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About AV Innovation

Thank you for choosing AV Innovation, we are happy to provide you with this Proposal Pack for House Name, Location.

AV Innovation is a Cedia accredited Smart Home and Electrical Contractor. Based in South East London, we have been established for 10 years.

AV Innovation can provide assistance for the following:

- Home Automation
- Home Cinemas
- Multiple Room Distribution
- Intelligent Lighting
- CCTV & Door Entry
- Home Networks & WiFi
- AV/Datarack Building
- Electrical Services
- Project Management & Design

We work in most Residential. Commercial and Educational sectors



Our Proposal

WiFi and LAN

Ubiquiti USW-16-POE UnFi Gen2 8-Port Switch



The Ubiquiti USW-16-POE UniFi Gen2 16-Port Layer 2 Managed Rackmount Gigabit PoE+Switch has eight (8) auto-sensing 802.3at PoE+ ports, as well as two (2) SFP ports. It provides Gigabit PoE links to your RJ45 Ethernet devices and Gigabit fibre uplink options to your enterprise network. The USW-16-POE features a 1.3-inch touch LCM to provide status information. With a depth of about 20cm, the compact fanless design can be easily installed in a SOHO rack cabinet.

Key Features

- Eight (8) 1GbE 802.3at PoE+ RJ45 ports.
- Eight (8) 1GbE non-PoE RJ45 ports.
- Two (2) 1GbE SFP Ports.
- 1.3-inch touch LCM screen.
- Fanless design.
- Centrally managed by UniFi Controller.

UniFi Controller

Managed and configured by the UniFi Network Controller with UniFi mobile app support, the USW-16-POE offers an extensive suite of advanced Layer 2 switching protocols and features, including operation mode (switching, mirroring, or aggregate) per port. The UniFi Network Controller and mobile app allow admins to configure and monitor virtually all of the switch features in a graphical user interface, from anywhere.

Standard Warranty: 1-Year

Ubiquiti USW-Enterprise-24-POE Unifi 24-Port Switch



The Ubiquiti USW-Enterprise-24-PoE UniFi 24-Port Layer 3 Managed Rackmount Gigabit PoE+ Switch is a configurable Gigabit Layer 3 switch with auto-sensing 802.3at PoE+. It offers twelve (12) 2.5GbE RJ45 Ethernet ports, twelve (12) 1GbE RJ45 Ethernet ports, and (2) 10GbE SFP+ ports, providing 2.5GbE PoE links to your WiFi 6 APs and 10GbE fibre uplinks to your network. Features include a 1.3-inch touchscreen, single-row RJ45 port layout for easy patch panel cable management, and UniFi SmartPower Redundant Power System (USP-RPS - sold separately, see accessories) support for intelligent protection from internal PSU interruption or failure.

Key Features

- Twelve (12) 2.5GbE 802.3af/at PoE+ RJ45 ports.
- Twelve (12) 1GbE 802.3af/at PoE+ RJ45 ports.
- Two (2) 10GbE SFP+ ports.
- 400W total PoE capacity.
- 1.3-inch touchscreen with AR switch management.
- UniFi SmartPower RPS DC input (sold separately, see accessories tab).
- Managed with UniFi Network Application Version: 5.14.12 or higher.

Works with UniFi Network Application

- Manage Your Networks from a Single Control Plane
- Intuitive and Robust Configuration, Control and Monitoring
- Remote Firmware Upgrade
- Users and Guests
- Guest Portal/Hotspot Support

Standard Warranty: 1-Year

Ubiquiti U6-IW In-Wall WiFi 6 PoE Access Point



The Ubiquiti U6-IW UniFi In-Wall WiFi 6 PoE Access Point is a dual-band, wall-mounted access point, with four (4) GbE RJ45 ports, that brings plug-and-play WiFi 6 to your home or office. One of the U6-IW's ports also supports PoE output so you can connect and power a device via Ethernet. With its 2.4 and 5 GHz WiFi 6 bands, the U6-IW offers an aggregate, over-the-air throughput rate of 5.3 Gbps, which can support over 300 clients.

The Ubiquiti U6-IW will be used as a wifi point also with its 4 RJ45 ports can also be used to hardwire any equipment ie. TV's, Sky boxes, Games Consoles.

Whilst also being able to boost the WiFi signal around the unit for a stronger more secure connection. These points are hardwired into the Dream Wall to obtain the strongest internet connection.

Cat6 Cabling - Potential Routes

We will work with the client and or project manager to designate the most logical runs for cabling to minimise any destruction. This will also allow us to maximise the possibility to hide these cables so they will not obstruct any joinery and or finishes to the property.

Data Rack

The rack we will provide within our estimate will be determined by the site visit we do and will include how many items will be utilised within the rack. Space and location will also termine the type of rack that we will use:

- Free Standing Rack
- Skeleton Rack
- Wall Mounted Rack

Within these styles we will also allow for the space of the equipment needed and working this into the space we have to make this area as clean and simple as possible. All cables in this rack will be neat and tied up to help in maintenance.

Keystone & Rack Equipment

Within the Data Racks (once specified) we will then compile a list of items needed for the rack to work at its full ability:

- PDU's Power Distribution Units
- Keystone Patch Panels
- Network Switches
- Internet Routers
- Blank Plates
- Brush Plates
- Rack Shelves 1U/2U
- Cable Management Bars

Lighting Control

Lutron Palladiom Keypads for Lighting Control











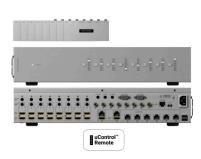
Palladiom Keypads combine subtle elegance with architectural design. The Keypads allow the control of lights, blinds/drapes and HVAC from one location, providing the optimal user experience.

International-style

- Square wall plate aesthetic, Single-column models 4-buttons
- Master raise/lower brightens or dims all lighting, or raises/lowers all assigned blinds in the last selected scene or toggled group
- Large buttons are easy to use
- Buttons and wall plates are made from the same material for a consistent aesthetic.
- Customizable engraving on buttons makes control simple to understand.
- Adjustable backlighting brightness makes it easy to find and read engraving on the keypad.

Audio & Visual

HDAnywhere MHUB S (8+8x8)





HDA MHUB-S (8+8x8) The stackable matrix

MHUB S is our solution for bigger projects. With up to 32 zones of video and control included, MHUB S is cheaper and easier to install than AV over IP. Supporting 100m of full-fat 4K range and no need for a control system, there's finally an alternative to AV over IP.

Easier than AV over IP.

Burn less calories thinking about your video distribution solution and spend more time building it. Your time is important. A project may involve the procurement of hardware, infrastructure, control and installation, this takes time and effort. MHUB S and a Zone Processor (if you're stacking systems) is 2 SKUs and everything needed is included inside the box. Building a 8x16, 8x24 or 8x32 system is the same difficulty as setting up a single MHUB.

Up to 50% cheaper.

If your project has less than 32 screens then MHUB S offers exceptional value for money compared with other methods of distribution because there's no requirement for a switch and control is included.

Sonos Amp





Powerful amp built-in

With a mighty 125 watts per channel, the Amp is over twice as powerful as the Sonos Connect Amp. This level of power makes all the difference with inefficient speakers or for when you're running larger speakers that need to fill a big room with immersive sound. For even more bass, use the sub output to connect your choice of powered subwoofer.

Top quality sound

The Sonos Amp isn't just about power, it's about sound quality, too. Featuring a Direct-digital feedback amplifier with discrete output stage, the Amp uses separate components for the highest quality sound and lowest distortion. Obsessive attention to detail even runs to black, painted circuit boards. These radiate heat better, keeping the Amp cooler for longer.

Connect up your TV and Hi-Fi

A handy HDMI socket makes it easy to connect your TV. If you've no spare HDMI socket on your TV, then purchasing an optional Sonos optical to HDMI converter lets you use the TV's optical output. For hi-fi sources, the Amp has a set of line level RCA phonos. These are perfect for a CD player, turntable (with built-in phono pre-amp) or any other music source with a line level output.

Sonos streaming

Use the award-winning Sonos app to play all your music in all your rooms. Compatible with not just the music stored on your device but also over 80 streaming services, the Sonos app is the only music app you need. Spotify, Apple Music, Amazon Music, Google Play Music, Tidal, Napster and Deezer are just a handful of the most popular services supported.

The Sonos system

Sonos gets better when you add more speakers. Play a movie in your living room, a podcast in the kitchen or the same music across all your Sonos devices – flexibility is key. The latest Sonos components link via your home Wi-Fi but for very best results, linking one component to an Ethernet connection will allow you to take advantage of the famous Sonos 'Mesh' system.

Strength through numbers

The more components you add, the stronger the dedicated wireless mesh becomes. Best of all, because it runs independently from your Wi-Fi, the reliability and strength of the signal is unaffected by Wi-Fi dropouts.

AirPlay control

If you'd prefer to use Apple's AirPlay instead of the Sonos app, then that's not a problem with the Amp. AirPlay connects via your home's Wi-Fi and lets you effortlessly stream audio from your Apple Mac, iPhone, iPod and many other compatible devices.

Built for continuous improvement

With its smooth good looks, the Sonos Amp is designed to look every bit as good in years to come as it does now. Yet Sonos have taken the idea of design longevity further by engineering the ability to update the electronics through future software updates.

Smart, thoughtful design

Every aspect of the Amp's style has been thoroughly and thoughtfully designed. The compact design is easy to accommodate on a shelf or desk and can be stacked or placed side-by-side in a rack mounting system. The waffle-patterned base plate draws air through for efficient cooling and enhanced reliability. The Amp is one cool product; in every aspect of design.

Sonos Era 100





The Sonos speaker for every application

Following on from the legendary Sonos One, the Era 100 continues with the handy size and class-leading music streaming control, but now offers even better sound and connectivity. Just like the One, the Sonos Era 100 suits a massive range of applications. From desktop, kitchen or bedside audio to stereo or even home cinema surround sound, the Era 100 makes the perfect choice.

All your music - in one place

The Sonos app is one of the most popular and well-loved out there. Bringing together your favourite music streaming services, via one easy to use app, makes Sonos ownership a pleasure. Compatible with Apple Music, Spotify, Pandora and the exclusive Sonos Radio, the Era 100 delivers near limitless streaming music.

Single speaker, spacious sound

Featuring twin, angled tweeters and custom waveguides, you get a much wider spread of sound. Stereo separation is improved, getting closer to how it sounded when it was recorded in the studio. The wider spread of sound also means that more of the people in the room hear more of the music.

Pair two for even more immersive sound

As good as a single Era 100 sounds, you'll get even better results with two. Paired in stereo mode, the sound becomes much more enveloping, drawing you deeper into the music. With two speakers, you also get a better balanced sound in larger rooms.

Just the start of the Sonos experience

Sonos has swiftly become a market-leading brand in wireless multiroom music. By starting with an Era 100 you can build up a fully interconnected system that takes in all the rooms in your home, your home cinema system and even portable/outdoor music. What's more, the award-winning Sonos app makes it dead easy to control and effortlessly lets you stream the music you like in the rooms you want.

Sonos Arc Soundbar





Premium sound

With no fewer than 11 Class-D amps and speakers packed into its sleek lines, the Sonos Arc has the muscle to match the mightiest movies and music. Featuring eight, dedicated woofer units you not only get natural vocals but also class-leading bass and the dynamic punch to bring soundtracks and music to live.

Immersive, 'arc' of audio

With three, precisely angled, silk dome tweeters, the Arc spreads the sound widely. Using a left/centre/right configuration, you get a 'wall of sound' for enveloping audio.

Expand to multi-channel – with Dolby Atmos support

Highly impressive on its own, you can take the Arc to the next level by adding a Sonos Sub and a pair of One SL speakers for incredible 5.1 channel surround sound. As a bonus, because of the wireless mesh system, no speaker cables are required. The latest Sonos surround system now supports Dolby Atmos encoded movies, giving you an even more cinematic sound.

Easy setup

Connecting the Arc is easy. Simply connect to the mains then plug in your TV via HDMI. An optical digital input is also standard. For streamlined control, an Infrared sensor syncs with your TV's remote, giving one-remote convenience.

The Sonos system

Sonos gets better when you add more speakers. Play a movie in your living room, a podcast in the kitchen or the same music across all your Sonos speakers – flexibility is key. The latest Sonos components link via your home Wi-Fi but for very best results, linking one component to an Ethernet connection gives the most stable solution.

Sonos Beam





Meet the new generation of one of the most popular compact sound bars, the Sonos Beam (Gen 2) Compact Soundbar. You'll find all the features of the Sonos Beam, now with a greatly improved processor and Dolby Atmos.

Inside, you'll find five speakers, all covered by an elegant perforated grille. The central tweeter handles dialogue enhancement, so you can hear every whisper clearly. Immerse yourself in your movie or a show with planes flying overhead or footsteps moving across the room thanks to Dolby Atmos virtual surround sound.

Hands-free help

Why fumble with a remote while you're playing games or enjoying a snack in front of a film. With Amazon Alexa and Google Assistant, you can simply use your voice. Just ask to turn up the volume without lifting a finger.

And with Apple AirPlay 2, you can stream directly from your Apple devices, and ask Siri to play your favourites from Apple Music. TruPlay lets you use your iOS device to tune audio to the acoustics of your room to ensure it sounds great.

Easy to set up

It only takes two cables to get the Beam 2 up and running and you'll have everything you need right in the box. Download the Sonos app to get step-by-step instructions, change settings and adjust volume. Part of the Sonos family, you can link speakers and enjoy music throughout your home.

Who needs another remote control to clutter your coffee table. Instead, the Beam 2 syncs with your TV, so you can control it with your TV's remote. That's one less thing to worry about!

Sonos Mini Sub





SONOS Sub Mini will deepen your enjoyment of TV, films, and more with bold bass when you pair with Beam, Ray, Era 100, One, or One SL.

Place it anywhere in the room, breeze through setup with help from the Sonos app, and experience richer, more immersive sound without any buzz.

More exhilarating home cinema

Unlock your entertainment experience when you pair Sub Mini with Beam or Ray. The 5 GHz WiFi connection enhances audio transmission speed so you can enjoy films, shows, and games with high-quality sound reliably synced with your TV.

Core power

Within the acoustically-sealed cabinet, dual custom woofers generate the full-toned low frequencies of a much larger subwoofer. Advanced processing further enhances the bass response.

No buzz or rattle

Both woofers face inwards to create a force-cancelling effect that neutralises distortion.

Better bass for your space

Trueplay[™] tuning technology adapts the bass for the unique acoustics of the room so it never sounds harsh, muddy, or flat — even if you place a Sub Mini next to the wall.

Connects wirelessly

Sub Mini connects to your system over WiFi, so you can place it wherever it fits and looks best in the room.

Sonos Sub (Gen3)





All the brawn

The key USP behind a subwoofer is to provide deep and sustained bass. The Sonos Sub doesn't disappoint on either front. Using twin, force-cancelling drivers with separate Class D amplifiers, the Sonos Sub provides a bass that is not only deep enough to rattle the windows, but also punchy, agile and dynamic. The bass simply sounds exactly as it should fast and deep with zero cabinet buzz or rattle.

The Trueplay revolution - giving you tailored sound

The Sonos Sub also features revolutionary Trueplay technology. Trueplay scans your room, analyses the results and then fine-tunes the Sub for the ideal listening experience. Whether your room is large or small, densely furnished or minimalist, the Sub adapts to give the most natural and realistic sound possible (iOS device required).

Sonos style

There are subwoofers and then there's the Sonos Sub. Available in gloss white or gloss black, the smoothly styled Sub looks way more stylish than the usual subwoofer. Sonos has even considered those really pushed for space as the Sub also functions horizontally as well as vertically, making it easy to place under a chair or sofa.

Made for your Sonos system

As you'd expect from Sonos, the Sonos Sub Gen 3 is a breeze to set up. With no wiring or programming required, simply press one button and follow the prompts from the Sonos app. It automatically adjusts the audio settings to ensure that the Sub is fully optimised to work with your paired Sonos components.

Bowers & Wilkins CCM382 300 Series 8" Speakers





CCM382: Flexible Series Pair

One of the challenges of custom installation is generating great sound in those hard to access places. Perfect for small spaces, these speakers ensure that you can have fantastic sound everywhere you want it.

Affordable, high-quality audio everywhere

Speakers from Bowers & Wilkins have always been recognised as delivering the best audio experience at any level. Techniques and materials honed to perfection in our core models have been successfully carried over to our custom products, so that those who want to hear everything whilst seeing nothing have had a clear solution. That is unless the environment is one of high humidity, such as a shower room or indoor swimming pool, which are unsuited to some of the advanced materials we have employed. All change! The three models in the new CI 300 Series have been specifically designed to cope with these more demanding environments, so whereas their cost effectiveness may lead them to being described as entry level, they also provide a point of entry to areas of the home that were previously off-limits for high-quality installation loudspeakers.

The coaxial CCM362 and CCM382 offer a choice of size dependent on the output level required. Both are balanced for wide-angle listening, commensurate with their in-ceiling placement, and both offer a choice of round or square aspect..

Origin Acoustics D83 DTEX Explorer







Tool-less installation

Interchangeable, secure, elegant. This is the way in-ceiling loudspeakers are meant to be installed. The Director Collection utilises our tool-less mounting system to provide secure installation in any ceiling. The spring-loaded clips with multiple points of contact ensure the weight is distributed more evenly than traditional dog-legs which protects your ceiling and decreases unwanted vibration transfer.

More bass. less space

A 6-inch loudspeaker simply cannot create the low end of an 8-inch. But most 8-inch loudspeakers require huge cut-outs. Not ours. Our 8-inch in-ceiling loudspeaker takes up the same space as our competitors' 6-inch. So by choosing our 80 Series loudspeakers, you are able to effectively have more bass, in less space.

Compression moulded woofer baskets

Using time tested and true technique of compression moulding, we are able to design and produce woofer baskets that are both highly stable and acoustically neutral. The end result is a reduction in distortion without coloration from the basket itself.

X-wave woofer surround

When a speaker cone reaches its limit of movement and comes to a hard stop, unwanted waves ripple up and down the cone. This is much like a wave hitting the edge of a pool and reflecting back in the centre of the water. Our X-Wave Woofer Surround progressively absorbs that impact, preventing unwanted sonic distortion and improving the overall fidelity of the loudspeaker.

Bowers & Wilkins CDA-4D DSP Amplifier, 4 Channel 125 watts



The CDA-4D is a compact distribution amplifier, designed to power current and future Bowers & Wilkins Custom Installation loudspeakers. Embedded DSP allows optimisation of a wide range of products and dynamic EQ for Bowers & Wilkins subwoofers. It boasts four channels of 125 watts each, and its full-rack-width 1U design delivers high-performance from minimum rack space.

Impressively smart

To ensure the CDA-4D delivers in the modern custom installation system, it is equipped with Digital Signal Processing (DSP). This allows it to be used in a wide variety of situations, provides control over IP and configuration, and for providing dynamic EQ for Bowers & Wilkins subwoofers.

Compact powerhouse

CDA-4D's 1U size means that it takes up the minimum of rack real estate. But with four channels of 125 watts of Class D amplification on hand it can deliver power when required. Plus, as it's bridgeable this can be configured to 2×250 watts, or a 2.1 setup (2×125 watts and 1×250 watts), where needed.

Flexible

Whether you are looking to upgrade an in-situ installation or planning a new one, the CDA-4D DSP amplifier is ideal. It can drive two zones, and works with a wide variety of Bowers & Wilkins products, both current and future.

Origin Acoustics C65EX Explorer In-Wall Speaker





The Explorer Collection of loudspeakers from Origin Acoustics were developed to withstand the harsh conditions found in marine environments. This includes exposure to saltwater, extreme temperature changes and airborne humidity. They will produce amazing musical fidelity while spending family time on the lake or a trip on the open sea and they have the build quality to last for years in these situations. Utilising a unique Weather proof coating, careful attention has been taken to protect every component in the speaker system from the electro-mechanical driver elements to the crossover networks. Stainless steel fasteners and connectors have been selected to enhance wire connections and overall system durability. Now you can experience the incredible sound quality we are known for while enjoying your time on the water.

Lyngdorf MH-3







Based upon the compact Lyngdorf speaker designs, the MH-3 sets a new bar for how small a speaker can be, while still providing high-level dynamic performance. With a focus on reproduction of open voices and tight transients, the MH-3 is the optimal choice for a small stereo or media room installation with subwoofers.

Powerful and compact design

The MH-3 is a two-way speaker with a powerful 4" midrange driver mounted in a very compact enclosure featuring wall mounts. In order to have an audiophile performance in this extremely small cabinet, we have designed this 4" driver with a magnet 50% stronger than traditional 4" drivers. This magnet design results in a higher sensitivity and a linear frequency response in this important frequency range.

Flexibility in installation

The MH-3 provides significant flexibility in placement due to the compact cabinet design and wide vertical dispersion pattern of the special tweeter design. The MH-3 may be placed 12"/30 cm above or below listening height without compromising the listening experience. This is the result of the very compact design of the soft dome tweeter, chosen for its lightweight structure, low noise, and linear frequency response. This tweeter has the added advantage of emphasising musicality over analytic qualities, thus providing a truly musical experience.

Ease of installation is taken one step further with the very compact cabinet designed for wall mounting. The depth of the cabinet has been reduced to just over three inches, ensuring discreet placement along with optimal coupling to the room for nearly perfect timing response. As one expects from Lyngdorf Audio, the quality of the cabinet is apparent from the solid structure emphasising our focus on dynamic music reproduction and high-quality performance.

Marantz CINEMA40





The Marantz Cinema 40 AV Amplifier is an 8K, 9.4 channel high-performance receiver offering 125 watts of continuous power per channel and a wealth of network connectivity features including HEOS streaming. Seven 8K UHD inputs offer comprehensive compatibility with your streaming and gaming devices and can even upscale legacy HD and 4K content into glistening 8K. Dolby Atmos, DTS:X, Dolby Vision, IMAX Enhanced and Auro3D with HDR10+, Dynamic HDR support ensures your content looks and sounds its best, offering depth and detail taking your home entertainment to the next level.

HEOS streaming, Bluetooth and Airplay 2 compatibility enables you to stream from all your favourite services including Spotify, Amazon Music and Apple Music for prestigious Marantz amplification for your favourite albums and playlists. The stunning build quality and finish offer timeless elegance for any space and thanks to a convenient setup process and bespoke backlit remote, you'll be up and running in no time. What's more, the included Audyssey MultEQ XT32 will fine-tune your speaker setup to your space for perfectly tailored audio from any source.

Key Features

- 125 W per channel for a full-bodied home cinema experience
- Seven 8K HDMI inputs partner with full 8K eARC HDMI output, including 8K upscaling for 4K / 1080p content so you can make the most of your high-resolution screen
- Includes Dolby Atmos and DTS:X including virtual height and surround technology, augmenting compatibility anywhere from 2.1 setups to full 7.2 surround sound
- Bluetooth receiver and re-transmitter can be connected to wireless headphones
- HEOS Streaming, Spotify Connect, AirPlay2 audio streaming and TuneIn internet radio for quick connection and wireless music streaming
- Included with Audyssey MultEQ microphone for easy room correction and measurement

Epsom EH-LS12000B





The ultimate picture quality

Heighten your home cinematic experience with this 4K resolution projector. Epson's 3LCD technology allows you to avoid the 'rainbow effect' and enjoy vivid colours thanks to an equally high White and Colour Light Output of 2,700 lumens. HDR10+ support reveals extra detail and depth, giving you natural yet richer colours. What's more, see incredibly defined detail in the shadows with the high contrast ratio of 2,5000,000:1 delivering deep blacks. With 4K Frame interpolation, 4K Super Resolution and scene adaptive gamma correction/auto contrast enhancement, the ultimate home-cinema experience is at your fingertips.

Easy yet durable set-up

We don't think a home projector should be any more complicated to use than a TV. Installation is simple and precise thanks to motorised optics including a powered 2.1x optical zoom, powered focus and powered lens shift of $\pm 96.3\%$ vertical and $\pm 47.1\%$ horizontal.

Lasting solution

The long-lasting laser light source will provide lower energy consumption, and you'll be able to enjoy home entertainment for up to 10 years¹.

Controls

It's easy to view films in the right aspect ratio by storing your ten favourite formats. The Epson EH-LS12000B is also compatible with Calman software calibration.

Lyngdorf MH-2





The MH-2 is designed with a focus on discretion and exceptional performance. Available in matte black or matte white—it has been designed for optimal dynamic performance combined with genuine musicality.

Incredibly versatile and compact

The shallow MH-2 can be placed on furniture, wall mounted, or by using standard aftermarket 100x100mm brackets. The cabinet is extremely compact and solid, emphasising our focus on dynamic music reproduction without sacrificing natural timbre. The depth of the cabinet is reduced to a minimum, not only for improving the physical footprint, but also to minimise cabinet contributions.

Built to play loud

With its clear and unstressed sound, the MH-2 calls for playing loud and all night. The speaker is designed for high performance through use of a temperature resistant voice coil made from glass fibre and impregnated with polyimide resin, ventilated magnet as well as a copper cap on the magnet. These measures all minimise temperature build-up and distortion.

Even better together

The MH-2 speakers are satellite speakers and can hold their ground on their own, but they are designed to be complemented by one or more high-end subwoofers. If you combine them together with our BW-2 high bandwidth subwoofers – along with the TDAI-1120 or TDAI-3400 with built-in RoomPerfect™ and digital crossovers – you will produce a full range system that simply outperforms anything in or above its price range.

The logistics are incredibly simple. Just hook up a pair of MH-2's and one or two BW-2's to the TDAI, switch the BW-2 to the "bypass" function, and select the preconfigured speaker setup in the TDAI's setup menu. Finish it off by running RoomPerfect™. Then sit back and enjoy.

Lyngdorf FR1 On-Wall Speaker











This two-way, full range loudspeaker brings our compact speaker designs to a new level of performance with the genuine musicality characterising Lyngdorf Audio. Our focus on dynamic performance resulted in a closed cabinet design with a large passive unit, which suppresses the internal resonance frequency and allows for deep bass from this elegant shallow cabinet.

Designed for wall mounting, the FR-1 is compact and solid, emphasising our focus on dynamic music reproduction without sacrificing natural timbre. The depth of the cabinet is reduced to a minimum to ensure discreet placement and to keep the drivers as close to the wall as possible for optimal coupling to the room.

Plays excellent without a subwoofer

With a new powerful 6.5" driver and the added output from the passive unit, the FR-1 does not need the support of a subwoofer. The driver is designed with a strong magnet and, together with the supporting 8" passive unit, the low-frequency performance is unequalled in such a small cabinet. Voices are exceptionally open, and transients are tight and clean, which makes the FR-1 the optimal choice for an elegant home media installation.

Designed with an impressive soundstage

The speaker cones are made from aluminium, which is light and stiff and designed with a single well-defined breakup point that is easy to counteract in the internal filters. The textile soft dome design tweeter from the Lyngdorf MH-2 is redesigned to match the higher output, and the result is convincing with high sensitivity and an impressive soundstage.

M&K V12+ Active Subwoofer





Huge power output and enhanced performance

Increased amplifier power output over the former V Series for all three new V+ subwoofers. Furthermore, The V12+ have had their deep bass frequency response extended from 25Hz (on the former V12 and V10 models) down to a thunderous 20Hz (-6dB).

Sleek designs and compact form factors

The compact V+ Series subwoofers offer new curved and tapered external housings, making them both discrete and ideal for placement within family rooms or design-conscious environments. The manageable cuboid form factors include perfect square faceplates measuring 15.5 inches2 (V12+)

New and convenient M&K App control from a seated position

The V12+ subwoofer enables configuration from the comfort of a seated position via the convenient, downloadable M&K App, available at the Apple Store or Google Play Store. As well as adjustments to volume, crossover frequency, delay and phase, the state-of-the-art M&K App provides onboard control options for new owners to set up Manual EQ and Auto EQ parameters.

THX® Certification ensures movie audio performance "as the director intended" The 12-inch V12+ has achieved THX® Certified Select status, meaning the subwoofer can attain professional cinema audio reference levels in rooms of up to 3,000ft3 and 2,000ft3, respectively.

Bowers & Wilkins CCM684 8" In-Ceiling Speakers



The B&W CCM684 in ceiling speakers are a high performance ceiling speaker that's simplicity itself to install and use. The Bowers & Wilkins in ceiling speakers feature a two-way design, featuring a 200mm (8in) woven glass fibre cone bass/midrange driver and a soft dome tweeter in a neat circular ceiling mount chassis. The B&W CCM684 tweeter housing pivots for adjustable off-axis treble response and the speaker also features a three-position EQ switch for a better off-axis response. The B&W CCM684 in ceiling speakers incorporate QuickDogs™ and a plug-and-play functionality; it is quick and easy to install.



Termination & Testing

Termination

There are a few options for terminations for the networking cables and we will use the ones most suitable for there needs:

- RJ45 Plug These will come with a boot to restrict the damage to the end of this cable and gives it some more protection
- Keystone These will either be terminated into a keystone patch panel at the Rack end or within module plates within the walls. Cat leads can then be plugged in to connect all devices requiring data,

Testing + Certification

AV Innovation will test all runs of the network cables we have provided and will label the ends of each side to coincide with what they will be providing data too. This test will include meterage and whether each core has been terminated correctly. This allows us to also find if any previous cables installed are damaged and or working to the correct specifications.

We can provide certification for this stating:

- What type of cable has been used
- Number of that cable which will relate to the label added
- Locations Where the cable starts and where they finish
- Meterage of cable

This will be signed off by our engineers once they have been tested and they are happy with the runs.

Final Words

Thank you once again for the opportunity to work with you on this project. We hope that our proposal works to your satisfaction and what you'd like to achieve. We look forward to hearing from you.