with built-in JBL DrivePack® DPC-2 amplifier module
- · Modular components deliver stunningly cohesive sound in any configuration
- · DSP based resident input module provides system optimization and EQ
- Durable construction and integrated rigging hardware for reliability and easy install





AKG

MICROPHONES AND HEADPHONES

AKG P120

CONDENSER MICROPHONE

- · Clear, accurate and affordable vocal microphone
- · Rugged, all-metal body and robust design
- · Versatile, general-purpose microphone
- · Excellent for recording, content creation, or presentation



Soundcraft



MIXERS AND MONITORS

SOUNDCRAFT NOTEPAD SERIES

ANALOG MIXERS

- · Legendary Soundcraft sound for music, podcasts or videos
- · Built-in USB audio interface to use with editing software
- · Renowned Soundcraft mic preamps
- Well-suited for home studio or portable studio requirements
- · Not just for musicians perfect for podcasters too



AKG K361-BT/K371-BT

BLUETOOTH HEADSETS

- · Over-ear, closed back for optimal comfort and sound quality
- · Built-in microphone
- Incredible AKG sound clarity
- · Great for working, creating content or studying from home



JBL 104-BT

BLUETOOTH STUDIO MONITORS

- Excellent sound for the price available in either black or white
- · Acoustically optimized for desktop placement
- · Three sets of inputs and built-in Bluetooth
- · Great for content creators, home workers, musicians



AKG LYRA

USB MICROPHONE

- · Ultra-HD sound with elegant retro design
- · Plug in headphones and control volume from the Lyra
- · Automatically reduces noise and improves signal levels
- · Ideal for podcasting, creating content, gaming or working from home



JBL 3 SERIES MKII

STUDIO MONITORS

- · Next generation JBL transducers for optimized response
- · New Boundary EQ settings
- · Powerful sound from dual integrated Class-D amplifiers
- Image Control Waveguide delivers precise detail and bigger sweet spot



AKG PODCASTER ESSENTIALS

AUDIO PRODUCTION KIT

- · Includes AKG Lyra microphone and K371 headphones
- Ultra-HD sound quality
- · K series headphones offer excellent comfort for all-day use
- The perfect bundle for home workers and content creators



JBL LSR310S

POWERED STUDIO SUBWOOFER

- 10" studio subwoofer with patented Slip-Stream™ port design
- · XLF Extended Low Frequency setting
- · Custom 10" down-firing high-excursion, low-frequency drive
- · Professional balanced inputs and outputs
- · Selectable input sensitivity



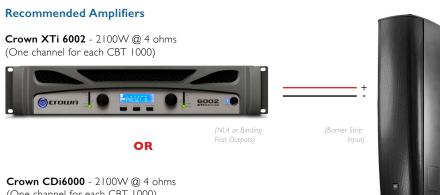






WIRING GUIDE FOR 1X CBT 1000 SPEAKER

Connect I amplifier channel to each CBT 1000 speaker



(One channel for each CBT 1000)



CBT 1000

OR

Crown DCi2x2400N - 2400W @ 4 ohms (One channel for each CBT 1000)



Amplifier Selection Considerations

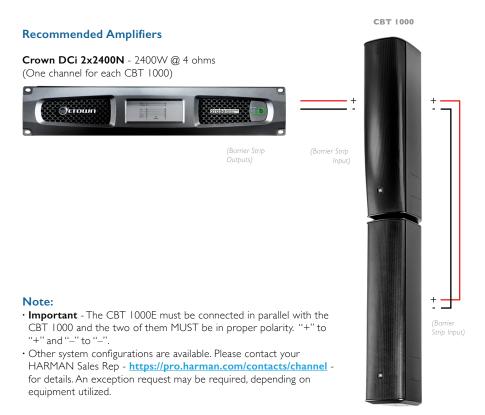
- · How much power is needed (less powerful amplifiers can be used if you don't need all the SPL the speaker is capable of producing. However, pushing a lower-power amplifier into clipping can damage the speaker).
- · How much DSP and which DSP functions are required.
- · Whether the amp needs to be networked (DCi-N).
- · Project's budget.





WIRING GUIDE FOR 1X CBT 1000 SPEAKER + 1X CBT 1000E ARRAY

Connect I amplifier channel to each CBT 1000 speaker + CBT 1000E array



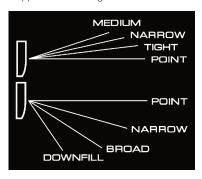
CBT I000E





SELECTABLE COVERAGE PATTERNS

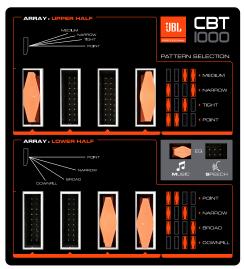
Upper-Half Coverage Pattern Selections



Lower-Half Coverage Pattern Selections

Selectable Coverage Patterns - Located on side of cabinet; covered by plate. Remove screws using #1 Phillips-head screwdriver (not included).

Position the orange headers to select the Upper and Lower coverage patterns and Music/ Speech voicing.



(Header position example shown above: Upper Half NARROW pattern setting; Lower Half DOWNFILL pattern setting; EQ is MUSIC/FLAT setting.)



DSP PROCESSOR SETTINGS FOR 1X CBT 1000 OR FOR 1X CBT 1000 + 1X CBT 1000E ARRAY

High-Pass and Limiter Settings:

- · Protective High-Pass: 35 Hz, 24 dB/oct, Linkwitz-Riley
- · LevelMax™ Limiter Settings:
 - RMS Threshold (VRMS): 65V
 - Click the "Automatic" Radial Button to set Peak
 - Threshold, Peak Release, and RMS Release to "Auto"
- · Transducer Thermal Limiting, Thermal Voltage: 52V
- · Thermal Response Time (Sec): 10 Sec

For recommended on- and off-wall EQ settings, go to:

https://jblpro.com/en-US/site_elements/cbt-1000-1000-e-eq-tunings

For more information about the CBT 1000 and CBT 1000E, go to:

https://jblpro.com/en-US/products/cbt-1000

https://jblpro.com/en-US/products/cbt-1000-plus-cbt-1000e-system