

UNCLASSIFIED

SoundSentry™ SECURE MEETING ROOM

A comprehensive solution for effectively conducting sensitive meetings without the risks of eavesdropping and data breaches

HLT35072 Rev 1.0



MEETING ROOMS

- **Meeting rooms bring together**

- Multiple computer sources and networks
- Presenters & computers from outside the organization
- Sophisticated AV equipment with internal clients & open interfaces
 - ▶ Display screens
 - ▶ Videobars
 - ▶ KVM switches
 - ▶ Remote controls
- Multiple attendees with personal devices



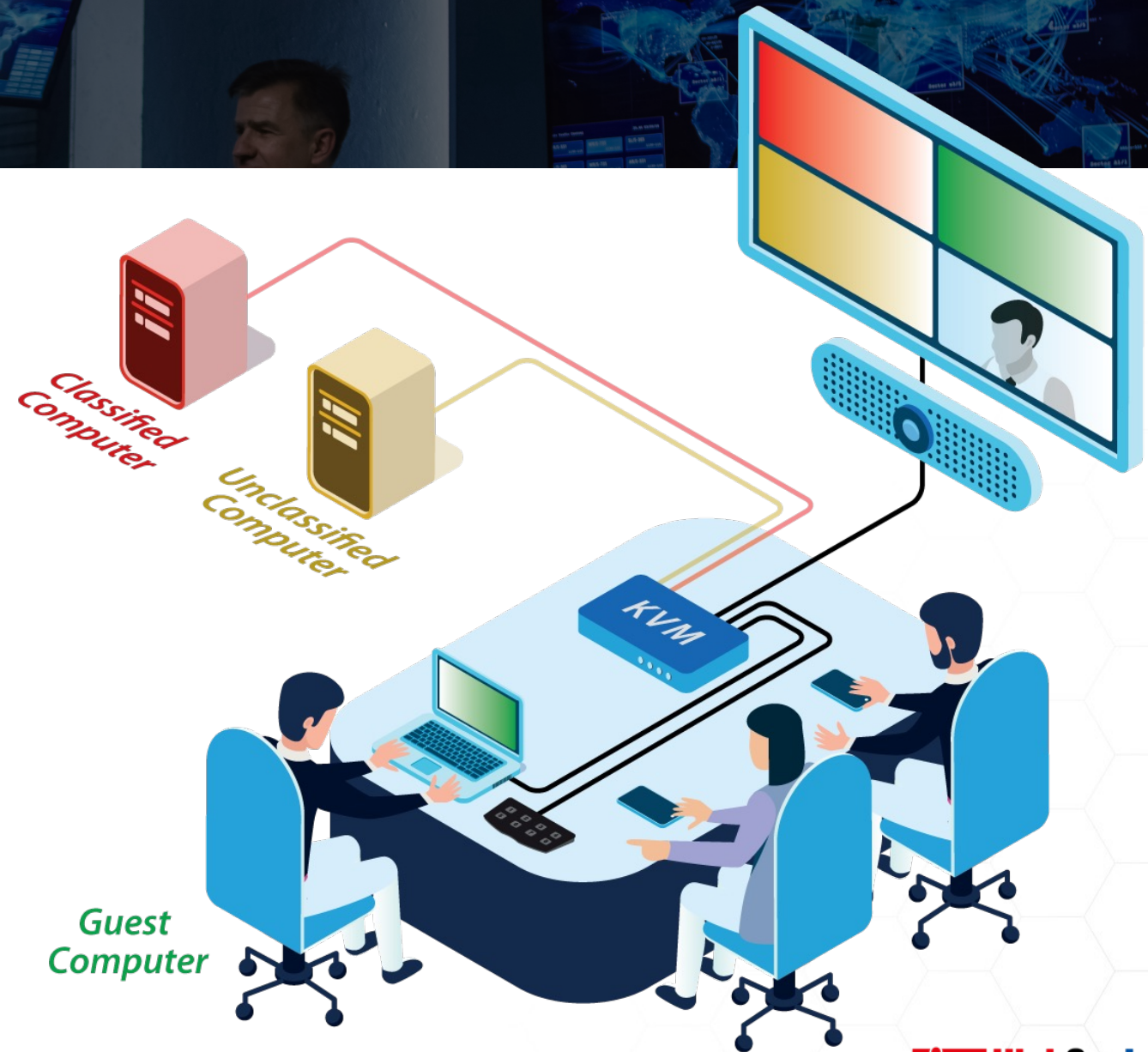
MEETING ROOM CHARACTERISTICS

- **Intersection of classified and unclassified information:**

- Conversations
- Videocalls / phone calls
- Network sources
- Guest computers

- **Applies to:**

- Meeting rooms
- Board rooms
- Executive offices
- Briefing rooms



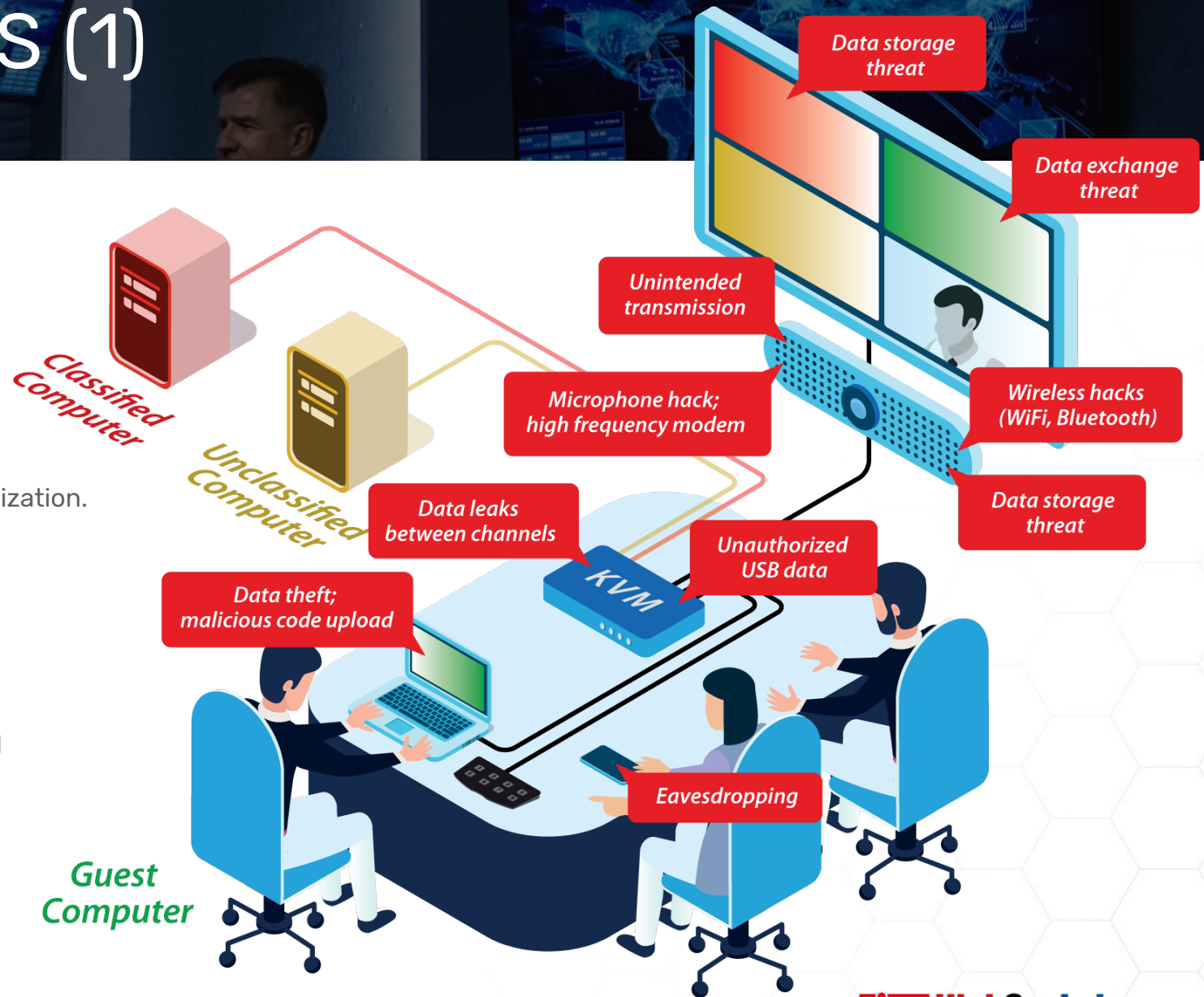
SECURITY THREATS (1)

- **The nexus of networks, computers, devices and people creates vulnerabilities in meeting rooms:**

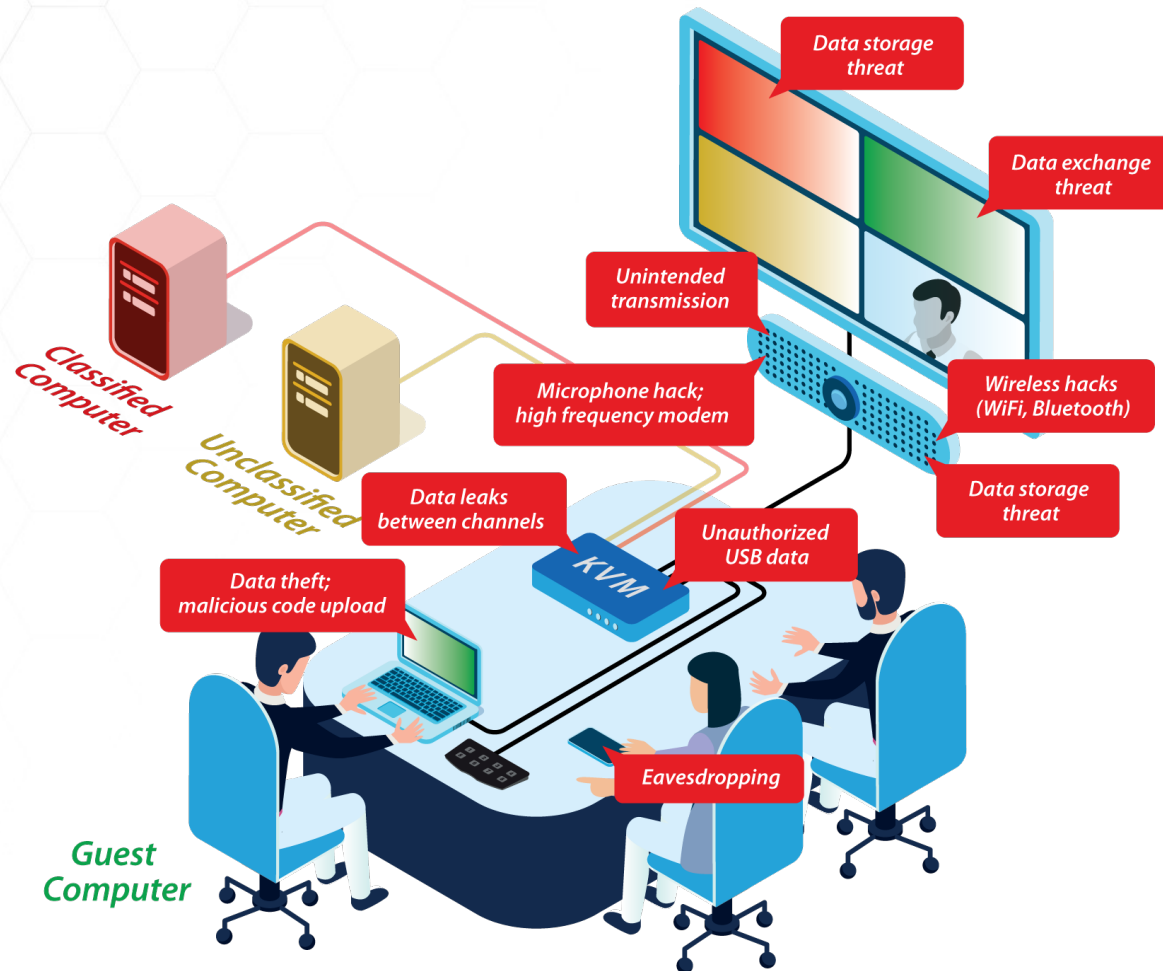
- **Data Leaks and Breaches** - Information from classified network can leak to guest equipment or unclassified networks.
- **Eavesdropping** - Classified conversations can be recorded and transmitted outside of the organization.

- **Threats:**

- Unintended transmissions of audio/video when videobars are not completely shut off.
- Hacked smartphones record conversations, even when turned off.
- Malicious code from guest computers is uploaded to display and videobar memories.
- Unsecure KVM switches leak data between channels.
- Wireless connections (WiFi, Bluetooth) are conduits for hacking peripherals.



SECURITY THREATS (2)



Threats:

- Infecting networks with viruses that extract information from the networks and hack peripheral devices.
- Exfiltrating information through “Black” networks or by using display / videobar memory that is accessed later by another guest computer.
- Hacking loudspeakers & transmitting data using high-frequency modem technology
- Hacking loudspeakers & retasking speakers as microphones that record conversations
- Exploiting display control channels (EDID, MCCS) to transfer data

THE SOUNDSENTRY™ SOLUTION

The **SoundSentry** family is a comprehensive solution for conducting classified and unclassified meetings using the same room with no risk of data leakage.

It is the world's only solution **specifically designed** to protect classified & sensitive information.

The SoundSentry solution is **TAA** and **BAA** compliant and uses previously certified components and technologies.

SOUNDSENTRY SOLUTION FAMILY OF SECURE DEVICES



VIDEOBAR



REMOTE CONTROL



AQB



USB-C Extended Docking



MINI-MATRIX / COMBINER



SMARTSWITCH POWER STRIP



VIDEOBAR DIODE



USB-C Docking Station



SOUNDSENTRY VIDEOBAR



Videobars and soundbars create substantial security risks:

- Recording meetings
 - Data storage to internal memory
 - Data leaks and introduction of malicious code through wireless interfaces like Bluetooth & WiFi
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- **SoundSentry Videobar**
 - Wired-only connectivity – no wireless access
 - No battery back-up. Power cycling, including when KVM switches channels, deletes all volatile internal data
 - Secure Boot with locked (OTP) firmware image prevents modifying the Videobar's behavior
 - TAA/BAA compliant & manufactured in a secure production facility

Videobar

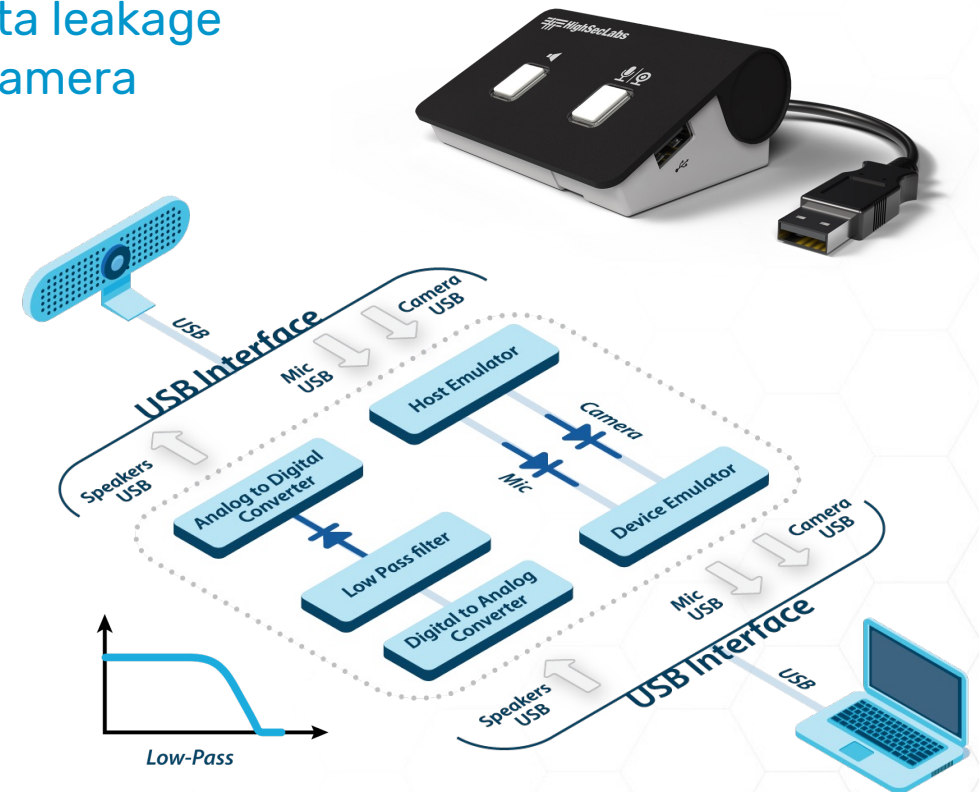


SOUNDSENTRY VIDEOBAR DIODE



Share the Videobar between multiple networks without data leakage risks by using the **Videobar Diode**. The mic, speaker and camera channels are isolated, protected and filtered separately.

- **Videobar Diode – NIAP PP4.0 compliant**
 - Unidirectional data flows
 - ▶ Digital audio is converted to analog and then back to digital preventing non-audio data exchange with hosts
 - ▶ Video is sent over a unidirectional parallel bus, preventing crosstalk.
 - ▶ No data transfer possible using the videobar as an intermediary
 - ▶ No retasking of the videobar speakers as microphones
 - Low pass filter – prevents high frequency data modem transmission exfiltration
 - Timer Controlled, Normally Closed Operation
 - ▶ Prevents inadvertent audio/video transmissions



SOUNDSENTRY SMARTSWITCH POWER STRIP



- **SmartSwitch Power Strip**
Managed power strip that powers devices on or off depending on the sensitivity of the meeting:
 - Video conferencing
 - Display ON, Videobar ON
 - Local presentation
 - Display ON, Videobar OFF
 - Classified Meeting
 - Display OFF, Videobar OFF
- Easy, remote-controlled operation at the push of a single button
- TAA/BAA compliant

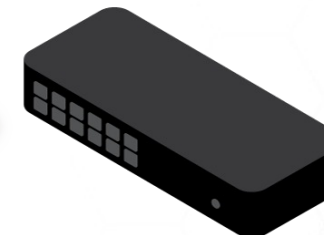


SmartSwitch Power Strip

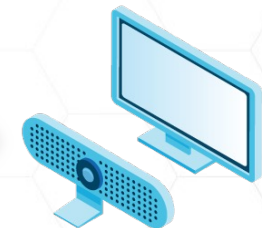
Meeting Classification Command



SmartSwitch Power Strip



Power On/Off



SOUNDSENTRY

AQB (Active Quiet Box)



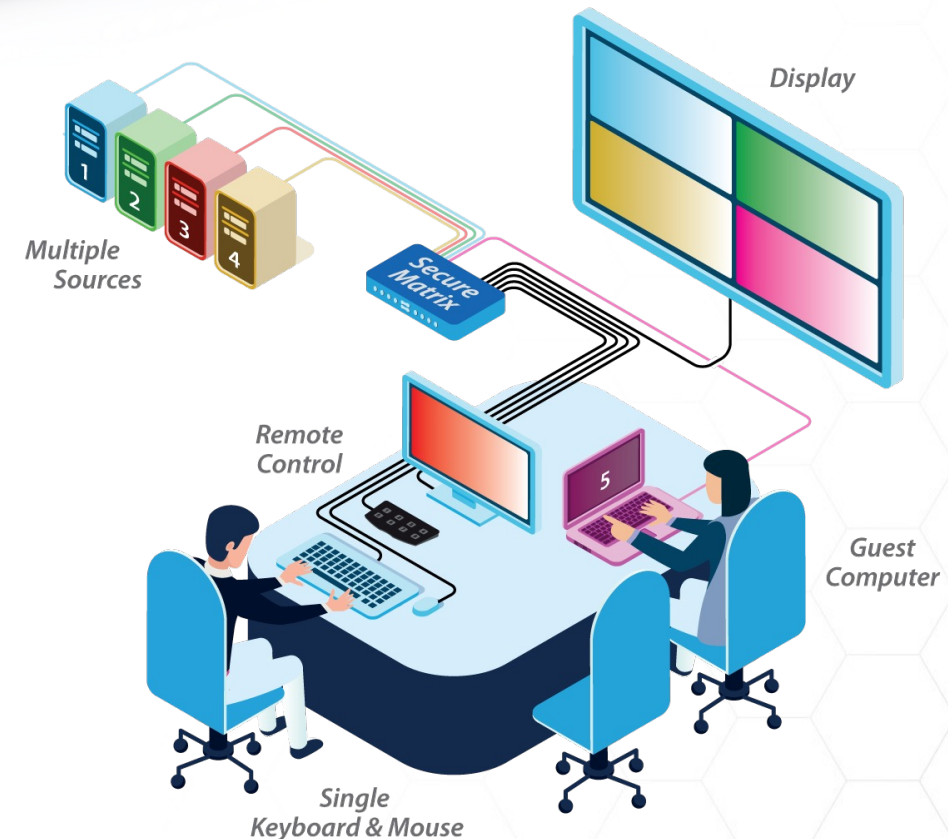
- Prevents smartphones from eavesdropping on conversations and recording or transmitting them for an outside source
- **Anechoic chamber** provides physical acoustic isolation
- **Noise obfuscation** bombards smartphones with human conversation gibberish
- Keep phones in the meeting room & not unattended outside



SOUNDSENTRY ADVANCED KVM SWITCHES



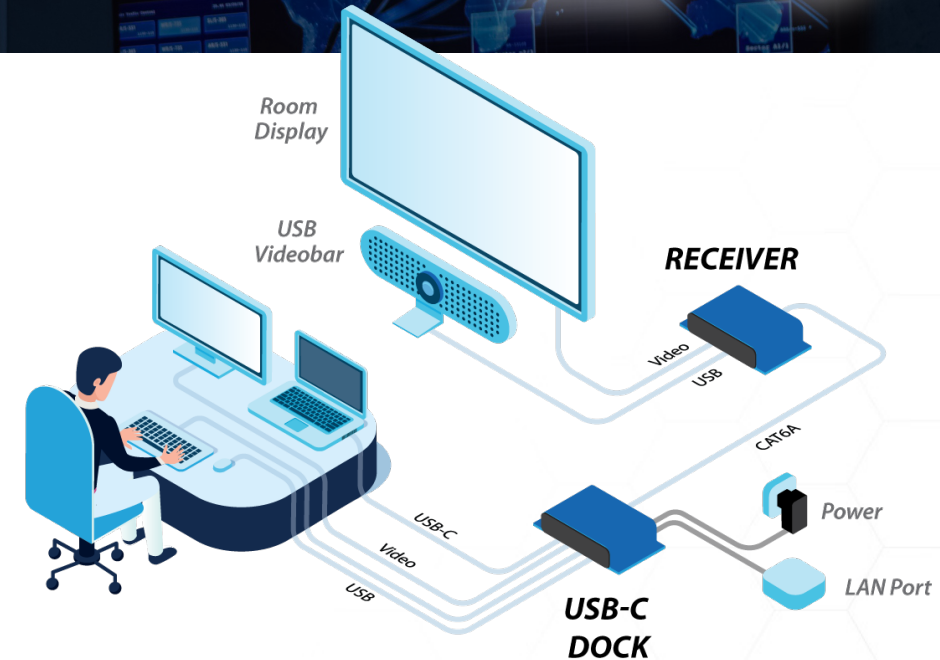
- HSL'S **SECURE** KVM switch product line is compatible with the SoundSentry meeting room family of products.
- The SECURE **meeting room** KVM product line includes advanced functionality and display options:
 - Mini-Matrix & Ultra Mini-Matrix family
 - Combiner family
- Products are easily controlled using HSL's remote controls & preset configurations.
- NIAP PP4.0 for PSD certified – No data leaks
- Dual console displays & up to 8 source ports



SOUNDSENTRY USB-C DOCKING & EXTENSION



- Facilitate using smartphones, tablets, and USB-C laptops in meetings
- **USB-C extension** enables provisioning the KVM switch wherever convenient in the room.
- **Docking station** provides PD and peripheral connectivity to USB-C only devices.



USB-C Extended Docking



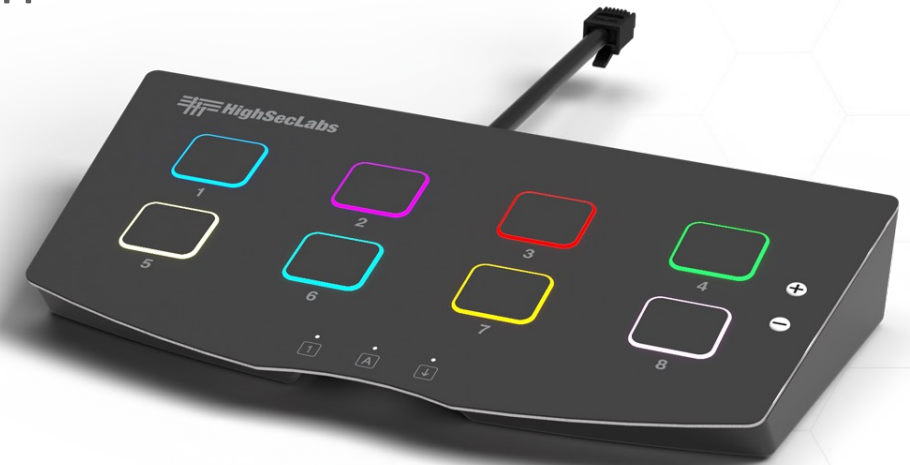
USB-C Docking Station

SOUNDSENTRY REMOTE CONTROLS

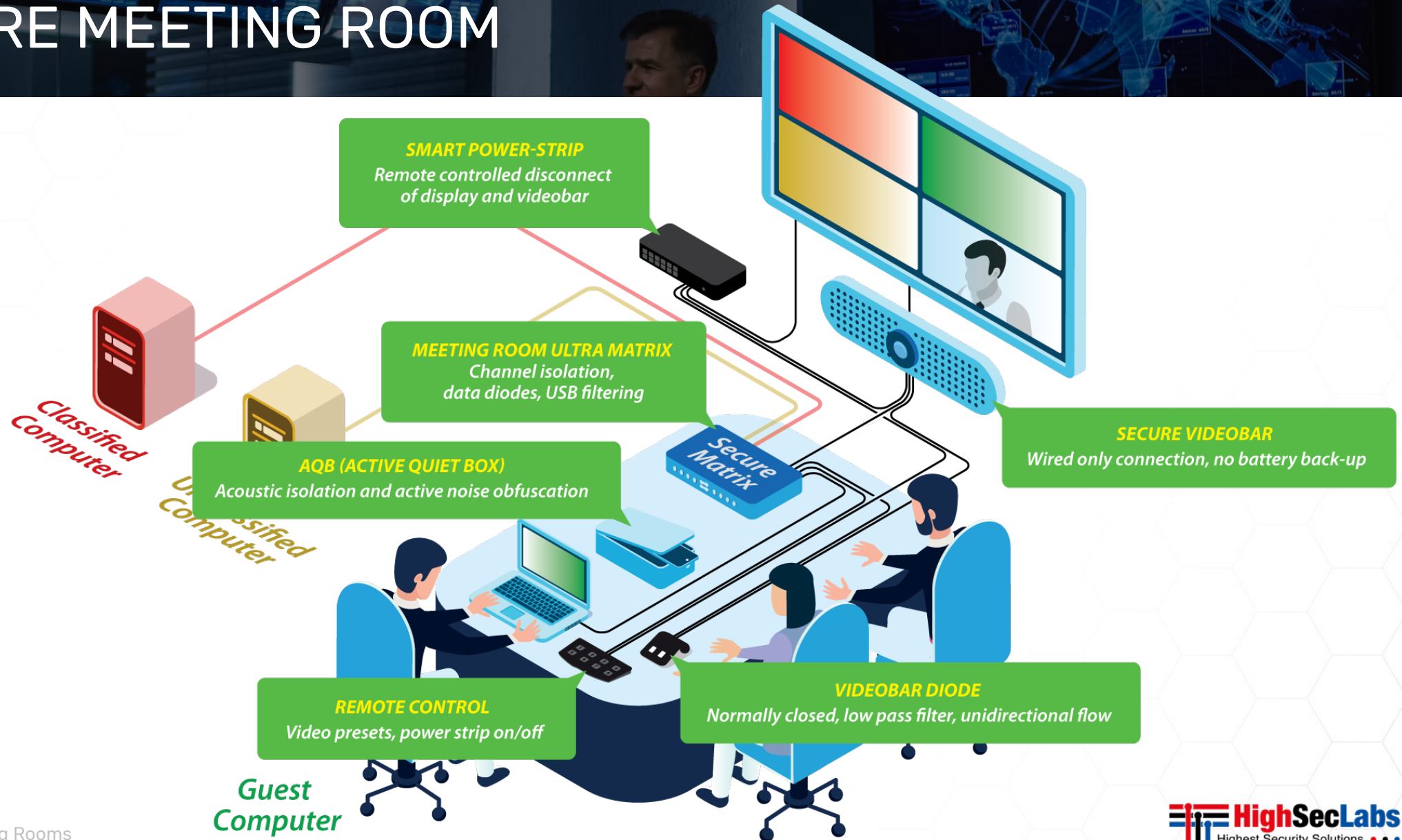


HSL'S programmable remotes are SoundSentry compatible

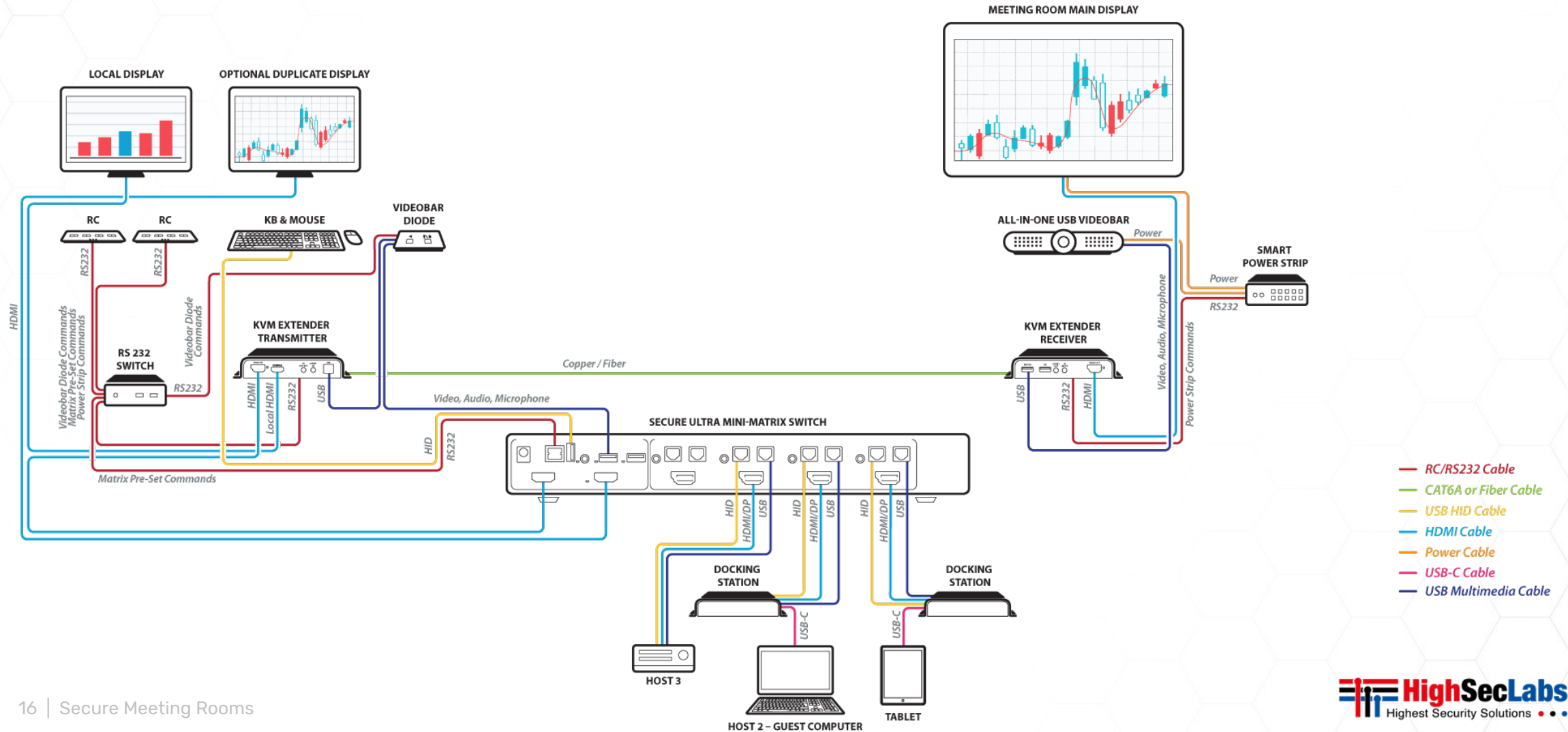
- Cascade remotes to support any installation, regardless of size.
- Enter the desired meeting sensitivity mode with the push of a button:
 - Videoconference
 - Local Meeting
 - Classified meeting
- Invoke Mini-Matrix / Combiner presets with the push of a button.



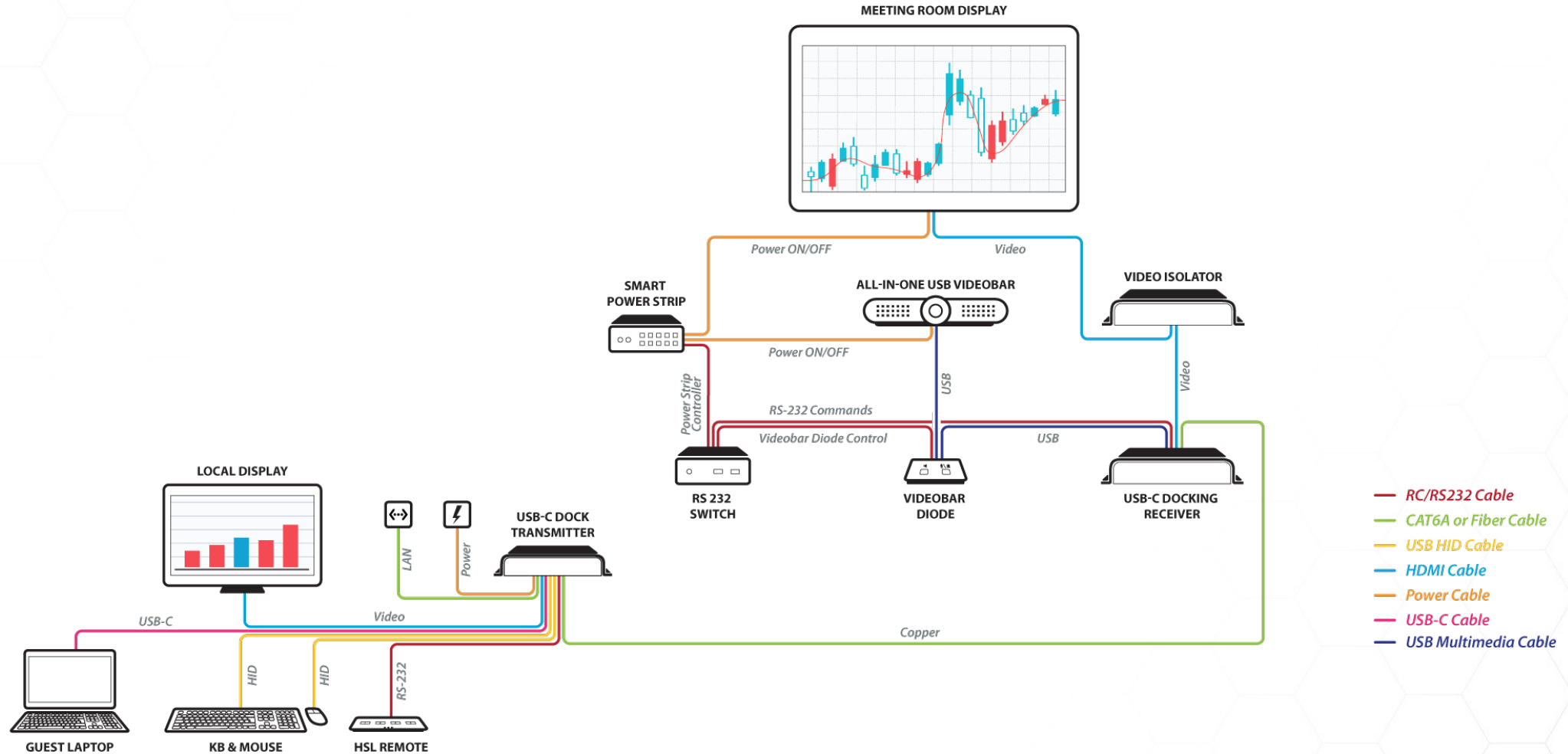
SOUNDSENTRY™ SECURE MEETING ROOM



SECURE MEETING ROOM SETUP



SECURE EXECUTIVE OFFICE SETUP



SUMMARY



- **TAA and BAA** compliant products
- Complete **supply chain** root of trust
- **Certified components** to assure isolation
- A complete end to end **customizable solution** for any meeting room





Thank You

For more info:



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