



# Designing MTR rooms for modern workplaces

The ultimate guide to effortless meetings

## The advantages of a room design with Microsoft Teams Rooms (MTR) certified solutions

Microsoft Teams Rooms (MTR) stands out as a comprehensive and user-friendly option for a meeting room design. Workplace meeting spaces that are equipped with MTR are characterized by easy, single-tap initiation and an intuitive interface, freeing personal devices from the burdens of video conferencing tasks. These spaces incorporate special MTR devices, that are outfitted with Microsoft-certified peripherals like cameras, microphones, and speakers to enrich the meeting experience.

What sets a Microsoft Teams Rooms apart is its ability to drive the meetings and control the peripherals. Scheduling is simplified: invite the room, and with a tap on the MTR-certified touchscreen, the meeting begins, automatically engaging all necessary peripherals. This eliminates the need for personal laptops or the hassle of connecting cables.

MTRs are not just time savers; they improve the meeting quality and significantly enhance productivity by ensuring punctual meeting starts, reducing the need for IT support, and fostering efficient, effective collaboration, thereby becoming an ideal solution in the modern workplace.



## The Kramer-AudioCodes complete MTR solutions

Kramer and AudioCodes offer complete MTR solutions that cater to meeting rooms of all sizes, from small huddle rooms to expansive, fully equipped boardrooms. They are designed for versatility and offer a cost-effective solution without compromising on security or quality.

Our MTR solutions provide a fully tested room solution, where all components are guaranteed to work in harmony, along with ready-made plans and schematics for the entire installation. This approach significantly reduces adjustment times and labor costs, resulting in considerable savings and allowing system integrators to offer more competitive solutions to their customers.

Learn more:



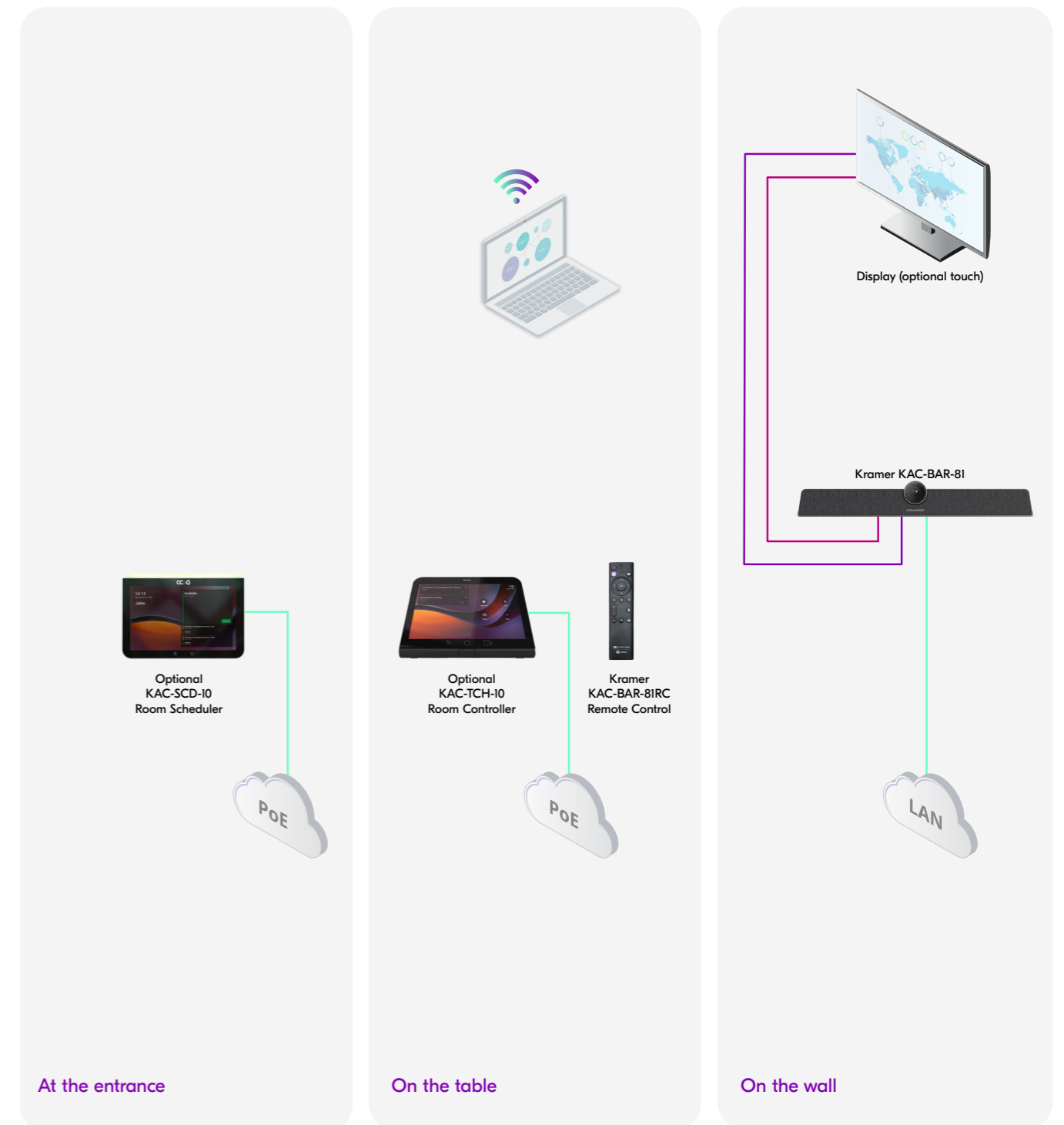
[www.kramerav.com/feat-products/microsoft-teams-rooms-solutions](http://www.kramerav.com/feat-products/microsoft-teams-rooms-solutions)



## MTR solutions for Huddle Rooms

Huddle rooms are modern, flexible workspaces, reflecting a new enterprise culture that highlights teamwork and innovation. Choose our MTR Huddle Rooms solutions to revolutionize and elevate these team gathering areas with audio-video capabilities, crafted for smooth, clutter-free collaboration. Perfectly suited for huddle rooms, executive spaces, and flexible open areas, this solution guarantees an organized, productive meeting environment. A key advantage of our system is that it offers similar audio and video quality, as people expect from a large MTR room, but at a highly competitive price. This ensures that even in smaller spaces, you don't compromise on quality or functionality, making every meeting efficient and engaging, regardless of the room size.

The MTR Huddle Room solution caters to modern-style team meetings in relatively smaller spaces. It offers a straightforward and cost-effective way to conduct Microsoft Teams Rooms meetings. The room, assigned a dedicated MTR license, is easily bookable. Meetings are initiated with a simple "join" click on the touch display, with remote control, or directly on the optional sleek scheduler, mounted outside the room, instantly connecting the room and participants to the Teams meeting. Content sharing is wireless, exclusively done through the Teams meeting platform, ensuring a streamlined and cable-free experience. This setup also accommodates non-hybrid meetings efficiently, following the same user-friendly procedure.



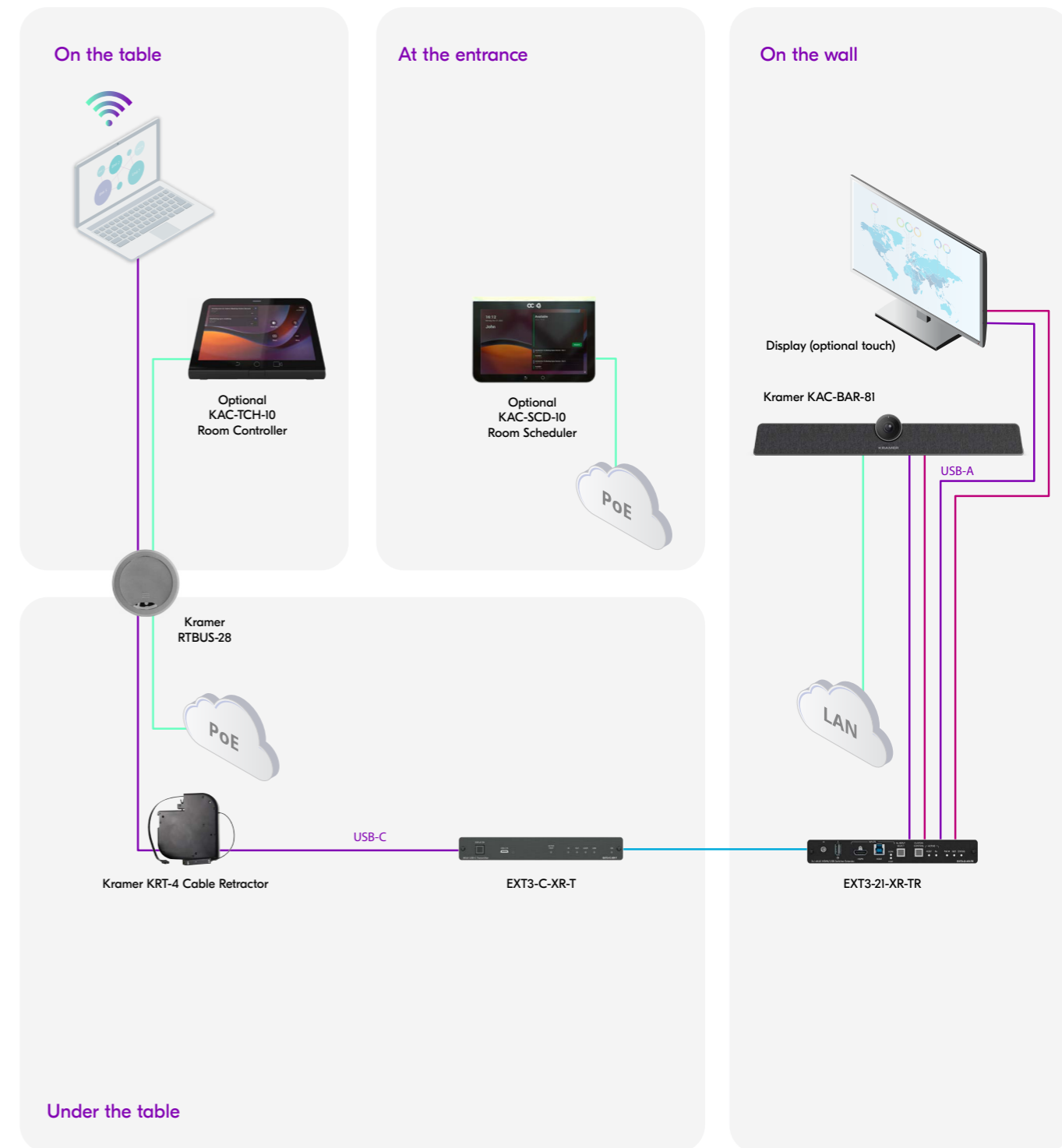
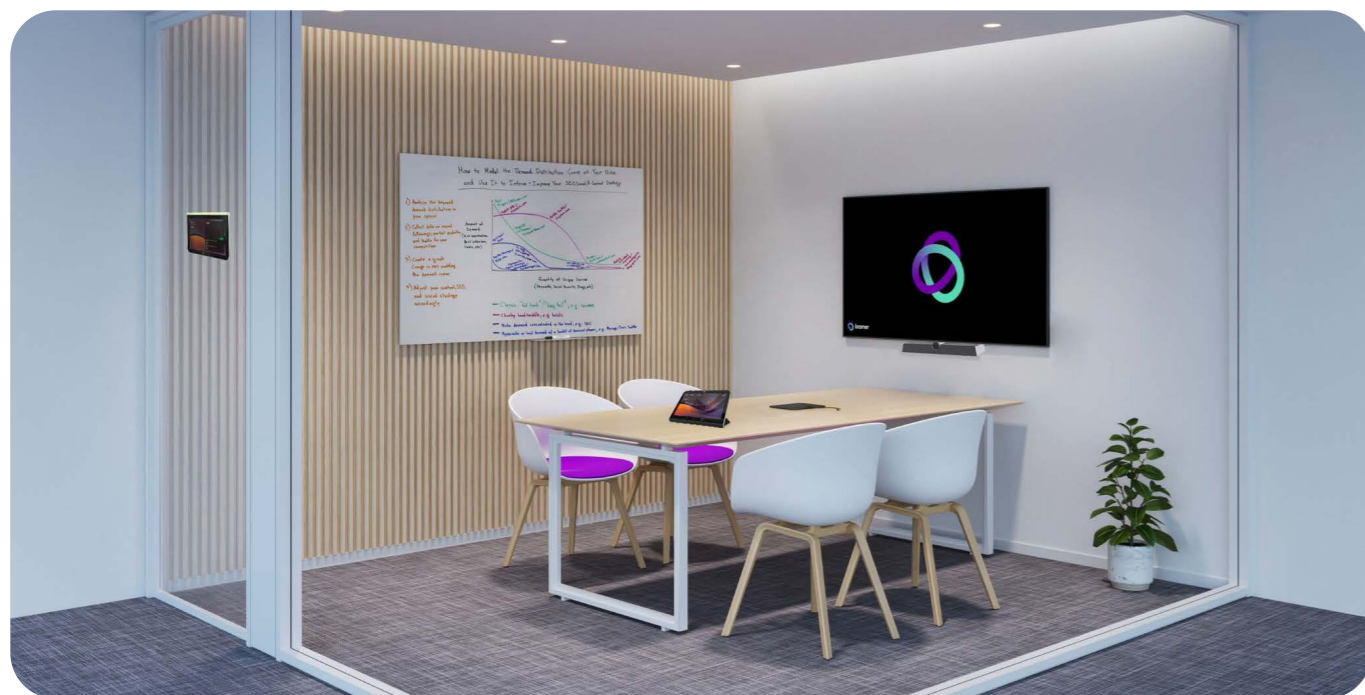


# MTR/BYOD switchable solutions for Small Meeting Rooms

Our MTR/BYOD switchable solution for Small Meeting Rooms seamlessly blends the functionality of an MTR setup with the flexibility of Bring Your Own Device (BYOD) capabilities, offering unparalleled ease of use and versatility in any meeting environment. As a default, it operates as an MTR room, allowing users to initiate meetings and share content effortlessly, mirroring the convenience found in huddle room solutions.

Transitioning to a BYOD room is as simple as connecting a laptop to the USB-C cable located on the table. This connection instantly transforms the laptop into the meeting's centerpiece, presenting 4K video on the display, while integrating the KAC-BAR-81 as a USB room peripheral—encompassing a camera, microphone, and speakers. Disconnecting the laptop automatically reverts the setup back to an MTR configuration, maintaining operational simplicity and efficiency.

This flexibility, combined with our competitive implementation, positions this MTR/BYOD switchable solution as a leading choice for organizations seeking to enhance their audio-visual capabilities. Whether facilitating an internal team meeting or hosting external clients, this solution ensures a seamless, high-quality meeting experience that adapts to your specific needs.

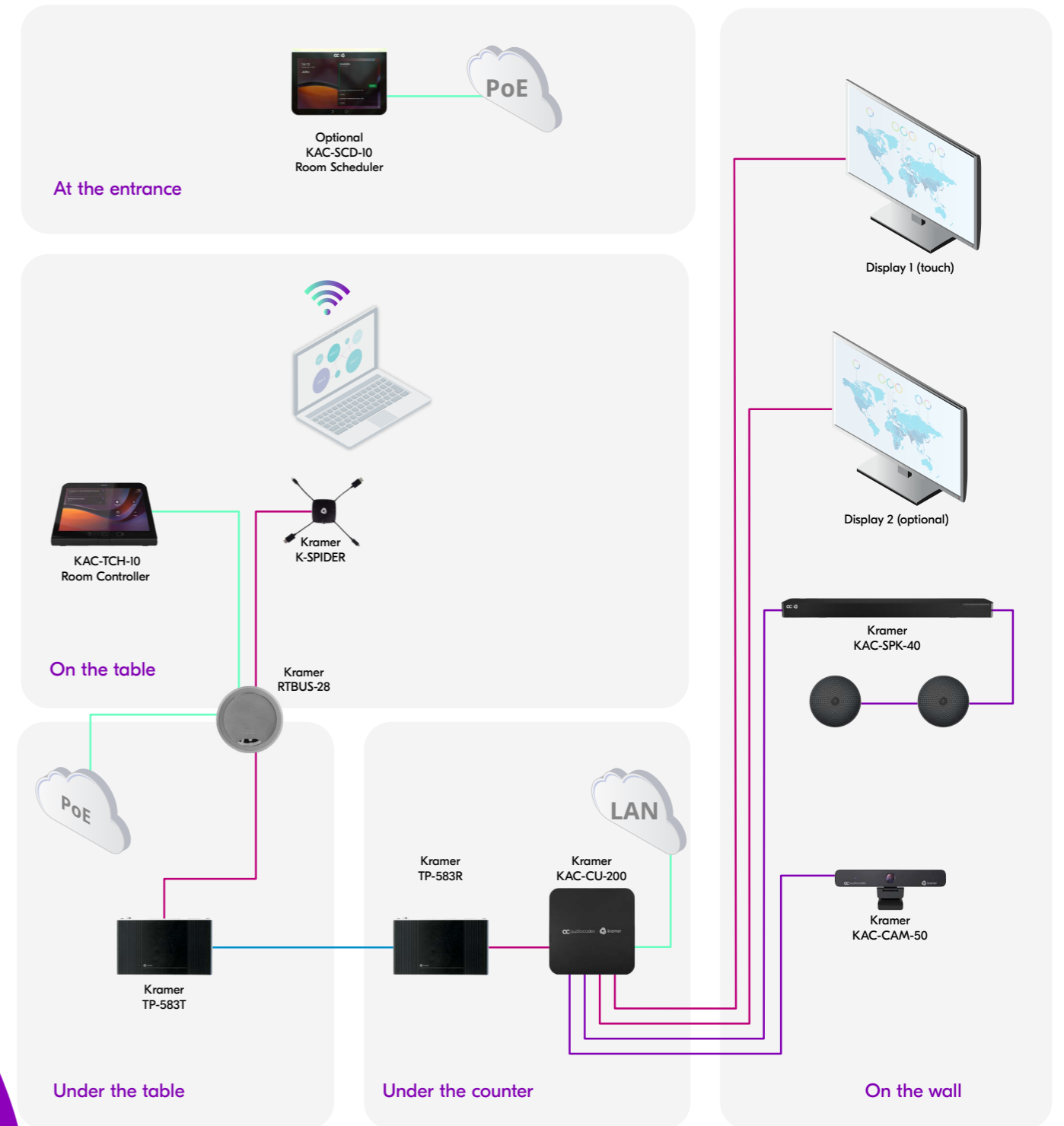




# MTR solutions for Medium Meeting Rooms

Our solution for Medium Meeting Rooms, centered around the MTR hub KAC-CU-200, is a robust, future-proof high-quality solution, optimized for medium-sized and larger meeting rooms. It offers a variety of formats for content sharing, including USB-C, DP, and HDMI, all set to automatically connect to the last connected device for effortless control.

In our medium-sized MTR room, fitted with a built-in MTR system, the focus is on functionality and ease. The room features a display and a room touch controller for meeting operations. It is equipped with KAC-CAM-50 – Microsoft Teams Rooms certified auto frame PTZ camera, controlled from the room controller, and KAC-SPK-40 MTR-certified sound bar, for high-quality audio. Presenters can share content wirelessly or wired by using USB-C or HDMI, ensuring versatility and convenience. For non-hybrid meetings, connecting to the VIA enables straightforward presentation to the display, including audio output. The room's design includes a single TBUS (table connectivity solution) for content sharing and optional charging. The Kramer-AudioCodes room booking scheduler KAC-SCD-10 can also be mounted at the entrance to the room, making it a fully equipped, user-friendly meeting space.



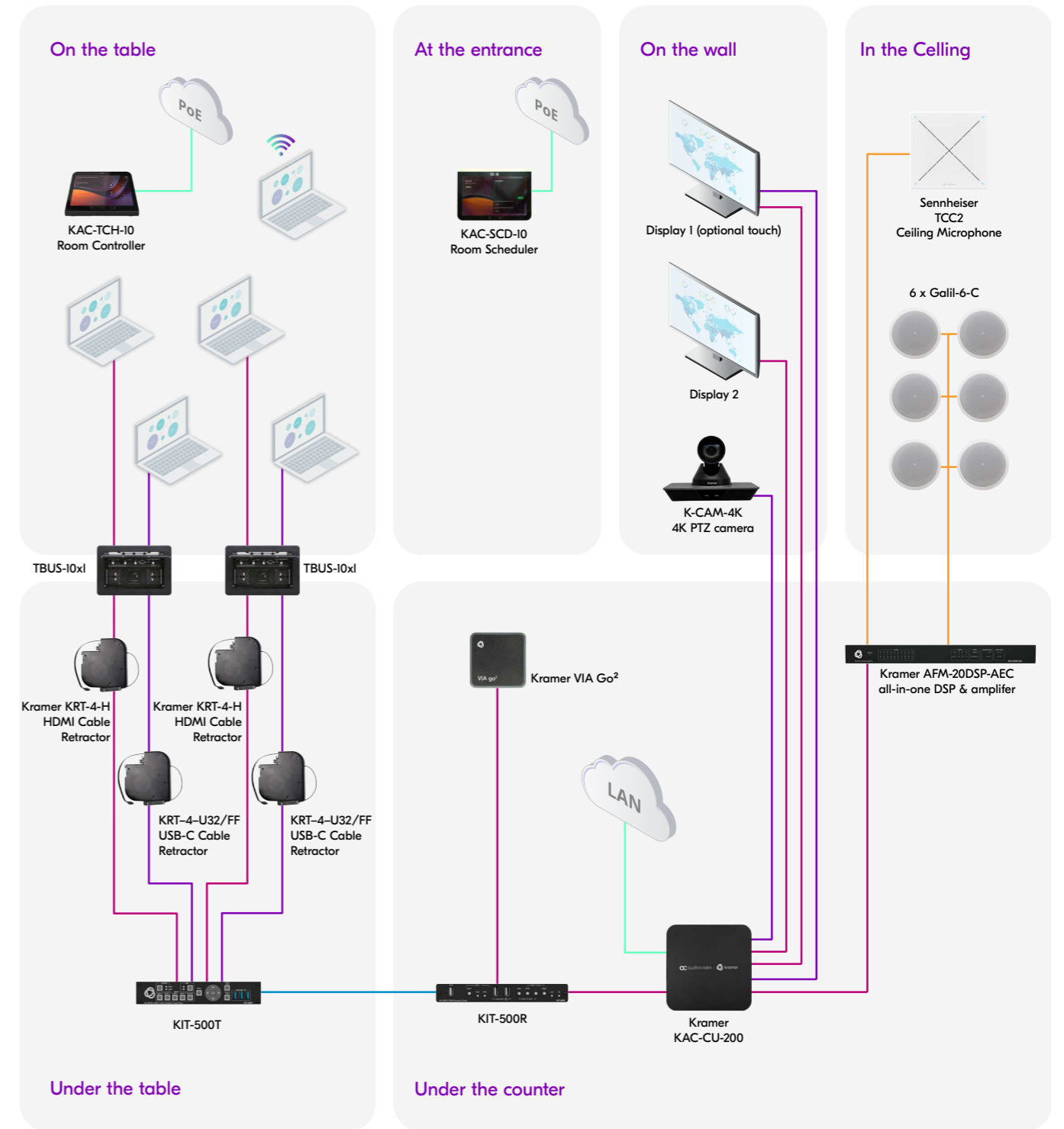


# MTR solutions for Large Meeting Rooms

Our solutions for Large Meeting Rooms, anchored by the room hub KAC-CU-200, elevate large meeting spaces with premium audio quality, enabled by Kramer's all-in-one audio DSP with a built-in amplifier that connects to a Dante ceiling microphone and ceiling speakers. This high-end solution offers diverse methods for content sharing, including wireless (VIA), USB-C with charging, and HDMI, all optimized for "last connected" convenience.

By simplifying operations and reducing the need for manual control, our system streamlines presentations and collaboration, ensuring a seamless and sophisticated meeting environment.

In our Large Meeting Rooms setting, designed with the KAC-CU-200 MTR system, we focus on functionality and quality. The room, equipped with two displays and high-quality ceiling microphones and speakers, ensures an immersive meeting experience. An optional room scheduler enhances organization, while the KAC-TCH-10 controller on the table simplifies MTR meeting management. Whether it's a hybrid or non-hybrid meeting, this setup allows for seamless presentation and collaboration, ensuring every participant, whether remote or in-room, is fully engaged and connected.



● HDMI ● USB ● LAN ● Audio ● HDBaseT

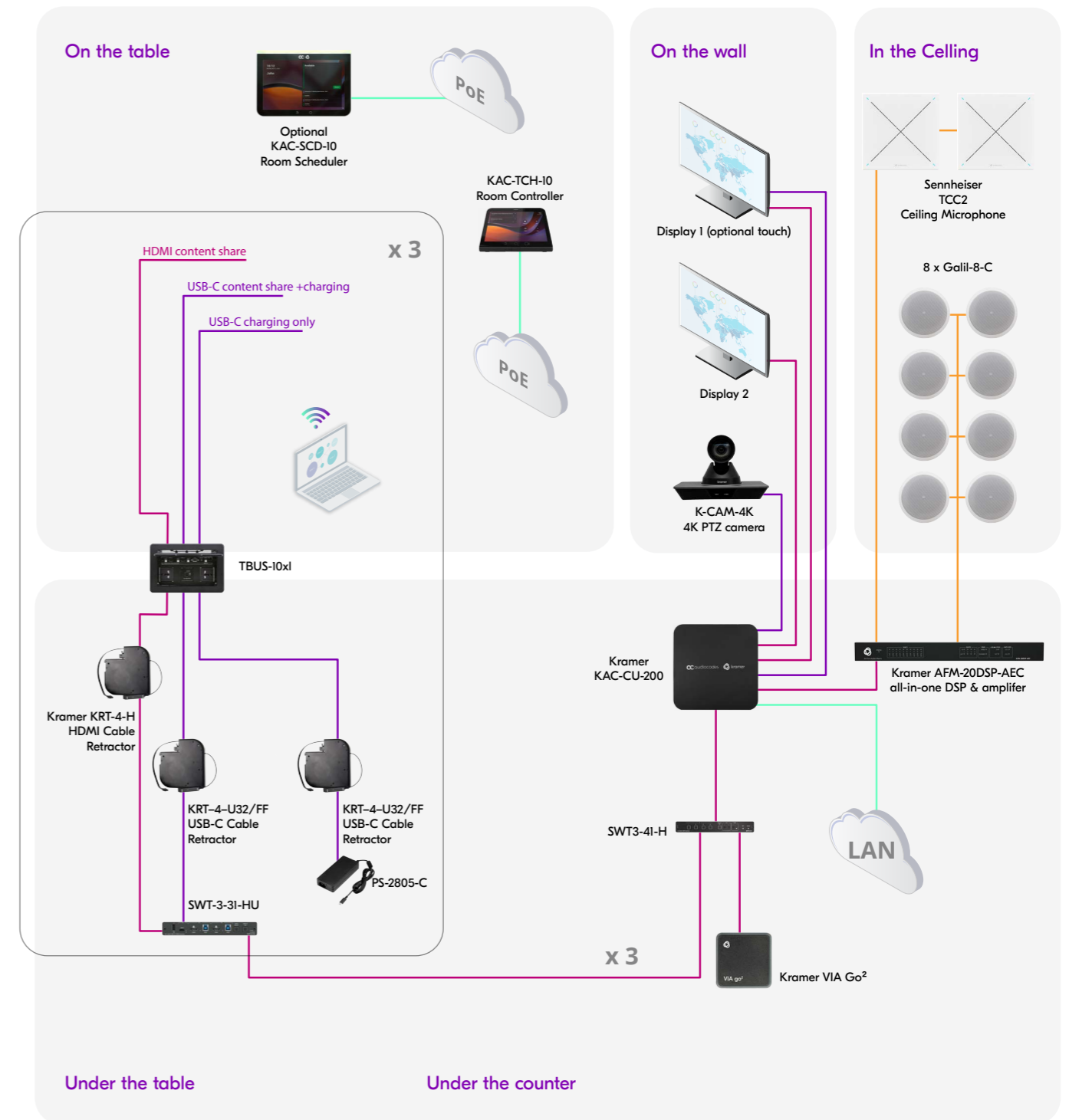


# MTR solutions for Boardrooms

Kramer's MTR Boardrooms solution, centered around the room hub KAC-CU-200, offers a state-of-the-art approach to enhancing boardroom experiences. This versatile solution enables seamless content sharing through four different methods: wirelessly, via the Teams app, and through wired connections using full-featured USB-C or HDMI. Tailored to meet the demands of boardrooms, the system incorporates high-end audio to suit the room's size.

Content sharing is made accessible from any seat, supported by multiple TBUS (table connectivity solution) locations and a variety of content sharing methods. The setup includes two or more cameras for meeting or presentation modes, further augmented by the optional addition of the KAC-CAM-CC-10 content camera. Integrated room control extends to lights, shades, cameras, and AV, while also providing charging facilities for hosts' and participants' laptops, accommodating the needs of long meetings.

This comprehensive setup promises an immersive meeting experience, ensuring that every participant, whether remote or in-room, remains fully engaged and connected.



● HDMI ● USB ● LAN ● Audio

## KAC-CU-200 Compute Unit

### Microsoft Teams Rooms on Android Bundles

Kramer-AudioCodes **KAC-CU-200** is specifically designed to adapt to any room size and layout, ensuring a clutter-free environment with fewer table-mounted accessories and devices. At the heart of the hybrid room is the **KAC-CU-200** Android compute unit, a powerhouse that effortlessly connects multiple audio and video peripherals, supports dual screens, and offers a range of AI capabilities to optimize your meetings. Complementing this is the Kramer-AudioCodes **KAC-TCH-10** Meeting Room Controller, a device that makes orchestrating productive and seamless meeting experiences a breeze.



### Microsoft Teams Rooms offerings for true hybrid productivity

Transform your meeting spaces with the versatile and efficient **KAC-CU-200** offerings from Kramer-AudioCodes, the ideal choice for modern, hybrid work environments. In a world where meetings now blend in-person and remote participants, these offerings offer a cost-effective and reliable solution for any room layout, while also making it easy to upgrade meeting room components.

The Kramer-AudioCodes **KAC-CU-200** Microsoft Teams Rooms on Android compute unit seamlessly connects a variety of audio and video peripherals, supports dual

screens, and is equipped with a broad spectrum of AI capabilities, making your meetings smarter and more efficient. Combined with the **KAC-TCH-10** Meeting Room Controller, it enables easy and seamless control for an enhanced and productive meeting experience.

The **KAC-CU-200** offers a cost-effective and forward-thinking solution that aligns perfectly with the evolving needs of today's hybrid meetings, ensuring every participant, regardless of their location, is fully engaged and connected.

### Key features:

Cable-less installation – no need for a cable connection between the **KAC-CU-200** and the **KAC-TCH-10**.

- Enjoy the flexibility to mix and match devices with Kramer-AudioCodes' versatile multiple device support
- Benefit from a dependable Android compute unit, tailored to suit any room setup

- Experience hassle-free deployment and straightforward management
- Get great value for your investment with multiple cost-effective solutions
- Low power consumption, using a super capable chipset that's designed for mobile phones. During the product lifecycle, power consumption is immense.

### Benefits of the KAC-CU-200 Microsoft Teams Rooms on Android

- Advanced security with Android OS (planned to be upgraded to Android 13)
- Experience the power of advanced AI with Kramer-AudioCodes' high-performance compute unit
- Enhance your meetings with dual screen capabilities for a comprehensive viewing experience
- Take charge of your meetings effortlessly with the **KAC-TCH-10**, an intelligent, center-of-room touch controller
- Welcome participants with the **KAC-TCH-10**'s proximity sensor that activates the system upon arrival
- Enjoy the flexibility of a modular design that supports a wide range of current and future peripherals. The **KAC-CU-200** is a powerful future-proof compute unit that is built to support future development.
- Benefit from outstanding video quality with the Kramer-AudioCodes **KAC-CAM-50M** camera, featuring HD, 4K resolution, auto framing, and EPTZ
- Ensure everyone is heard clearly with the superb audio quality of the Kramer-AudioCodes **KAC-SPK-40** sound bar or Kramer-AudioCodes **KAC-SPK-15** speakerphone
- Share content seamlessly in meetings with HDMI-In, allowing easy desktop content sharing through a simple cable connection

### Specifications

<b>Performance</b>	<ul style="list-style-type: none"> <li>• Processor: Snapdragon™ QCS8250</li> <li>• Memory: LPDDR5, 8G</li> <li>• Storage: UFS3.1, 128G</li> <li>• Graphics: Adreno™ 650</li> </ul>
<b>Device interfaces</b>	<ul style="list-style-type: none"> <li>• Ethernet: 10/100/1000 Mbps (RJ-45) network interface</li> <li>• Wi-Fi (dual band support)</li> <li>• Support 802.11 a/b/g/n/ac/ax</li> <li>• Bluetooth 5.1</li> <li>• 3 x USB interfaces – 2 USB3 Type A, 1 USB-C</li> <li>• 2 x HDMI out interfaces</li> <li>• 1 x HDMI in</li> <li>• 12V/3A DC power input</li> </ul>
<b>Network provisioning</b>	<ul style="list-style-type: none"> <li>• TCP/IP (IPv4), DHCP/ static IP; Time and date synchronization via SNTP; VLAN support; QoS support: IEEE 802.1p/Q tagging (VLAN)</li> <li>• Layer 3 TOS and DSCP RTCP support: (RFC 1889)</li> <li>• IP address configuration: TCP/IP (IPv4), DHCP/static IP Time and date synchronization: SNTP</li> <li>• QoS support: IEEE 802.1p/Q tagging (VLAN), Layer 3 TOS and DSCP RTCP support (RFC 1889)</li> </ul>
<b>OS</b>	Android 10
<b>UC platform support highlights</b>	<p>Microsoft Teams Rooms for Android application with:</p> <ul style="list-style-type: none"> <li>• Intuitive meeting experience with calendar integration and click-to-join or proximity-join experience</li> </ul>
<b>Security</b>	<ul style="list-style-type: none"> <li>• Encryption: TLS (Transport Layer Security), SRTP encryption for media, AES256 Network Access Control: IEEE 802.1x</li> <li>• Built-in certificate</li> <li>• Kensington Lock for security measures</li> </ul>
<b>Design</b>	Dimensions (W X D X H) 170 x 170 x 41.3 mm Weight 0.75 kg



# KAC-CU-200 Bundles

Elevate your meeting spaces with Kramer-AudioCodes **KAC-CU-200** Microsoft Teams Rooms Bundles, the perfect solution for today's hybrid productivity needs.

## Choose the best bundle for your needs:

### The KAC-CU-200-B05 bundle:

For users looking to keep their current AV devices, the **KAC-CU-200-B05** basic bundle offers a perfect solution. It allows for the enjoyment of a Microsoft Teams Rooms experience without the need for a complete overhaul. This bundle facilitates the seamless integration of existing conference room AV systems into Microsoft Teams environments, ensuring a smooth transition with minimal investment.

### The KAC-CU-200-B20 bundle:

The **KAC-CU-200-B20** bundle is designed to deliver an outstanding meeting experience for small to medium-sized rooms, accommodating 4-10 users. This bundle, featuring an HD wide-angle camera and a conveniently table-mounted speaker, is perfectly suited for both small and medium-sized meeting spaces.

#### Bundle components:

- Video: **KAC-CAM-50M**
- Audio: **KAC-SPK-15**
- Controller: **KAC-TCH-10**
- Compute Unit: **KAC-CU-200**

### The KAC-CU-200-B40 bundle:

The **KAC-CU-200-B40** bundle is expertly crafted for medium to large rooms, comfortably accommodating 10-16 participants. It features an HD wide-angle camera and a robust Audio Bar, equipped with two 20W+20W with 4 speaker units speakers and satellite microphones, making it the perfect choice for capturing every detail of your meetings in medium and large spaces.

#### Bundle components:

- Video: **KAC-CAM-50M**
- Audio: **KAC-SPK-40**
- Controller: **KAC-TCH-10**
- Compute Unit: **KAC-CU-200**

Bundle	Room size	Participants	Controller	Compute unit	Video	Audio	Productivity
<b>KAC-CU-200-B05*</b>	Any	Any	<b>KAC-TCH-10</b>	<b>KAC-CU-200</b>	Room's existing video solution	Room's existing audio solution	Meeting insights
<b>KAC-CU-200-B20</b>	Small/ Medium	4-10	<b>KAC-TCH-10</b>	<b>KAC-CU-200</b>	<b>KAC-CAM-50M</b>	<b>KAC-SPK-15</b> (2.5m pickup radius)	Meeting insights
<b>KAC-CU-200-B40</b>	Medium/ Large	10-16	<b>KAC-TCH-10</b>	<b>KAC-CU-200</b>	<b>KAC-CAM-50M</b>	<b>KAC-SPK-40</b> with two satellite mics covering a pickup radius of up to 8m	Meeting insights

\* **KAC-CU-200-B05** connects to existing AV conference system

Learn more:



[www1.kramerav.com/gc/product/KAC-CU-200](http://www1.kramerav.com/gc/product/KAC-CU-200)

# KAC-TCH-10 Meeting Room Controller

## Smart and streamlined meeting room control

The Kramer-AudioCodes **KAC-TCH-10** Meeting Room Controller sits at the heart of your conference space, offering effortless control over your meetings. This intelligent device simplifies collaboration with features like one-click meeting starts, easy content sharing, and camera adjustments, all without taking up much space on your table.

With its Plug & Play design, the **KAC-TCH-10** ensures a smooth and efficient Microsoft Teams meeting experience. It's quick to set up, needing just a PoE cable that neatly tucks away to avoid accidental disconnections. Make every meeting more productive and straightforward with the **KAC-TCH-10** at your command



## Enhance meeting room efficiency with an intuitive, one-touch solution

Embrace the modern elegance of the **KAC-TCH-10**, an ergonomically designed meeting room controller filled with cutting-edge features. Initiate collaboration effortlessly with its one-click calendar integration, share content seamlessly, and adjust your camera settings easily – all part of its rich functionality.

The **KAC-TCH-10**, positioned as a central, intuitive touch controller, offers a streamlined gateway to Kramer-AudioCodes' meeting room solutions. It's

equipped with a human (proximity) sensor, an ergonomic build, and an 8" high-resolution display, ensuring a high-quality, user-friendly experience. This controller not only simplifies your meetings with features like one-click joining and integrated calendar for easy collaboration but also allows for effortless content sharing and camera adjustments. The **KAC-TCH-10** redefines meeting room interaction with its blend of simplicity and advanced features.

Learn more:



[www.kramerav.com/gc/product/KAC-TCH-10](http://www.kramerav.com/gc/product/KAC-TCH-10)

## Features:

Cable-less installation – no need for a cable connection between the **KAC-TCH-10** and the **KAC-CU-200**

- Streamlined and comfortable design for effortless use
- Simple one-click joining for hassle-free collaboration
- Convenient on-screen access to camera controls
- Meeting status indicator
- Simple meeting control with dedicated touch buttons you can only find in this product – Home, Back and Camera control
- Enhanced security and performance with the latest Android 12

## Key benefits:

- Built-in Home button
- Quick Start collaboration: Effortless one-click joining for streamlined collaboration
- Tidy desk solution: A neat, single cable connection for a clutter-free workspace
- Integrated calendar: Easily schedule or join meetings with the built-in calendar
- Modern and user-friendly: A sleek, ergonomic design ensuring smooth operation
- Enhance your meeting's productivity with a tailored and easy-to-use interface

## Specifications

Display	Landscape Touch 8" LCD (1280 x 800 resolution)
Device interfaces	Ethernet: 10/100/1000 Mbps (RJ-45) network interface (PoE) Wi-Fi (dual band support) Bluetooth 5.0 12V/3A DC power input Proximity Sensor
OS	Android 12
Dimensions, including Stand (W×D×H mm)	212x128.4x152.8
Unit weight (kg)	0.908

# KAC-SCD-10 Meeting Room Scheduler

## A Microsoft-certified meeting room scheduler touch panel

Discover the ease of meeting room management with the Kramer-AudioCodes **KAC-SCD-10** Meeting Room Scheduler. This sleek, Microsoft Teams Rooms-integrated panel features a user-friendly touchscreen display, making room scheduling a breeze. Positioned conveniently at the meeting room entrance, its brightly colored status LED allows anyone to glance and instantly know if the room is available. The clear, stylish LCD screen not only shows meeting details at a glance but also lets you book the room right there and then. Streamline your meeting planning with the **KAC-SCD-10**'s intelligent and user-friendly design.



## Elegant meeting room scheduling solution

Position the **KAC-SCD-10** Meeting Room Scheduler at the entrance of any meeting space, from grand conference rooms to cozy huddle areas, and empower your team to swiftly and effortlessly locate their next meeting spot. Its versatile mounting options, suitable for walls and glass, ensure it blends seamlessly with any office aesthetic.

## Features:

- Sharp 8-inch high-resolution touchscreen for easy interaction
- Distinct status LED for quick visibility of room availability
- Simple on-the-spot room booking for spontaneous meetings
- Powered by Android 12, ensuring enhanced security

## Learn more:



[www.kramerav.com/gc/product/KAC-SCD-10](http://www.kramerav.com/gc/product/KAC-SCD-10)

## Key benefits:

- Saves time in finding an available meeting space
- Quickly spot your booked meeting room
- Guides you to the nearest open meeting room
- Compatible with both Android and Windows-based meeting room devices
- Compatible with every Microsoft Teams Rooms equipment, not only our Kramer-AudioCodes devices
- Offers a hassle-free, Plug & Play setup that enhances meeting rooms with a dedicated display for meeting details and availability
- Designed for a sleek and polished look, suitable for mounting on both glass and walls
- Includes convenient special touch buttons for ease of navigation

## Specifications

LCD	High-resolution touch LCD, anti-fingerprints 1200x800
Built-in keys	Dedicated touch-keys – Home and Back
Power	PoE Class 3 or external power supply
Connectivity	<ul style="list-style-type: none"> <li>• Dual Band Wi-Fi</li> <li>• Bluetooth 5.0</li> <li>• PoE Class 3</li> <li>• Ethernet</li> </ul>
LED	RGB Status LED
Dimensions (WxHxD mm)	223.4x155.9x24.4
Weight (Kg)	0.8
Mounting	Wall and glass mount (the glass option should be ordered separately)
Certifications	Microsoft Teams Rooms
Compatibility	Works with Android and Windows-based meeting room devices

# KAC-BAR-81 Collaboration Bar

## Officially certified for Microsoft Teams Rooms on Android

Experience seamless meetings with the sleek and easy-to-use Kramer-AudioCodes **KAC-BAR-81** Collaboration Bar. Designed for the modern hybrid workplace, it's perfect for small meeting spaces, personal executive offices, and any MTR environment.



## Microsoft Teams Rooms on Android™ (MTR) video bar

The Kramer-AudioCodes **KAC-BAR-81** Collaboration Bar transforms the way you meet, with its Plug & Play, user-friendly design. As a top-tier Microsoft Teams Rooms on Android video bar, it guarantees a seamless and highly productive Teams meeting experience.

With its built-in speakers and six microphones, along with Full HD video and an electronic pan, tilt, and zoom camera featuring 5x zoom, the **KAC-BAR-81** delivers crystal-clear images and superior voice quality. Every meeting becomes more interactive and engaging,

### Features:

- Fast and simple deployment
- Exceptional video and audio quality
- Officially certified for Microsoft Teams Rooms on Android

ensuring remote participants are fully involved, seeing and hearing everything as if they were right there in the room, and fully participating in Teams video and content sharing.

Pair it with the Kramer-AudioCodes **KAC-TCH-10**, a sleek and exceptionally intuitive touch controller due to its unique design, to effortlessly manage meetings in any room setup. This combination ensures optimal control and a streamlined meeting experience.

### Learn more:



[www.kramerav.com/gc/product/KAC-BAR-81](http://www.kramerav.com/gc/product/KAC-BAR-81)

Currently, the **KAC-BAR-81** is available exclusively as part of the **KAC-BAR-81-B10** bundle. Future offerings may include it as a standalone product, complete with a remote control.

### Benefits:

- Seamlessly transition into meetings with the intuitive Microsoft Teams Rooms on Android application, ensuring a smooth and straightforward start with just one click.
- Elevate your meeting space with the stylish and sophisticated design of the **KAC-BAR-81**, blending elegance and functionality.
- Leverage Android openness, agility & cost effectiveness, combined with exceptional security achieved through in-house security hardening of the latest Android 12.
- Set up with ease every time, thanks to the **KAC-BAR-81**'s simple-to-use mounting and minimal cable connections, streamlining your deployment.
- Experience superior audio that covers the entire room, making additional external USB microphones or speakers unnecessary for clear communication.
- Manage your meetings with ease using the dedicated Bluetooth remote control, designed for intuitive operation and streamlined meeting control.
- Utilize the **KAC-BAR-81** in Peripheral Mode as a versatile USB AV peripheral, adaptable for use with any UC client for spontaneous meeting needs.

### Specifications

<b>Video and camera capabilities</b>	<ul style="list-style-type: none"> <li>• Ultra HD 4k image sensor</li> <li>• Super-wide angle horizontal field of view: 110°</li> <li>• Lens: Fixed focus</li> <li>• EPTZ capable, 5x zoom</li> <li>• Output resolution: 1080p Frame rate: 30 fps</li> <li>• Adjustable camera position (+/-15° manual vertical adjustment)</li> </ul>
<b>Audio</b>	<ul style="list-style-type: none"> <li>• Full duplex, noise suppression, acoustic echo cancellation, voice separation</li> <li>• 6x beamforming microphone array</li> <li>• Voice pickup range: 4.5m (15ft)</li> <li>• 10W speaker</li> </ul>
<b>Device interfaces</b>	<ul style="list-style-type: none"> <li>• HDMI output to TV</li> <li>• Power/reset button</li> <li>• USB 3.0 Type A (host) marked 1 to allow touch LCD or connectivity to wireless KB via BT USB dongle</li> <li>• Ethernet: 10/100/1000 Mbps (RJ-45) network interface</li> <li>• USB2.0 Type-C (device) marked 2 to connect to PC/MAC BYOD device (peripheral mode)</li> <li>• 3 status LEDs indicating camera on/off, mute on, call state, device health</li> <li>• Wi-Fi (dual band support)</li> <li>• Bluetooth 5.0</li> <li>• 12V/3A DC power input</li> <li>• Bluetooth managed remote controller</li> </ul>
<b>Network provisioning</b>	<ul style="list-style-type: none"> <li>• TCP/IP (IPv4), DHCP/ static IP; Time and date synchronization via SNTP; VLAN support; QoS support: IEEE 802.1p/Q tagging (VLAN)</li> <li>• Layer 3 TOS and DSCP RTCP support: (RFC 1889)</li> <li>• IP address configuration: TCP/IP (IPv4), DHCP/static IP Time and date synchronization: SNTP</li> <li>• QoS support: IEEE 802.1p/Q tagging (VLAN), Layer 3 TOS and DSCP RTCP support: (RFC 1889)</li> </ul>
<b>OS</b>	<ul style="list-style-type: none"> <li>• Android 12</li> </ul>
<b>UC platform support</b>	<ul style="list-style-type: none"> <li>• Microsoft Teams Rooms for Android application with: <ul style="list-style-type: none"> <li>• Intuitive meeting experience with calendar integration and click-to-join or proximity-join experience</li> <li>• MTR casting from Microsoft Teams desktop client</li> <li>• Ad hoc USB AV peripheral for any UC client</li> </ul> </li> </ul>
<b>Security</b>	<ul style="list-style-type: none"> <li>• Encryption: TLS (Transport Layer Security), SRTP encryption for media, AES256 Network Access Control: IEEE 802.1x</li> <li>• Built-in certificate</li> </ul>

# KAC-CAM-50L / KAC-CAM-50M Video Camera

## Superior video cameras for clear imaging in all sizes of meeting and conference rooms

Discover the ultimate video conferencing experience with Kramer-AudioCodes **KAC-CAM-50L** and **KAC-CAM-50M** video cameras, tailor-made for any meeting or conference room. These cameras bring your meetings to life with stunningly vivid image quality, featuring HD 4K resolution for a truly exceptional video experience. Imagine a camera that intelligently zooms and detects faces, equipped with an auto-framing feature that automatically adjusts its electronic pan, tilt, and zoom. This ensures that every participant is clearly visible, all without any need for manual adjustments.



## Enhancing your meeting Experience with KAC-CAM-50L and KAC-CAM-50M

Choose the **KAC-CAM-50L** for large meeting rooms where a narrow field of view is essential, or opt for the **KAC-CAM-50M** for smaller to medium rooms requiring a wider view. Both cameras are key components of the Kramer-AudioCodes **meeting rooms solutions**, a bespoke collection of audio and video devices designed to create a fully integrated meeting room solution.

Compatibility is key, and these models excel with leading unified communications platforms such as Microsoft Teams and Zoom Rooms. Their ease of installation, thanks to a simple USB connection, and user-friendly operation, make them a top choice for enhancing your virtual meeting experience. Elevate your meetings with these state-of-the-art cameras, designed for simplicity, efficiency, and superior quality.

### Features:

- Crystal-clear image resolution at 4K/30fps resolution
- Intelligent zoom and facial recognition
- Seamless integration with Microsoft Teams, Zoom, and various UC platforms
- User-friendly setup and usage
- Powerful 10x digital zoom to easily focus on distant participants and objects
- Sleek, lightweight design with convenient mounting options for quick and effortless setup
- Compatible with Microsoft Teams, Zoom, and other UC platforms

- Controlled from the **KAC-TCH-10** table touch screen room controller

### Learn more:



[www.kramerav.com/gc/product/KAC-CAM-50L%20/%20KAC-CAM-50M](http://www.kramerav.com/gc/product/KAC-CAM-50L%20/%20KAC-CAM-50M)

### Key benefits:

- Superior image quality to enhance collaborative efforts in the workplace
- Perform well under various lighting conditions
- Seamlessly work with Microsoft Teams, Zoom, and other UC platforms
- Simple installation and operation, suitable for meeting rooms of any size
- Versatile mounting options on TVs or walls to ensure comprehensive meeting coverage

### Specifications

#### Camera:

Image sensor	1/2.5 inch high-quality 4K CMOS sensor
Effective pixels	8.28MP, 16:9
Video output	USB3.0, Type B. Support for audio signal output.
Video resolution	Main stream: 3840×2160 @30fps, 1920×1080P @30fps/25fps, 1280×720P@ 30fps/25fps Sub stream: 1280×720P @30fps/25fps, 640×480P @30fps/25fps, 320×172P @30fps/25fps
Angle of view	KAC-CAM-50L 91° (D) / 81°(H) / 54°(V), KAC-CAM-50M 102°(D) / 100°(H) / 64°(V)
Focal length	KAC-CAM-50L f=3.24mm, KAC-CAM-50M f=2.26mm
Aperture	KAC-CAM-50L F2.1, KAC-CAM-50M F1.8
Minimum illumination	0.1Lux (F1.8, AGC ON)
Digital Zoom	10x
DNR	2D & 3D DNR

#### USB

Operating system	Windows 7 (1080P/720P), Windows 8.1, Windows 10, macOS™ 10.10 and above, Linux (UVC)
Video compression	YUY2, MJPG, H.264, H.265
USB protocol	UVC, UAC
PTZ control	Supports ePTZ
Hardware request	2.4 GHz Intel Core 2 Duo processor or better, 2GB capacity or more, USB 2.0, input (USB3.0 for 4K)

#### Other parameters

Input voltage	DC 5V
Input current	1A (Max)
Power consumption	5W (Max)
Store temperature	-10°C~+60°C
Store humidity	20%~90%
Working temperature	-10°C~+50°C
Working humidity	20%~80%
Dimensions	220mm x 93.75mm x 56.5mm
Application	Indoor
Accessories	User manual, USB3.0 cable, remote controller

# KAC-CAM-CC-10 Content Camera

## Revolutionizing whiteboard collaboration in Microsoft Teams Meetings

Seamless Whiteboard Sharing in Microsoft Teams Meetings. Enhance your Microsoft Teams meetings with the **KAC-CAM-CC-10** Microsoft Teams certified content camera, based on the **KAC-CAM-CC-10** personal webcam. This camera makes sharing whiteboard content a breeze for all attendees, whether they're in the room or joining remotely. Offering 1080p full HD video quality with a 3x digital zoom and a privacy shutter, it's designed for both clarity and security.



## Enhancing whiteboard clarity with smart technology

Integrated with Microsoft Teams AI, this camera smartly detects whiteboards and auto-adjusts to capture the full view. It enhances your content with features like image sharpening, contrast adjustments, and a transparent overlay of the presenter for a clearer, more engaging presentation.

Built to last and incredibly easy to set up in any meeting space, the **KAC-CAM-CC-10** comes with an adjustable whiteboard mount for perfect positioning. It's an ideal tool for enhancing team collaboration and brainstorming in hybrid meetings, thanks to its integration with Microsoft Teams' AI content enhancement features. Share, collaborate, and innovate effortlessly with the **KAC-CAM-CC-10** content camera.

Learn more:



[www.kramerav.com/gc/product/KAC-CAM-CC-10](http://www.kramerav.com/gc/product/KAC-CAM-CC-10)

## Features:

- Affordable and efficient
- High-Resolution ePTZ camera
- Mountable on wall/ceiling with adjustable 70-120cm Rod
- Seamlessly integrates physical whiteboards into Teams Meetings
- Transparent overlay of the presenter
- Auto-adjusts to capture the full view
- Image sharpening and contrast adjustments

## Key benefits:

- Effortless whiteboard sharing: Simplifies sharing content for both in-room and remote Microsoft Teams meeting participants.
- High-quality visuals: Provides 1080p full HD video and 3x digital zoom, ensuring clear and detailed images.
- Secure and reliable: Comes with a privacy shutter, offering security and clarity.
- Easy setup and durable design: Quick to install with an adjustable mount, perfect for any meeting space and built to last.

## Specifications

### Camera

Image sensor	High-quality CMOS sensor
Effective pixels	2MP, 16:9
USB	USB 2.0
Angle of view	92°(D) / 85°(H) / 52°(V)
Maximum resolution	1920 x 1080
Maximum FPS	30 fps
Dimensions	102 x 46 x 30 mm
Weight	0.15 kg

### Mount unit

Length	700-1200 mm
Color	Matte black
Loading weight	5 Kg
Part weight	0.57 Kg

### USB connection box

Size	105 x 50 x 20 mm (L x W x H)
------	------------------------------

### USB extension cable

Type	USB 2.0
Length	10 m

# KAC-SPK-15 Speakerphone

## A premium speakerphone designed for Huddle spaces and Small Rooms

Enhance your meeting experience with the Kramer-AudioCodes **KAC-SPK-15** Microsoft Teams certified Speakerphone, a compact yet powerful device perfect for small meeting areas like huddle rooms. Designed for today's hybrid work environment, it effortlessly connects to laptops, PCs, or mobile devices, ensuring crystal-clear online meetings whether you're at home, in a personal office, or on the go.



## Elevating meetings with superior sound and seamless integration

Offering unparalleled sound quality, the Kramer-AudioCodes **KAC-SPK-15** is fully compatible with leading UC platforms such as Microsoft Teams and Zoom Phone, making it a versatile choice for any setting.

The **KAC-SPK-15** Speakerphone is your solution for enhanced clarity and simplicity in every meeting. Specially designed for small spaces like huddle rooms, it can comfortably serve up to eight people. The

device boasts a sophisticated 6-element microphone array and an intuitive design, perfectly aligning with the demands of hybrid work environments. Whether you're joining a meeting from a laptop, PC, or mobile device, the **KAC-SPK-15** guarantees crystal-clear audio for participants who are working from home or the office. Choose the **KAC-SPK-15** Speakerphone for a seamless, high-quality audio experience in all your small meeting spaces.

Learn more:



<https://www1.kramerav.com/gc/product/KAC-SPK-15>

## Features:

- Superior sound performance
- Advanced 6-element microphone array, covering up to 2.5 meters/8 feet
- Effortless integration with UC systems
- Enhanced double-talk feature to capture every detail of the conversation
- Sleek, space-saving design perfect for small and huddle rooms

## Key benefits:

- Ideal for compact spaces like huddle spaces and small meeting rooms
- User-friendly and sleek design
- Smooth compatibility with top UC platforms
- Easily connects to laptops, PCs, and mobile devices for enhanced productivity in hybrid work environments

## Specifications

### Connectivity

USB cable	Plug & Play connectivity to PC Softphone/UC systems
Bluetooth	Bluetooth® 4.2 – + EDR

### Microphone

Pickup distance	2.5 meters radius
Microphone	6-element microphone array
Frequency	150Hz~8kHz
Sensitivity	38dBV
Signal-to-noise ratio	65dB

### Speaker

Maximum sound pressure level	80dB SPL at 1m
Distortion	≤4% @150Hz~16kHz
Signal-to-noise ratio	≥75dB at 1m
Frequency response	150Hz~16kHz

### Interface

Port	USB 2.0 Type-C to Type A (audio in/out + charge 5V/2A), AUX 3.5mm (audio in/out)
Buttons	6 (Power, Answer/Hang Up, Mute, Bluetooth, Volume +, Volume -)
Indicator light	Power, Volume, Bluetooth, Mute, Answer/Hang Up

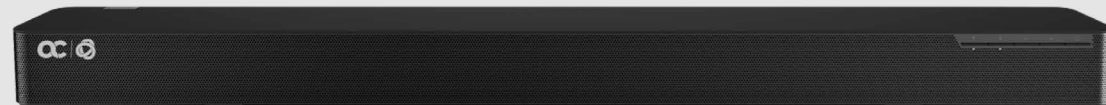
### Battery

Battery type	Li-ion
Battery capacity	7.4V/2200mAh
Charging requirement	Wired 5V/2A, Wireless 5W
Battery life on a single charge	Up to 8 hours
Box Content	KAC-SPK-15, Bluetooth USB Dongle
Device weight	395gr
Dimensions	120mm x 35.2mm
Storage temperature	-20°C to 65°C

# KAC-SPK-40 Audio Bar

## A smart, USB-powered speaker system

Tailored for medium to large rooms, the Kramer-AudioCodes **KAC-SPK-40** Microsoft Teams certified Audio Bar features two satellite microphones and delivers exceptional audio performance, ensuring every detail of your meeting is captured. Its outstanding sound quality, easy scalability, and simple plug-and-play setup make the **KAC-SPK-40** Audio Bar an ideal link between office-based and remote teams, enhancing communication effortlessly.



## Specifications

<b>Speakers</b>	<ul style="list-style-type: none"> <li>Loudness up to 100dB</li> <li>Power output 20+20W with 4 speaker units</li> <li>Built-in DSP for echo and noise cancellation Speaker frequency range 250Hz to 20KHz</li> </ul>
<b>Built-in buttons</b>	Power, Mute, Bluetooth, Volume up/down
<b>Microphones</b>	<ul style="list-style-type: none"> <li>2x Satellite mic with 6m cable, range up to 10m+1</li> <li>Microphone frequency ranges 300Hz to 8KHz</li> </ul>
<b>Connectivity</b>	<ul style="list-style-type: none"> <li>USB 2.0, USB-C connector</li> <li>Bluetooth 5.0 (A2DP, SBC, MPEG-4, AAC)</li> <li>Analog output jacks (support daisy chain)</li> </ul>
<b>Dimensions (W x H x D)</b>	800 x 56 x 90 mm
<b>Weight</b>	< 3.6kg
<b>Mounting</b>	Standalone (tabletop), wall, and TV mounting options
<b>Certifications</b>	Microsoft Teams Rooms, Zoom Rooms

### Features:

- Plug & Play functionality for an immersive and productive conference experience
- Designed as a powerful audio solution for medium to large conference spaces
- Equipped with two satellite microphones featuring 6m cables, covering up to 10m for comprehensive audio coverage
- Includes stereo speakers and a subwoofer for enhanced clarity in calls and video conferences

### Key benefits:

- Transforms conferences into immersive events, making participants feel like they're in the same room
- Ideal for achieving high-quality audio in larger conference areas
- DSP noise reduction technology minimizes echoes and background noise, ensuring clear audio
- Part of the **KAC-CU-200-B40** bundles, offering a complete meeting room audio solution

### Learn more:



[www.kramerav.com/gc/product/KAC-SPK-40](http://www.kramerav.com/gc/product/KAC-SPK-40)



## About Kramer

Kramer audio-visual experiences power creativity, collaboration, and engagement. From AVSM to advanced cloud-based communication, collaboration and control solutions, Kramer creates audio-visual experiences that are more engaging, more inclusive and more connected than ever before. Headquartered in the heart of Startup Nation - Tel Aviv, Israel, with locations around the world, Kramer's audio-visual experts are designing the future of engagement technology. Physical and digital boundaries have blurred. But no matter how hybrid our world becomes, our desire for real, human connection will never cease. Kramer's intuitive, seamless technology breaks down walls, bridges gaps, and makes people feel closer together even when they're far apart.



[www.kramerav.com](http://www.kramerav.com)