

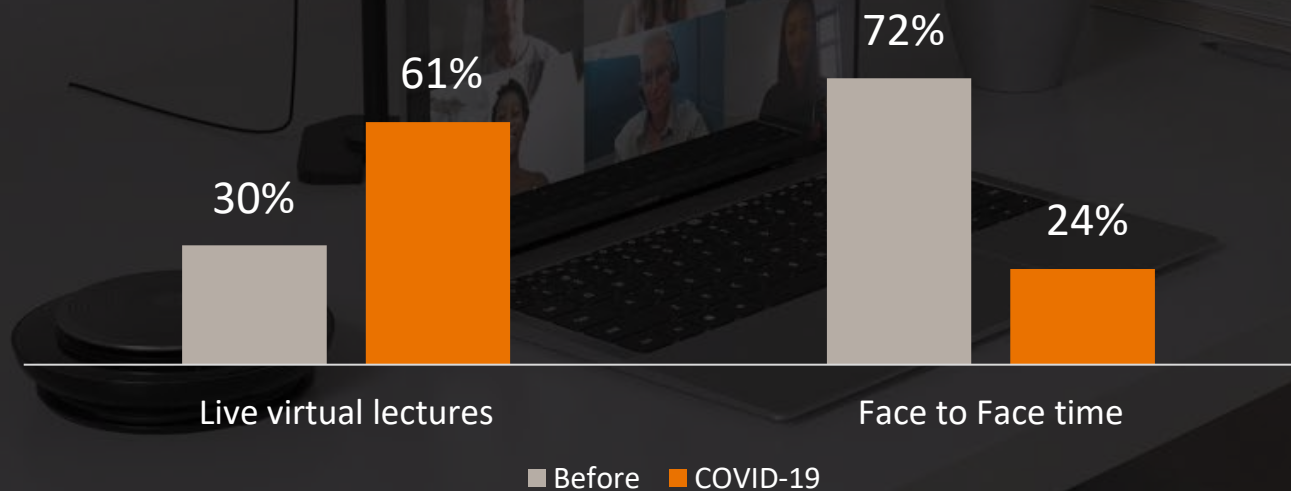


Remote Education & Teaching Jabra Video and Audio Solutions

Remote teaching challenges student engagement



Teachers have 3.5 hours less face-to-face time with students per day



Teaching in a 'new normal' setting

We gained flexibility in education settings
and new challenges with student engagement and satisfaction



88% of teachers

Rely on built-in laptop
cameras and audio solutions
on their own devices



54% of teachers

Find it difficult to keep
students' attention when
teaching from remote



44% of students

are not satisfied with the
audio or video of remote
learning sessions

Source: Jabra Customer database survey, 2020

Jabra helps you take teaching **beyond the classroom**



**MOVE
FREELY**

Take up the entire room and
engage your free-flowing,
animated teaching style



**FULL
VIEW**

180° of the entire class for
interactive participation



CONNECT

with students via
whiteboards and
educational props

A video-first culture with Jabra helps you excel in a flexible education environment



Distance learning

Distance learning has taken a dominant role in delivering education. Make it a great experience by deploying audio and video tools that provide superior experiences



Collaborate from anywhere

Unlimited flexible collaboration allows campus staff and students face-to-face collaboration from anywhere



Record for greater impact

Offer access to on-demand training, review replays and resources to empower students from anywhere



Empower students

Allow students to incorporate video for submitting assignments and build presentation skills with professional video and audio tools

In-classroom connection

Whether from home, an office or a flexible setting, ensure engagement with video and audio that provides the in-classroom freedom of movement

Engaging students remotely with great video experiences



3 cameras
No distortion

180° FoV
Inclusive
Meetings

**Intelligent
Zoom**
People

Vivid HDR
Lighting

Audio
W/ Jabra Speak

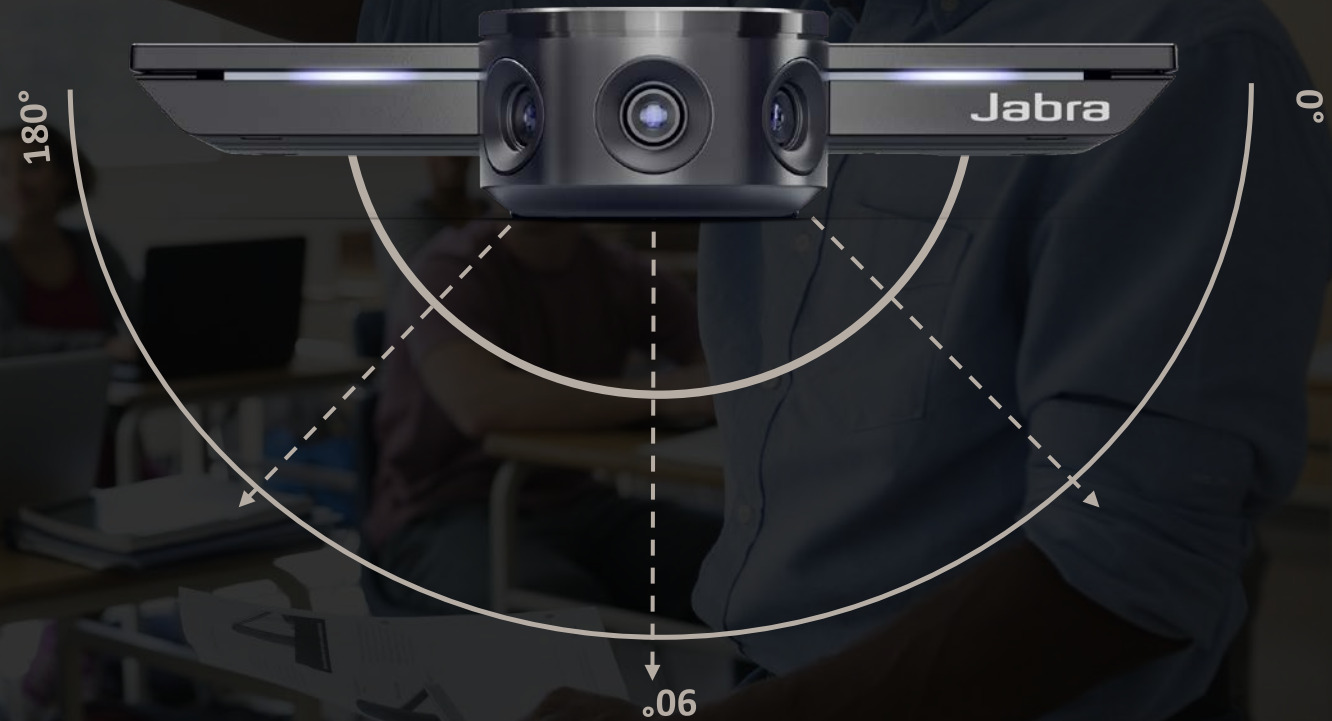
Whiteboard
Capture

**People
Detection**
AI Sensors

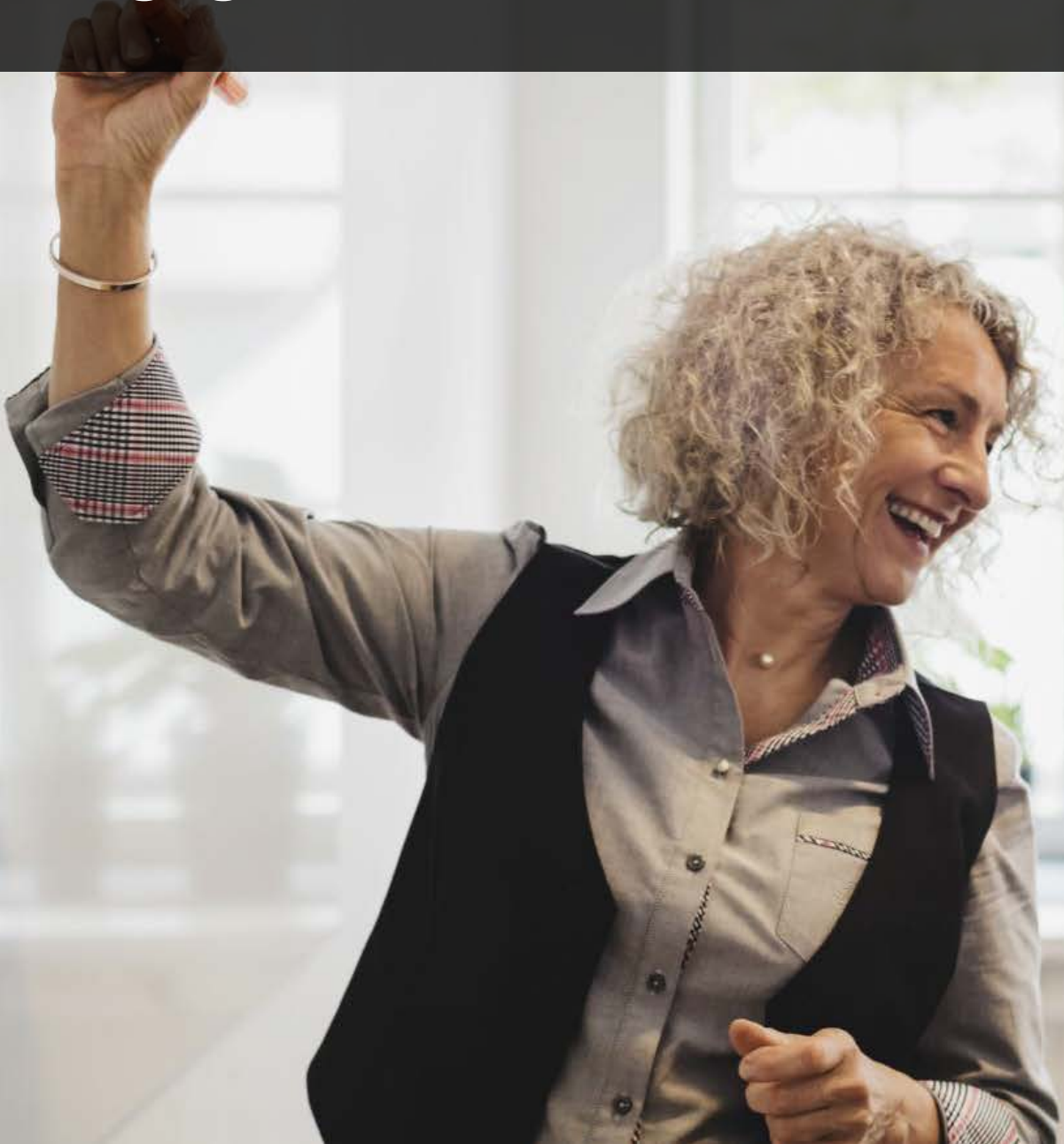
Engage students – Own the entire 180° room

Jabra PanaCast camera covers your teaching space wall-to-wall with 180° field of view

Immersive, animated inclusive lessons
- No matter where you are, no matter where your students are.



Engage students – Video with whiteboard capture



Video streaming and whiteboard or content sharing **in one camera**



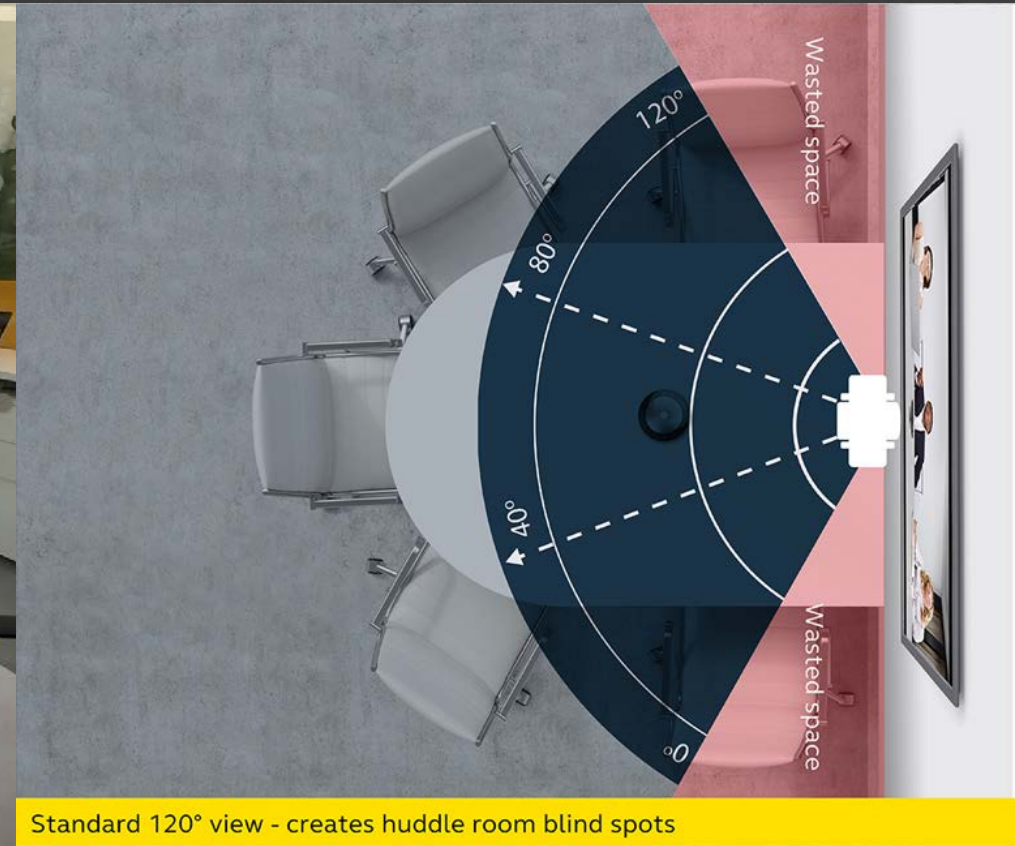
Include your **educational props**, whiteboard, flipchart



In-room content sharing experience from **any angle** within the 180° Field of View

Challenges with traditional technology

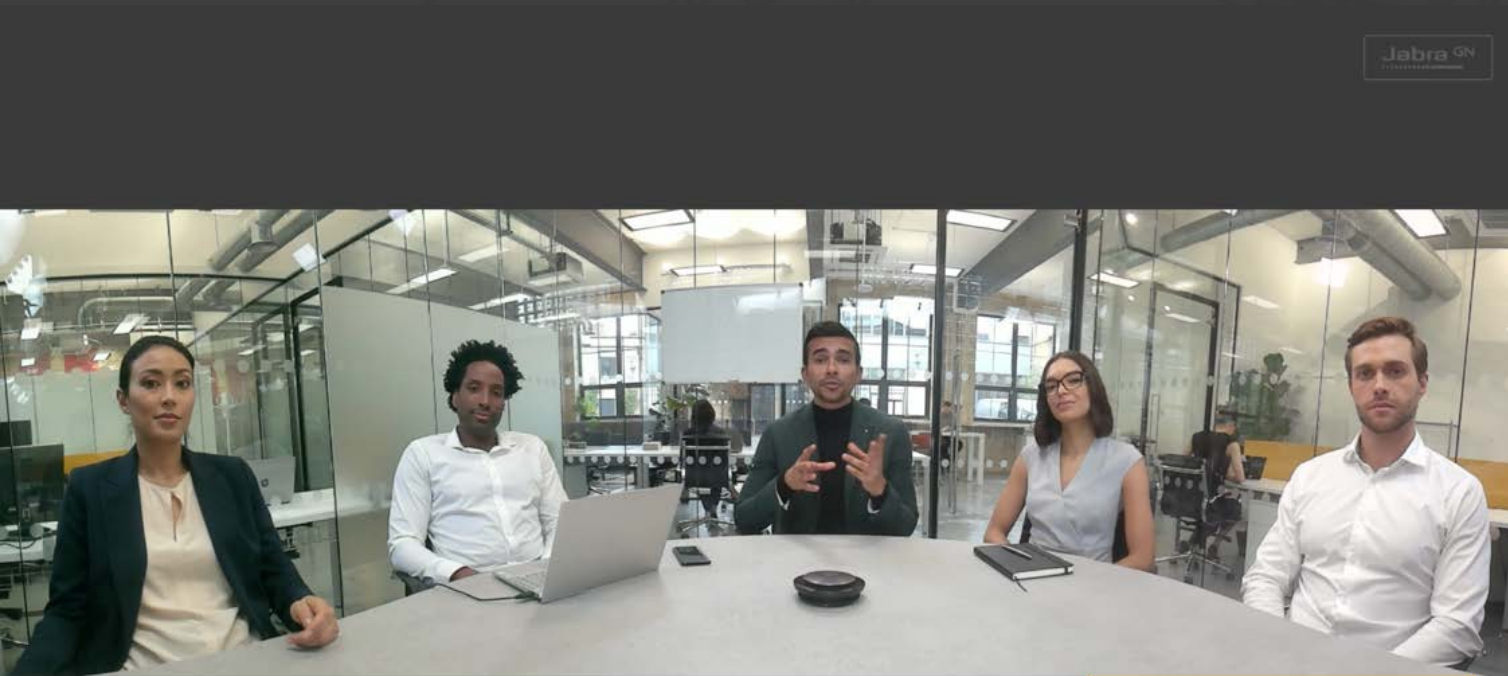
Ultra wide-angle lenses and limited field of view means unnatural distortion, scale and limits room coverage



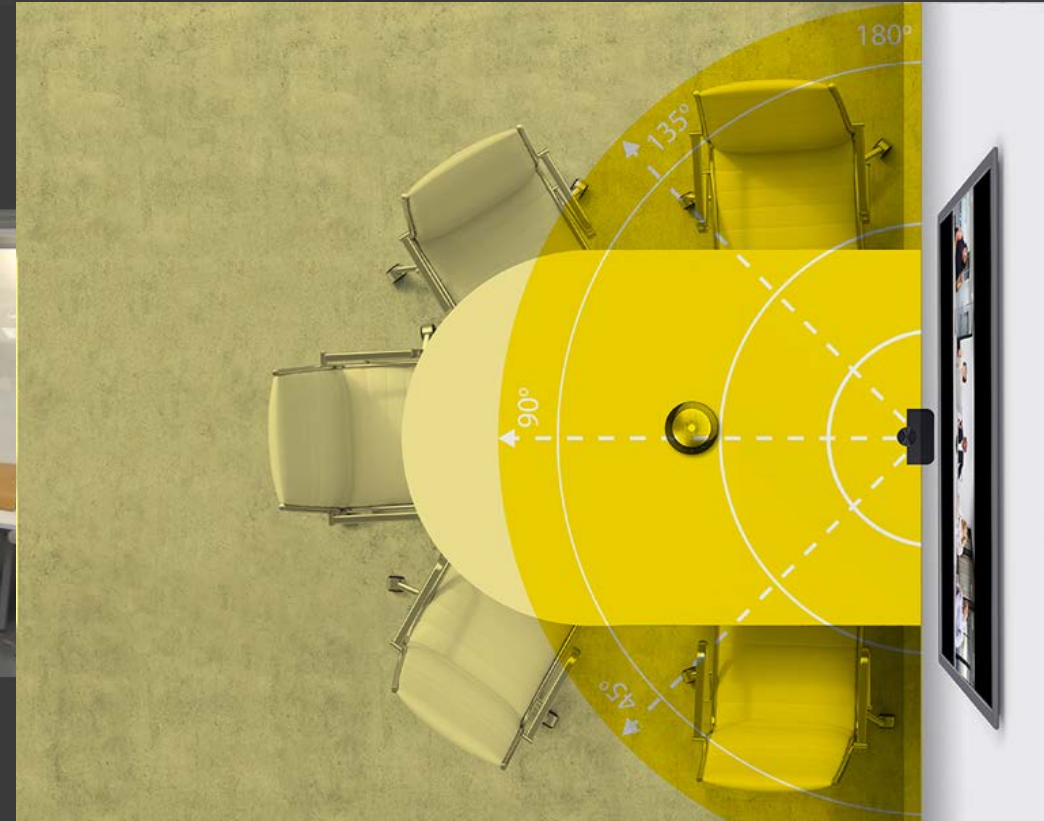
Note the different scale of participants and distorted proportions. Also, there are 5 people in the room!

180-degree Field-of-View

The innovative 3-camera system captures **everyone in the room** in a natural scale and angle



Jabra PanaCast



Panoramic 180° view – no missing participants or wasted space

Vivid HDR

Automatically balances contrast and exposure, even with widely varying lighting conditions, to ensure optimal and professional video quality



PanaCast video benefits **in summary**

#1 Inclusive meetings

180° Field-of-View with Panoramic-4K video

#2 Intelligent video technology

Intelligent Zoom, HDR, Whiteboard capture and People Count and Detection

#3 Instant collaboration

Plug-and-play through Jabra USB-C hub or your existing meeting room hardware.

#4 Versatile compatibility

MS Teams and Zoom certified and compatible with all leading VC providers



Engaging students with great audio and video

Audio solutions for a Smaller “Classroom” setting

Engage students with superior audio quality solutions



**TALK &
BE HEARD**

Talk – and **be heard clearly**
while moving freely



ALL DAY

Long-term wearing comfort
and reliable battery times



COMPATIBLE

and **connects seamlessly** –
with leading UC platforms

... so you can **focus** on teaching

Engaging class conversations with seamless premium audio

Jabra Speak 750

Hold completely natural conversations via speakerphone as both sides of the conversation are transmitted at the same time, allowing conversations to flow just as they do in the classroom

Moving freely **with professional wireless audio quality**



EVOLVE 75e

Wireless in-ear headphones with superior audio performance and long-lasting battery



EVOLVE 65t

True wireless earbuds with professional-grade sound and easy connectivity

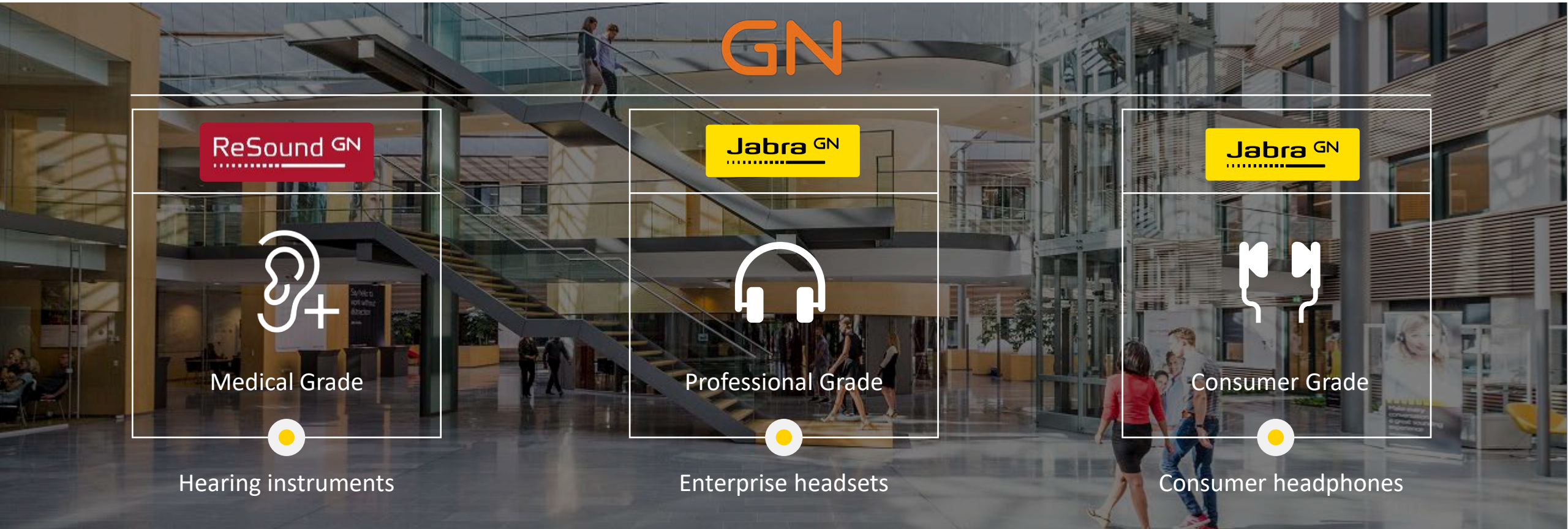


EVOLVE 75

Wireless Bluetooth connection provides the flexibility to move around freely (up to 30m/100 feet away from phone device)

Why Jabra?

ONE FOUNDING VISION



THE WORLD WE LIVE IN

ENGINEERED BY JABRA





PanaCast Reference Cases

University of Arizona College of Medicine

Makes distance more learning more engaging with PanaCast



The unique features of the PanaCast 2 camera make it **an ideal solution for distance learning**.



In terms of convenience, cost, adaptability and ease-of-use, they are in an entirely different league than our legacy systems. Some courses that include remote students use different classrooms on different days, so the tiny size and plug-and-play nature of the PanaCast 2 is exactly what we needed to optimize every aspect of the class, including setup, wall-to-wall coverage, and an **exceptional student experience**.



Chris Dieterich, Manager of Instructional Technology



Carnegie Mellon University

Increases student engagement with PanaCast



We needed the latest in video camera technology to seamlessly connect and create cohesion among our various campuses.

PanaCast lets me clearly see each of my classrooms on the same screen. **My students are 10 times more engaged.**

PanaCast lets someone be seen when he or she is raising a hand to ask a question, or receive input from a student halfway around the world.

Stuart Evans
Distinguished Service Professor, Carnegie Mellon University



Western Sydney University Engages the classroom with PanaCast



The actual image captured by the camera when we tried it in a lecture theatre (300+ seat) was perfect.

Every seat in frame, handled the lighting conditions well, good focus, seamlessly stitched. Very impressed.”



Geoff Lambert, Senior Project Manager
Information Technology and Digital Services, University of Western Sydney

Acadia Divinity College

Enhances student engagement with PanaCast

“

With PanaCast, we've significantly enhanced student engagement. The camera system helps us stay true to one of our core teaching values: having remote students face-to-face with us.

”

Dr. H. Daniel Zacharias
Director of Distance Learning



Stony Brook Medicine

Creates superior conferencing experiences with PanaCast

“

What I love about PanaCast is that I no longer have to explain to users that we can't capture an entire room because of its size.

I can just bring in PanaCast and show them the **superior conferencing experience** that PanaCast provides.

Jonathan Villasan
Video Conferencing and Collaboration Specialist

”



University of Idaho

Expands video conferencing and learning capabilities



When we redesigned one of our buildings ... (we integrated) two PanaCast 2 cameras into tables of tech-enhanced active learning classrooms. The next year we began supporting the Zoom videoconferencing platform campus wide, and demand for cameras became an everyday occurrence... Looking forward, we are definitely aiming for a telecommuting-friendly infrastructure.

Aand the PanaCast 2 cameras afford professors the opportunity to deliver a classroom-likeview to remote students.

Cassidy Hall
Director of the Doceo Center for
Innovation + Learning





Implementation & Compatibility

Works with your video platform

...and many more



BlueJeans



Certified for

Microsoft Teams

moodle

slack

Cisco
webex

Panopto

amazon
Chime

GoToMeeting

Vidyo

AI sensors give you real-time data

Real-time people detection benefits facility management in countless ways
Without using, storing or sharing any personal data



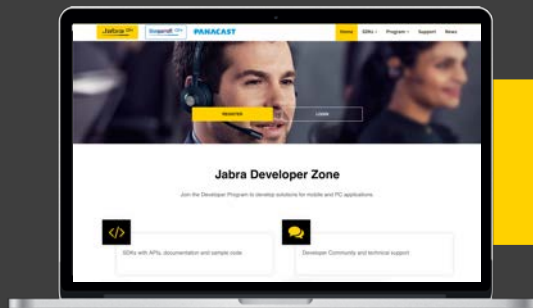
Meeting space optimization



Workflow automation



Meeting room calendar integration and updates

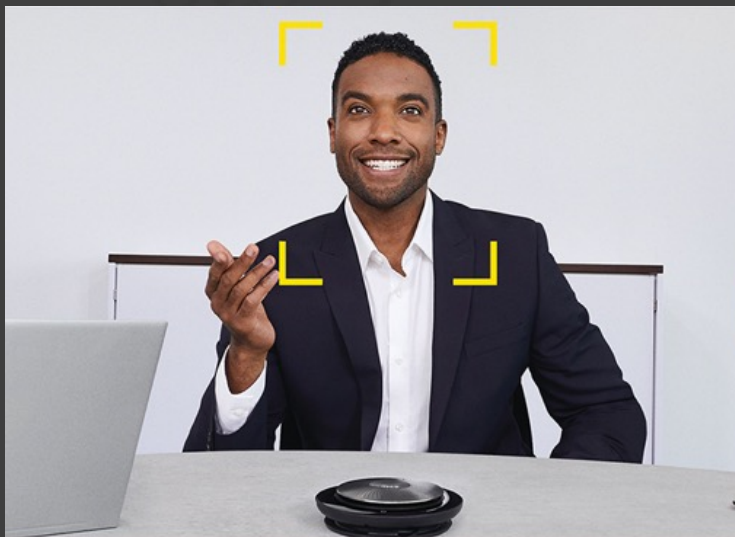


Visit developer.jabra.com
for SDK downloads, documentation & cases...



Intelligent Zoom

automatically detects the amount of people in the room and adjusts the width of the field-of-view to include all participants for a in-room collaboration experience.



Intelligent Zoom – 1 participant



Intelligent Zoom – 3 participants



Intelligent Zoom – Full 180° view



Jabra + Zoom

Jabra PanaCast works with and is officially certified with the fastest growing video platform.

Jabra PanaCast is the first video camera certified to work with “speaker switching” – automatically focusing on whoever is speaking in the room.

"We are pleased to collaborate with Jabra in delivering the next iteration of the Zoom Room to customers"

- Nick Yu, Head of Global Services, Zoom

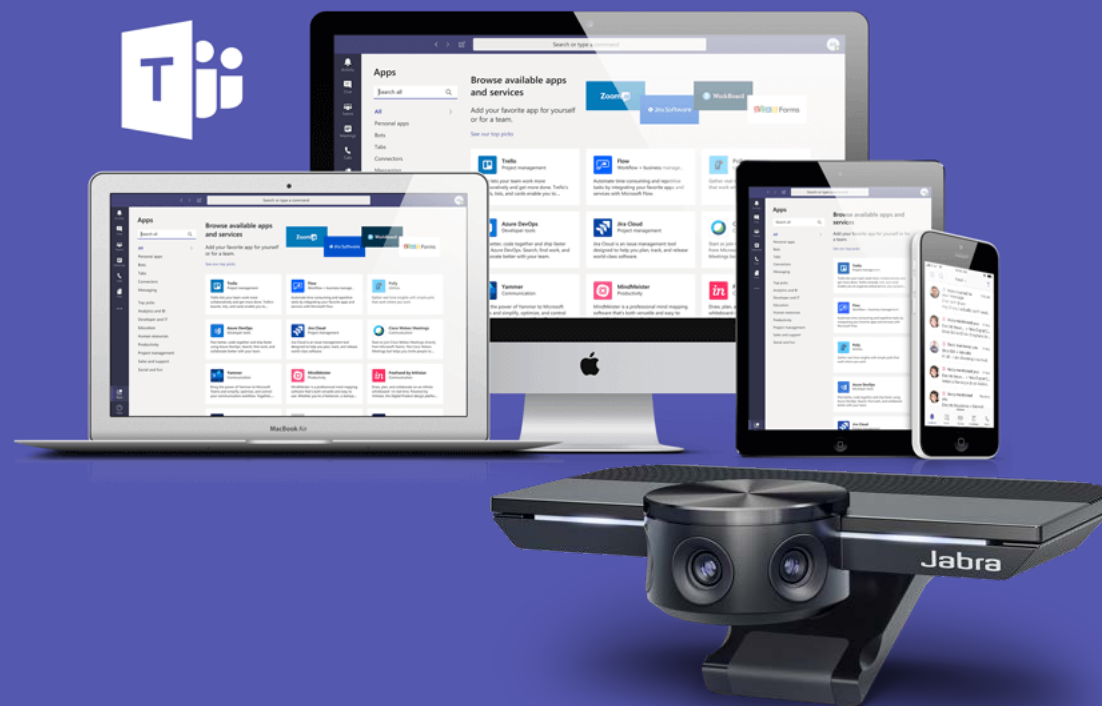




Jabra + Teams

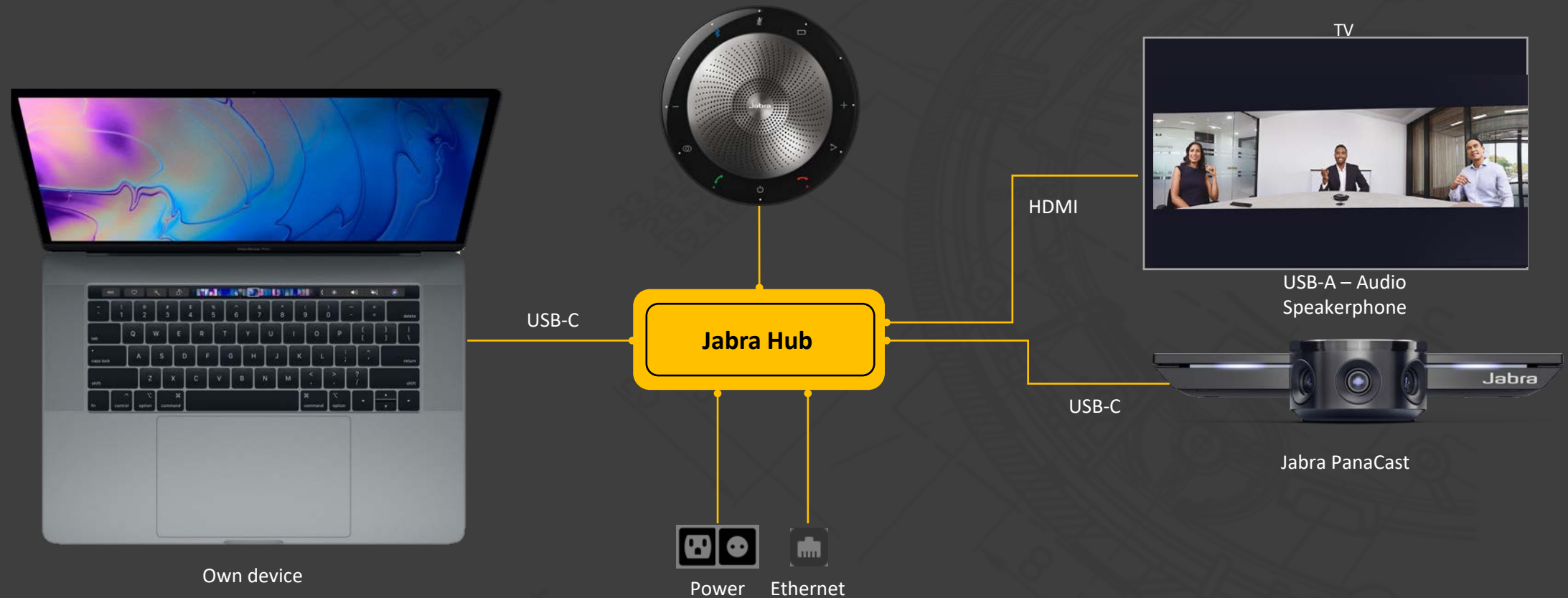
Jabra PanaCast works with and is officially certified with **Microsoft Teams**.

Jabra PanaCast works with and is officially certified with **Microsoft Teams Rooms**



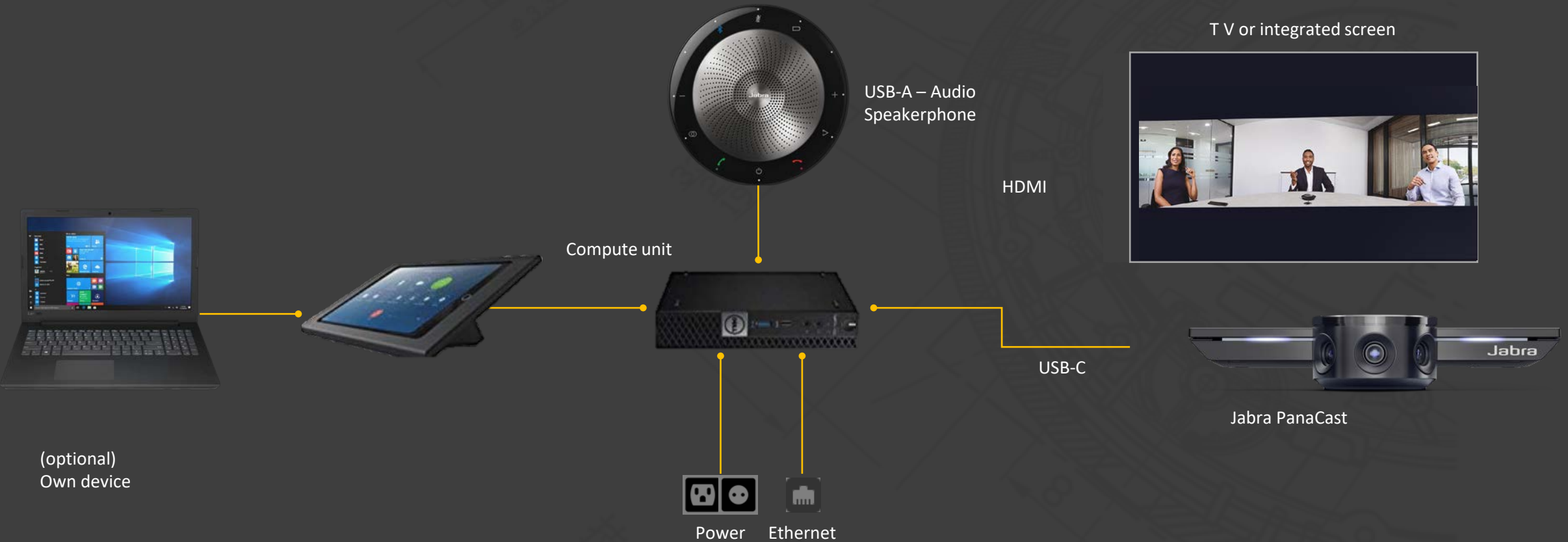
Plug and play

Drive adoption by connecting a hub to enable a single USB cable to drive your meeting room technology

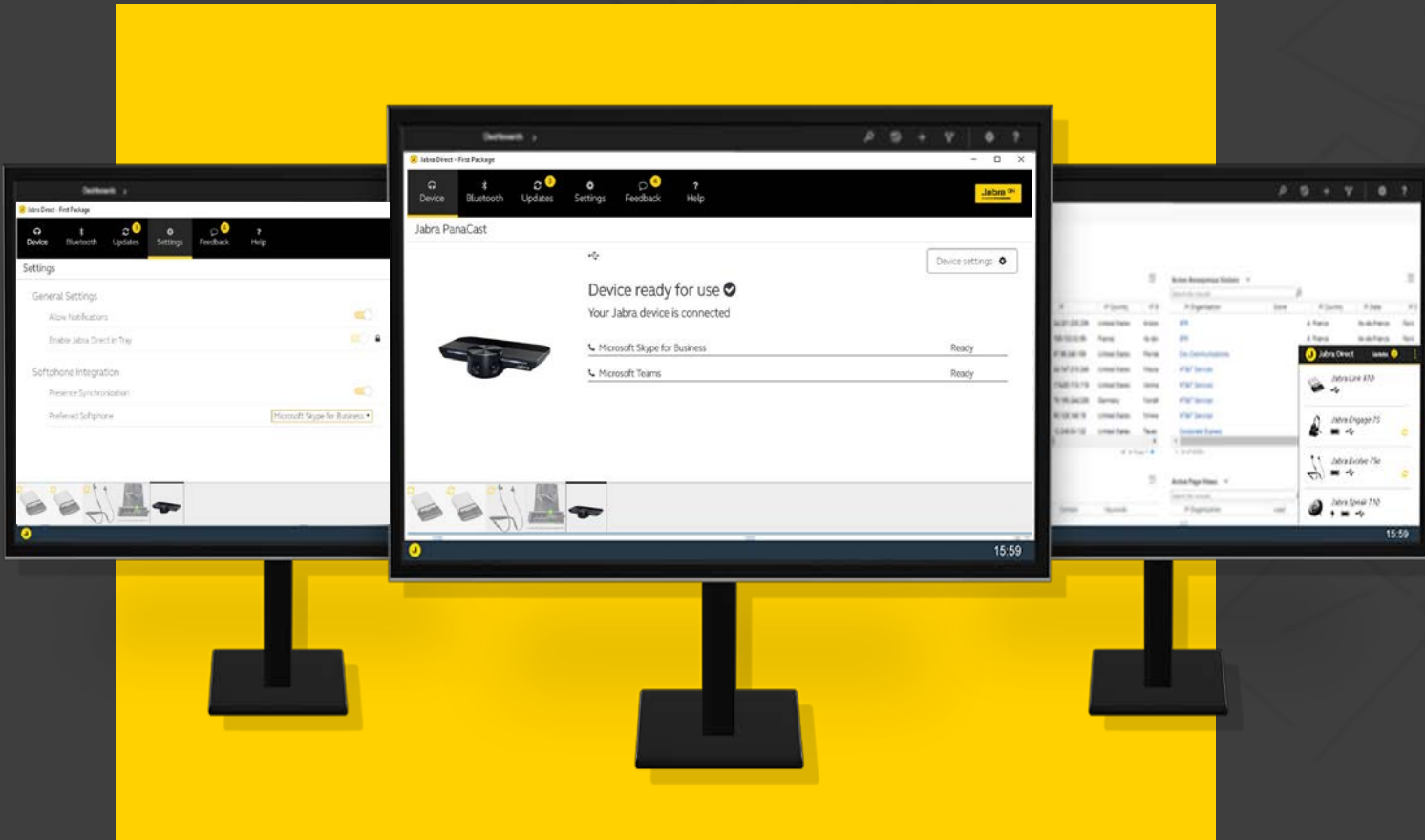


Part of a full solution

Are you using Microsoft MTR or Zoom Rooms? If so, Jabra PanaCast slots right in as part of your setup



Easy management with Jabra Xpress and Direct



Using Jabra Direct & Xpress

Always up to date
Over the air firmware updates

Control your devices
Enable/disable key features

Central point of management
Overview and status of your devices

What about bandwidth?

Video conferencing stresses your network – make sure it's ready to ensure a good experience. Bandwidth utilization is a function of the underlying video conferencing framework. (Teams, Zoom etc.) The Jabra PanaCast camera doesn't require any special or extra bandwidth handling, despite the 180-degree view.

5+ megabytes per sec

Most video conferencing frameworks require 5+ MBPS for 1080p video stream.

Zoom goes up to 720p video and uses 3-4 MBPS.

Microsoft Teams requires 1.2 Mbps and scales up quality according to bandwidth availability

