beyerdynamic

UNITE
USE CASES

MAY 2019

your beyerdynamic

CONTENT

See how Unite works in the following applications:

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Page 4: Guided tour with talkback
Page 5: Guided tour with two guides
Page 6: Guided tour with whispered interpretation (1)
Page 7: Guided tour with whispered interpretation (2)
Page 8: Guided tour with two interpreters
Page 9: External audio input
Page 10: Wireless microphone, PA, assistive Listening
Page 11: Multi room – wireless microphone, assistive listening
Page 12: Multi room – assistive listening with 3rd party mic
Page 13: Interpretation – multi language transmission
Page 14: Interpretation - broadcast of 4 languages
Page 15 Assistive listening (without PA)
Page 16: Assistive listening
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Page 21: Legend

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UNITE

GUIDED TOUR

Guide

Master

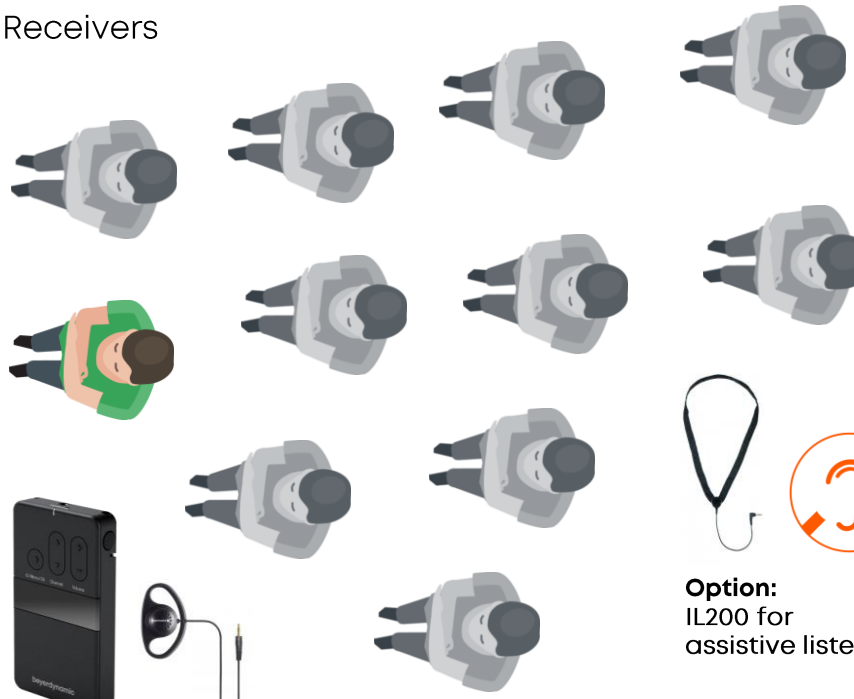
or

Unite TH

Unite TP + TG H56 (TG)

Visitors

Receivers



Unite RP + DT1

Option:
IL200 for
assistive listening

Up to 32 guided groups parallel

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DECT Connections

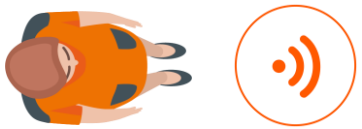
Broadcast

UNITE

GUIDED TOUR WITH TALKBACK

Guide

Master

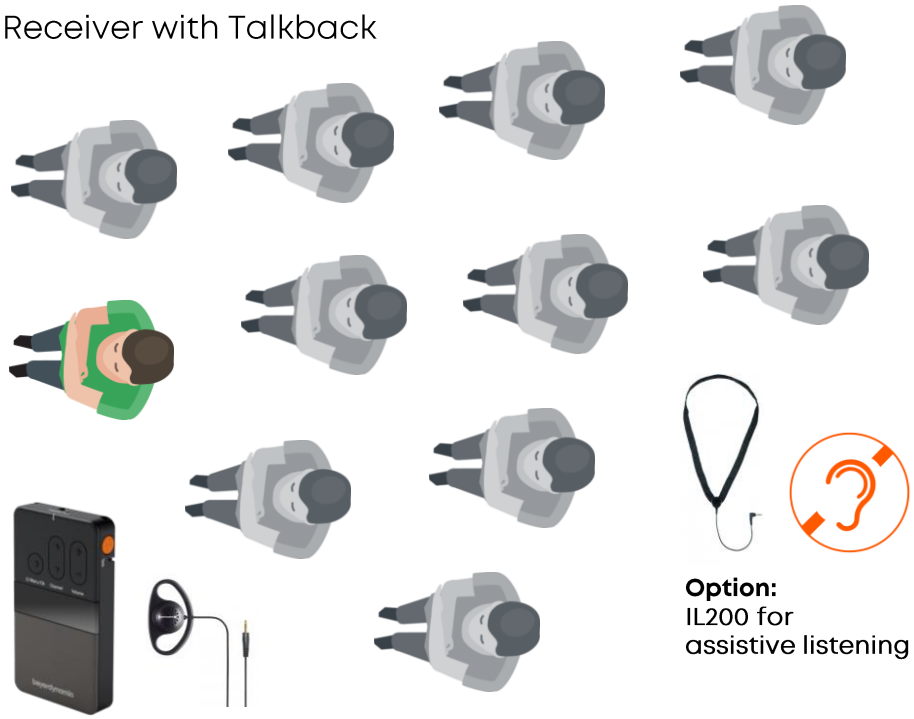


Unite TP + HSP321

active talkback

Visitors

Receiver with Talkback



Unite RP-T + DT1

Option:
IL200 for
assistive listening

Talkback can be routed by the Master device to:

1. ALL = the whole group
2. Master device only
3. Master and all Sub-Master devices

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DECT Connections

Broadcast

Full-Duplex

UNITE

GUIDED TOUR WITH TWO GUIDES

Guide

Master

Unite TP + HSP321

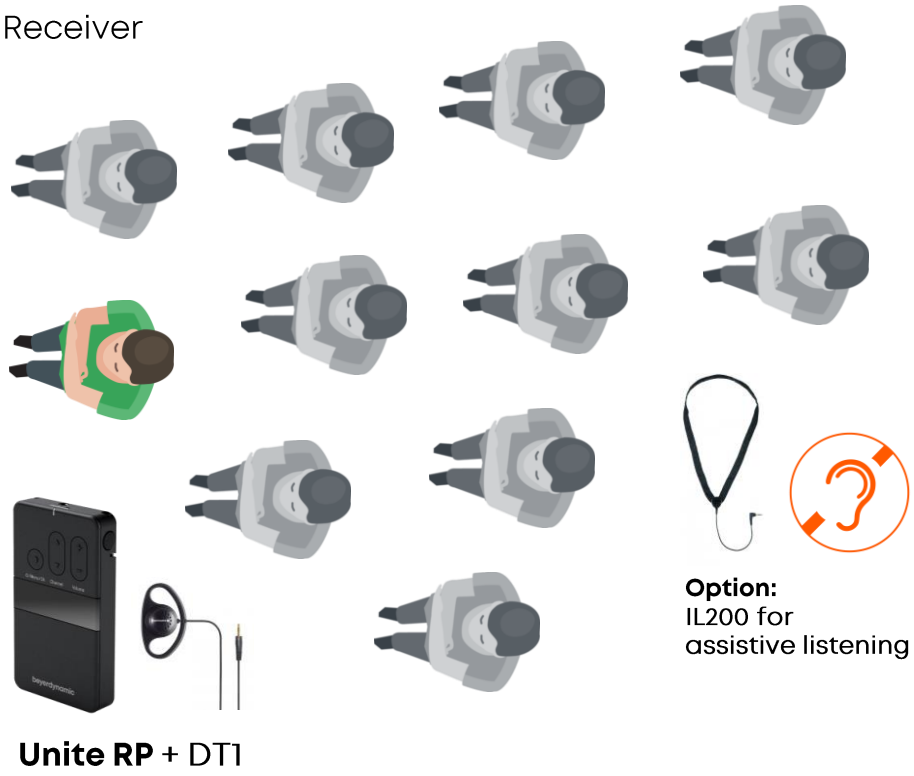
Guide

Sub-Master

Unite TP + HSP321

Visitors

Receiver



Unite RP + DT1

Option:
IL200 for
assistive listening

Sub-Master signal can be routed by the Master device to:

1. ALL = the whole group
2. Master device only
3. Master and all Sub-Master devices

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DECT Connections

Broadcast

Full-Duplex

UNITE

GUIDED TOUR WITH WHISPERED INTERPRETATION (1)

Guide

Master 1

Unite TP + TG H56 (TG)

Interpreter

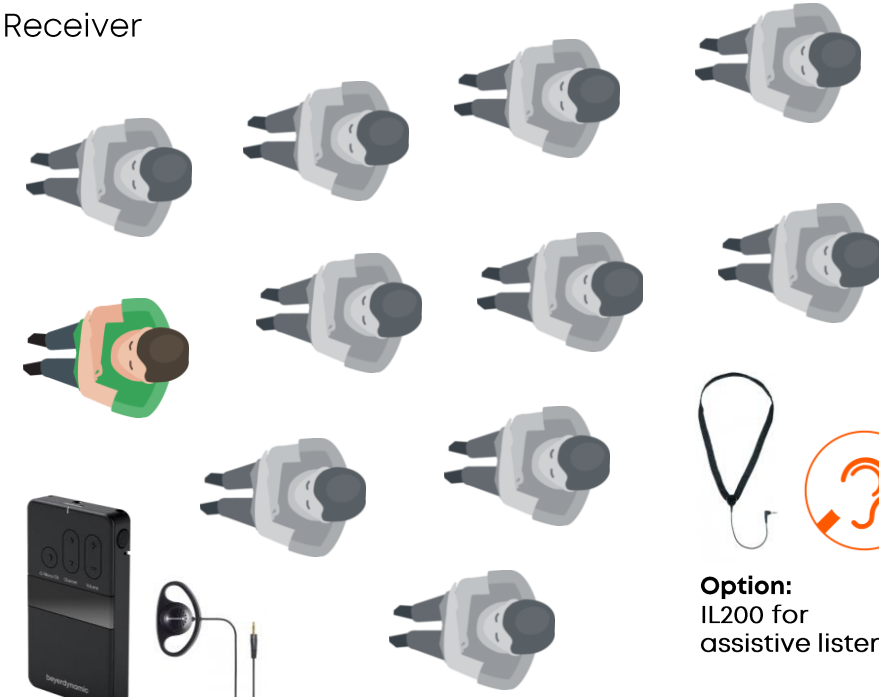
Receiver + Master 2

+

Unite RP + DT2 **Unite TH**

Visitors

Receiver



Select individually:

Language 1

Language 2

Unite RP + DT1

Option:
IL200 for
assistive listening

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DECT Connections

Broadcast

UNITE

GUIDED TOUR WITH WHISPERED INTERPRETATION (2)

Guide

Sub-Master

Unite TH

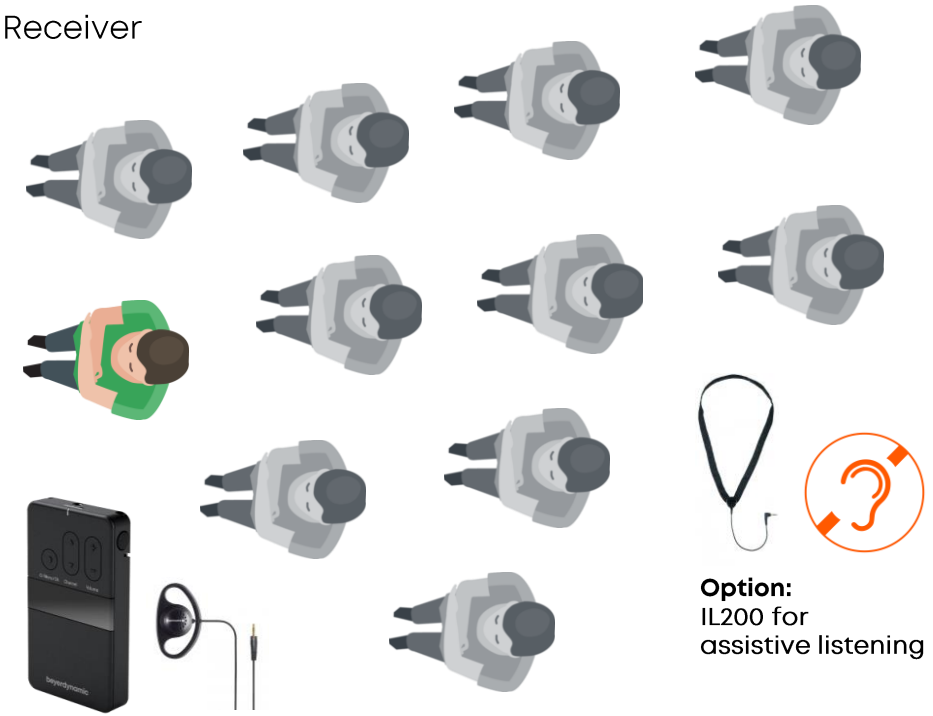
Interpreter

Master

Unite TP + HSP321

Visitors

Receiver



Option:
IL200 for
assistive listening

Unite RP + DT1

Setting on Master:
Menu: Talkback/Audio Routing/Sub-Masters/
shall be set to „Master“ or „Master + Sub-Masters“
This setting determines who can hear the sub-master audio signals.

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DECT Connections

Broadcast

Full-Duplex

UNITE

GUIDED TOUR WITH TWO INTERPRETERS

Original Language
talkback activated

Unite RP-T

USB-C

Guide 1
Master

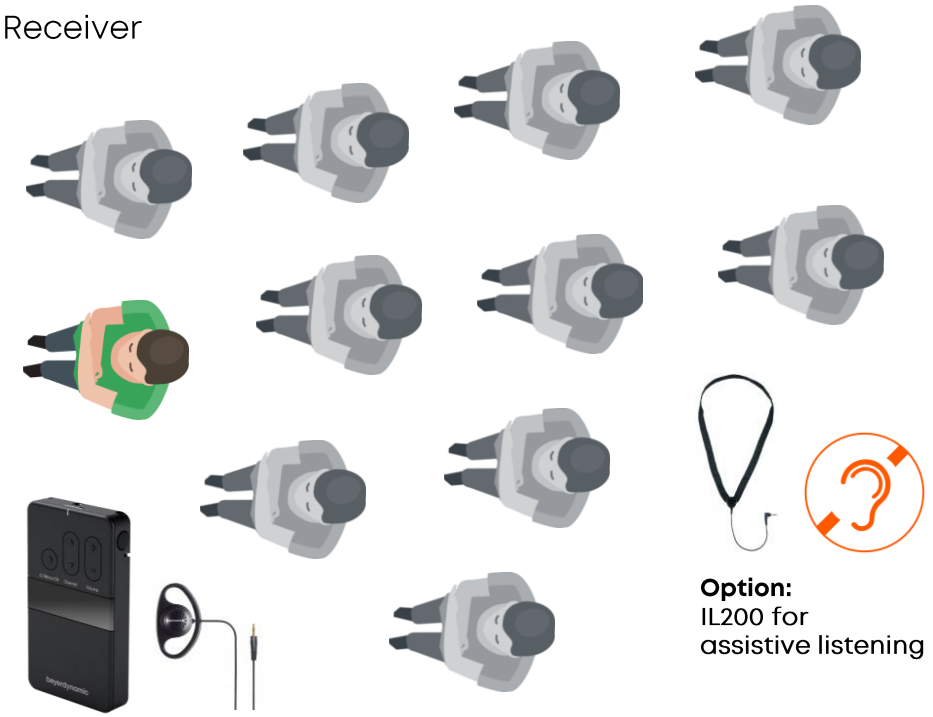
Unite TP + HSP321

>

Guide 2
Sub-Master

> **Unite TP** + HSP321

Visitors
Receiver



Unite RP + DT1

Option:
IL200 for
assistive listening

Setting on Master:
Menu: Talkback/Audio Routing/RP Talkback/
shall be set to „Master + Sub-Masters“
This setting determines who can hear the talkback audio signals from RP-T devices.

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digital

DECT Connections

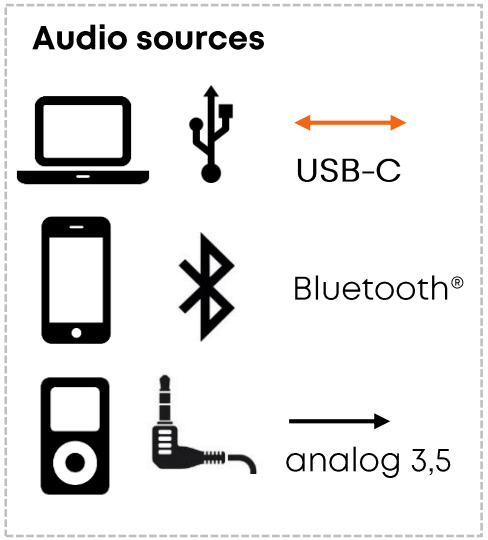
Broadcast

Full-Duplex

UNITE

EXTERNAL AUDIO INPUT

Unite TP interfaces



Unite TP

Details on audio Sources:

Regardless of whether your Unite TP is configured as master or sub-master, you have the option of importing external audio signals into the group via USB-C, Bluetooth or analog.
Please note the following special aspects:

1. USB-C

You can connect any computer to your Unite TP using a USB to USB C cable. Your computer will recognize the Unite TP as an audio interface for input and output. Not only can you play audio into the Unite TP, you can also output or record everything that has been routed to the TP in the group on a PC. By the way, ALL mobile Unite devices have this feature.

2. Bluetooth®

Bluetooth® can be used in two different configurations. Either as a headset (talk and listen) or as a PC/Phone for inputting and outputting audio signals. Please note that you can use either Bluetooth or USB. Both are unfortunately not possible at the same time. Bluetooth® is only available on the Unite TP.

3. Analog

The Unite TP has an analog AUX input via 3.5mm mini-jack. The recorded audio signal is summed to a mono signal.

Use the Ducker!

Ducking is a common expression in sound engineering for giving specific automatic prominence to an audio signal. This is achieved by decreasing other signals rather than increasing the user signal to be given prominence. This effect can guarantee speech intelligibility. Depending on the setting, the USB, Bluetooth or analog AUX signal is lowered or suppressed as soon as the microphone source of the Unite TP is discussed.

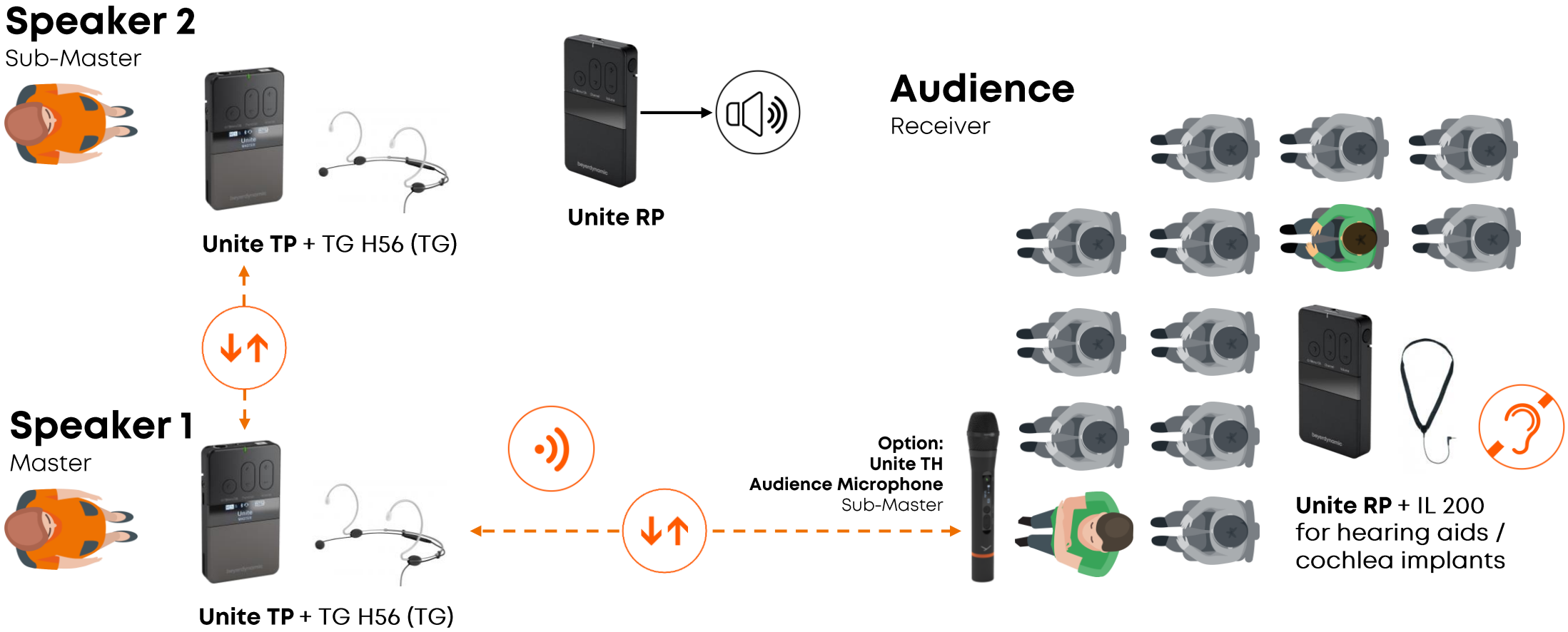
beyerdynamic

digital

analog

UNITE

MOBILE EVENT - WIRELESS MICROPHONE, PA, ASSISTIVE LISTENING



beyerdynamic

DECT Connections

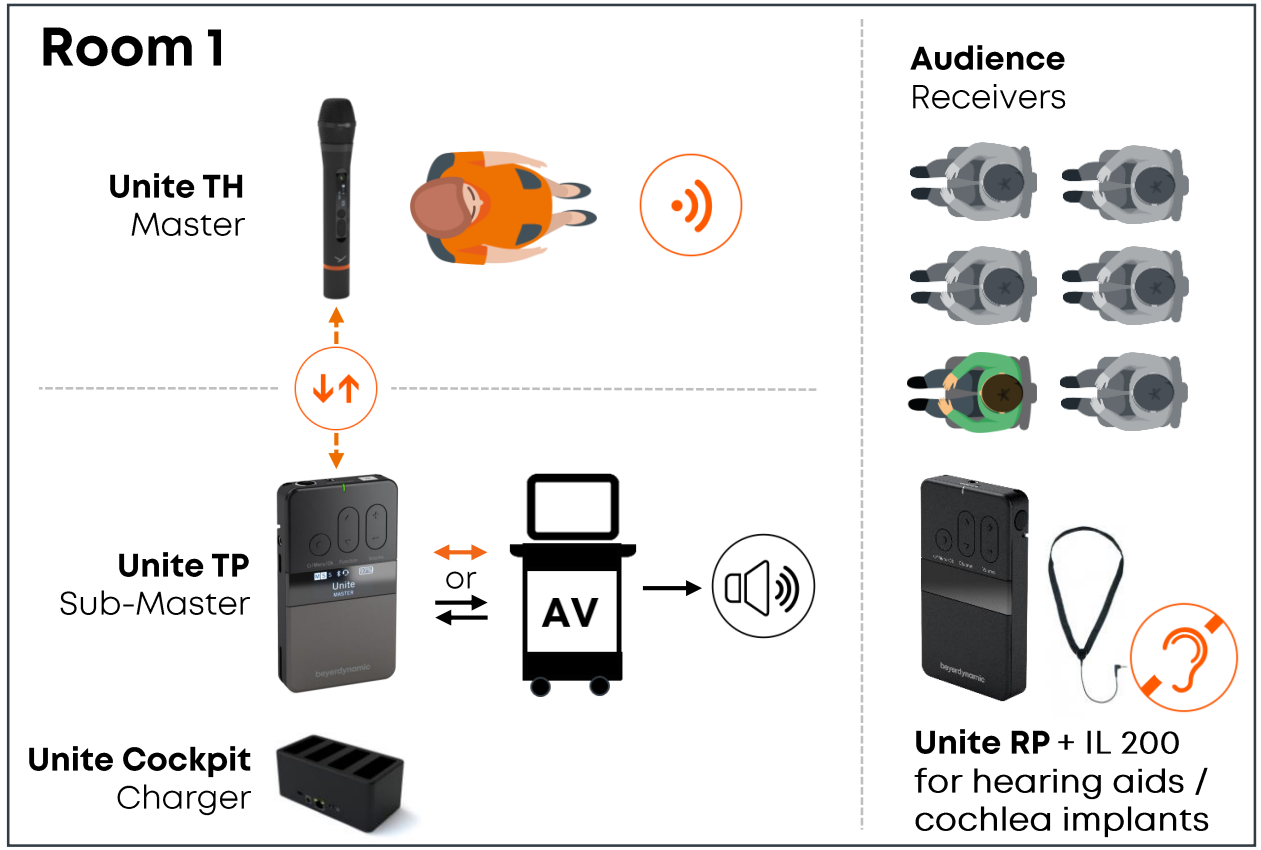
Broadcast

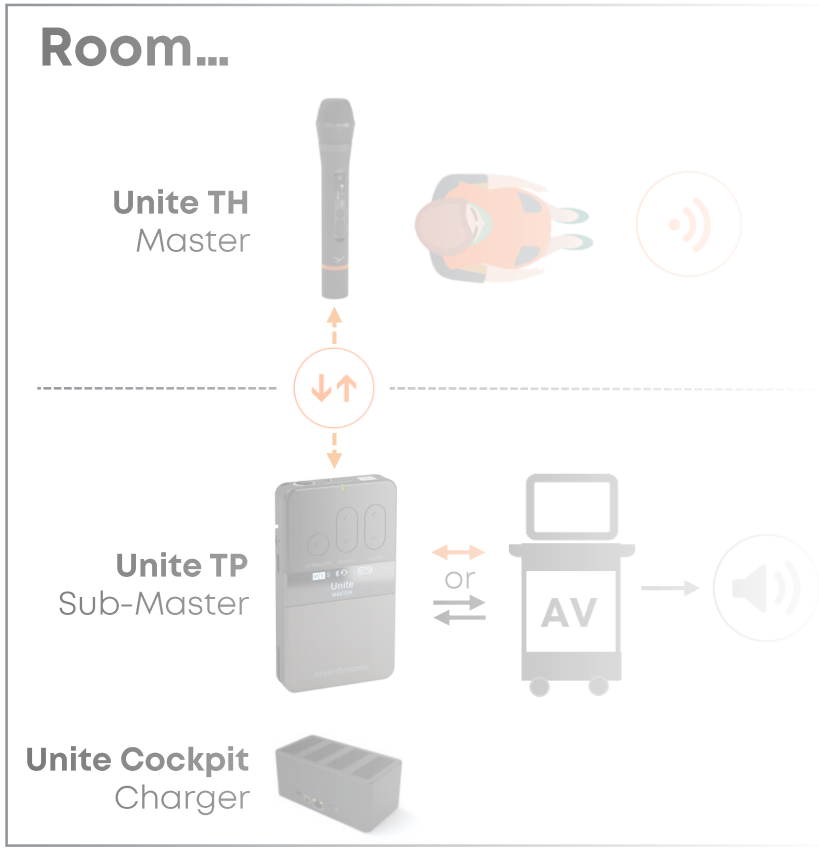
Full-Duplex

analog

UNITE

WIRELESS MICROPHONE, ASSISTIVE LISTENING – MULTI ROOM SOLUTION





Cat5e

Switch

Unite Manager
Monitoring
Configuration
Maintenance

beyerdynamic

digital

analog

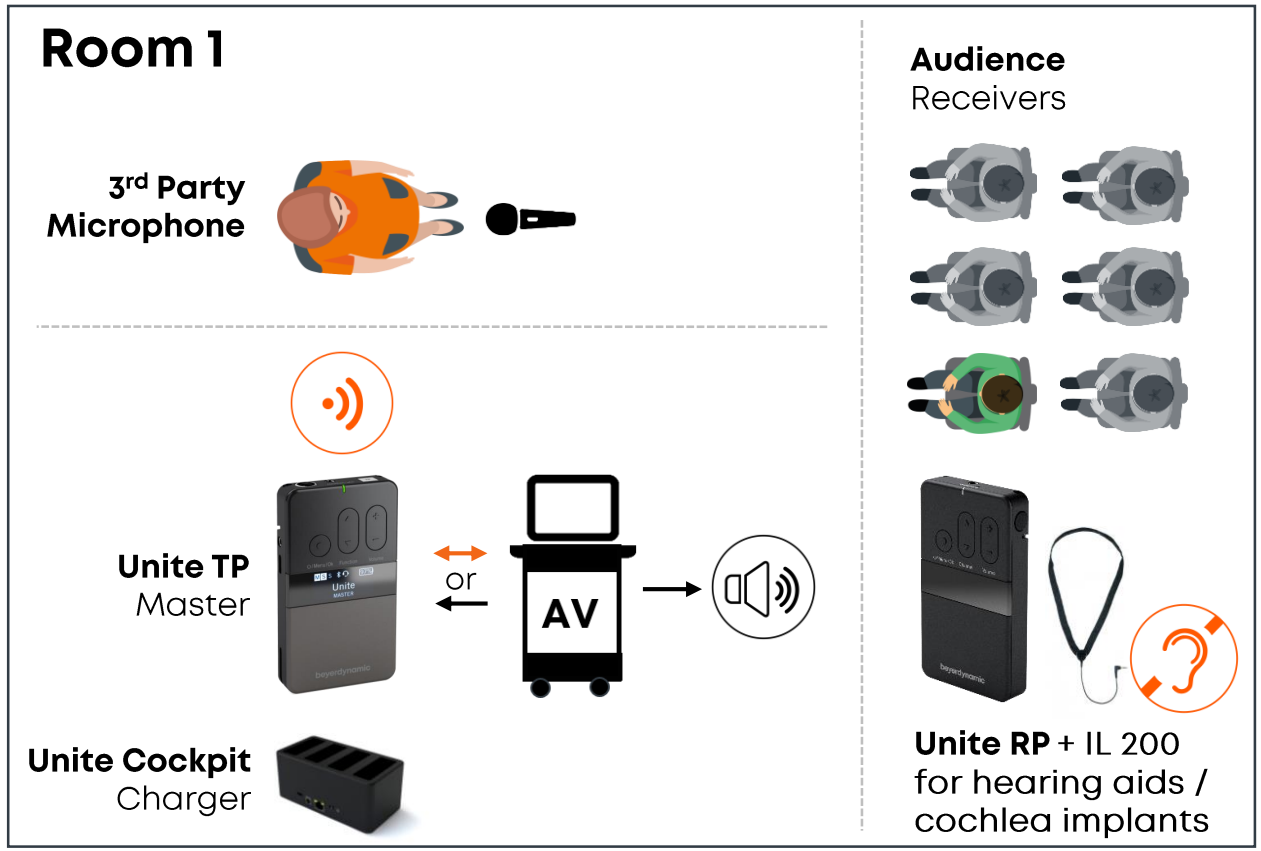
DECT Connections

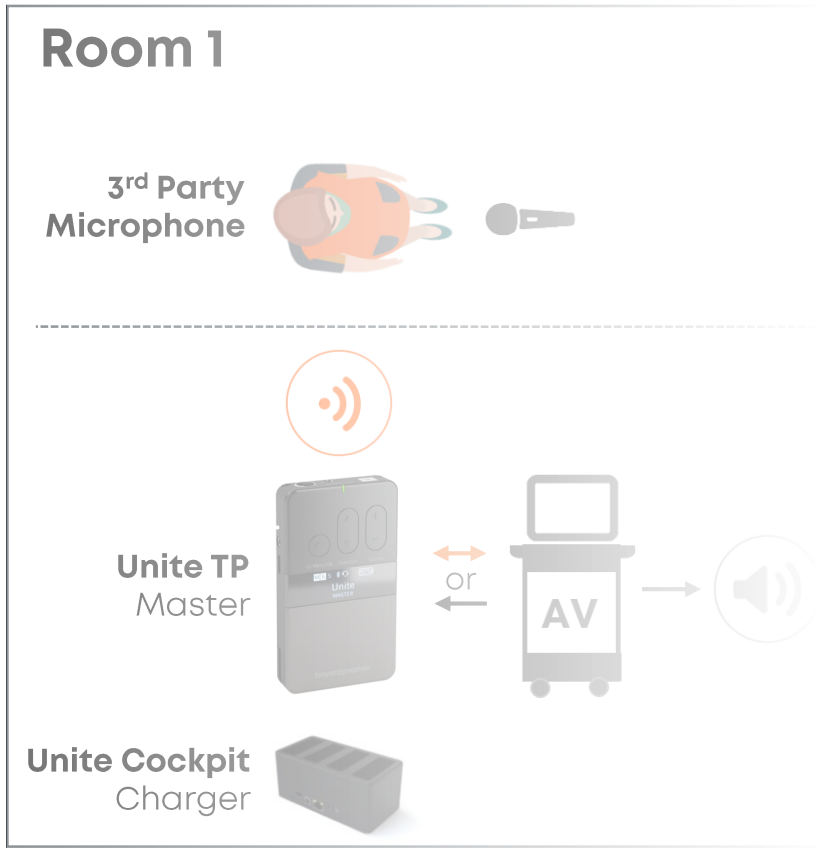
Broadcast

Full-Duplex

UNITE

ASSISTIVE LISTENING– MULTI ROOM SOLUTION 2





Unite Manager
Monitoring
Configuration
Maintenance

Cat5e

Switch

beyerdynamic

digital

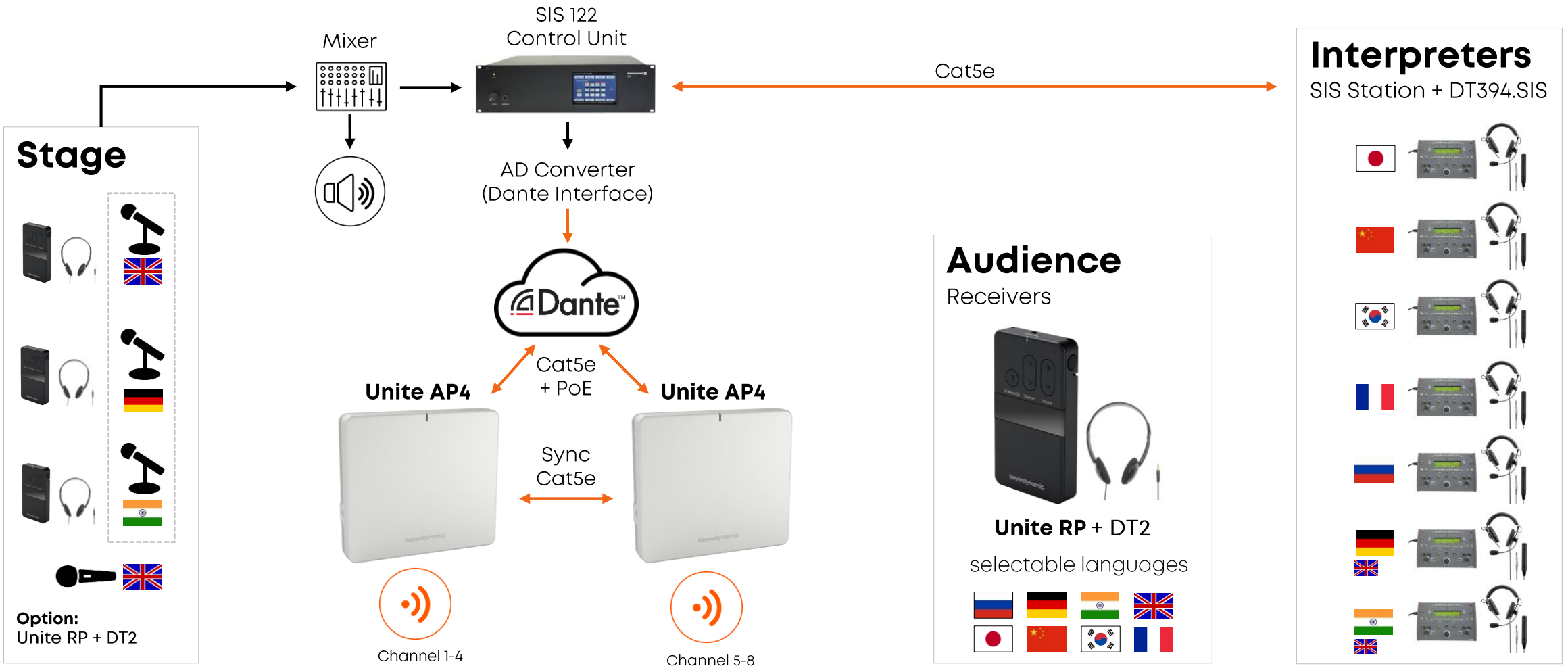
analog

DECT Connections

Broadcast

UNITE

MULTI LANGUAGE TRANSMISSION (7+1 LANGUAGES)



beyerdynamic

digital

analog

DECT Connections

Broadcast

UNITE

BROADCAST OF 4 LANGUAGES

3rd party audio source
Dante or analog output

Dante™ or analog

Input 1-4

Unite AP4
Master

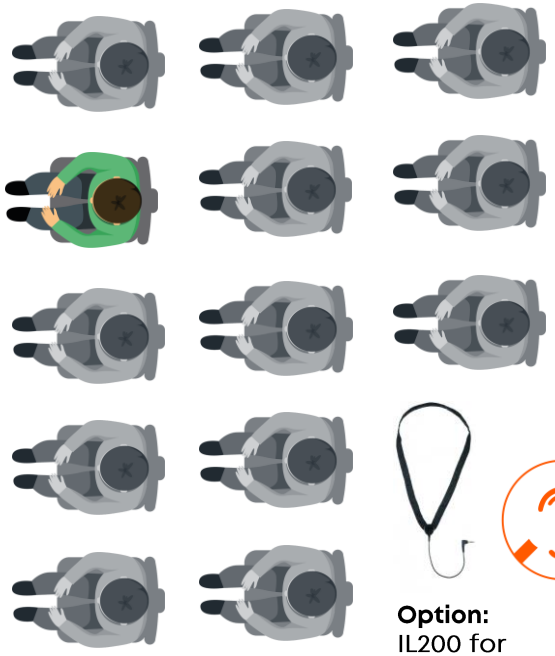
Audience

Receiver

Unite RP + DT2

Select individually:

Language 1
Language 2
Language 3
Language 4



Option:
IL200 for
assistive listening

beyerdynamic

digital

analog

DECT Connections

Broadcast

UNITE

SMALL EVENT WITH ASSISTIVE LISTENING (WITHOUT PA)

Speaker

Master

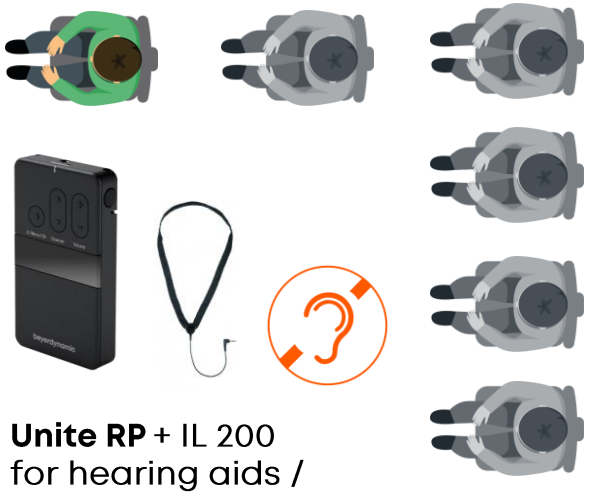
Unite TP + TG H56 (TG)

or

Unite TH

Audience

Receiver



Unite RP + IL 200
for hearing aids /
cochlea implants

beyerdynamic

DECT Connections

Broadcast

UNITE

ASSISTIVE LISTENING – INCLUSION FOR THE HARD OF HEARING

3rd party audio source
Dante or analog output

Dante™ analog

Input

Unite AP4
Master

or

3rd party audio source

USB-C Bluetooth® analog 3,5

Unite TP
Master

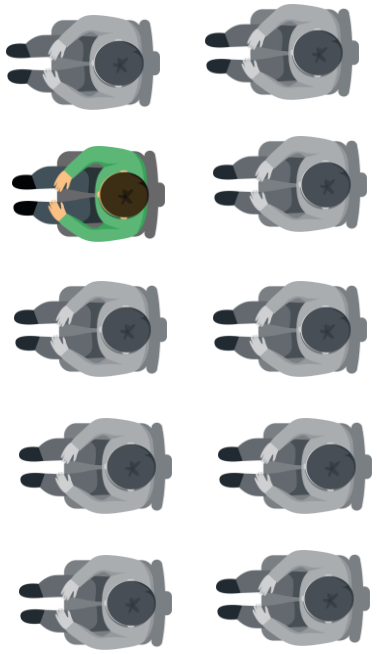
or

Unite TP + TG H56 (TG)

Unite TH

Audience

Receiver



Unite RP + IL 200
for hearing aids /
cochlea implants

Option:
DT 2 (without
hearing aids / CI)

beyerdynamic

digital

analog

DECT Connections

Broadcast

UNITE

SILENT PA – SELECT YOUR ONE OF 32

Speech 1

Master 1

Unite TP
+ TG-H56 (TG)

Speech 2

Master 2

Unite TH

Speech 3

Master 3

Unite TH

...

Speech 32

Master 32

Unite TH

Audience

(Receiver)

Select:
Speech 1
Speech 2
Speech 3 ...
Speech 32

Unite RP + DT2

Option:
IL200 for
assistive listening

beyerdynamic

DECT Connections

Broadcast

UNITE

DIGITAL MULTICHANNEL TRANSMISSION - SILENT PA WITH ACCESS POINT

3rd party audio source
Dante or analog output

Dante™
or
analog

Input 1-4

Unite AP4
Master

Content 1
DECT 1

Content 2
DECT 2

Content 3
DECT 3

Content 4
DECT 4

Audience
(Receiver)

Select:
Content 1
Content 2
Content 3
Content 4

Unite RP + DT2

Option:
IL200 for
assistive listening

beyerdynamic

DECT Connections

Broadcast

digital

analog

UNITE

WIRELESS INTERCOM – COMMUNICATE OVER 300 METERS

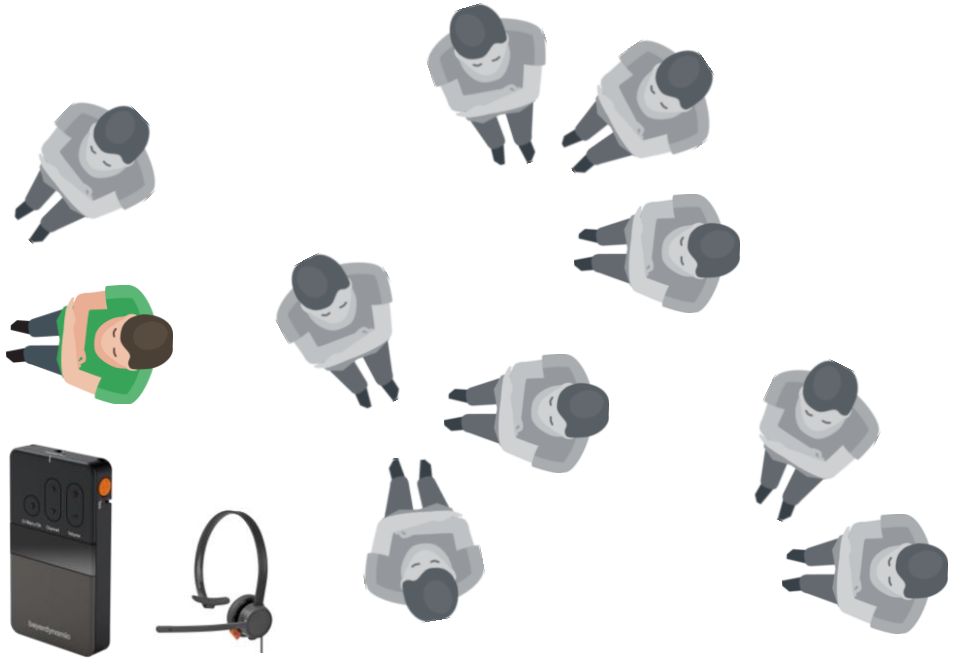
TRAINER/ COMMANDER

Master

Unite TP + HSP321

TEAM

Receivers with Talkback



Unite RP-T + HSP321

Talkback can be routed by the Master device to:

1. ALL = the whole group
2. Master device only
3. Master and all Sub-Master devices

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DECT Connections

Broadcast

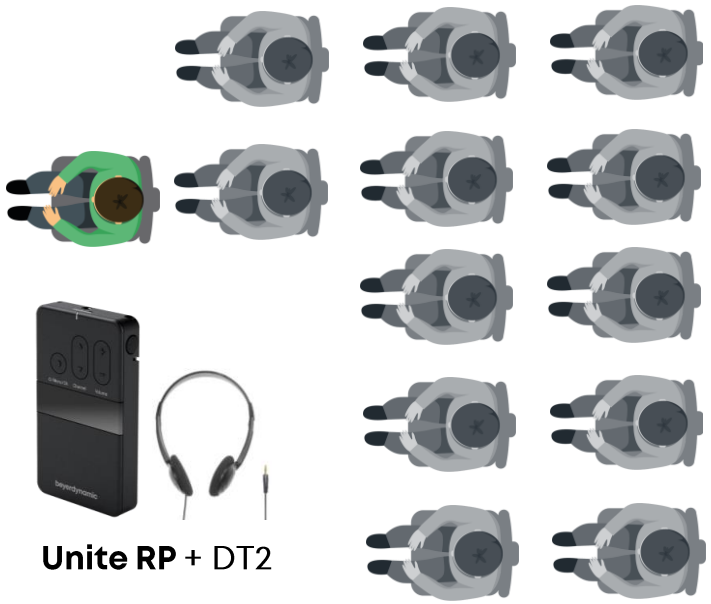
Full-Duplex

UNITE

BLIND COVERAGE – WITH TWO REPORTER AND MONITORING

Audience

Receiver



Unite RP + DT2

Unite TP
+ DT 287 Unite

Reporter 1

Master

Unite TP
+ DT 287 Unite

Reporter 2

Sub-Master

Sub-Master signal can be routed by the Master device to:

1. ALL = the whole group
2. Master device only
3. Master and all Sub-Master devices

beyerdynamic

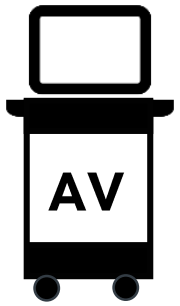
DECT Connections

Broadcast

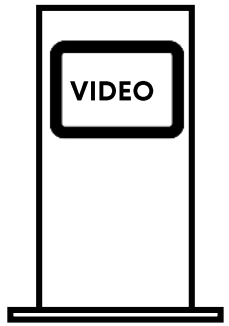
Full-Duplex

UNITE

LEGEND



Media rack

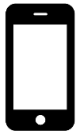


Screen

Laptop/PC

Unite Manager Software

Master/ Sub-Master

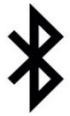


Smart device

Player

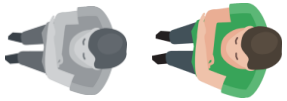
3rd party microphone

USB-C



Bluetooth®

Jack 3,5



Visitor (active)

DECT Connection: Broadcast

- Uni-directional (one way)
- One master device and unlimited receiver devices
- One speaker, many listener
- No backward channel

DECT Connection: Full-Duplex

- Bi-directional
- Just two devices communicate (point-to-point)
- Two devices can speak and listen simultaneously
- Like a DECT phone: Base station and mobile device
  With Unite: Unite RP-T talkback and sub-master connections to master

Hint

Assistive Listening

digital

analog

beyerdynamic

beyerdynamic

UNITE
THE PEOPLE

WWW.BEYERDYNAMIC.COM/UNITE

your beyerdynamic