

Buttons & Icons

Power / Gear button – press & hold a few seconds to power your WS-L ON or OFF – while WS-L is ON, click this button to rotate through the modes (RELAY, SKAA and K modes)

To make your WS-L into a Hub, use RELAY mode

To make your WS-L into a Satellite, use SKAA mode

*Volume Up button
controls local volume (affects this speaker only)*

*Volume Down button
controls local volume (affects this speaker only)*

Light FX button – click to rotate through all 12 Light FX options including 10 solid colors, animated effects, and OFF

This is the Bond Button - it illuminates in SKAA mode - this button is POWERFUL and there are 2 pages in this manual describing what it can do

Both the SKAA Bond indicator and the Bluetooth indicator illuminate in K MODE

RELAY icon illuminates in RELAY mode - in this mode your WS-L acts as a Hub; it receives Bluetooth audio from your device and RELAYs it out to up to 4 additional WS-Ls (Satellites)

*Bluetooth pair button and indicator – use this to get your WS-L paired with your phone. ** CHAD you may want to include details off all the click commands as per the BT connect states diagram*

*Track Control (works with SKAA and BT sources):
1 click – PLAY / PAUSE
2 clicks – NEXT TRACK
3 clicks – RESTART TRACK / PREVIOUS*

Getting started with one speaker

*Hold down the Power/
Gear button down for a
few seconds to power
ON/OFF your WS-L*

*Repeatedly click the
Light FX button to cycle
through 10 solid colors,
Animated FX and OFF*

*Repeatedly click the
Power/Gear button till this
RELAY icon lights up*

*If your phone is not
seeing WS-L, double click
the Bluetooth button*

*Pause / Play music by
clicking the Track Control
Button*

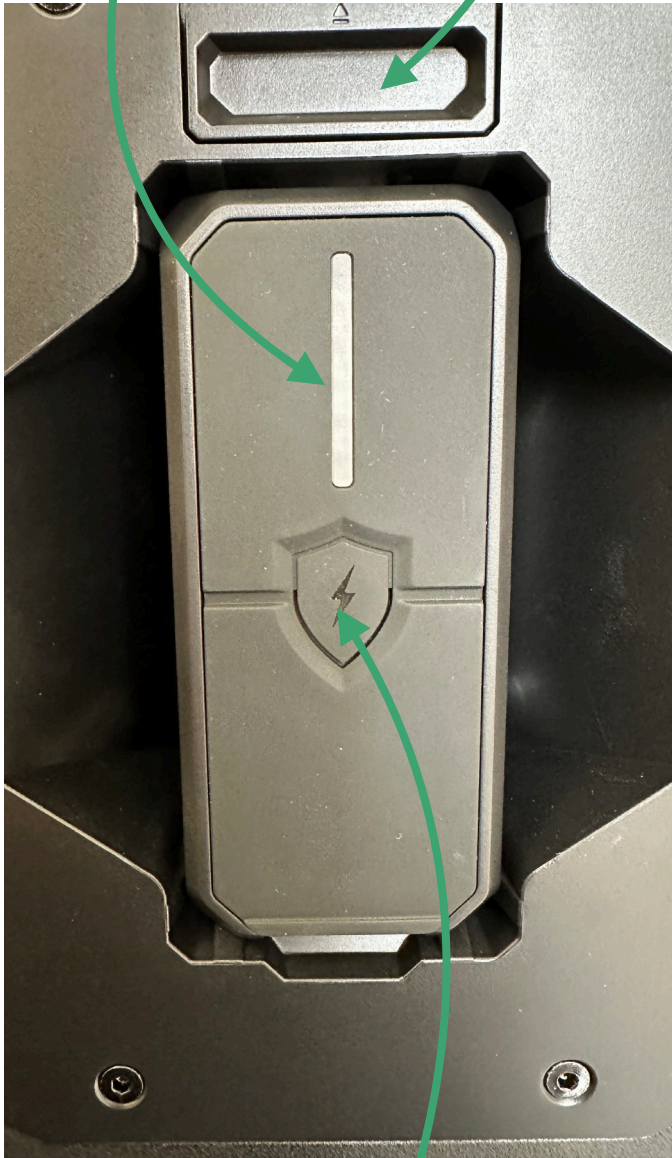
- Click the Battery Cartridge button – if you don't have at least 2 bars of battery life, charge your Battery Cartridge first (see Battery Charging page)
- Using the App is optional – we'll get to it later – let's get you started playing music on your new WS-L first
- Power ON your WS-L by holding down the Power/Gear button for a few seconds
- A bright red Power/Gear means WS-L is ON
- A dim red Power/Gear means WS-L is sleeping
- Make sure your WS-L is in RELAY mode – if the RELAY icon (ball with arrow icon) is not illuminated on the Bluetooth button, repeatedly click the Power/Gear button until you see it light up
- When you see the word "click" in this manual, it means a button press that's short – it means "press and immediately release the button"
- Your WS-L is now ready to pair Bluetooth with your phone – pair it up
- Use the volume buttons on your phone to set it to about 1/4 volume
- Play some music on your phone
- Turn up the volume on your phone
- Turn up the volume on your WS-L speaker
- Click the "+" button to increase the volume and the "-" button to decrease it – 30 clicks will take you from zero volume to full up
- The Bond Indicator will flash as you click WS-L's volume buttons – it will flash for each of the 30 steps - when it stops flashing, you've reached one extreme or the other
- Remember, the actual volume level of WS-L depends on BOTH its Local Volume (controlled by WS-L's volume buttons) and the Global Volume (controlled by the volume buttons on your phone) ... so turn BOTH up
- Power OFF your WS-L by holding down the Power/Gear button for a few seconds
- NOTE – WS-L will "remember" most settings and will power ON next time in the same state it was in when you powered it OFF. This applies to Mode, Local Volume level, Light FX setting, as well as many other things.
- If you add Satellite speakers to your network, your Hub (WS-L in RELAY mode) uses latency correction to synchronize all your speakers. So music comes out from your Hub and Satellite speakers at *exactly* the same time – see Adding Satellites in this manual for more info.
- Check out the "sweet hookups" – a collection of use case diagrams at the end of this manual – they're just the tip of the iceberg but we bet at least a few of them will inspire you to try some crazy-ass stuff with your WS-L

Battery

this stack of white LEDs is the Battery Fuel Gauge

Battery Cartridge Latch

click the Battery Cartridge button once to display the battery life remaining

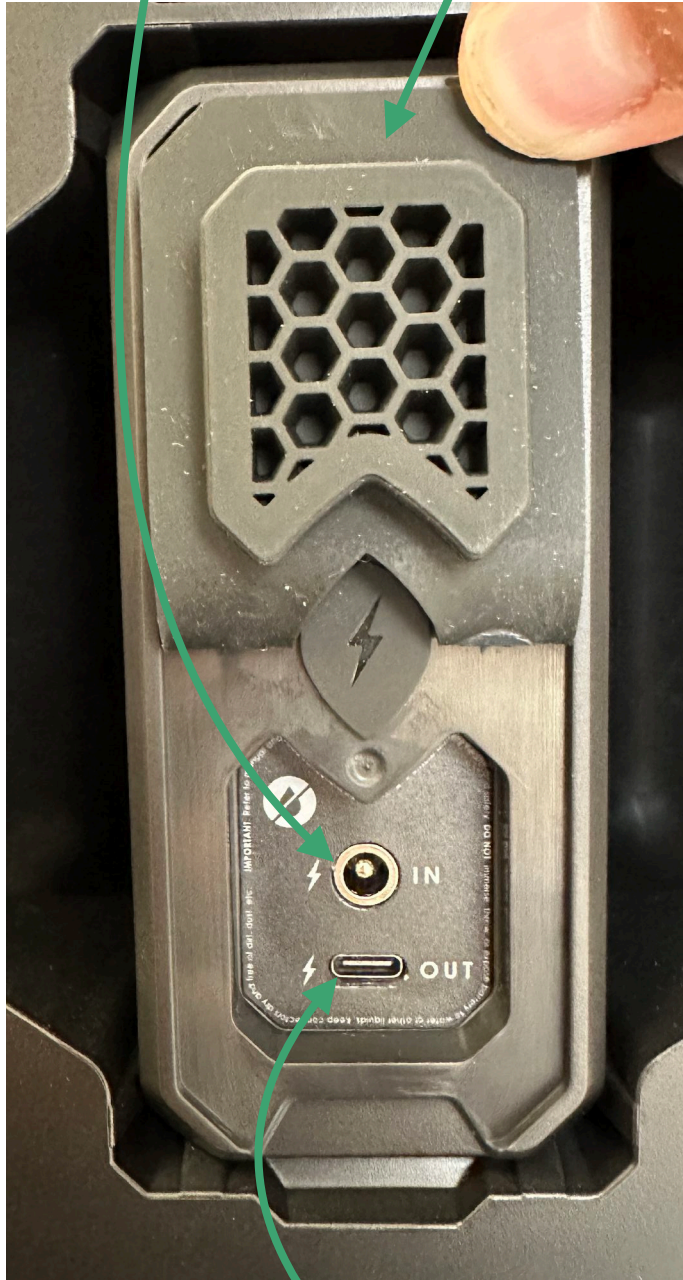


- WS-L runs for about 25 hours at normal listening level, 40 hours at background level, or 9 hours flat out
- Some battery speakers from well-known brands waste up to 20% of their battery energy in a voltage conversion process – we think that's nuts, so we don't do it that way. We chose WS-L's audio amplifiers specifically so wasteful boost conversion isn't needed
- The Battery Fuel Gauge (LED stack) activates when you click the Battery Cartridge button. WS-L can be ON or OFF; it doesn't matter. The Battery Cartridge can be inserted in WS-L or not; it doesn't matter.
- When about 3% battery life remains, the bottom LED in the Fuel Gauge stack will start flashing in red color– no click on the Battery Cartridge button is needed to get this "low battery" (flashing) alert. NOTE this alert only happens when the Battery Cartridge is inserted in the speaker.
- WS-L automatically powers OFF when the Battery Cartridge is fully depleted
- When the Battery Cartridge is charging, the top LED in the stack will glow orange – even if WS-L is OFF
- Once charging has finished, this orange top LED will turn off, letting you know that WS-L's battery is fully charged
- If WS-L remains inactive for a period of time, it will enter a power saving sleep mode (WS-L's power LED will be dim during sleep)
- If the Brick Power Supply is plugged in, WS-L will stay in sleep until you start using it again
- However if the Brick Power Supply is NOT supplying external power, WS-L will eventually power itself OFF and you'll have to power it back ON manually to use it again
- Slide the Battery Cartridge Latch up with one hand and pull the Battery Cartridge straight back with your other hand to remove the Battery Cartridge from your WS-L
- To insert the Battery Cartridge into your WS-L, orient it with the fuel gauge (LED stack) on top and slide it into the bay – when you hear the satisfying clunk you'll know the eagle has landed
- What happens if you, or more likely your bestie, inserts the Battery Cartridge upside down, possibly due to indulgences in excess? Nothing bad ... WS-L will pump out the tunes just as well with an upside-down Batt. We've got your back.
- Nine hours of balls-out play time not enough? Just buy yourself a spare battery and bring that up to 18 hours. And this way, you can have one charging while the other one is peeling the paint – swap them as needed, bringing you up to infinity hours.
- IMPORTANT – your WS-L is only fully waterproof when you have a Battery Cartridge inserted and fully clicked in

Battery Charging & Type C Out

Plug in only the included 60W Brick Power Supply here to charge up the batt

Lift the rubber flap up from the bottom like so to reveal the power jacks



use this Type C charge port output to charge your phone

You can continue to use WS-L while charging, even when playing at full volume!

- Access the Power Jack and the Type C Out by lifting the rubber flap on the user interface panel of the Battery Cartridge
- Use only the included Brick Power Supply for charging
- The battery will charge to full in about 3 hours (from fully depleted)
- You can use WS-L while charging
- Using WS-L at normal listening levels or background levels while charging will NOT increase your charge time
- Using WS-L at high volume levels while charging will increase your charge time by around 3x
- Feel free to charge your Battery Cartridge while it's inserted in WS-L, or not inserted. It doesn't matter.
- When the Battery Cartridge is charging, the top LED in the stack will glow orange – even if WS-L is OFF
- Once charging has finished, this orange top LED will turn off, letting you know that WS-L's battery is fully charged
- With the Brick Power Supply plugged in, if the WS-L is not being used, it will after a while enter sleep state – and it will stay sleeping perpetually until Bond is restored (SKAA mode), or audio comes back (RELAY mode) or either of these happens (K mode), causing WS-L to wake up and start playing audio again
- However, if the Brick Power Supply is NOT supplying external power, WS-L will eventually power itself OFF completely and you'll have to power it ON by manually pressing and holding the Power/Gear button
- Feel free to charge your Battery Cartridge while it's inserted in WS-L, or not inserted. It doesn't matter.
- If your phone is in need of power, you can charge it from the Battery Cartridge by using a Type C to Type C cable or a Type C to Lightning cable. Make sure the Battery Cartridge is not empty first – click the button to check the fuel gauge.
- For charging your phone, the Battery Cartridge can be inserted in the speaker, or not. It doesn't matter.
- Once you connect a cable to the Type C charge out port, the charging feature will activate and you should see the usual 'charging indication' on your phone
- If your phone doesn't give you the usual 'charging indication', click the Battery Cartridge button which will also activate the Type C charging feature
- IMPORTANT – your Battery Cartridge is only waterproof when it is fully clicked into your WS-L speaker AND it's rubber flap is fully seated, sealing the jacks area

Adding Satellite Speakers

- This section is about adding Satellite speakers to your WS-L Hub by using the SKAA wireless networking technology built in to all WS-L speakers
- Start by playing music on your Hub speaker – set that speaker up in RELAY mode (just follow the instructions on the Getting Started page)
- Next we're going to add a Satellite WS-L speaker and make a 2-speaker network:
- Make sure your Satellite's Battery Cartridge has at least 2 bars of life. Power ON your speaker by holding down the Power/Gear button for a few seconds.
- Set it to SKAA mode by repeatedly clicking the Power/Gear button until the SKAA button illuminates
- It's highly likely that your Satellite speaker will just immediately Bond to the Hub speaker and start playing music
- You may need to turn up the volume on your Satellite speaker to hear audio
- You can tell your Satellite speaker is Bonded to a SKAA source by looking at the Bond Button – it will glow bright when Bonded and dim when not
- If your Satellite doesn't Bond to the Hub immediately, double click the Bond button to enter Amber "Explore" mode (if you happen to Bond to the wrong device, repeat this step until you hear the same music that's coming from the Hub)
- Once Bonded successfully to the Hub, you'll want your Satellite to remember the SKAA transmitter (in this case, the Hub speaker) by saving it to the Green List – do this by holding down the SKAA Bond Button on your Satellite until it turns green
- You're done – now you can balance the volume between the Hub and Satellite by using the volume buttons on each of the two speakers
- Now add some more Satellites – repeat the above steps with additional WS-L speakers – you can make a giant network of a Hub plus 4 Satellites if you wish (we call that a 5-speaker "Nadja cell")
- Your Hub (WS-L in RELAY mode) uses latency correction to synchronize everything. So music comes out from your Hub and Satellite speakers at *exactly* the same time.

More SKAA Bond Button functions to try

- Triple click (click 3 times, fast) to mute WS-L's output. Triple click again to unmute.
- Double click to search for a new transmitter; one that's not on your WS-L's Green List (favorites list). Once WS-L has Bonded to a new transmitter, its Bond Indicator will glow bright Amber.
- If you have more than one SKAA transmitter stored on your Green List, click the SKAA Bond Button to cycle through them
- Press and hold the Bond Button for a few seconds to add an Amber-Bonded transmitter to the Green List (to "remember" it). The Bond Indicator will glow bright Green. WS-L memorizes the transmitter as a "favorite" and will look for it specifically the next time you power ON.
- See the SKAA Receiver User's Guide later in this manual for more Bond Button / Bond Indicator features and functions

SKAA Bond
Button



Advanced

K Mode

- The K in K-Mode stands for Karaoke
- You can use a SKAA microphone, SKAA guitar transmitter, or a SKAA Pro transmitter connected to a keyboard to sing or play through your WS-L speaker
- And you can play background Bluetooth music to your WS-L at the same time
- Your WS-L speaker mixes audio from your SKAA mic (or guitar) with the background music and plays the combined audio out
- To set your WS-L to K mode, click the Power/Gear button repeatedly until both the SKAA Bond Button and the Bluetooth button are glowing
- You can use the methods in the previous pages to Bond to a SKAA source and pair/connect with a Bluetooth source, AT THE SAME TIME
- Use the volumes on both sources to find the right blend (mix) of the two audio sources
- Use the volume buttons on the WS-L speaker to set the master volume (both the Bluetooth and SKAA audio will be affected by this)
- NOTE – if you find the SKAA source is too quiet, set the WS-L temporarily to SKAA mode, crank the volume (use the speaker's + volume button), then go back into K mode and try again

Compatibility with a world of SKAA sources

- Setting your WS-L to SKAA mode opens up a whole world of possibilities
- Pining for the venerable AUX in jack? Or proper +4 dBu balanced pro line level inputs? Hate Bluetooth audio? Read on.
- You can feed your WS-L speaker directly from one of many SKAA transmitters and eliminate the Bluetooth link entirely
- WS-L natively supports the professional Dani SKAA/SKAA Pro transmitter as well as all other SKAA wireless audio transmitters and sources – your choice, feed your WS-L speaker in SKAA mode from another WS-L speaker (in RELAY mode), or from a dedicated SKAA transmitter – your WS-L can do both.
- If you have friends with other SKAA-based speakers, such as Soundboks (3,4 or Go) or SKAA speakers from Electrotec, Cerwin Vega and other brands, you can network them all together and build up a huge system for your party – yes, all those brands will work together seamlessly with your WS-L
- Check out the “sweet hookups” – a collection of use case diagrams at the end of this manual – they’re just the tip of the iceberg but we bet at least a few of them will inspire you to try some crazy-ass stuff with your shiny new WS-L

Both the SKAA Bond indicator and the Bluetooth indicator illuminate in K MODE



App

Wet Sounds SKAA cmd ("SKAA command") is The App You Don't Really Need. If you never download it, never install it, and never launch it, your WS-L will still work just hunky dunky. But once you learn about what Wet Sounds SKAA cmd can do, you might just *want* it...

Add custom names to speakers, easily mute any or all of them, adjust individual speaker volumes in your SKAA network, see which Satellites are Bonded to your Hub and more.

Wet Sounds SKAA cmd App is available for iOS and Android. Download it from Apple's App Store and Google Play.

Each Hub speaker offers 4 Bays (gray section). You can Bond a single Satellite speaker or a Cluster of them into each Bay. In this example, 3 of the 4 Bays are occupied, each with one speaker. All of the WS-L speakers Bonded in these Bays are in SKAA mode.

Click here to change the name of a speaker

Local Volume. Slide a fader to change the volume of a speaker. This is the same as clicking the +/- volume buttons on your speaker. NOTE: the speaker's volume is also affected by Global Volume (the bottom fader)

Click here to go to page 2 where you can access EQ and Light FX presets. Only Wet Sounds speakers will show this triangle.

Click here to select Left, Right, Mono Mix or Stereo audio. Since WS-L is a single-channel speaker, the stereo option is hatched out. From the factory, WS-L is set to Mono Mix audio (downward firing speaker). Make one WS-L Left and another WS-L Right if you want to make a stereo pair.

Click to Mute/Unmute this speaker

Click to change your Hub speaker's name

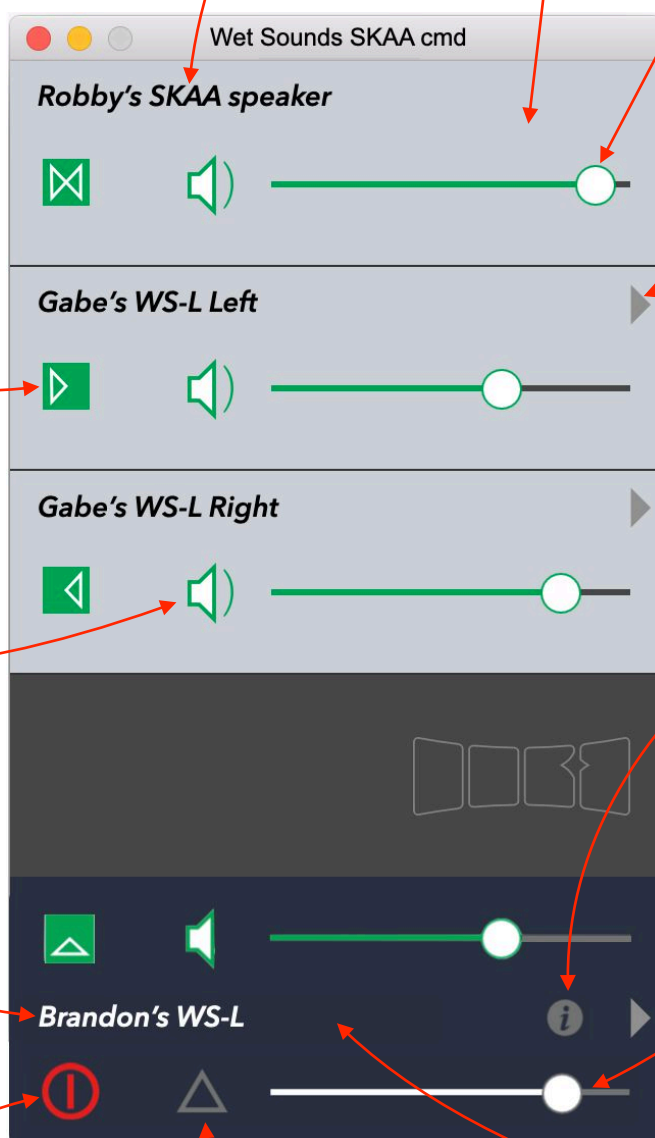
To set the Power Mode for the Hub's SKAA transmitter function, click here
RED: Always ON
GREY: Always OFF
WHITE: ON only when there is audio

Click this triangle to mute all the speakers at once – to unmute them, click the individual speaker icons to bring them back on (unmute them)

Click the "i" to see the SKAA cmd app version and the Hub firmware version

Global Volume control. Use this fader to control volume over all the speakers at once (affects the Hub and all bonded Satellites)

This blue bottom section is for your Hub speaker. This is the speaker you've got set to RELAY mode. This is the speaker your phone is connected to with Bluetooth.



App (page 2)

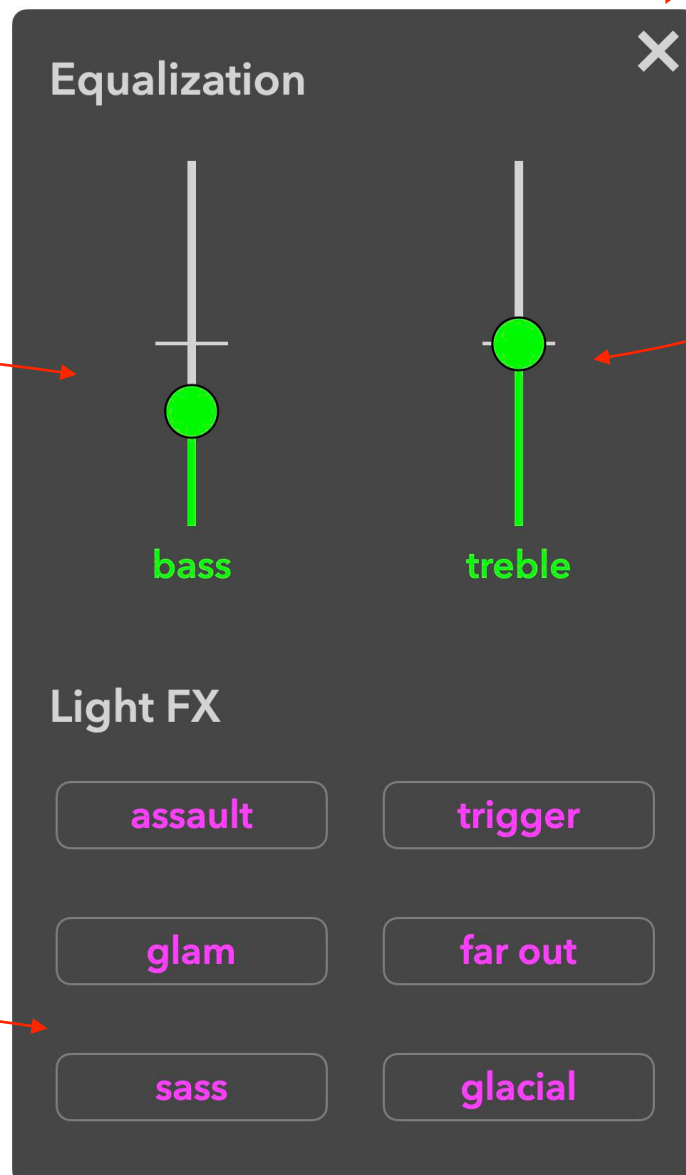
This screen appears when you click a triangle on the far right hand side of the main Wet Sounds SKAA cmd screen. NOTE: Wet Sounds SKAA cmd app works with all SKAA speakers, but this page 2 is only available for Wet Sounds WS series party speakers.

Click here to return to the main page (page 1) of Wet Sound SKAA cmd

To return your WS-L's EQ to its factory setting, just slide the bass and treble controls to their middle position

Slide the bass and treble controls to adjust EQ. The new levels are automatically sent to your WS-L speaker. This adjusted EQ will stay active in your WS-L until you change it again with this App.

Click here to select a Light FX preset and send it to your WS-L speaker. It will stay active in your WS-L until you change it again with this App.



To see your Light FX setting working on your WS-L, you'll need to repeatedly click the Light FX button on your WS-L speaker till you reach Animated FX – this button cycles through 12 available settings including OFF, 10 solid colors and Animated FX.

SKAA® RECEIVER USER'S GUIDE

Each SKAA receiver uses a *Green List* to remember your *favourite* audio sources (SKAA transmitters). A Green glowing Indicator on your receiver means you are listening to a favourite, or hunting for one. You can also *explore* to find new transmitters—an Amber Indicator means you are *exploring* for transmitters which are not on your Green List. The  Bond Button on your receiver lets you select which audio source (SKAA transmitter) you're listening to.

Essentials

 Button	Command	Indicator
Hold a few seconds	<u>Add / Delete</u> Manually add / delete the current transmitter to / from your Green List	 to  = Added  (flash) = Deleted
-	<u>Auto Add</u> SKAA will automatically add the current Amber transmitter to your Green List if you listen to it for 30 minutes	 to  = Added
1 Click	<u>Green Mode</u> Rotate through your list of <i>favourite</i> transmitters (Green List) — when a favourite transmitter is found, the search stops and audio plays from that transmitter	 (dim) = Hunting  (flash) = Next one  (bright) = Bonded
2 Clicks	<u>Amber Mode</u> <i>Explore</i> for new, unknown transmitters (ones which are not already on your Green List)	 (dim) = Hunting  (bright) = Bonded

More Commands

 Button	Command	Indicator
3 Clicks	<u>Mute</u> do again to Unmute; any Click command will first Unmute and then do its function	 ,  or  = Muted (slow flash)
4 Clicks	<u>Red Mode</u> If you have 2 or more transmitters on your Green List, power on just the one you want to hear and it plays automatically.	 (dim) = Hunting  (bright) = Bonded
6 Clicks	<u>Factory Reset</u> Clear Green List. Start Over!	 (flash) = Reset Done
Hold during power on	<u>Make a Cluster of Receivers:</u> 1. Power off all transmitters and receivers 2. Power on the Master receiver while holding down its Bond Button—hold the button down until the Indicator begins to flash Red 3. With the remaining receivers within 3 meters of the Master receiver, power on the first one, wait for its Indicator to flash Red and then power on the second one; continue until all of them are powered on 4. Once all of the Indicators stop flashing (turn solid Red), power off all of the receivers	 (flash) = Receiver has entered 'Cluster Up' mode  (bright) = The Cluster has been successfully made



QUESTIONS AND ANSWERS

Question	Answer
How does the Green List work?	You can store up to 10 SKAA transmitters on your Green List. These are your “favourite” audio sources. Every time you add a transmitter, it is assigned the first open spot on the Green List. When you single click the  Bond Button, the receiver hunts through the Green List much like a car radio hunts for radio stations when you press seek. If the Indicator is dim Green and flashes every few seconds, this tells you the receiver is hunting through the Green List. Say you have 5 transmitters on your Green List; your receiver will hunt through the list one by one: 1, 2, 3, 4, 5 and then back to 1 and so on. The dim Green Indicator flashes every time the receiver moves to the next spot on the list. This hunting goes on for up to 1 minute. If your receiver doesn't find any of your favourite transmitters, it stops hunting and just waits for the last bonded favourite. If your receiver does find one of your favourite transmitters, the hunting stops, the Indicator turns bright green, and your receiver starts playing audio from that favourite. A dim Green Indicator that is NOT flashing means the receiver is just sitting on one spot, waiting for a specific favourite transmitter to show up.
How do I bond with a specific Green transmitter?	Play audio from your source device and ensure it has a SKAA transmitter connected. Click the  Bond Button on your receiver. The receiver hunts through the Green List, flashing the Indicator as it goes. Once your receiver finds one of your favourite transmitters, it bonds to it and plays audio from that transmitter. If that isn't the transmitter you wanted, click the Bond Button once more. Repeat until your receiver bonds with the transmitter you want and you're hearing the correct audio playing.
How do I select transmitters if I can't reach my Bond Button?	Say you want to put your receiver on a high shelf where you can't reach the Bond Button easily. First, set up your Green List: add all of the transmitters you'll want to use. Then 4-click the  Bond Button to enter Red Mode. Now put the receiver up on the high shelf. Power on just one of your transmitters and power off all others. The receiver automatically bonds to the transmitter that's on.
How do I delete a transmitter from my Green List?	Factory Reset (6 Clicks of the Bond Button) clears the Green List and lets you start over from scratch. If however, you'd like to delete just one transmitter from your Green List, first bond your receiver to the transmitter you wish to delete. See the section above: How do I bond with a specific Green transmitter? . Once you are bonded to it, hold down the  Bond Button for a few seconds until you see the Indicator flash Red –this Red flash means the transmitter has been deleted.
What is a Cluster?	Clusters are an optional convenience for “power users”. A Cluster is several SKAA receivers behaving as one product. A left & right speaker pair, for example, or a sound bar and subwoofer.
What is the Master receiver?	In any Cluster, there is a single Master receiver, and all of the other receivers in the Cluster follow its behaviour. You can control the entire Cluster by operating the  Bond Button of the Master. A receiver must have a physical Bond Button in order to become the Master.
How do I “uncluster” several receivers?	Do the Make a Cluster of Receivers procedure once for each receiver, but omit Step 3. Do them one at a time. This gives each of the receivers a functioning  Bond Button, and each of them will thereafter operate independently.
What are some tips for making Clusters?	Each step in the Make a Cluster of Receivers procedure has a 10-second time limit. When you see the Master's Indicator start to flash Red, you have 10 seconds to power on the next receiver. When that receiver's Indicator starts to flash Red, you have 10 more seconds to power on the next one, and so on.
Why does only one of my Bond Buttons work?	When you make a Cluster from several receivers, the first one powered on in the Make a Cluster of Receivers procedure becomes the Master of the Cluster. Only the Master's  Bond Button works because a Cluster uses just one Green List –the Master's Green List. The Bond Button of each of the other receivers will work only for the Mute / Unmute function (3-Click of the Bond Button).
Can any group of receivers be made into a Cluster?	No. The receivers must be members of the same product family. If they are not, the Make a Cluster of Receivers procedure won't work. This is because only receivers which were designed to work together (as a single product) can be made into a Cluster.

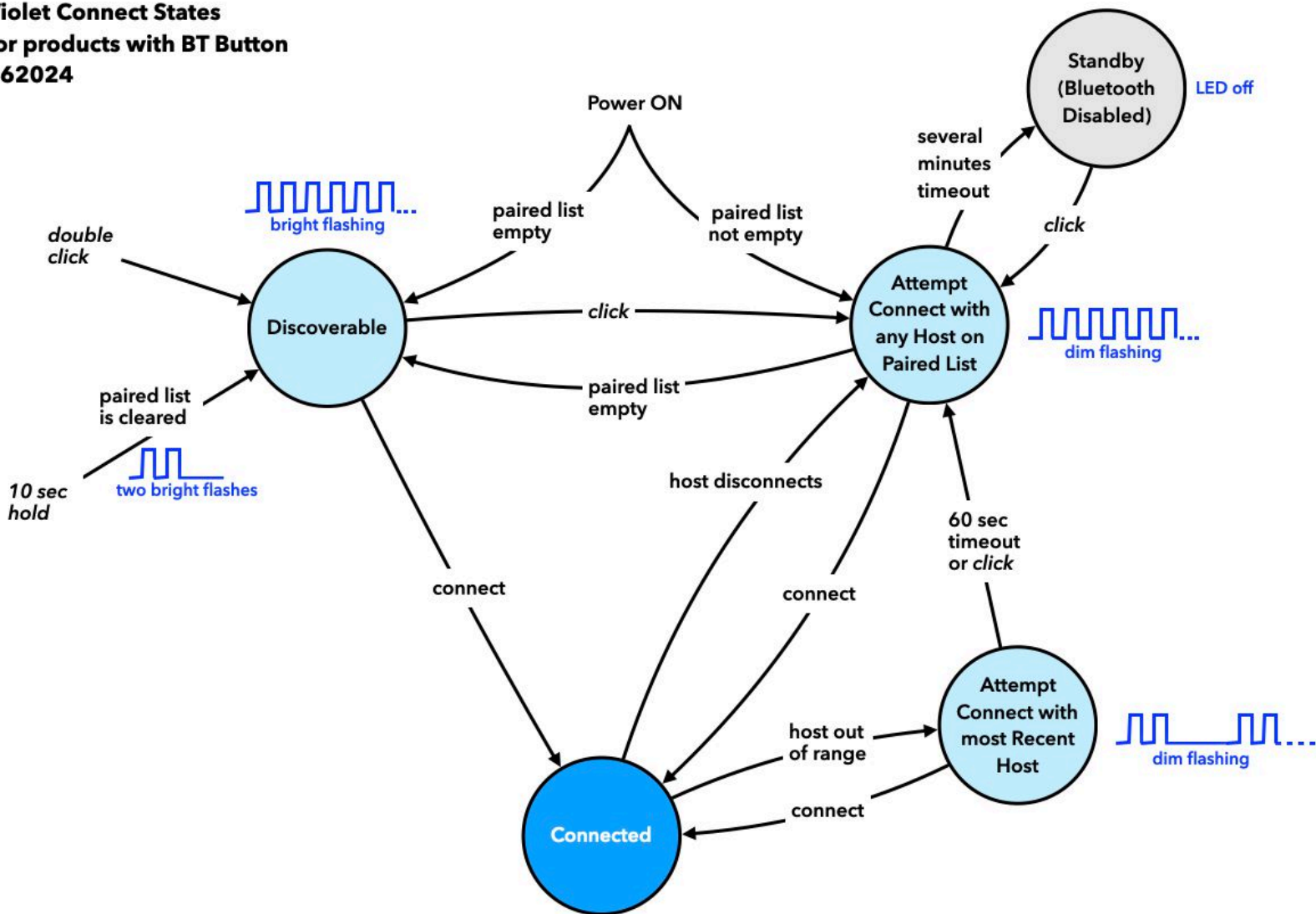
specifications

Parameter	Conditions	Value
Cabinet Construction		Rotomold enclosure with ABS grilles and features
Water / Weather	Battery Cart fully inserted, flap seated	IP67 waterproof to 1 meter
Battery Cartridge		115 Wh, 22.8V, 12-cell Li-ION removable battery
Type C charge out	Located on Battery Cartridge	1A at 5V charging is available
Run Time	Normal / Background listening	23 Hours / 40 hours
Run Time	Full Volume	9 Hours
Charge Time	From Empty	3 Hours
Amplifier Power		144W RMS (2 x 72W Infineon Merus Amplifier ICs)
Amplifier Type		Multi-rail Class D
Heat Sink		aluminum block to external aluminum plate
Woofer		10" diameter, rubber surround, PP cone, 4Ω
Tweeter		concentric mount, compression driver, horn, 6Ω
Passive Radiators		2 x 10", rubber surround
Frequency Response		** 45Hz - 20kHz
Acoustical Max Level		** dB SPL
THD+N		**
SNR		**
Digital Resolution	each of 2 available channels	48 kSamples/s, 16 bit
SKAA Antenna Type		FE Model B0
RF Power	Maximum	+18 dBm
SKAA Range	Actual range depends also on the actual antenna performance of the SKAA device on the other side	Up to 50 meter reliable range
Bluetooth Range	Range depends phone – applies to most Apple / Samsung phones	Up to 20 meter reliable range
Inputs		SKAA or SKAA Pro wireless audio source, Bluetooth source
SKAA Compatibility	Other side must be a SKAA or Nadja device running SKAA OS 2.1 or later	SKAA OS 2.7
Bluetooth Compatibility		BT 5.3 including BLE data connection to phone
SKAA Transport Latency	I2S Digital to I2S Digital, SKAA	36.71ms +/- 1.5 samples
(cont.)	I2S Digital to I2S Digital, SKAA Pro	19.39ms +/- 1.5 samples
Max Receivers	Concurrent per transmitter	4 (with SKAA source) , 2 (with SKAA Pro source)
Dimensions	Speaker (unpacked)	381 x 406.5 x 483 mm or 15 x 16 x 19"
(cont)	Speaker in packaging	472 x 455 x 576 mm or 18.6 x 17.9 x 22.7"
Mass & Weight	Speaker (unpacked)	11.8 kg or 26.0 lbs
(cont)	Speaker in packaging	15.8 kg or 34.8 lbs
Power Supply Rating	External floor brick type	Input: 100-240 VAC, 50/60Hz, Output: 26V 60W

**The following 3 pages
are for reference only**

Using the Bluetooth Button and Indicator

Violet Connect States
for products with BT Button
062024



Wet Sounds Party Line
HUB: Operational Modes

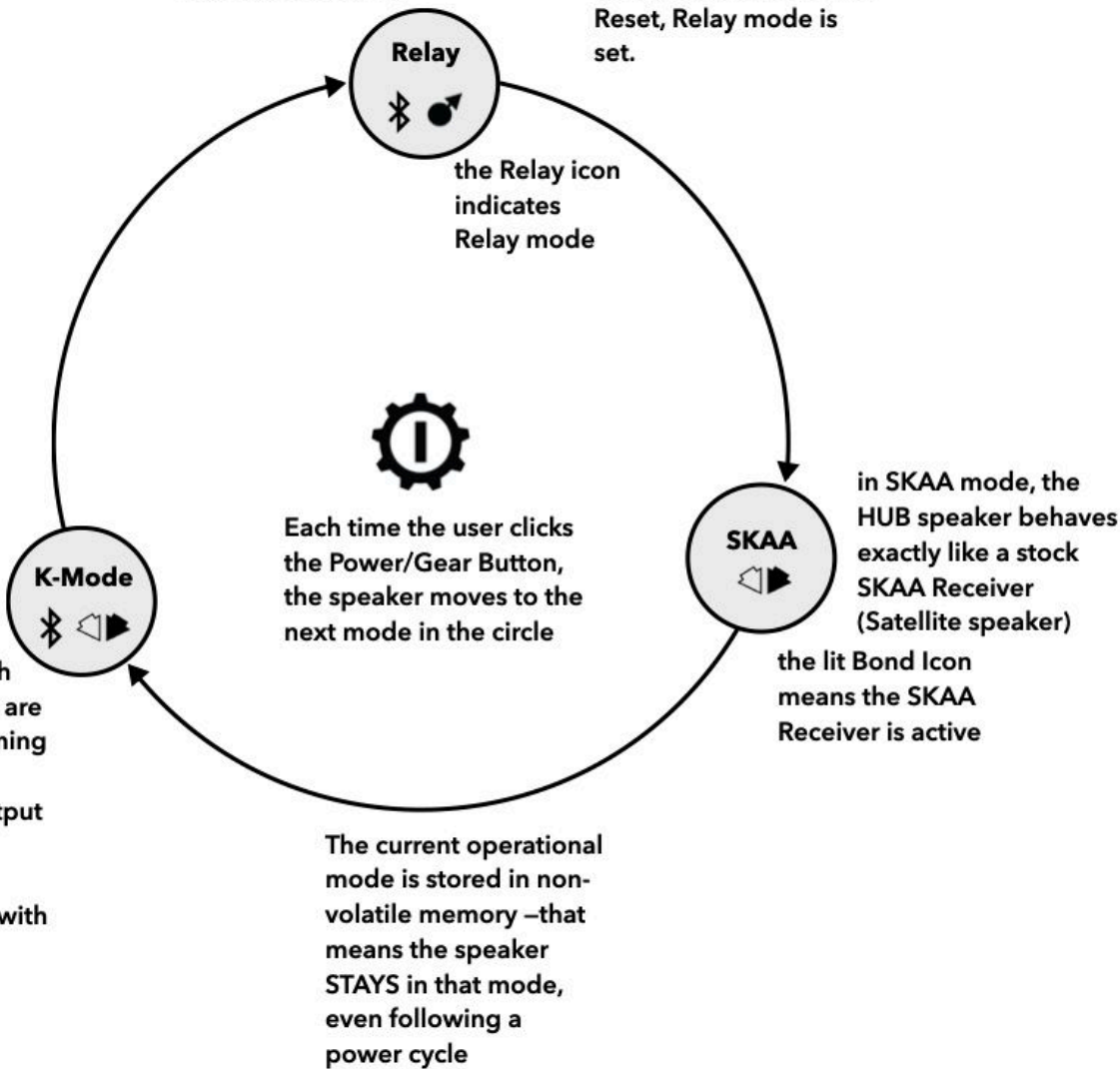
Confidential Info
Eleven Engineering Inc.
081022

The UI lets the user know which mode is active; if the BT and Relay LEDs are lit, then the mode is Relay, for example

K-Mode
K is short for Karaoke. Both the SKAA and BT receivers are enabled and the two incoming audio streams are mixed together prior to being output to the speaker. So a SKAA mic, SKAA guitar or other instrument can play along with a BT backing track, for example.

in Relay mode, the Hub speaker accepts BT audio and Relays that audio to up to 4 Satellites (SKAA receivers). The Hub speaker also 'latency corrects' the BT audio and outputs it itself.

The factory default mode is Relay – when the speaker is powered up for the first time, it's in Relay mode. If the user performs a Factory Reset, Relay mode is set.



Wet Sounds Party Line
Power States

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072324

Notes

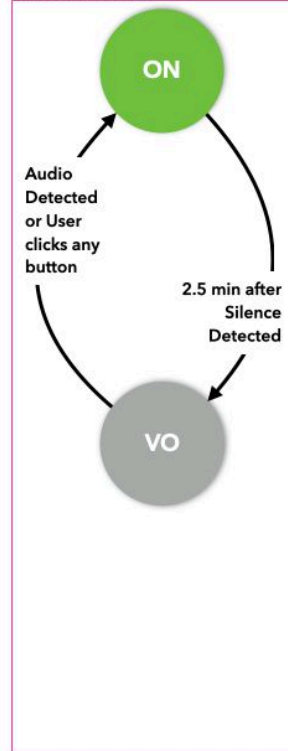
- Rocky is based on SKAA Nadja tech and therefore it is capable of being BOTH a SKAA receiver and a SKAA transmitter in different modes.
- “VO” means Virtual Off –this is a power saving state for SKAA transmitters, triggered by lack of audio (silence)
- In VO state, the Nadja LS SiP’s RF section is shut off causing all Bonds to drop (all Bonded SKAA receivers are dropped)
- “Standby” is a power saving state for SKAA receivers.
- in Standby state, as many chips on the motherboard as possible are shut off
- “Sleep” is a power saving state for SKAA receivers; Sleep is triggered by a loss of Bond
- In Sleep state, the SKAA receiver improves on the power saving performance of Standby state by also duty cycling the SKAA radio; during Sleep the SKAA Indicator also shuts off
- Re-establishing Bond from Sleep state can take up to 3 x longer than usual (up to 6 seconds versus the typical 2 seconds).
- Powering off certain chips will be effected by holding them in RESET
- ON/OFF is achieved by a press & hold of the Gear/Power Button by the user (note manual ON/OFF transitions are not shown in these power state diagrams)

Chip Power

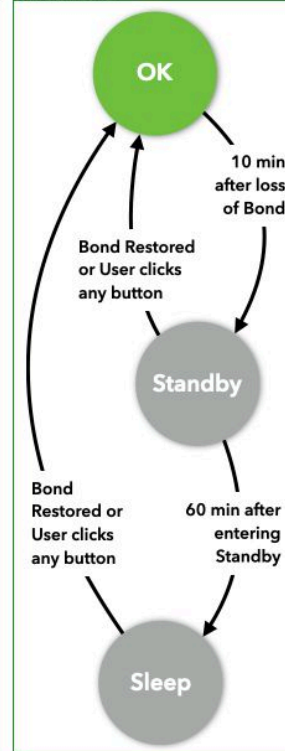
Chip:	Nadja MCU	Nadja BT	Nadja SKAA	DSP	D-Amps	Source Tuner Chips	Bond Indicator	Power LED
ON	√	maybe	√	√	√	√ in aux relay	-	Bright
VO	√	maybe	RF off	-	-	√ in aux relay	-	Dim
ON SKAA	√	-	√	√	√	-	√	Bright
Standby	√	-	√	-	-	-	√	Bright
Sleep	√	-	RF 33% duty cycle	-	-	-	-	Dim

External Power Present

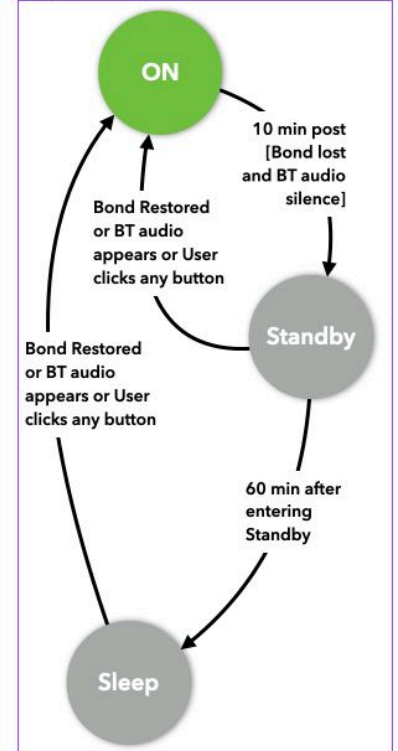
All Relay Modes



SKAA mode

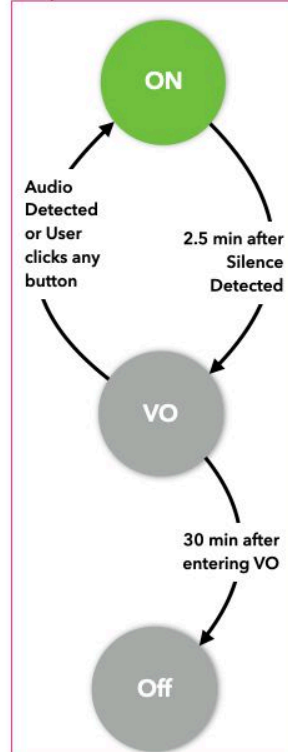


K mode

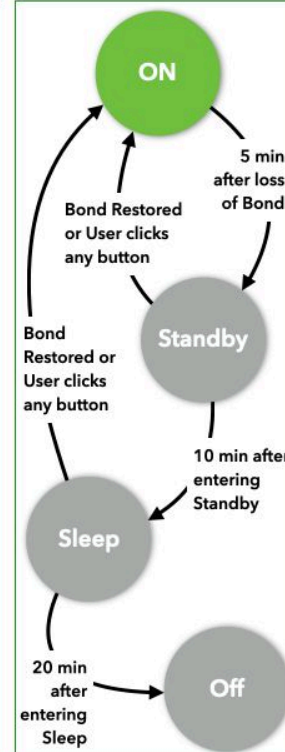


Battery Operation

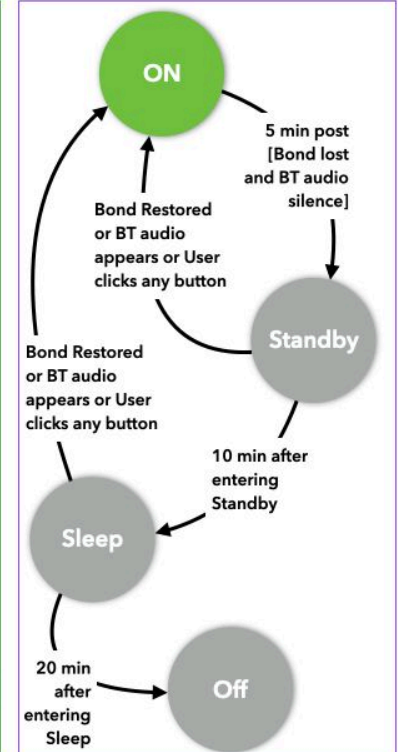
Relay Mode



SKAA mode



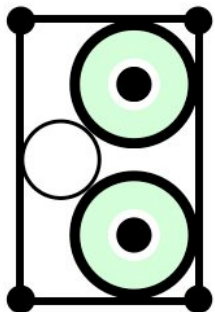
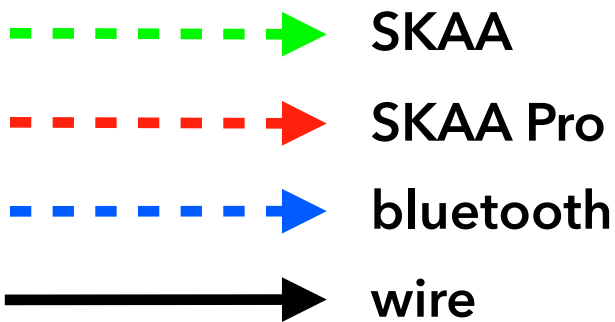
K mode



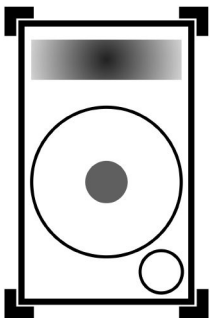
The Sweet Hookups

- In case you're in need of some inspiration, here are a few ideas for how you can use your new WS-L and how it can network seamlessly with the rapidly growing ecosystem of SKAA-based products from Wet Sounds and other brands
- Consider each of these use cases an idea – a starting point you can add to or subtract from as you wish

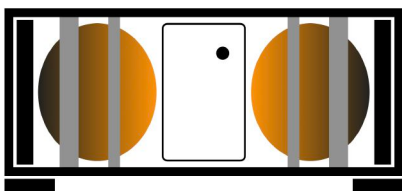
Legend



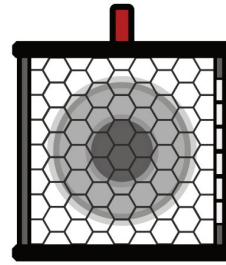
SKAA Speaker
(Hub or Satellite)



any powered
speaker



SKAA
subwoofer



WS-L

Mode	Icon		Role
Relay			Hub
SKAA			Satellite
K			Karaoke

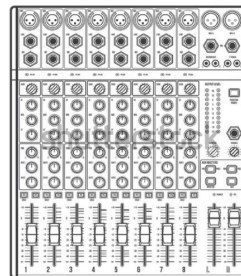
 SKAA Transmitter



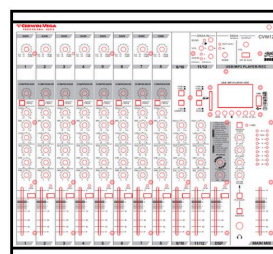
Wet Sounds A-Link Plus
(Transmitter / Receiver)



SKAA Pro
Transmitter or Receiver



any
mixer



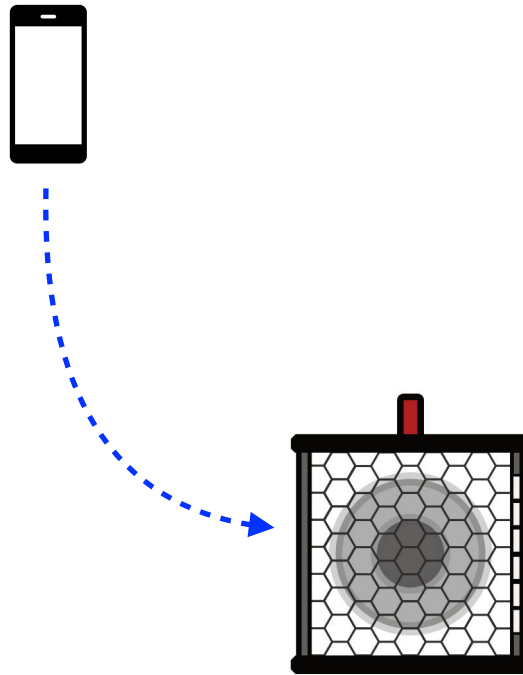
SKAA
mixer

the sweet hookups: contents

Hookups	Category
1 - 12	Essentials
13 - 18	Boat & Beach
19 - 28	Karaoke
29 - 32	Deckless DJ
33 - 52	Outdoors with A-Link Plus
53 - 58	Higher Fidelity
59 - 62	Talk & Hawk
63 - 74	PA
75 - 76	Multiple SKAA Hops
77 - 80	Musical Instrument Jams
81 - 90	Movies, TV, Social Media & Games
91 - 94	Videography
96 - 98	Backyard & Pool
99 - 106	Pro DJ

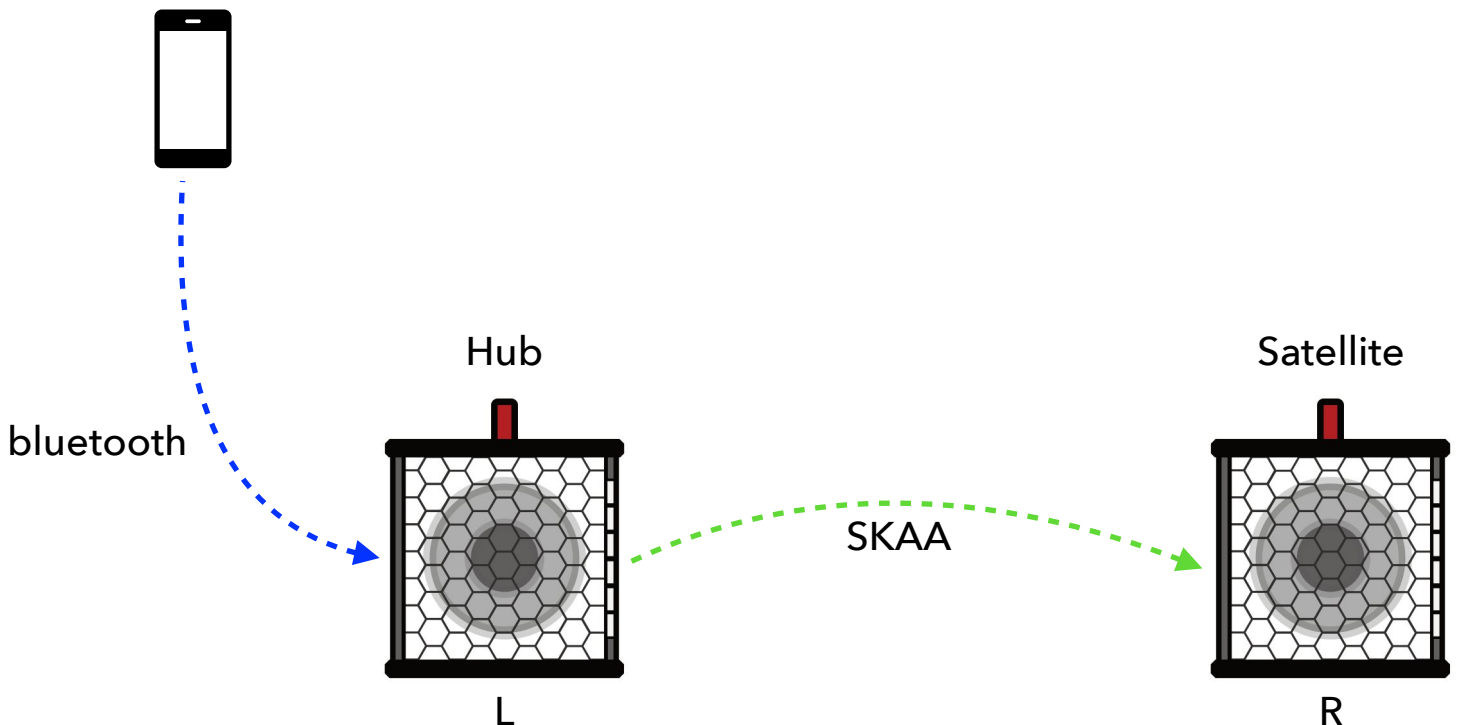
1

same 'ol



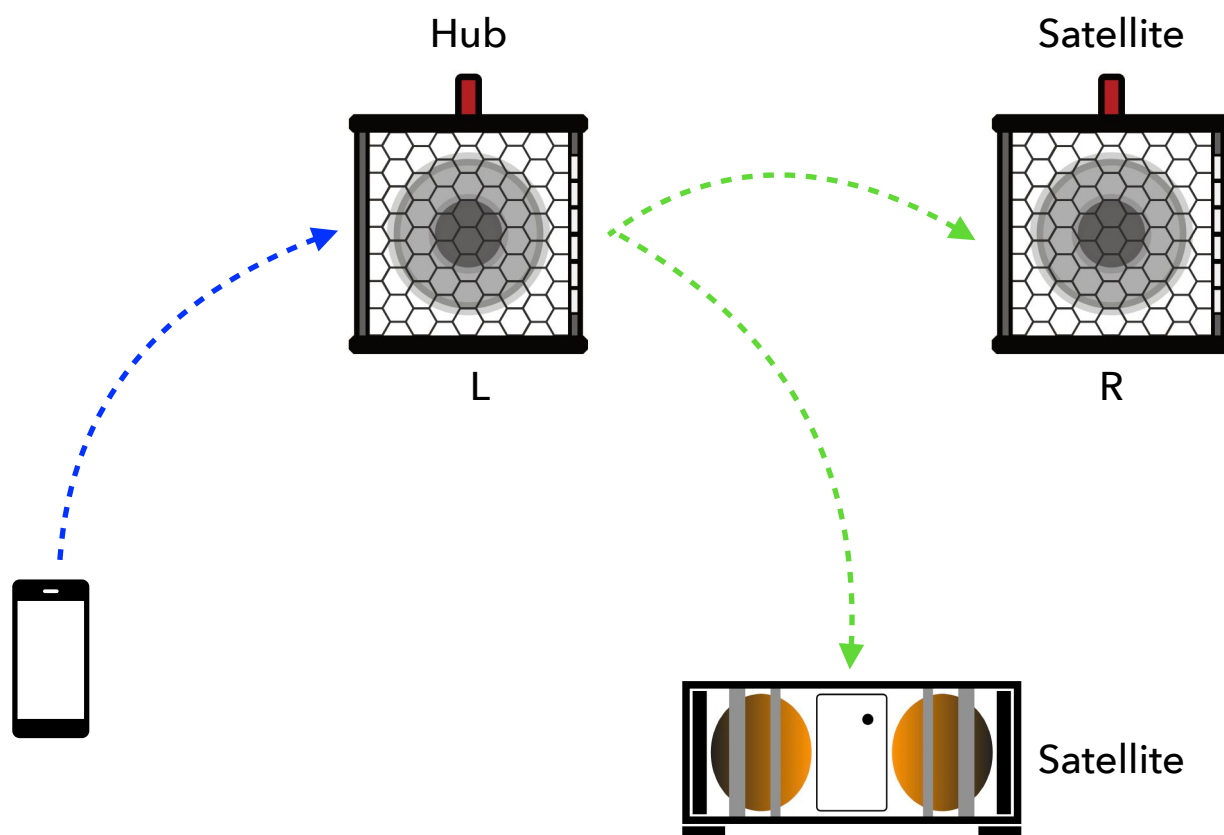
2

the stereo pair

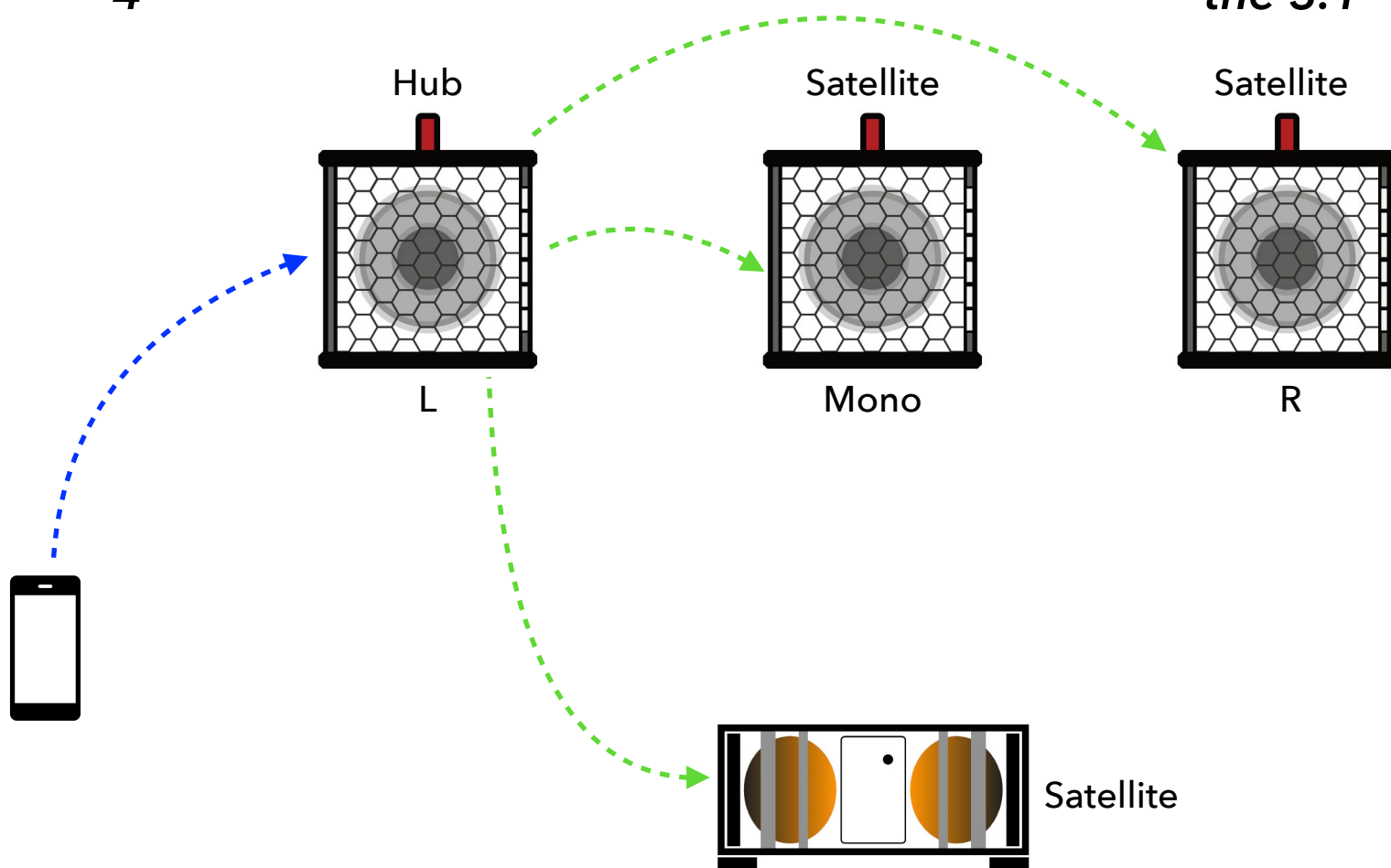


use Wet Sounds SKAA cmd app to set speakers to L and R
– masking tape labels are a great help for future setups

3

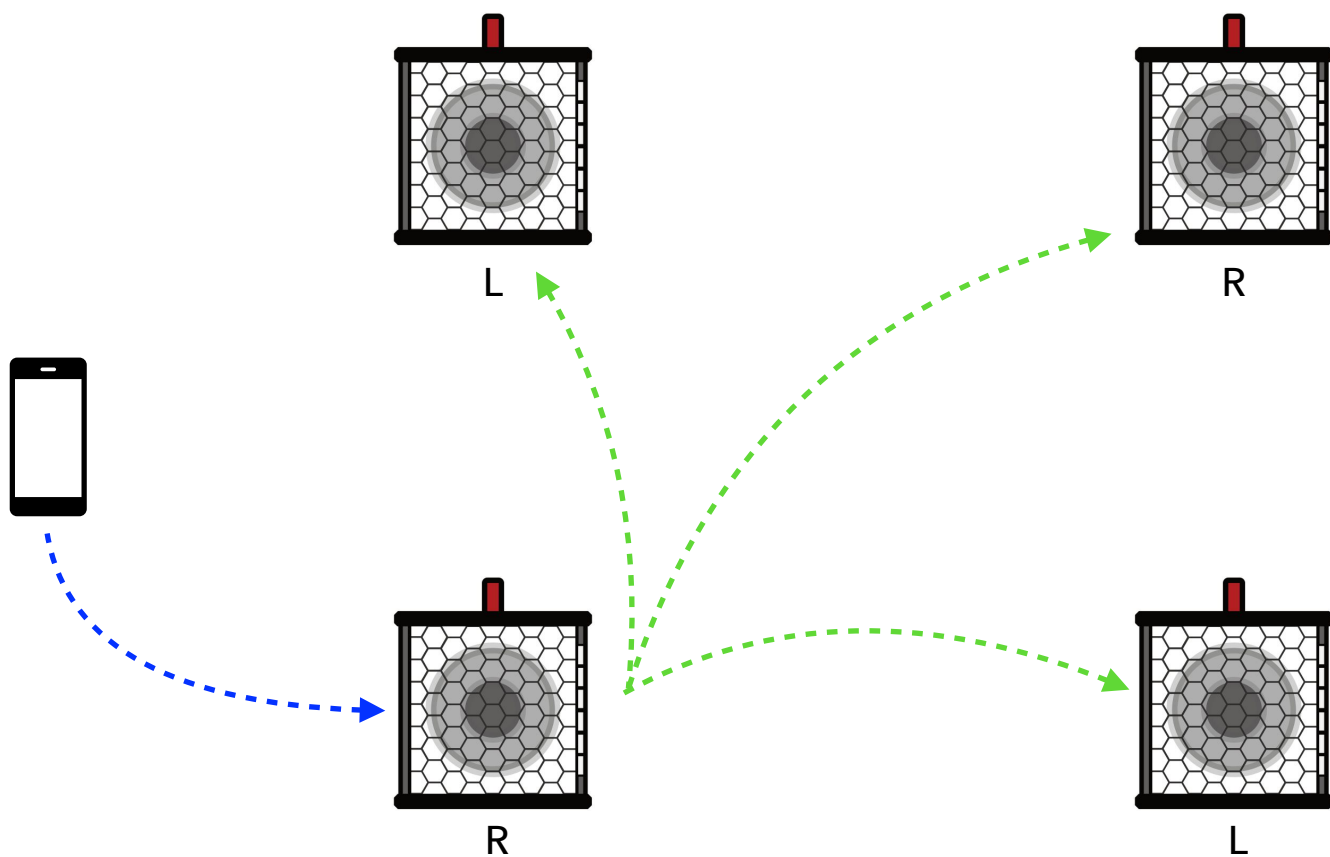
the 2.1

4

the 3.1

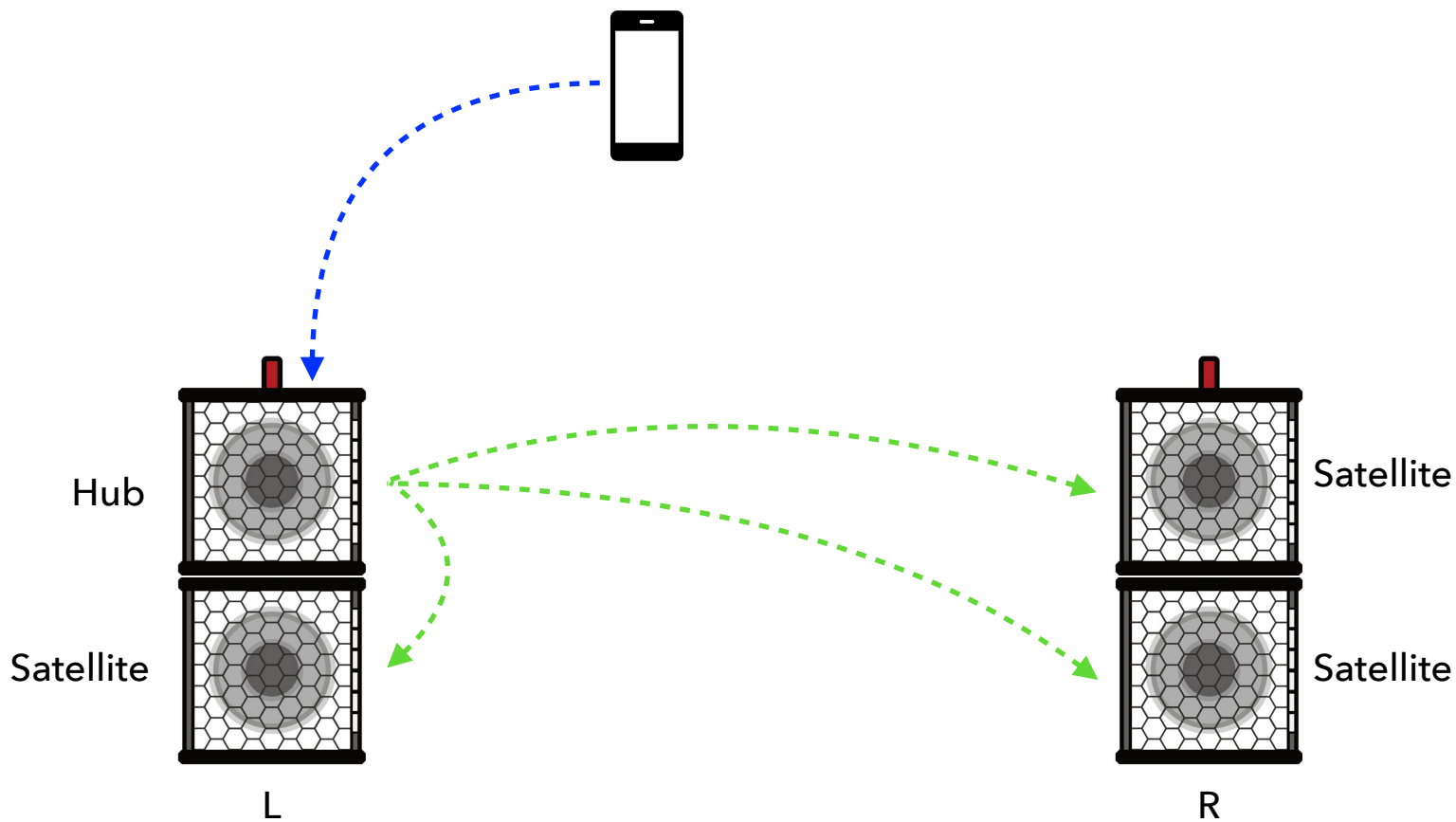
5

the 360



6

quadruple trouble



7

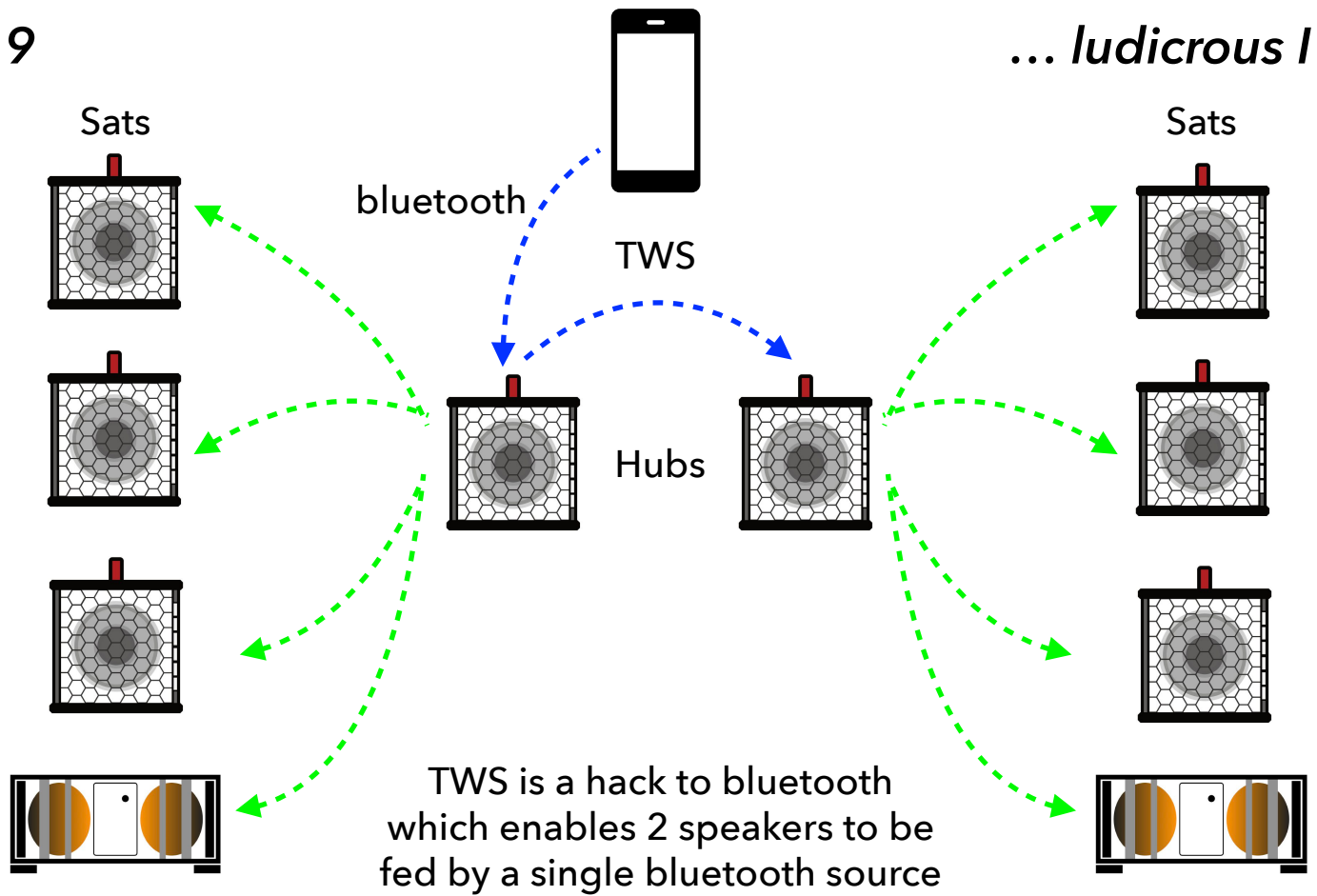
The diagram illustrates a two-hop network topology. A smartphone on the left connects via a blue dashed arrow to a 'Hub' (labeled 'L'). The Hub connects via green dashed arrows to two 'Satellite' units (labeled 'R' and 'Satellite'). Each satellite unit consists of a top section with a hexagonal grid and a bottom section with a circular antenna. The top section is labeled 'pole stacks'.

8 *pole-less stacks*

The diagram illustrates a 'pole-less stack' setup. It features two subwoofers, labeled 'L' and 'R', each consisting of a main driver and a separate 'Wet Sounds subwoofer' unit. A smartphone is positioned above the subwoofers, connected to them by a dashed blue line. Green dashed arrows indicate sound waves emanating from the subwoofers.

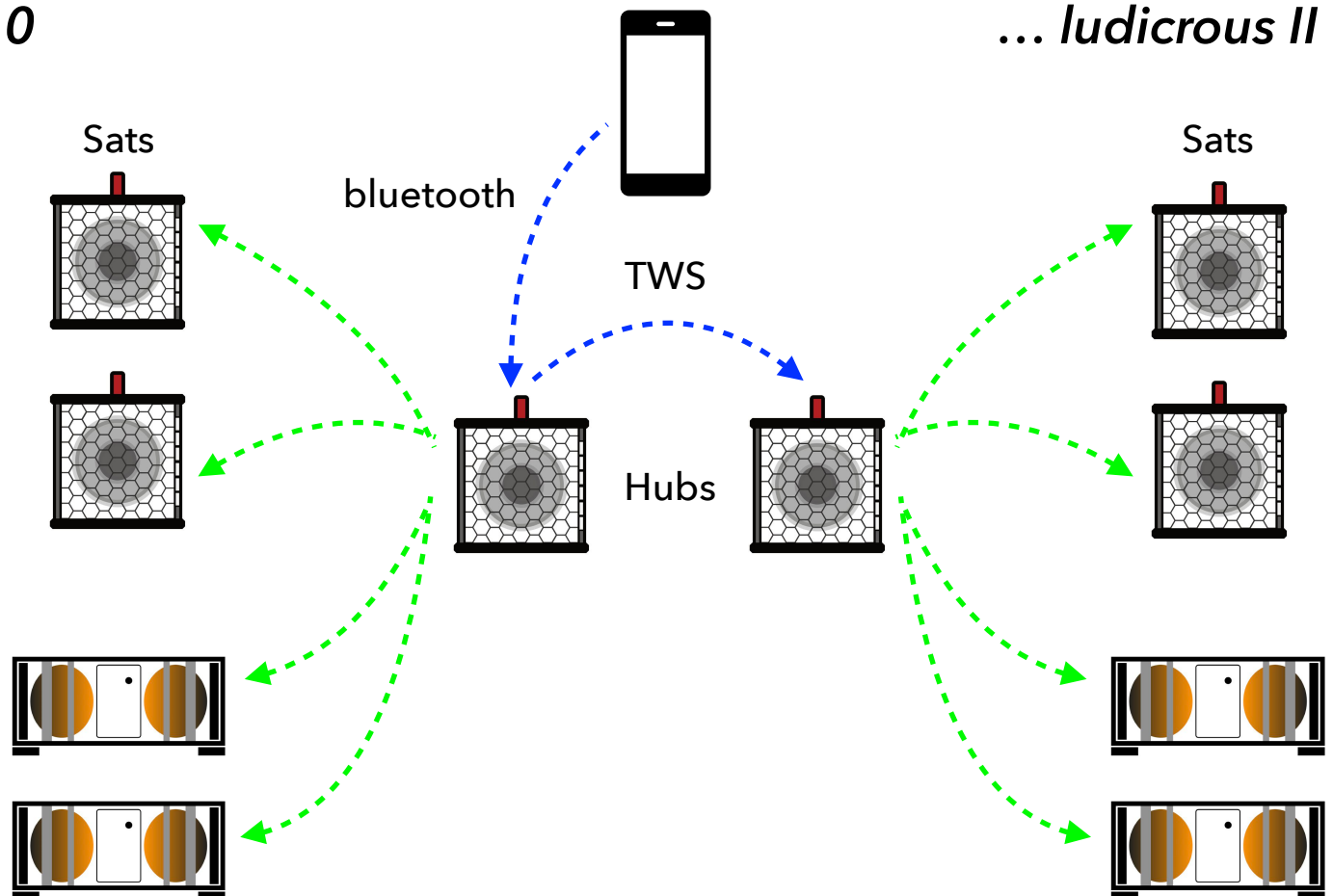
9

... ludicrous I

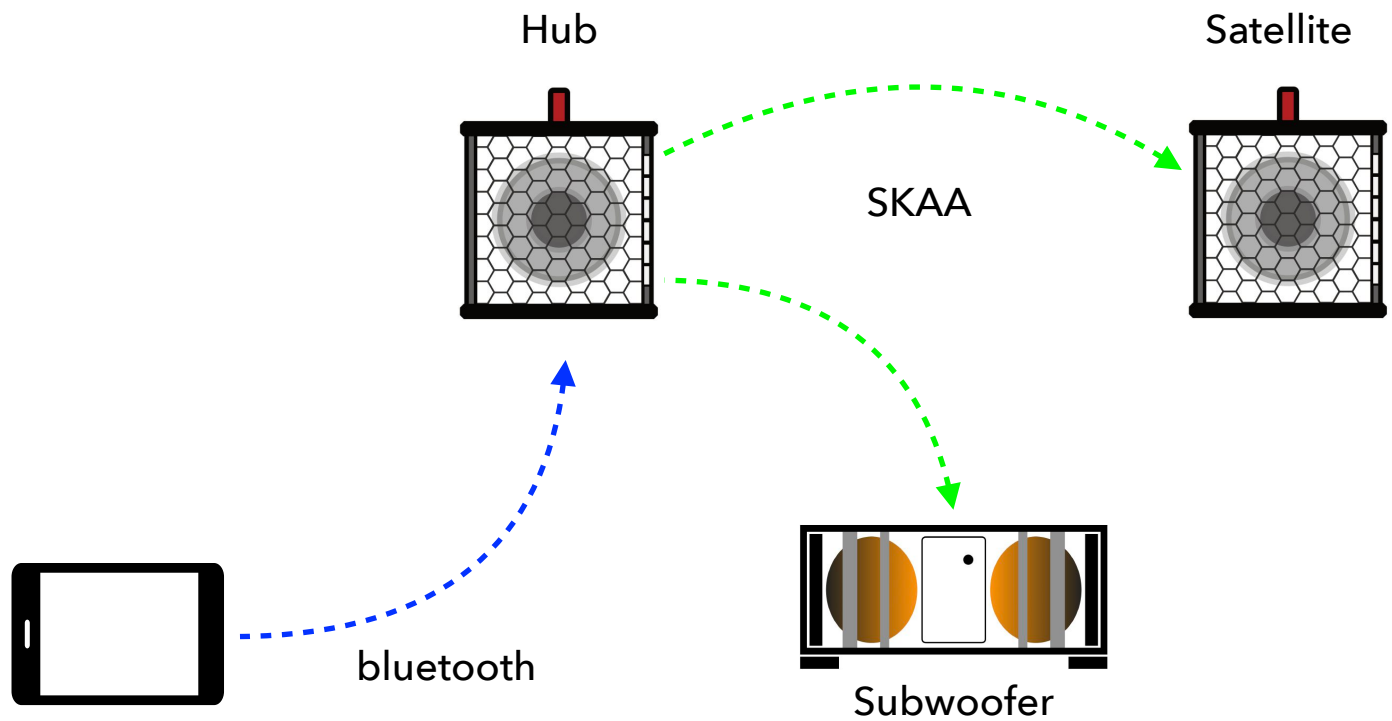


10

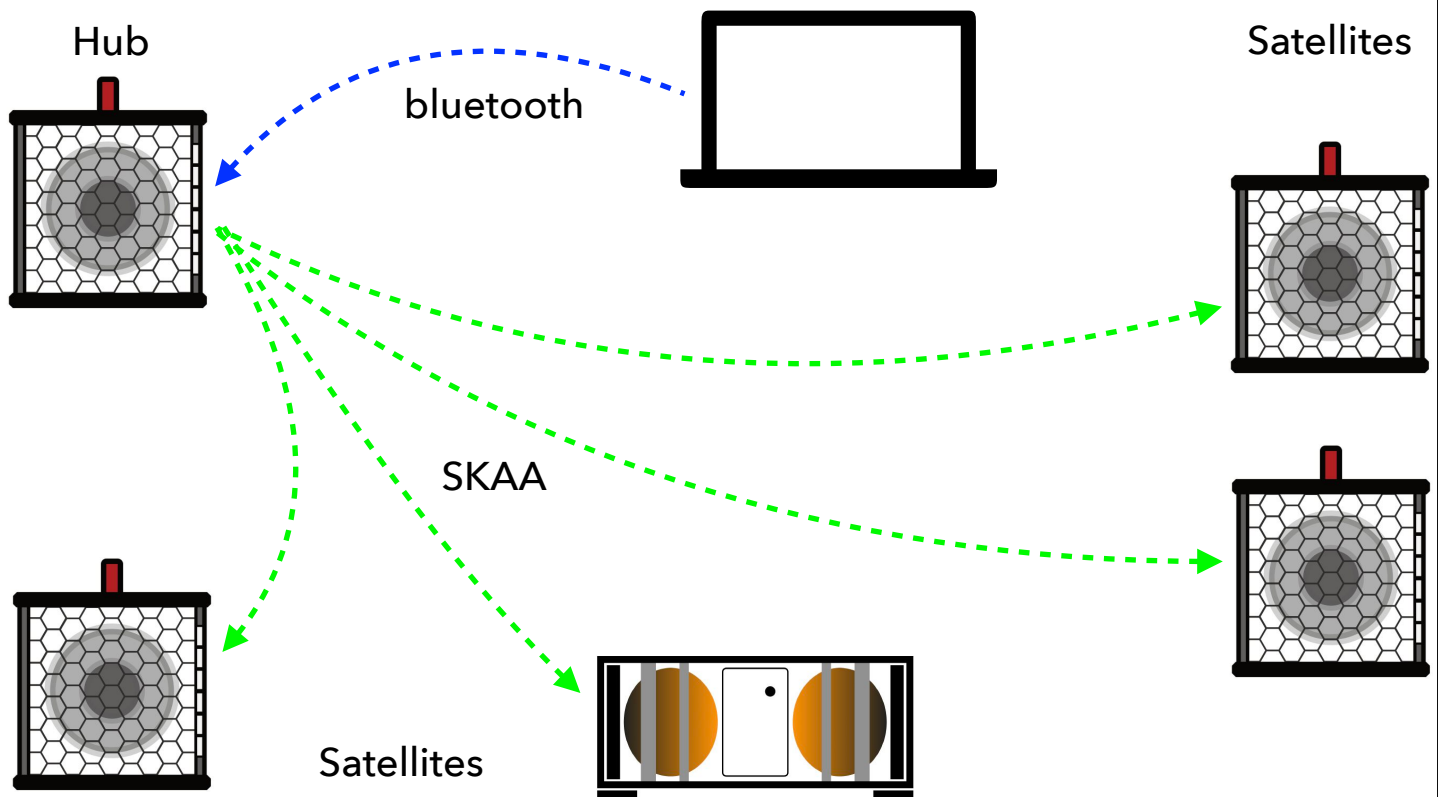
... ludicrous II

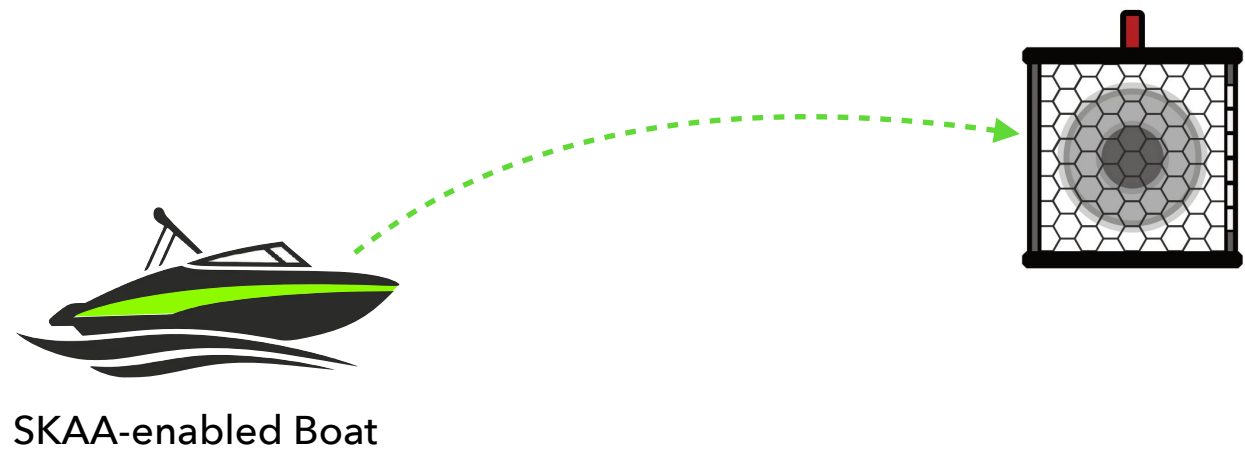


11 *all of the above 10 hookups work with tablets, too*

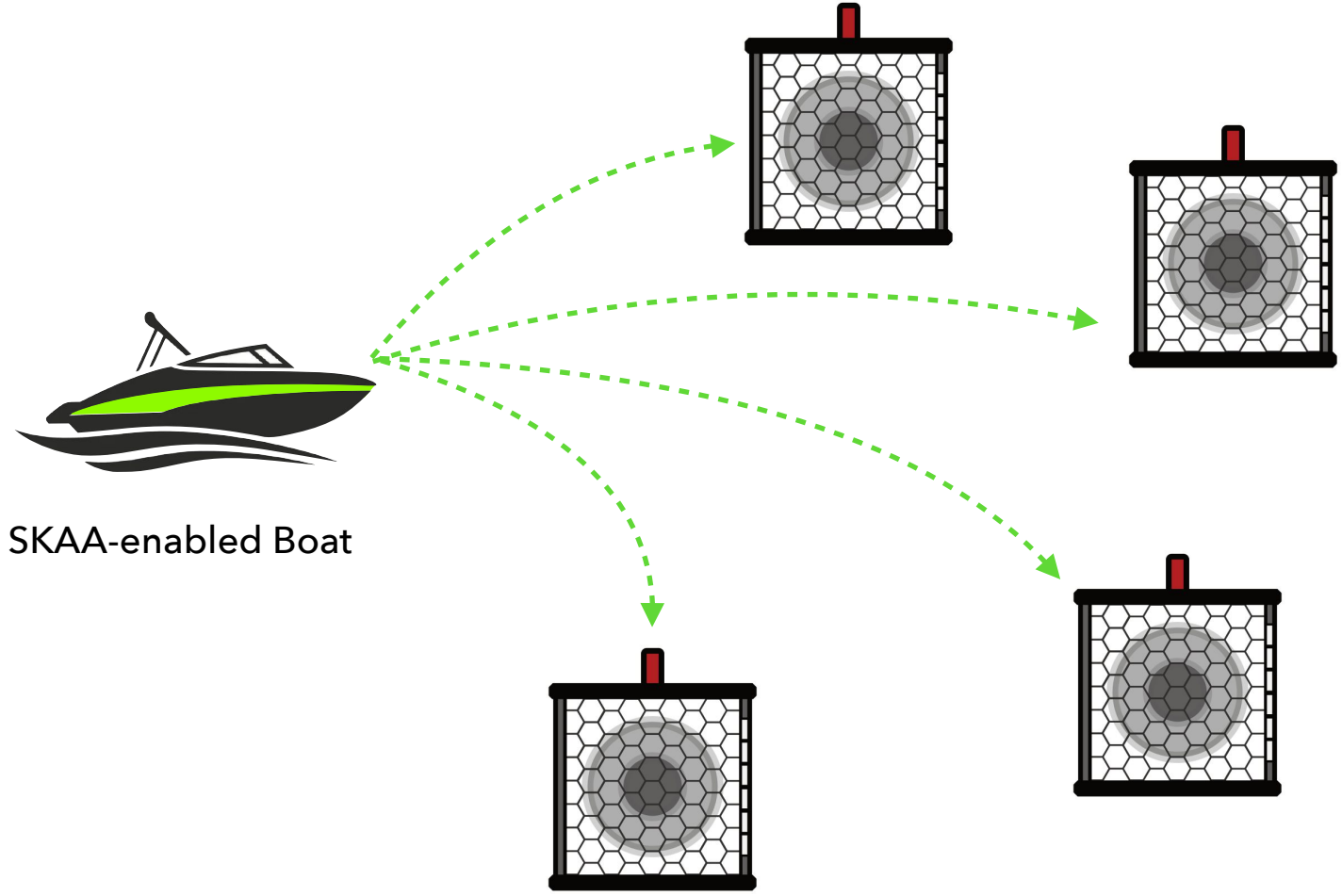


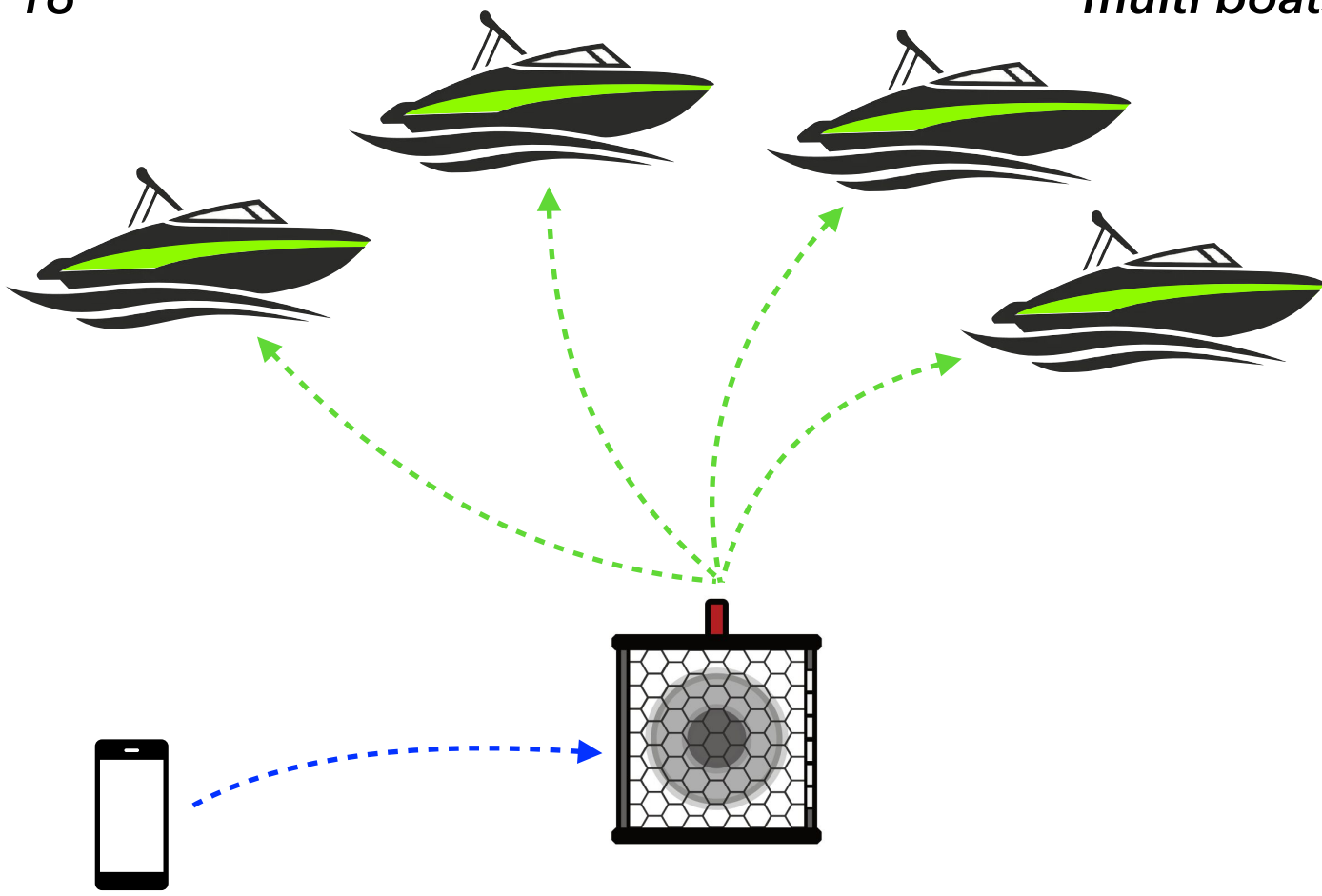
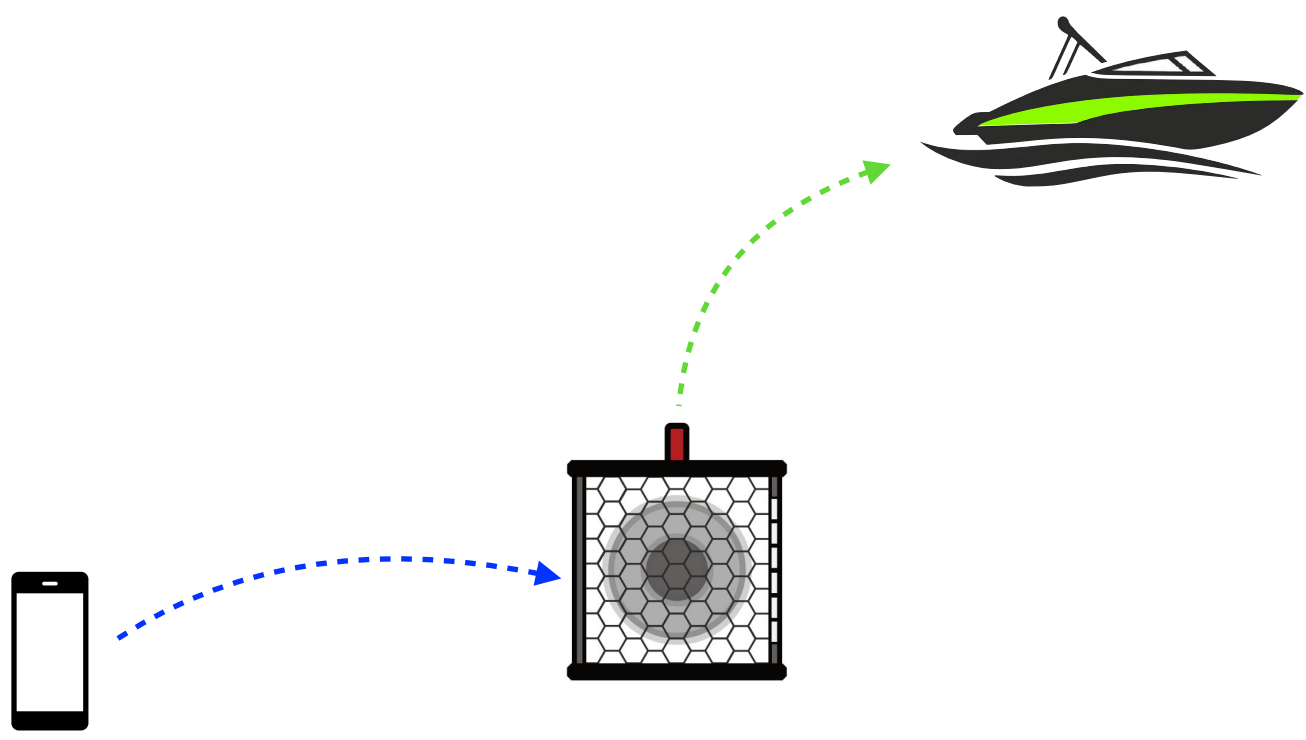
12 *... and notebooks*





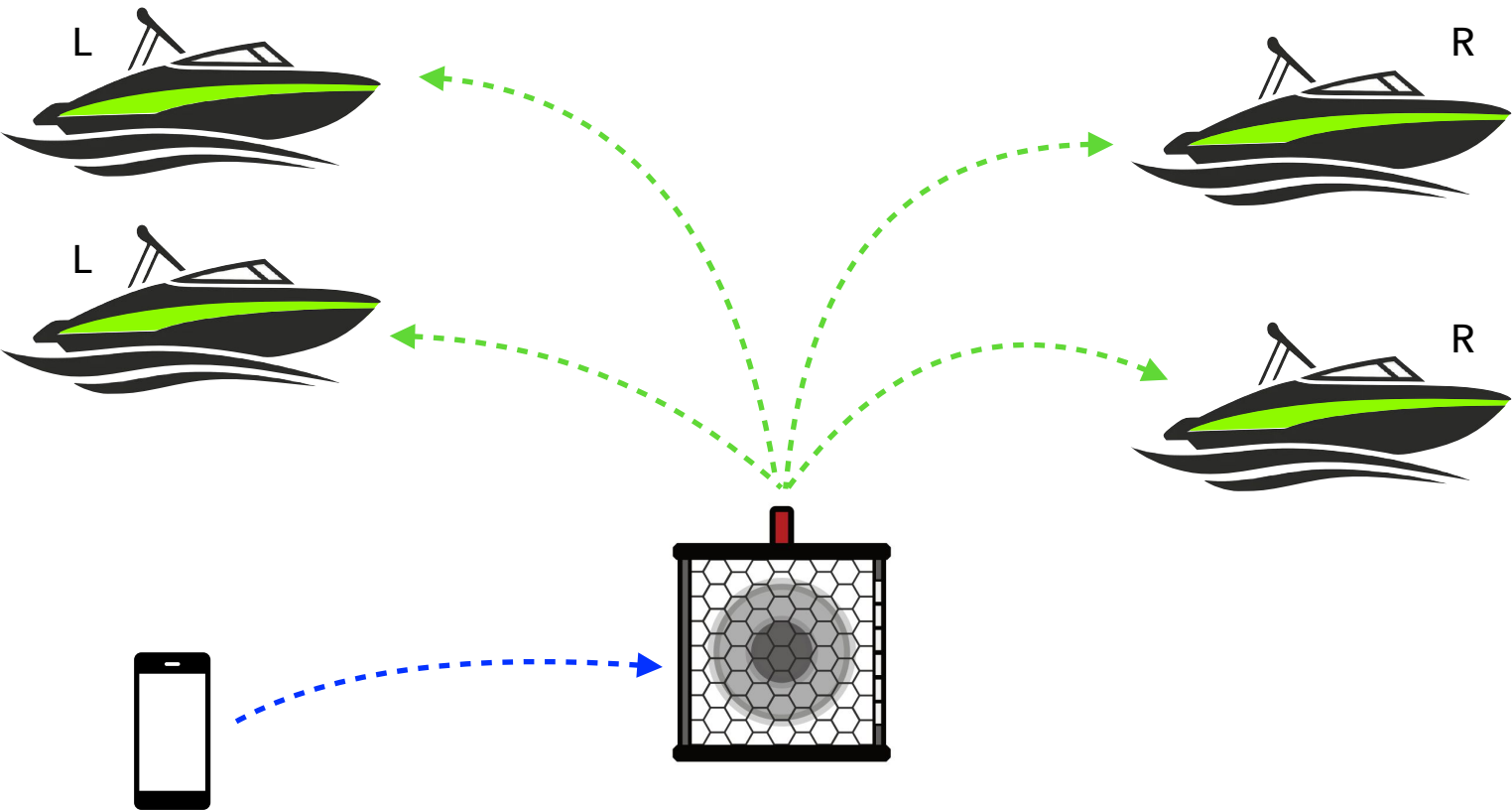
a SKAA-enabled boat either has SKAA capability built in, or has a SKAA upgrade (for example a *Wet Sounds A-Link Plus*) connected to its stock audio system





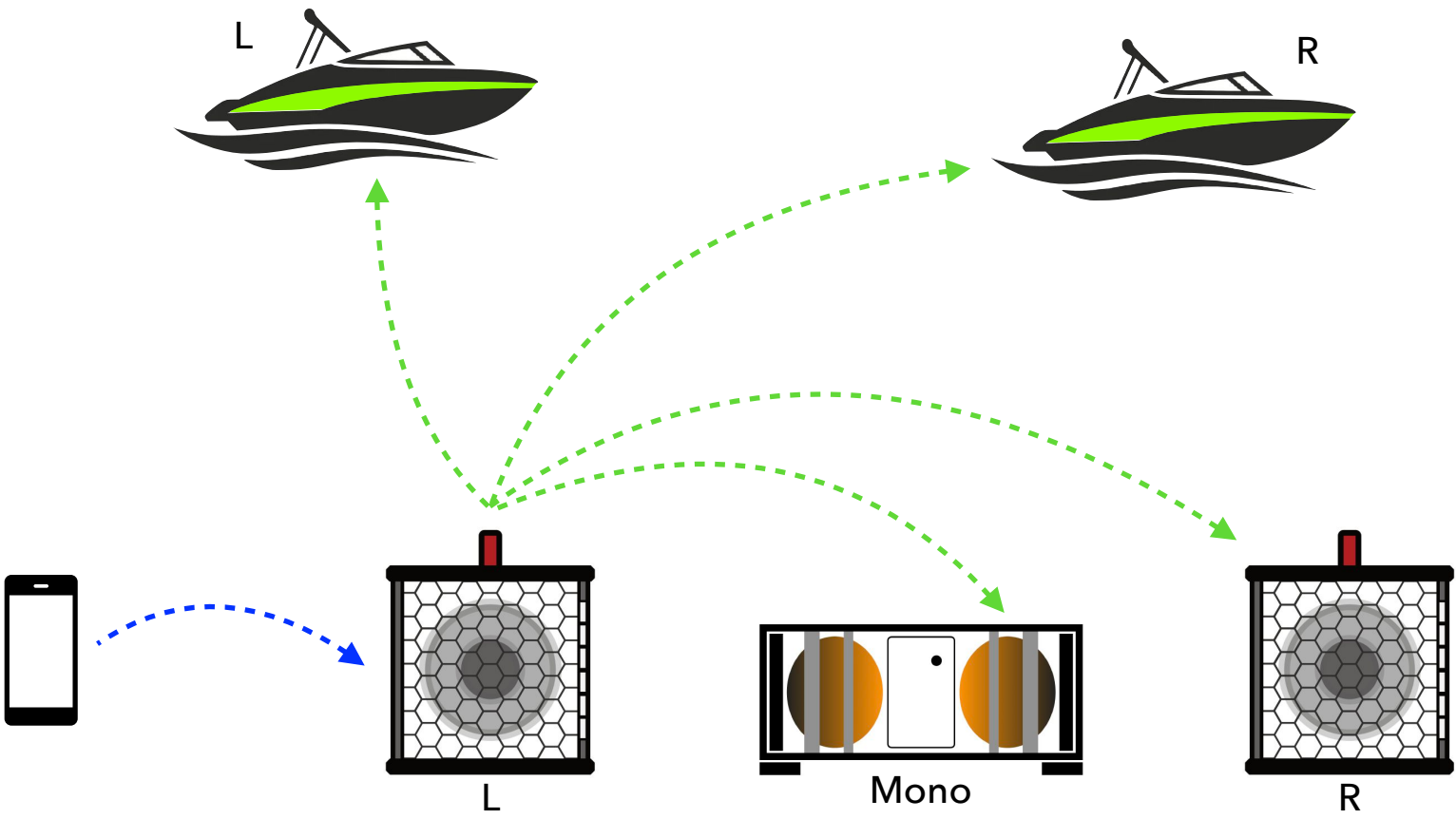
17

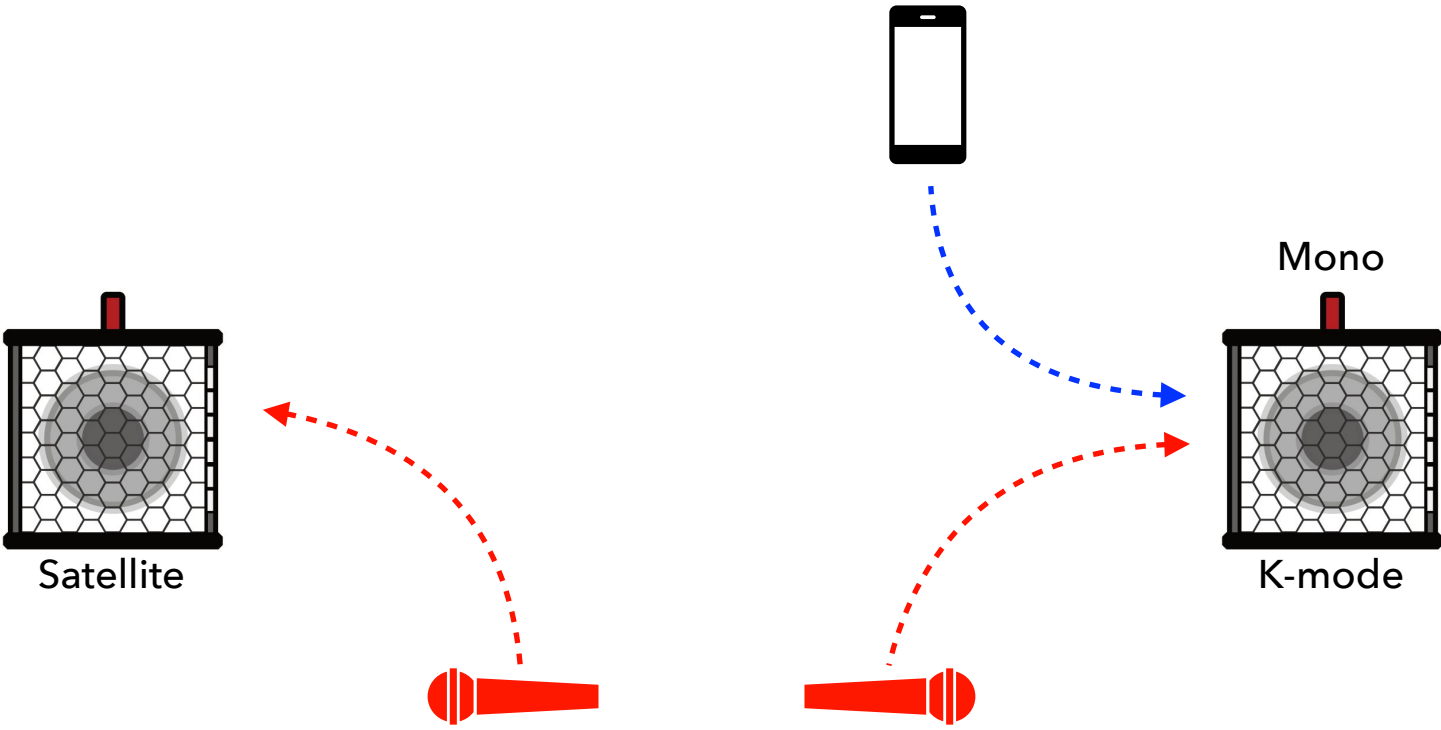
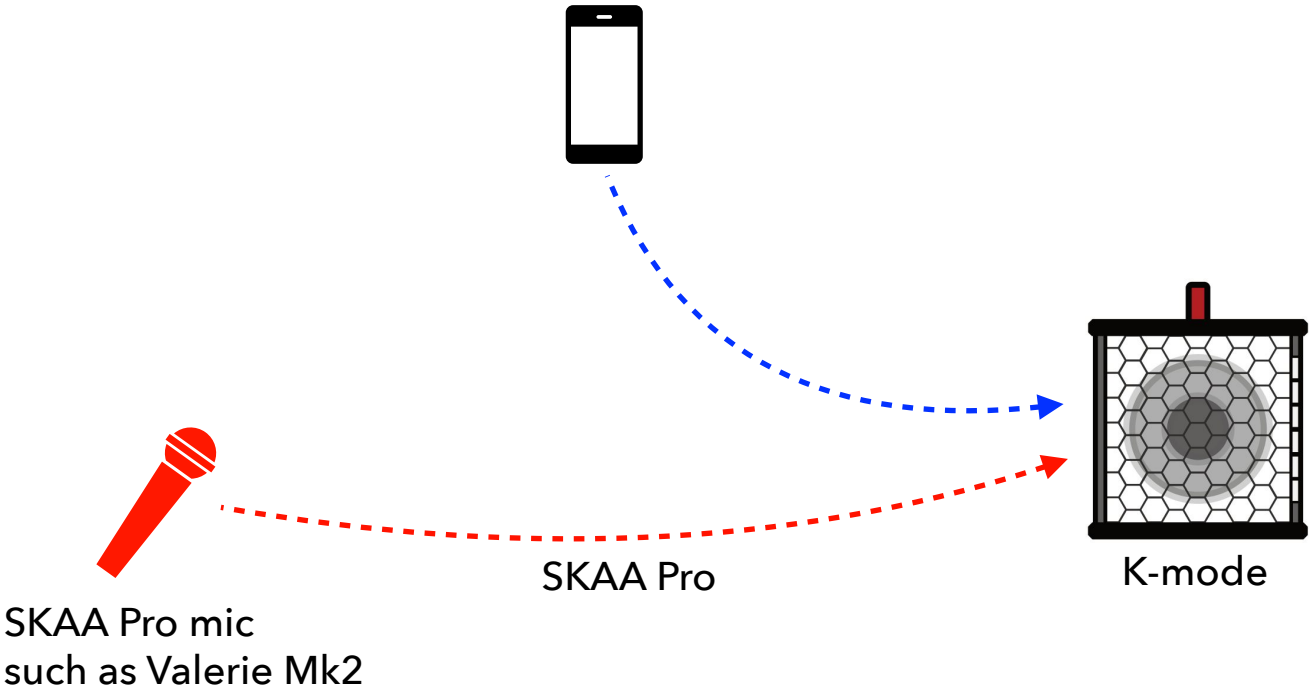
boat stereo I



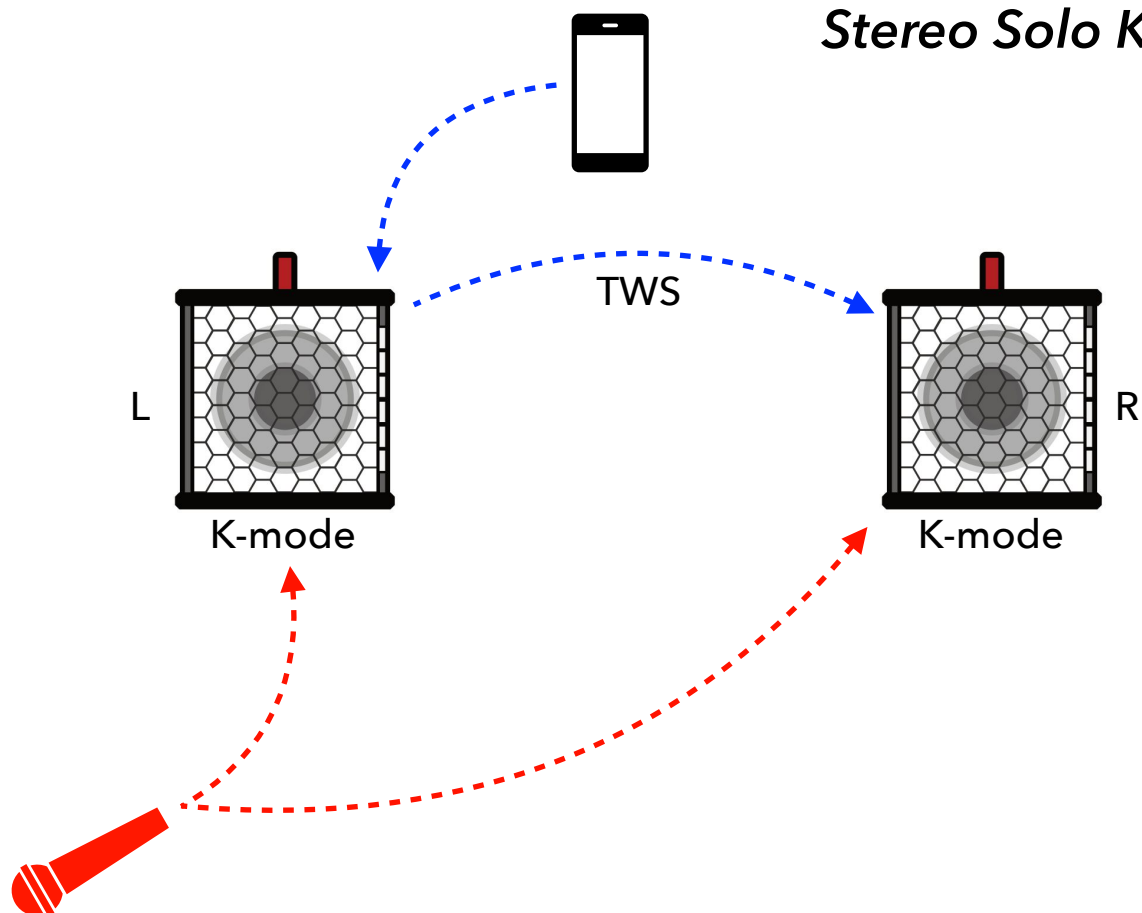
18

boat stereo II

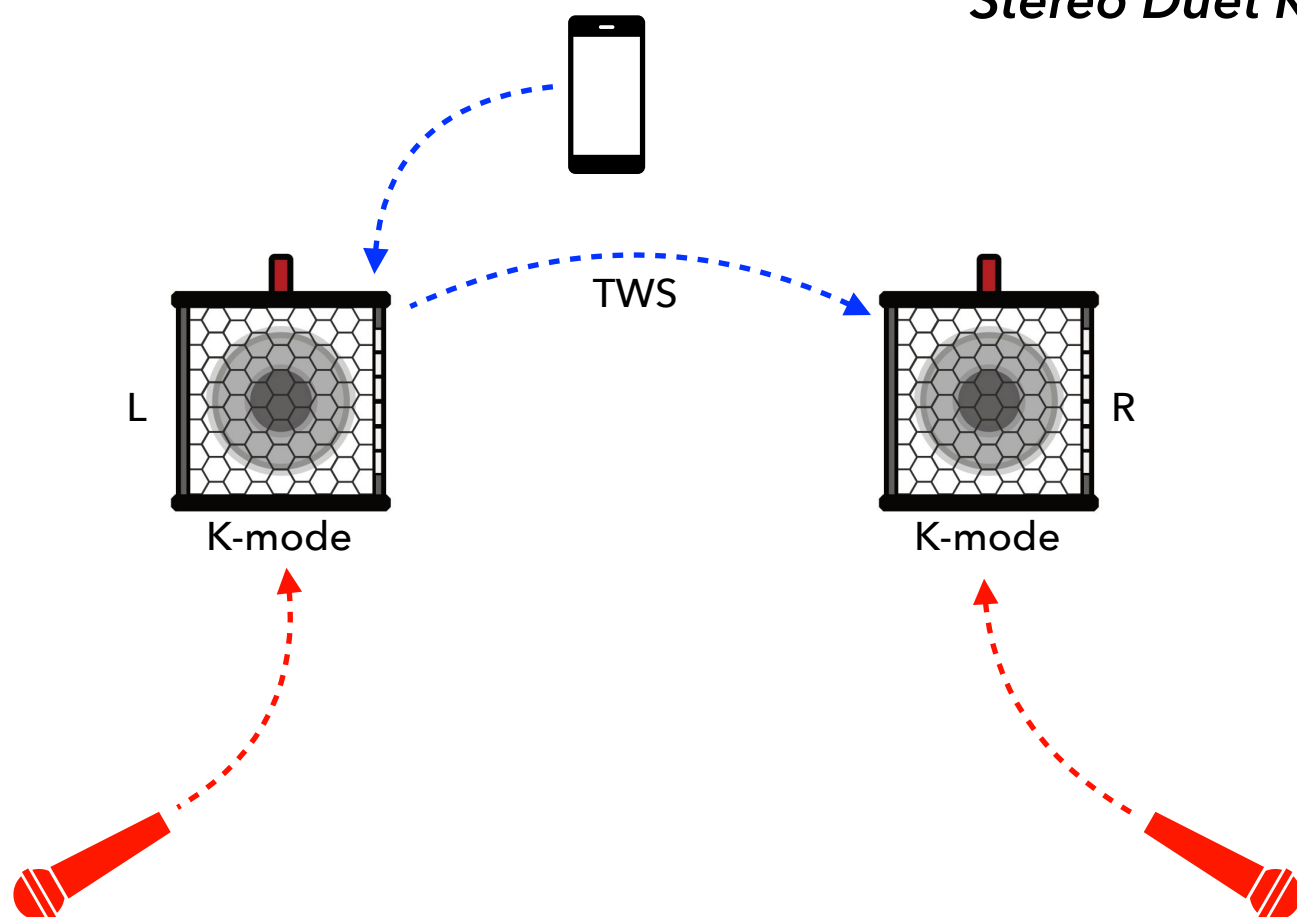




21

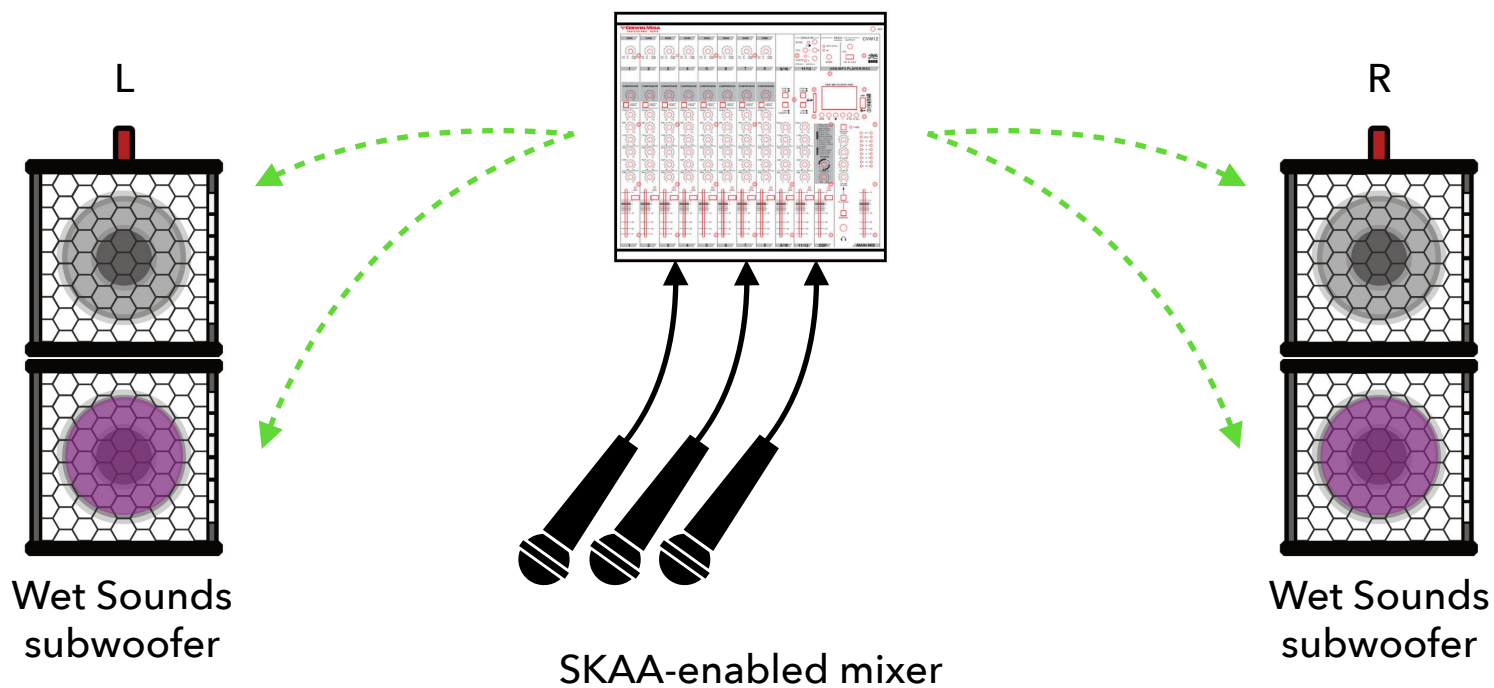
Stereo Solo Karaoke

22

Stereo Duet K

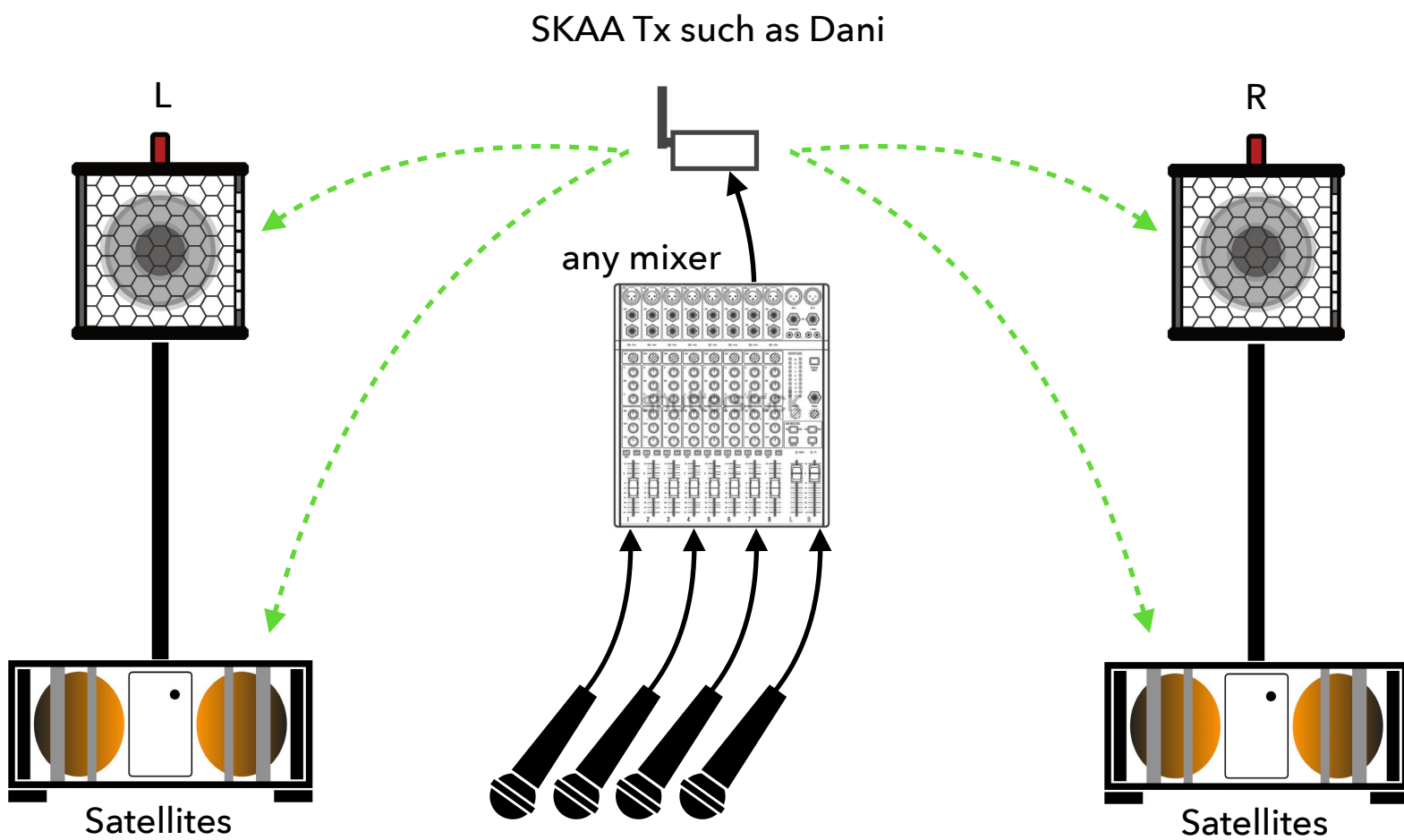
23

Club K I

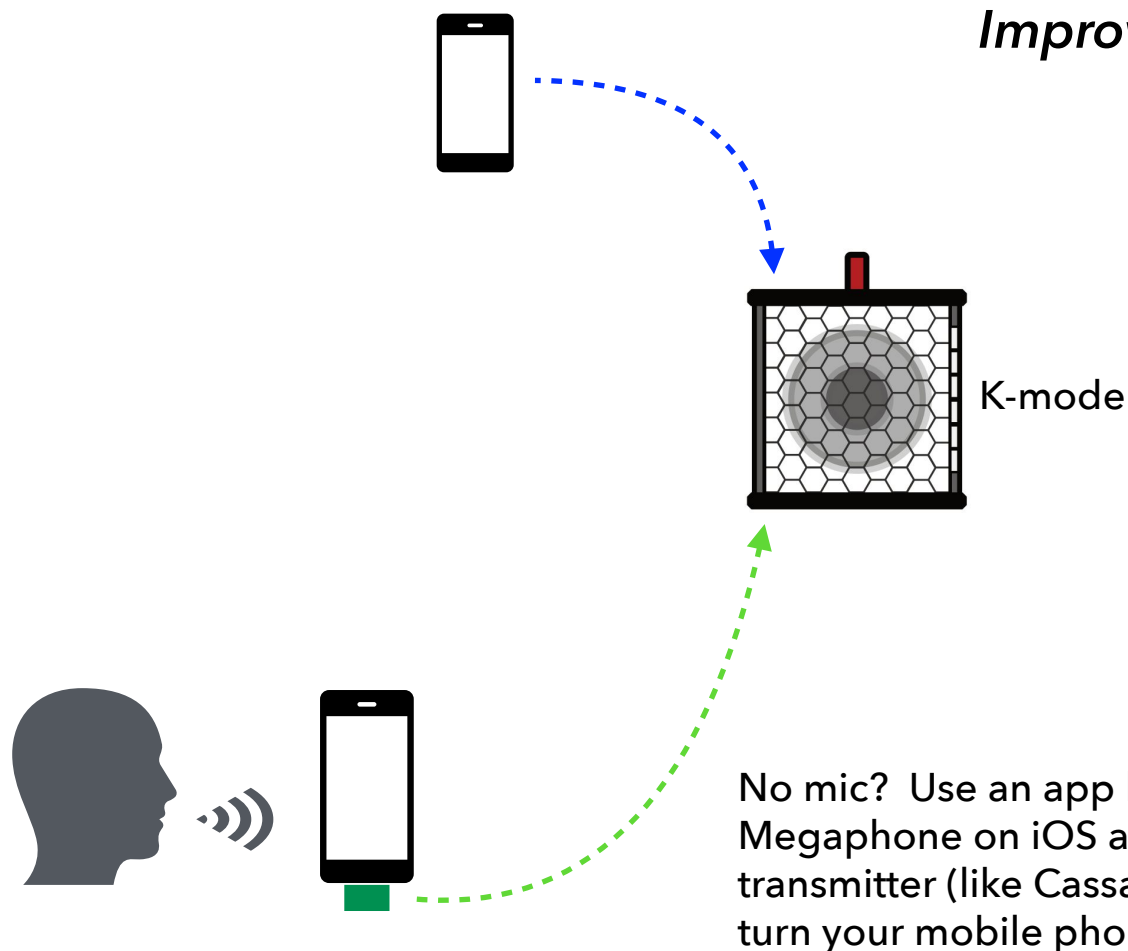


24

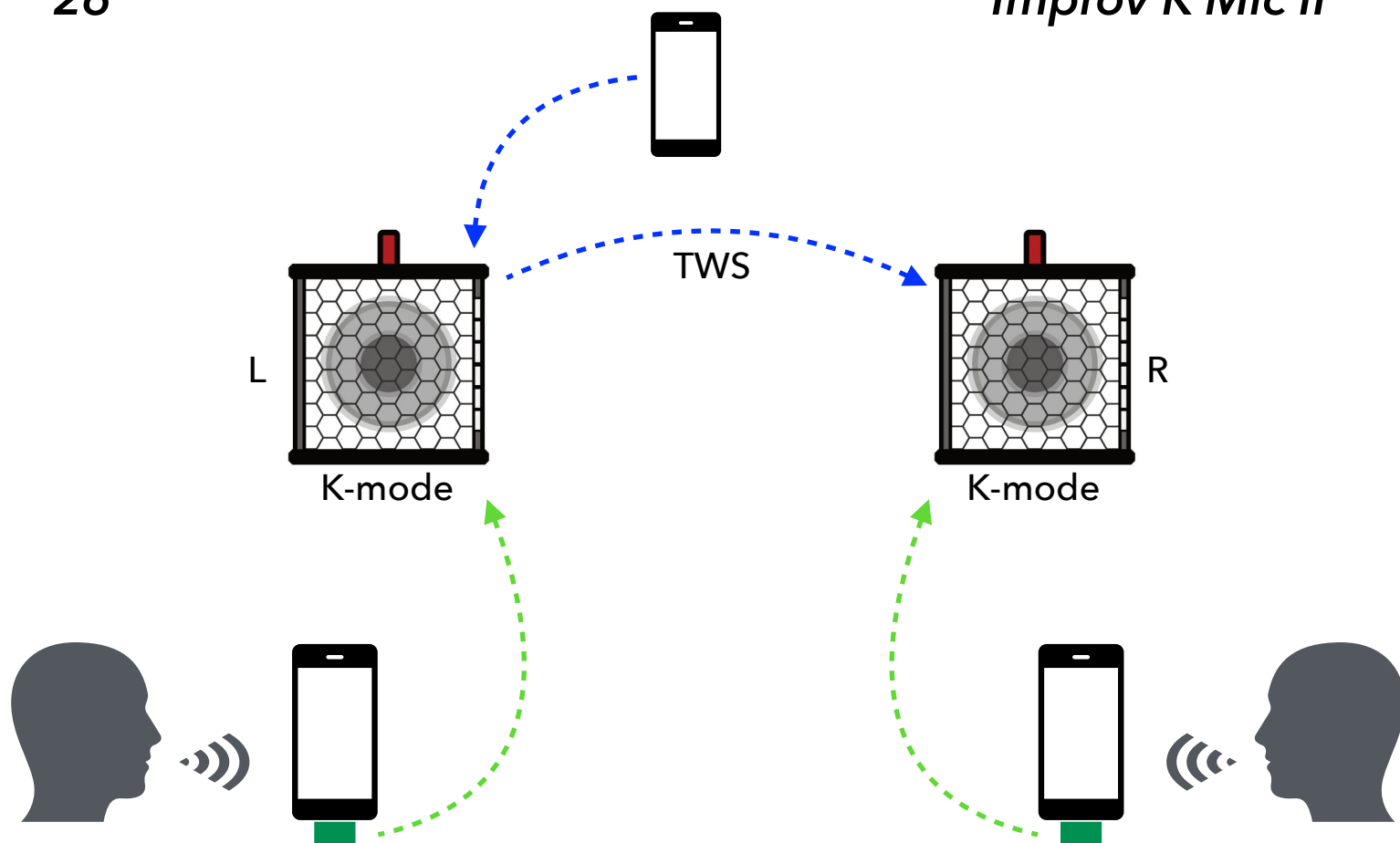
Club K II



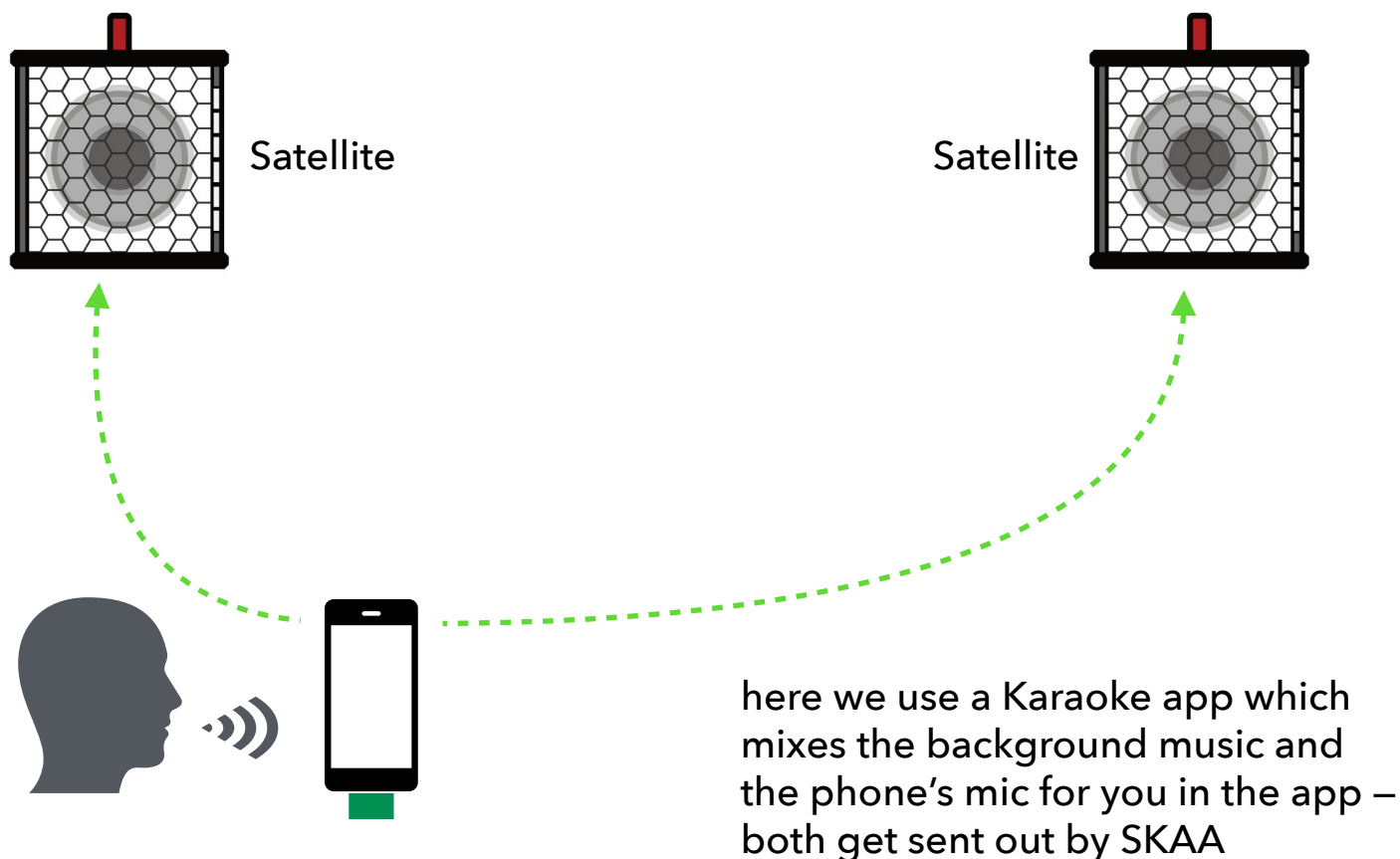
25

Improv K Mic I

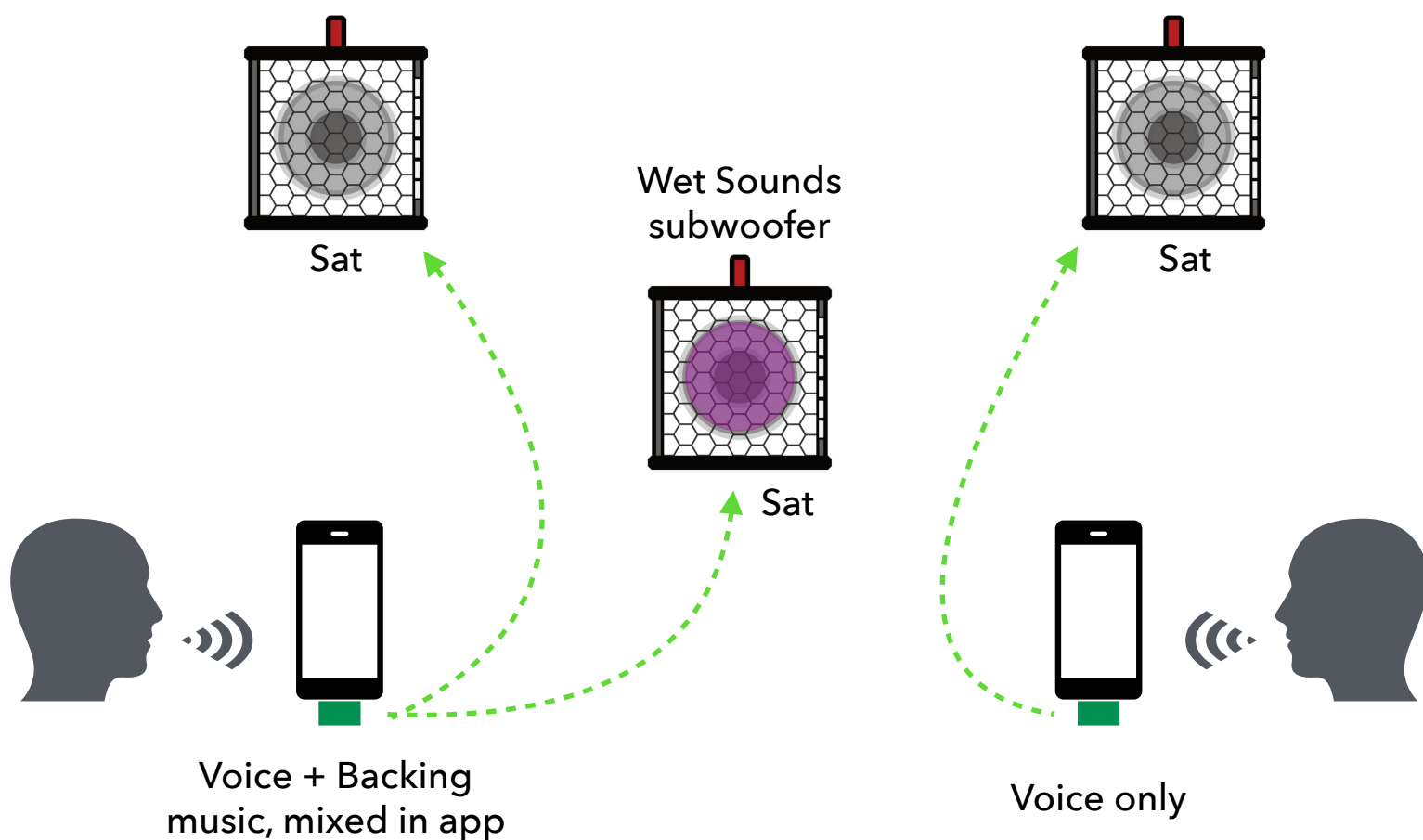
26

Improv K Mic II

27

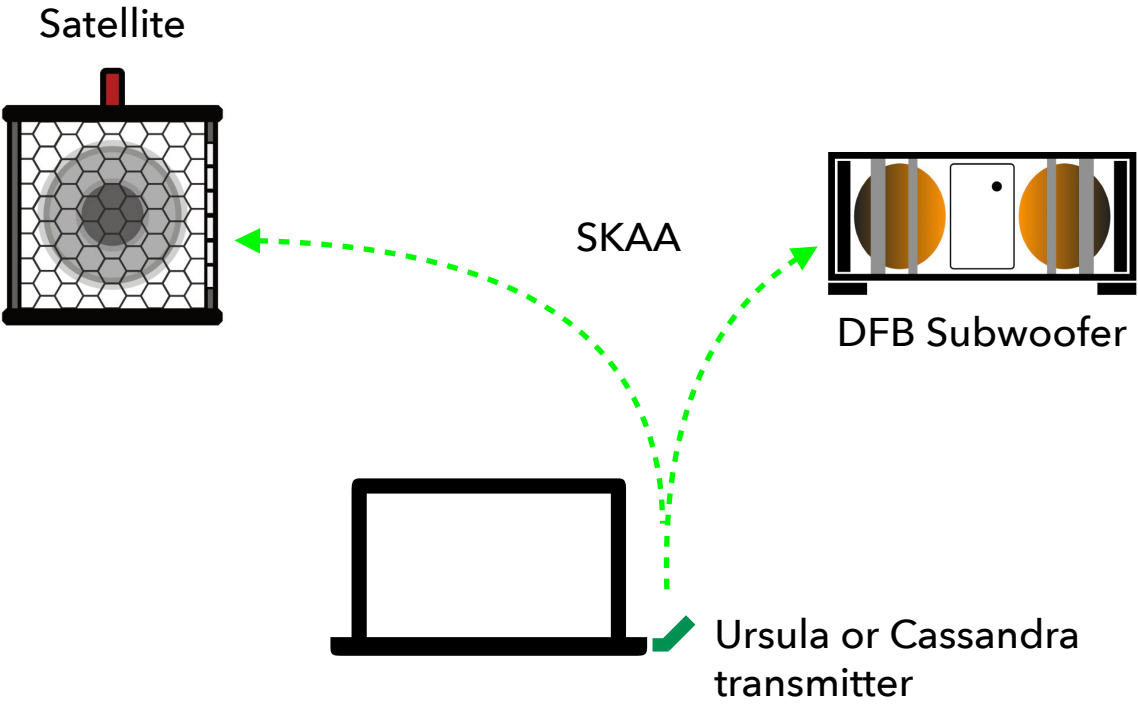
Improv K Mic III

28

Improv K Mic IV

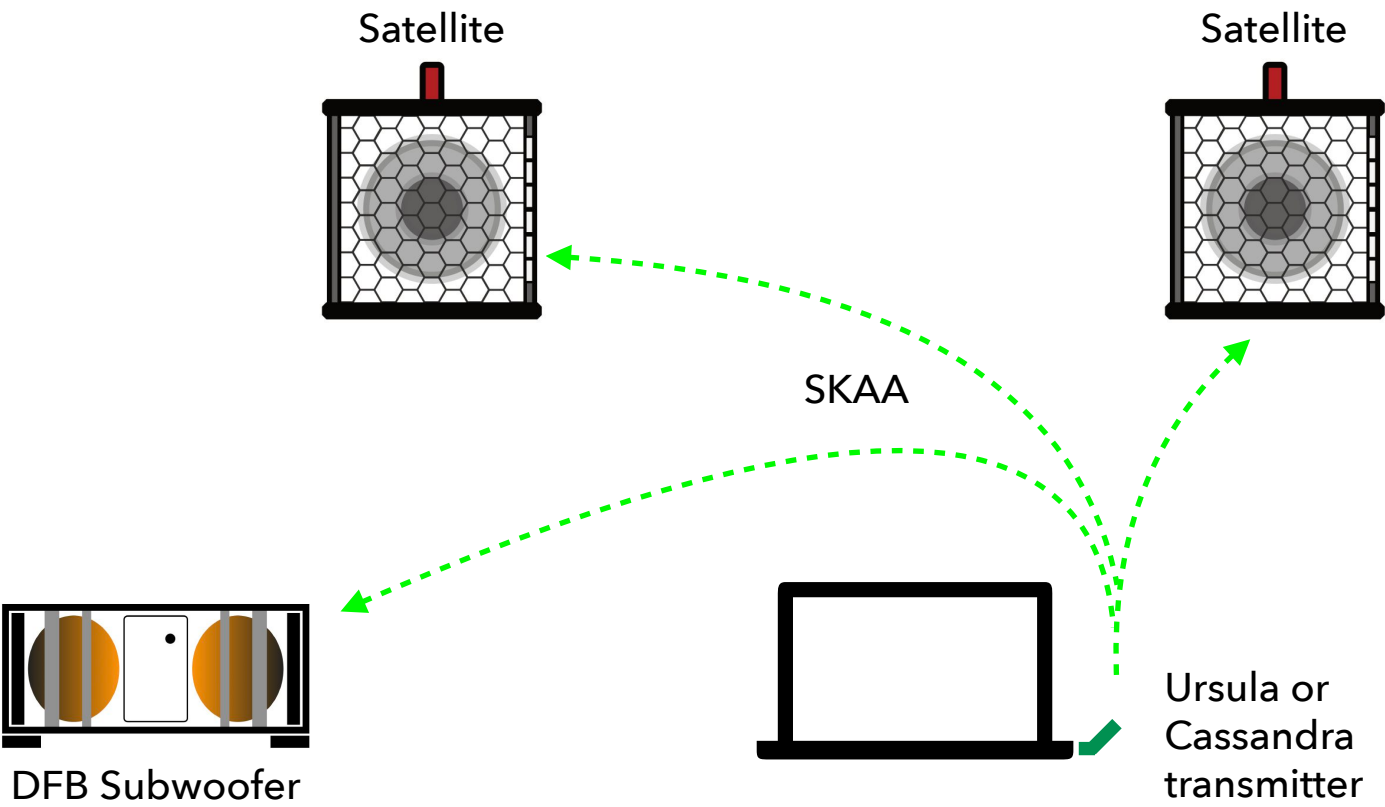
29

deckless DJ



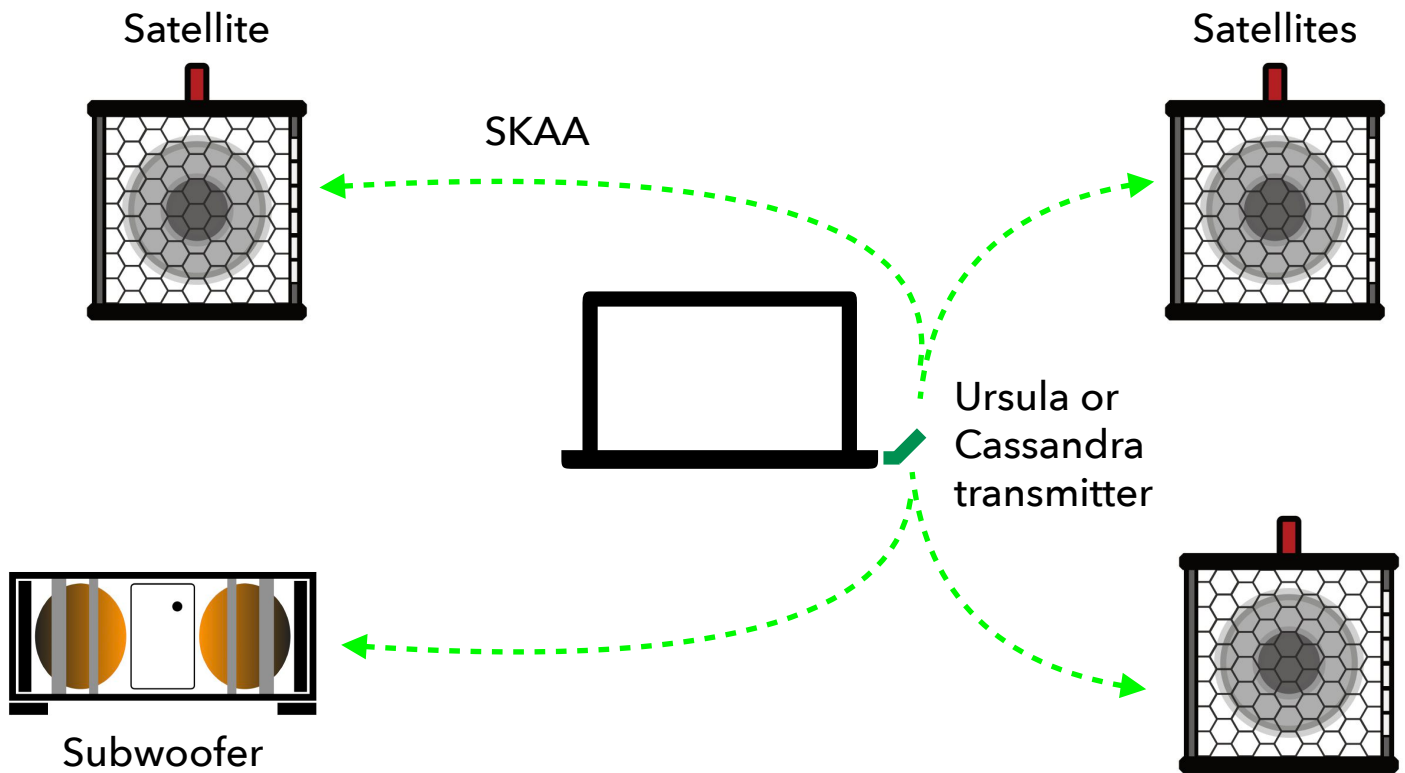
30

deckless DJ II



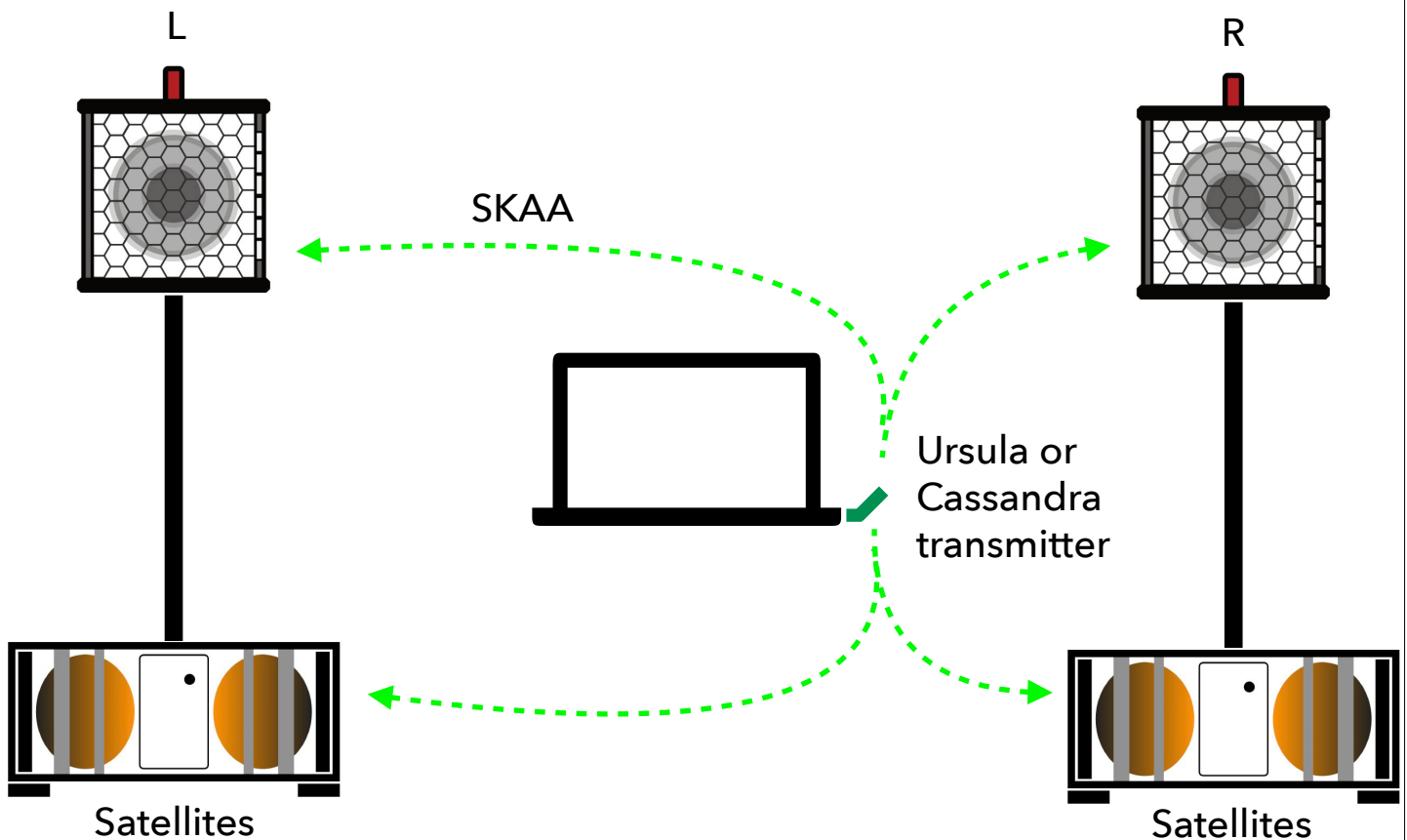
31

deckless DJ in a hall

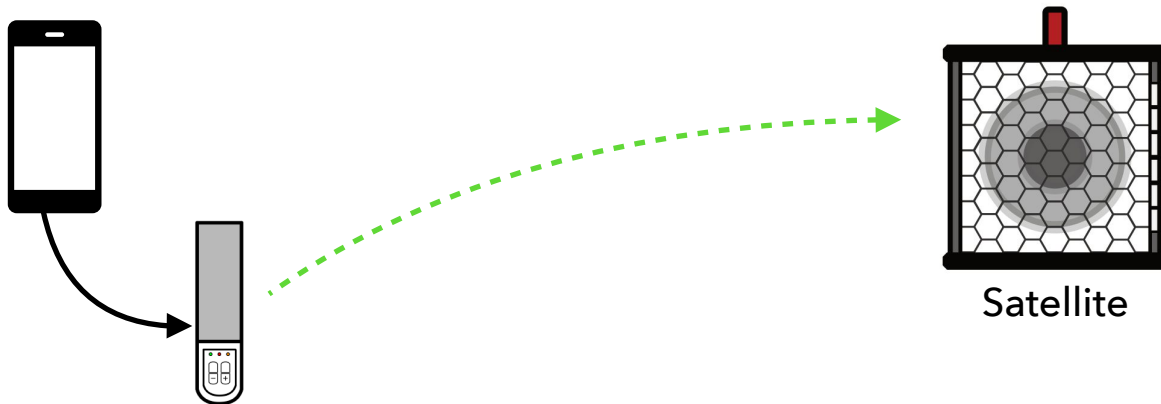


32

deckless DJ stereo towers

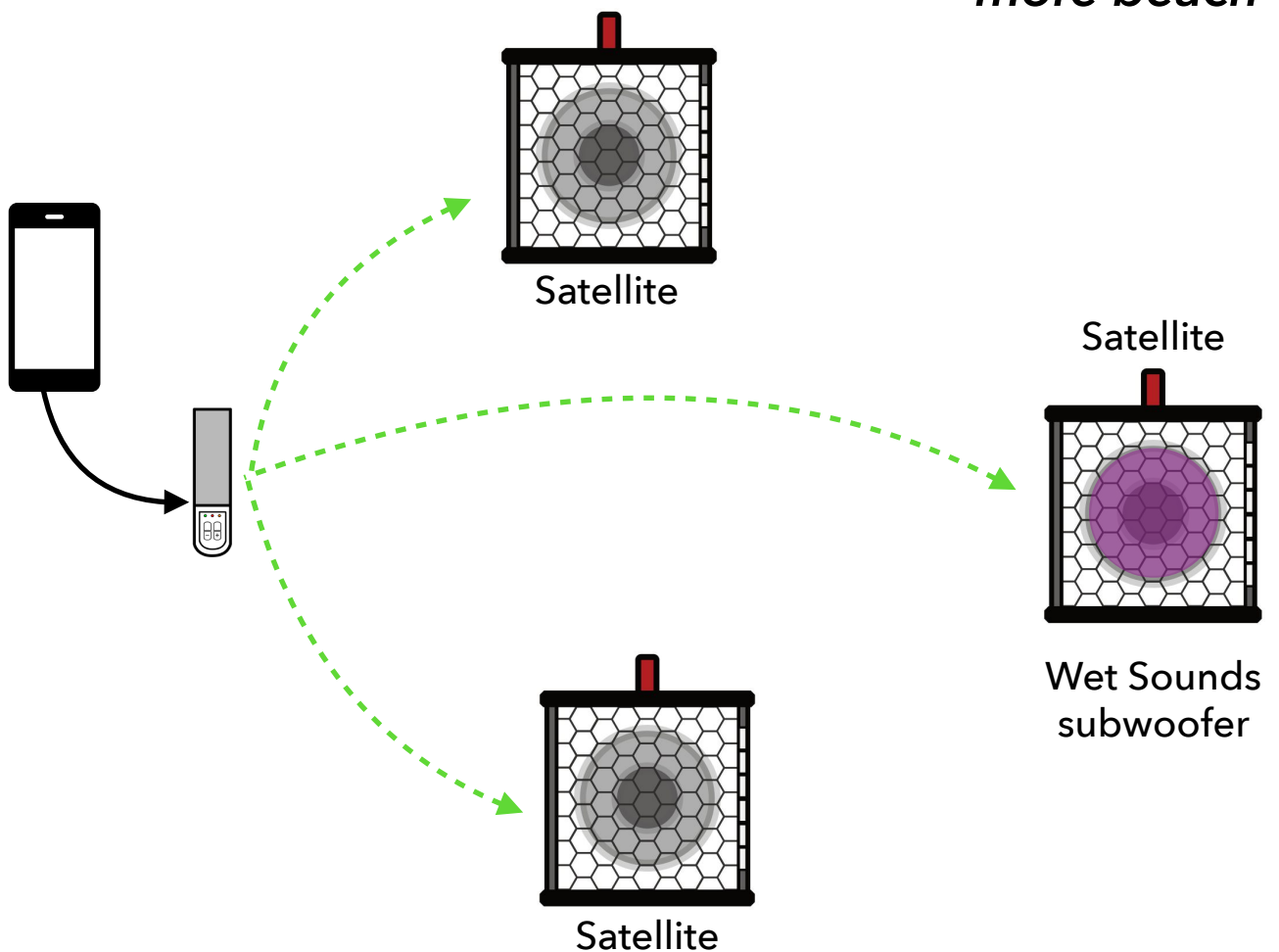


33

beach bum

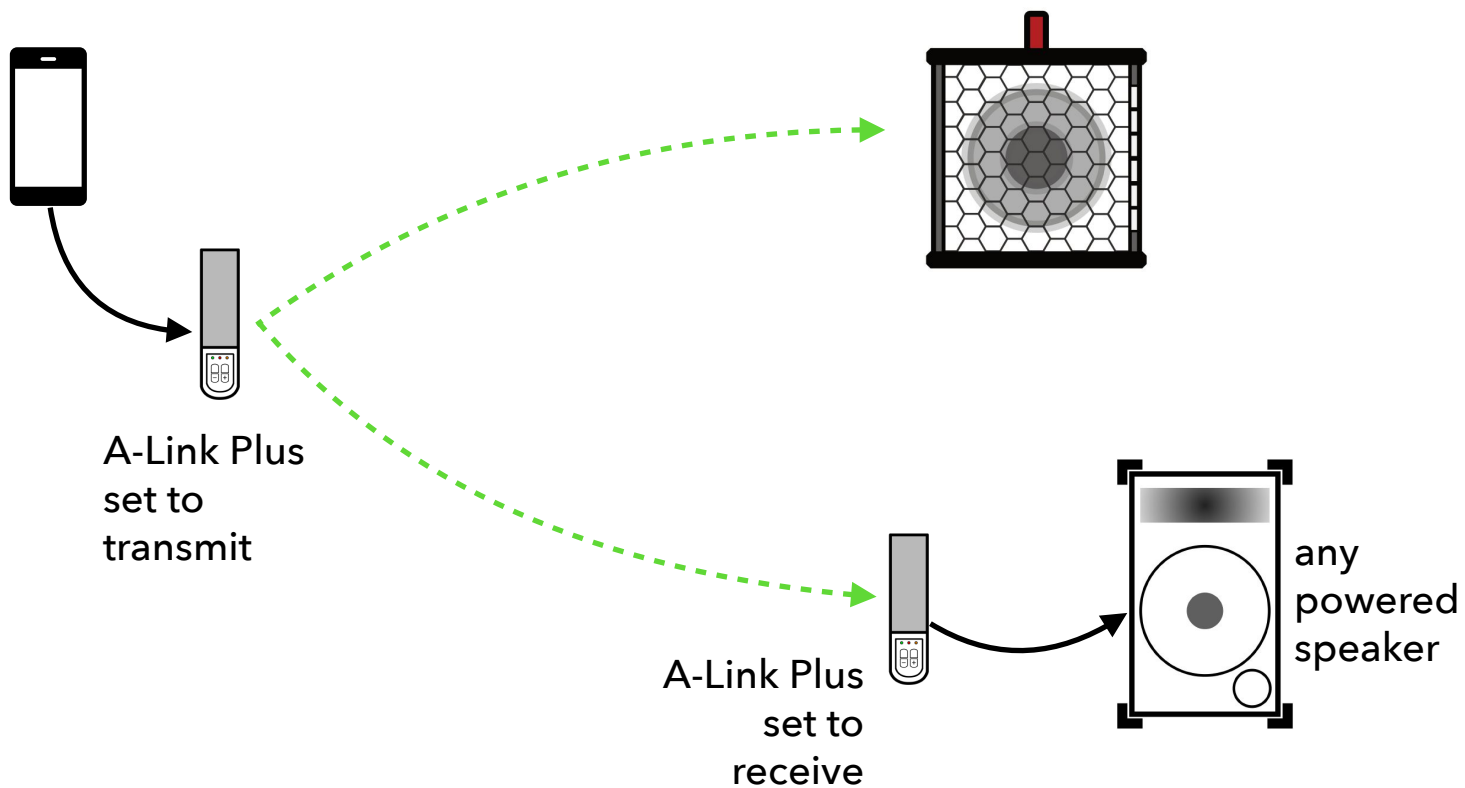
the *A-Link Plus* by Wet Sounds can be set to be either a SKAA transmitter or receiver – and it's reliable range (operating distance) is absolutely epic

34

more beach

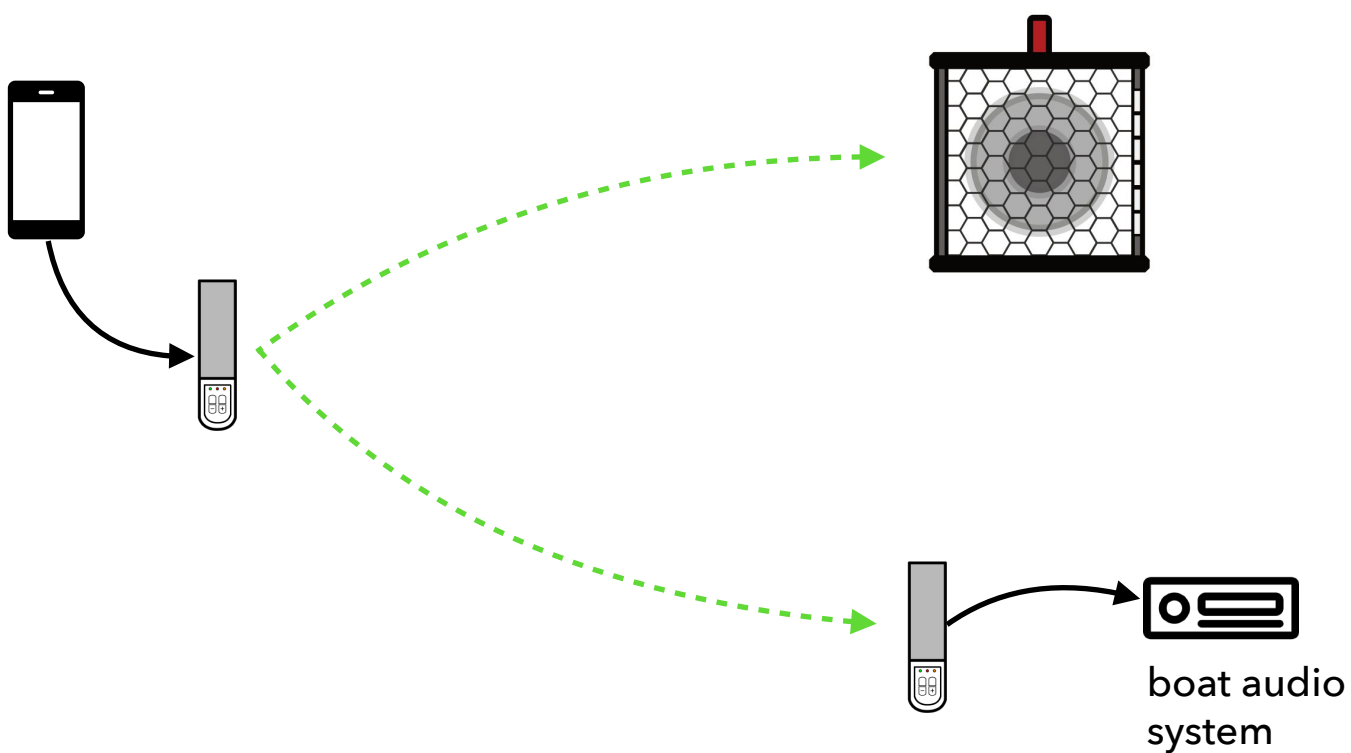
35

wet bar



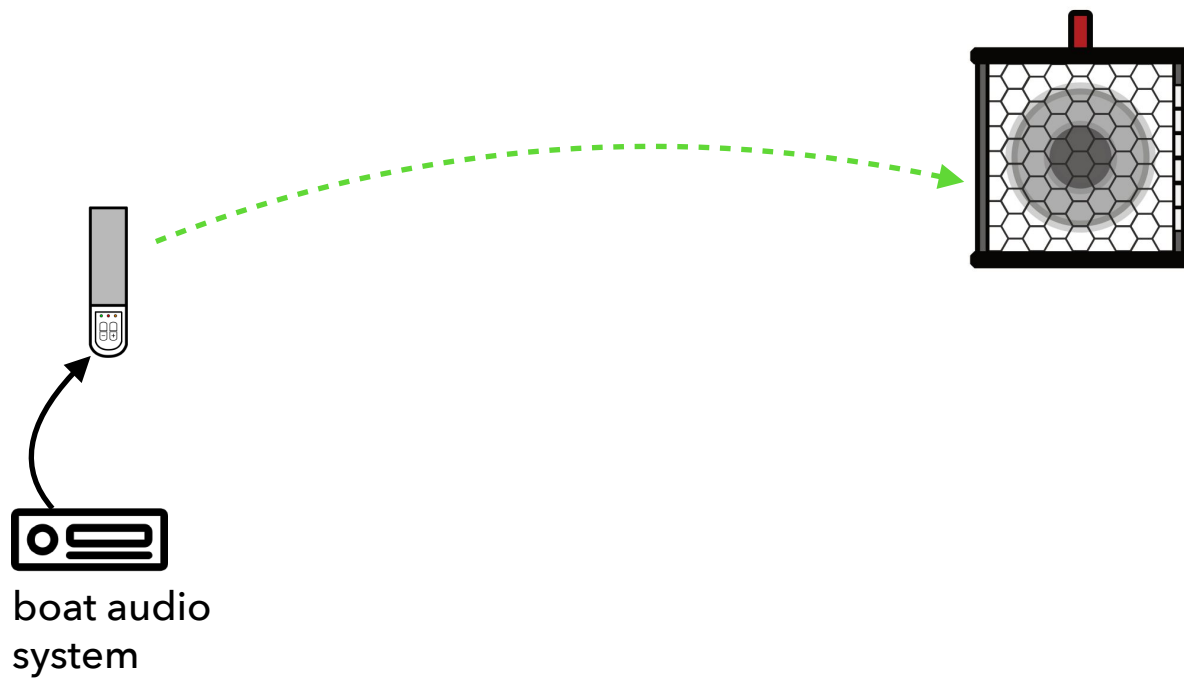
36

cottage & boat



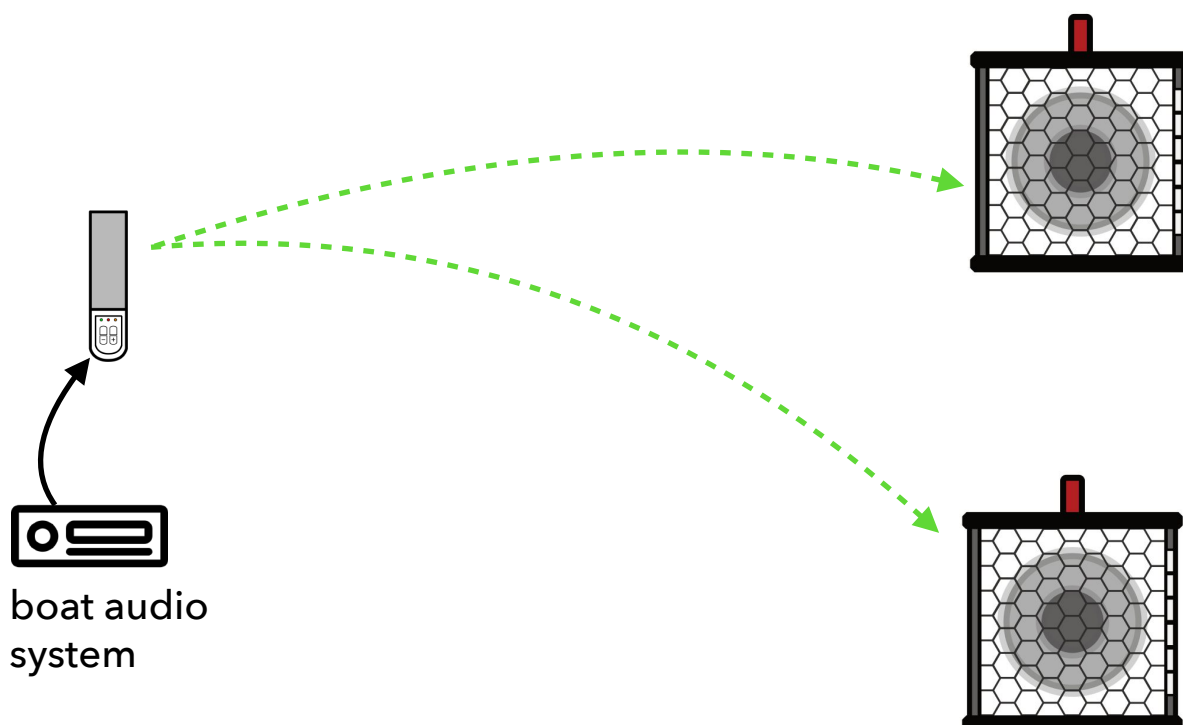
37

on the water



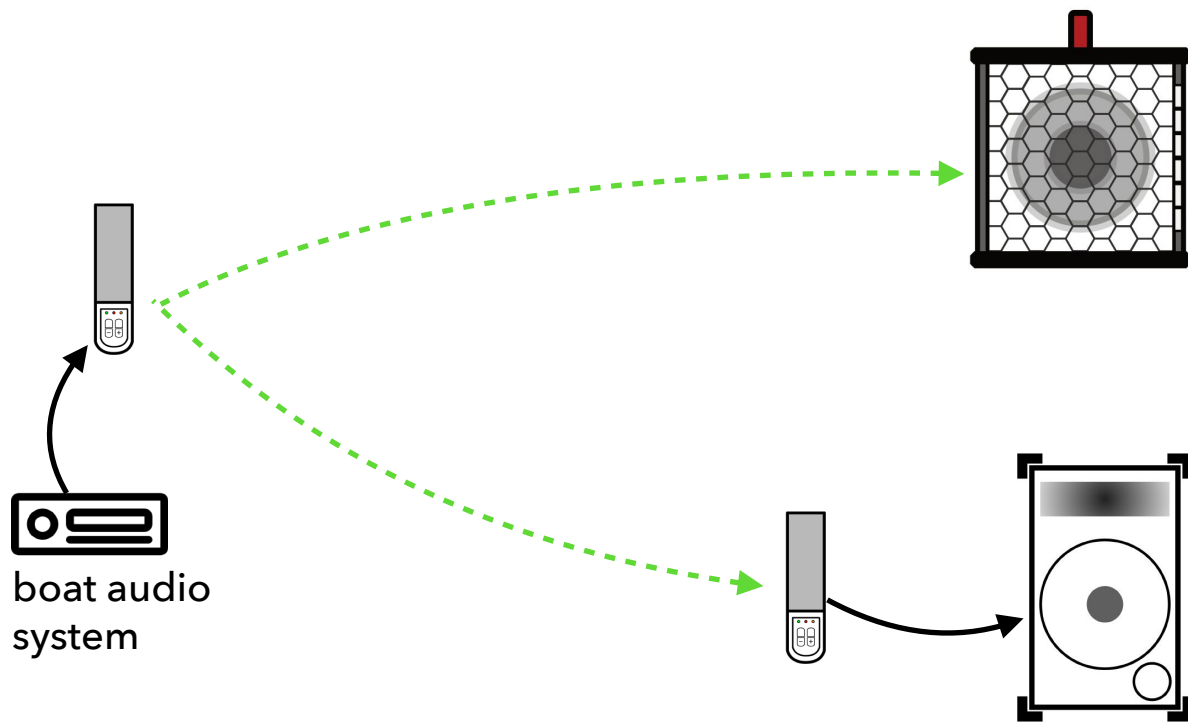
38

on the water II



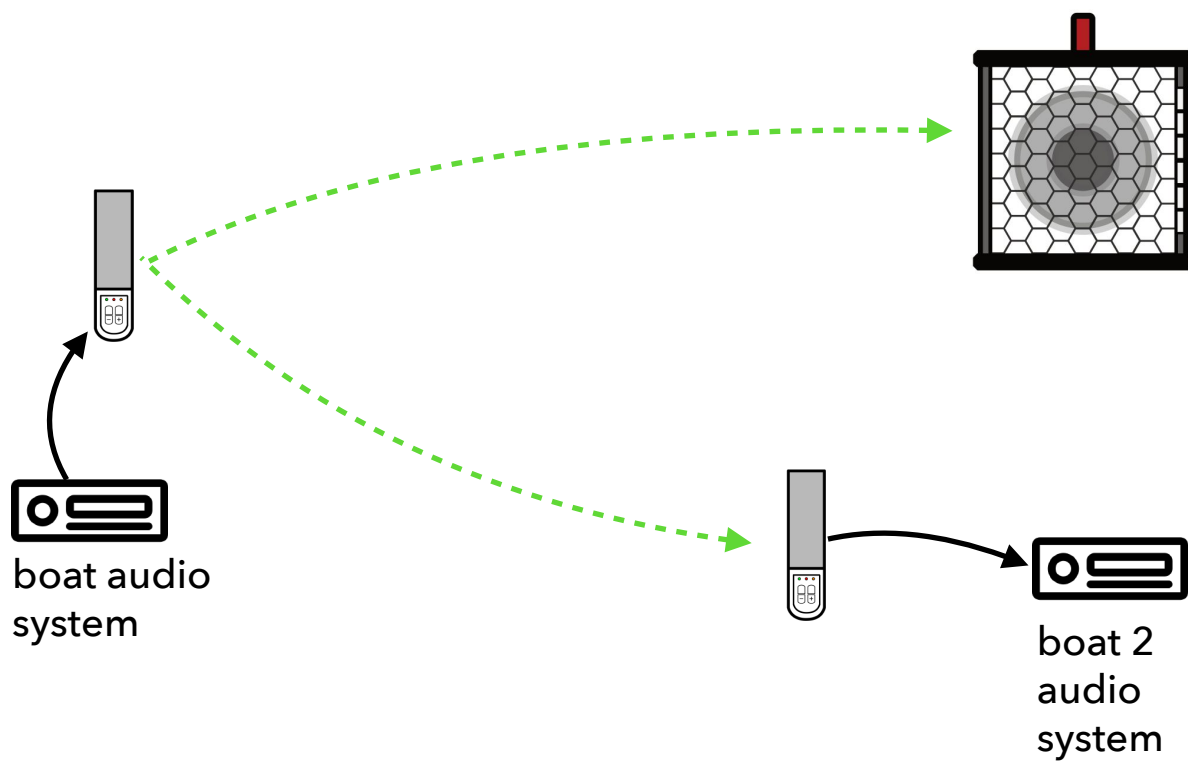
39

on the water III

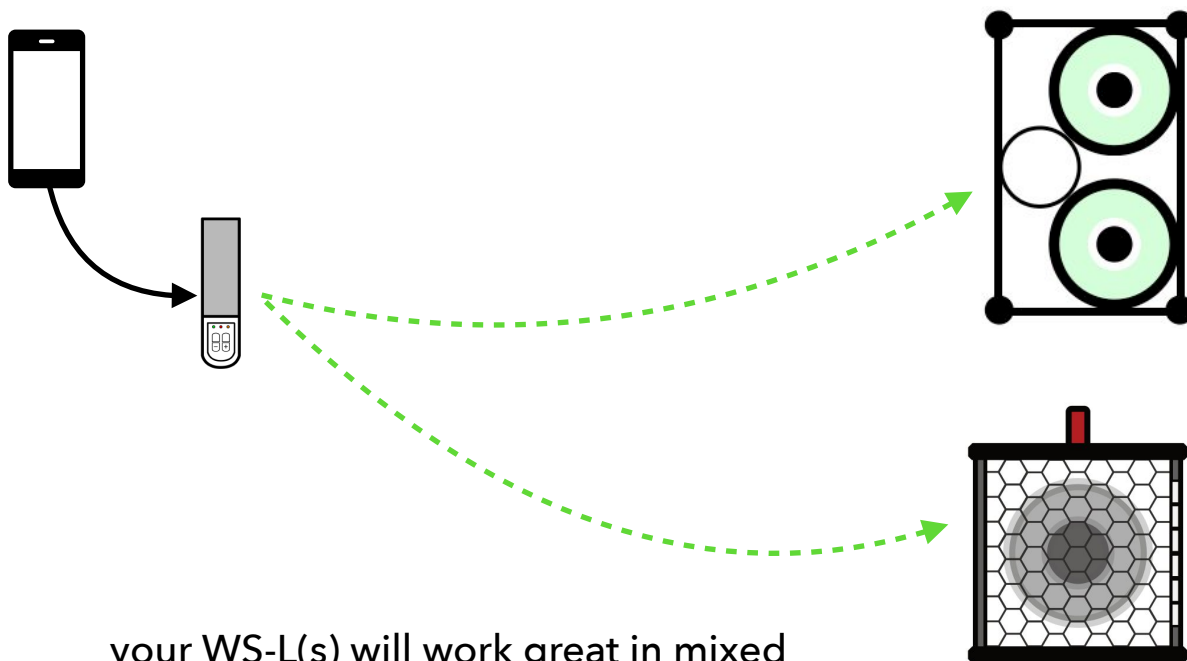


40

on the water IV

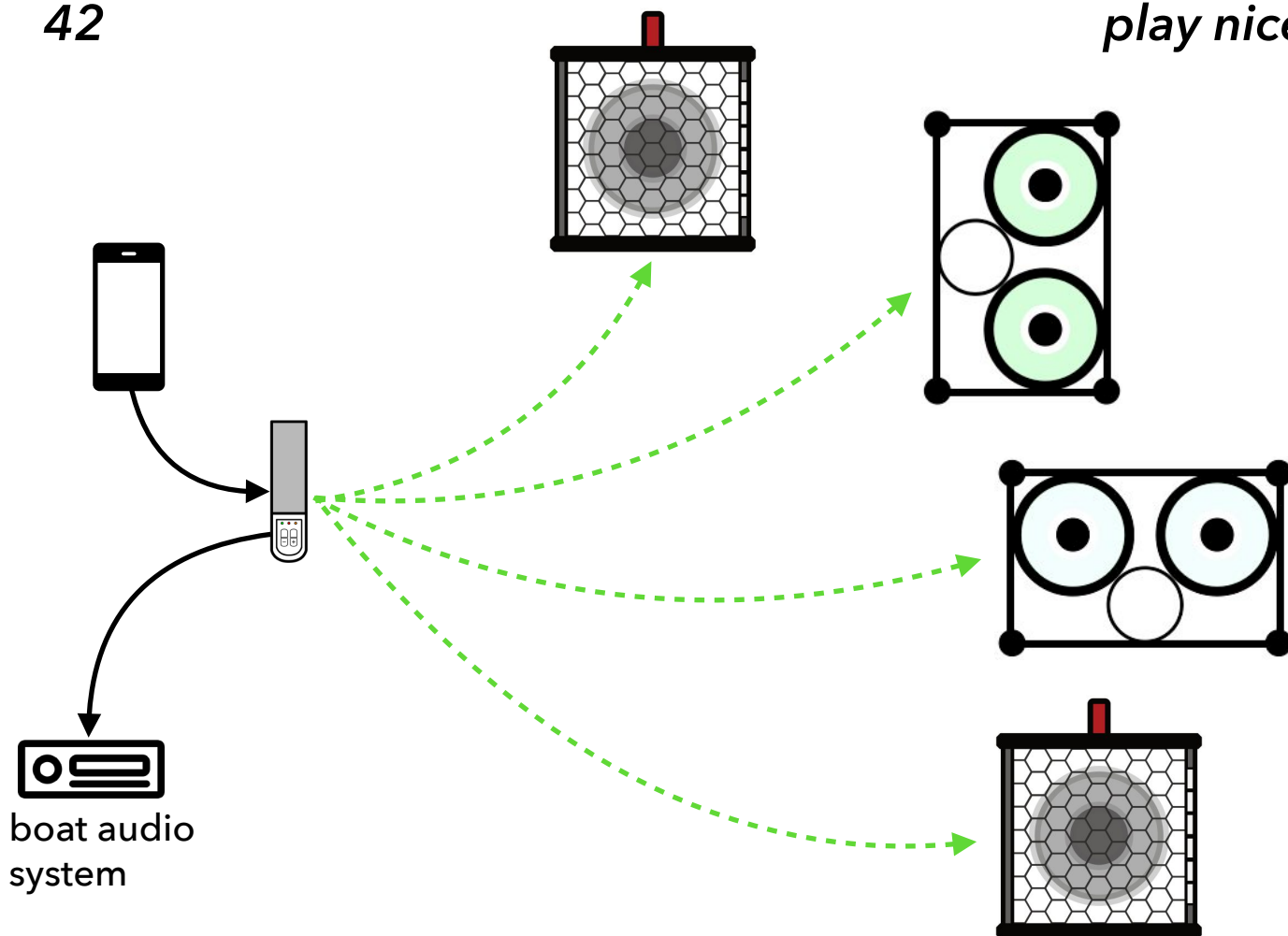


41

play nice

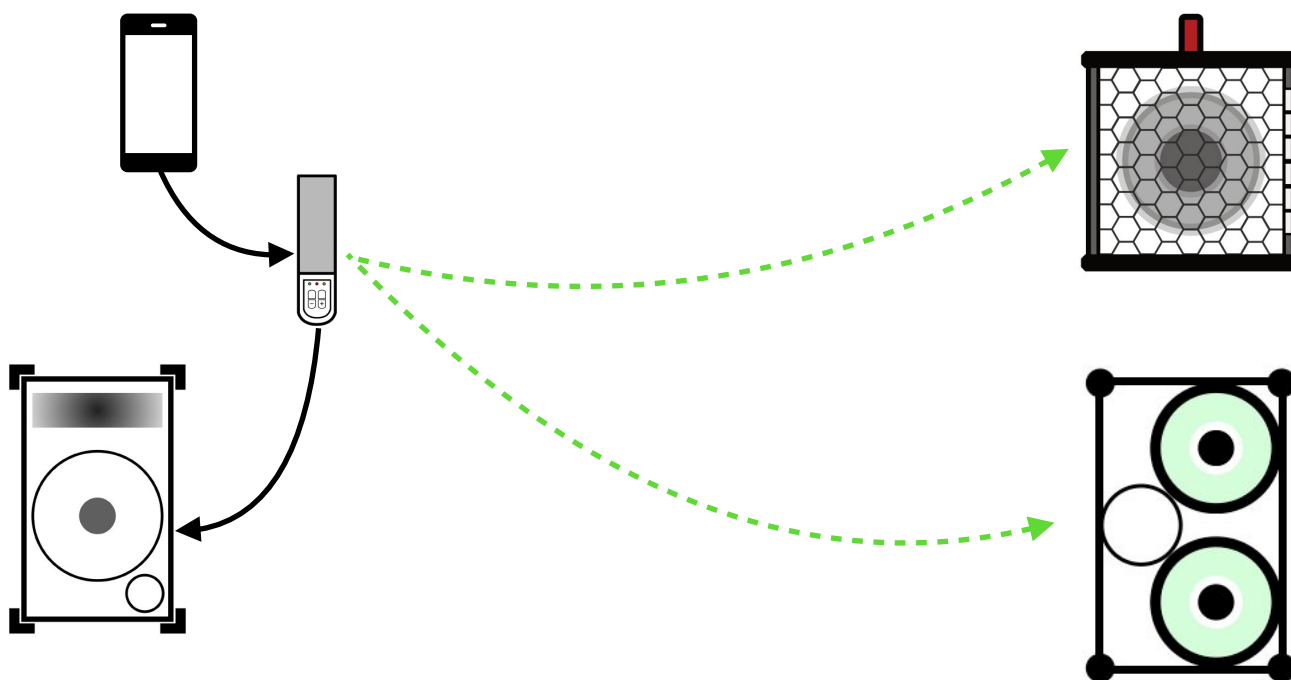
your WS-L(s) will work great in mixed networks together with SKAA-based speakers from other brands

42

play nice II

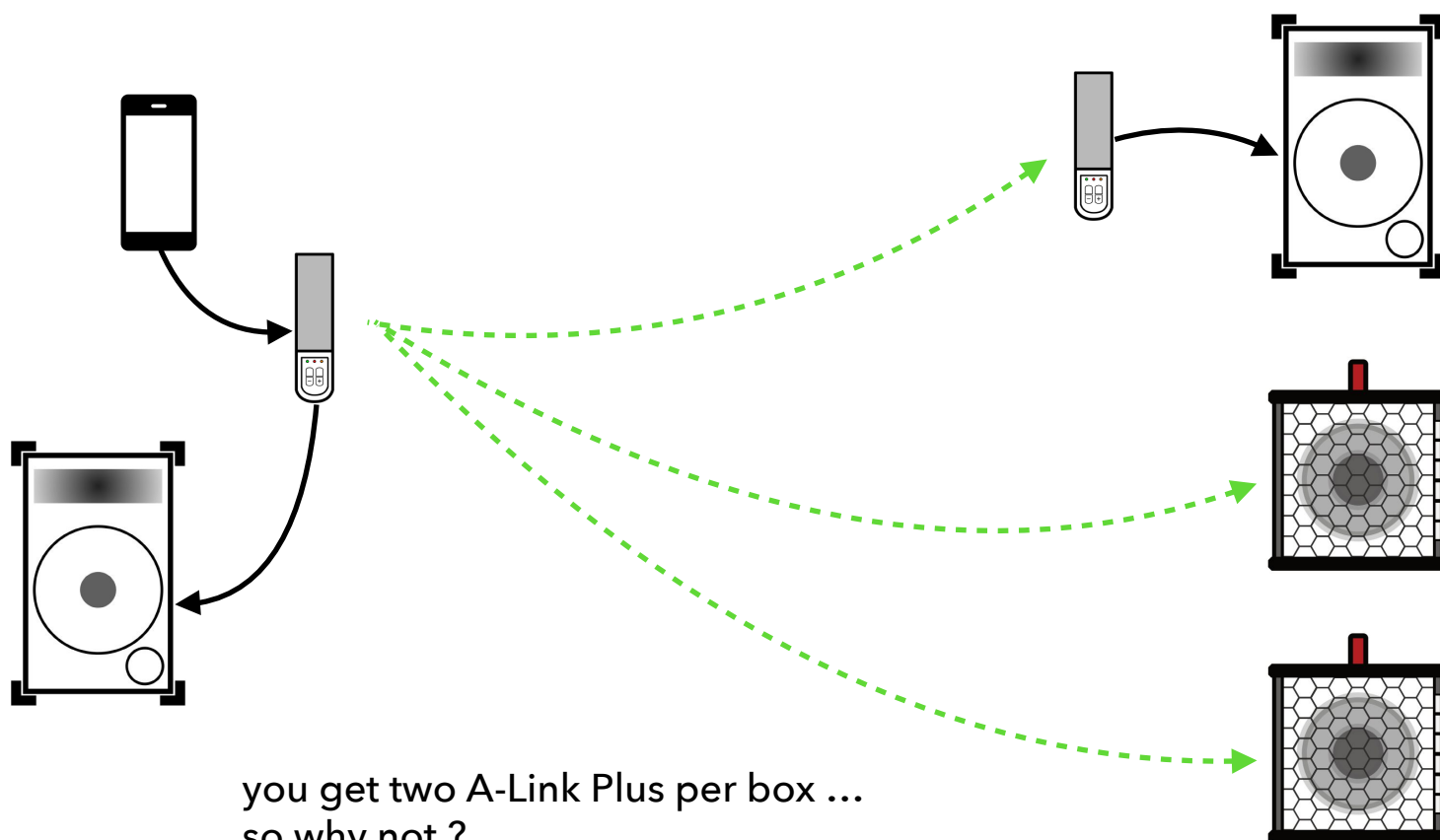
boat audio
system

43

what to do with that Mackie

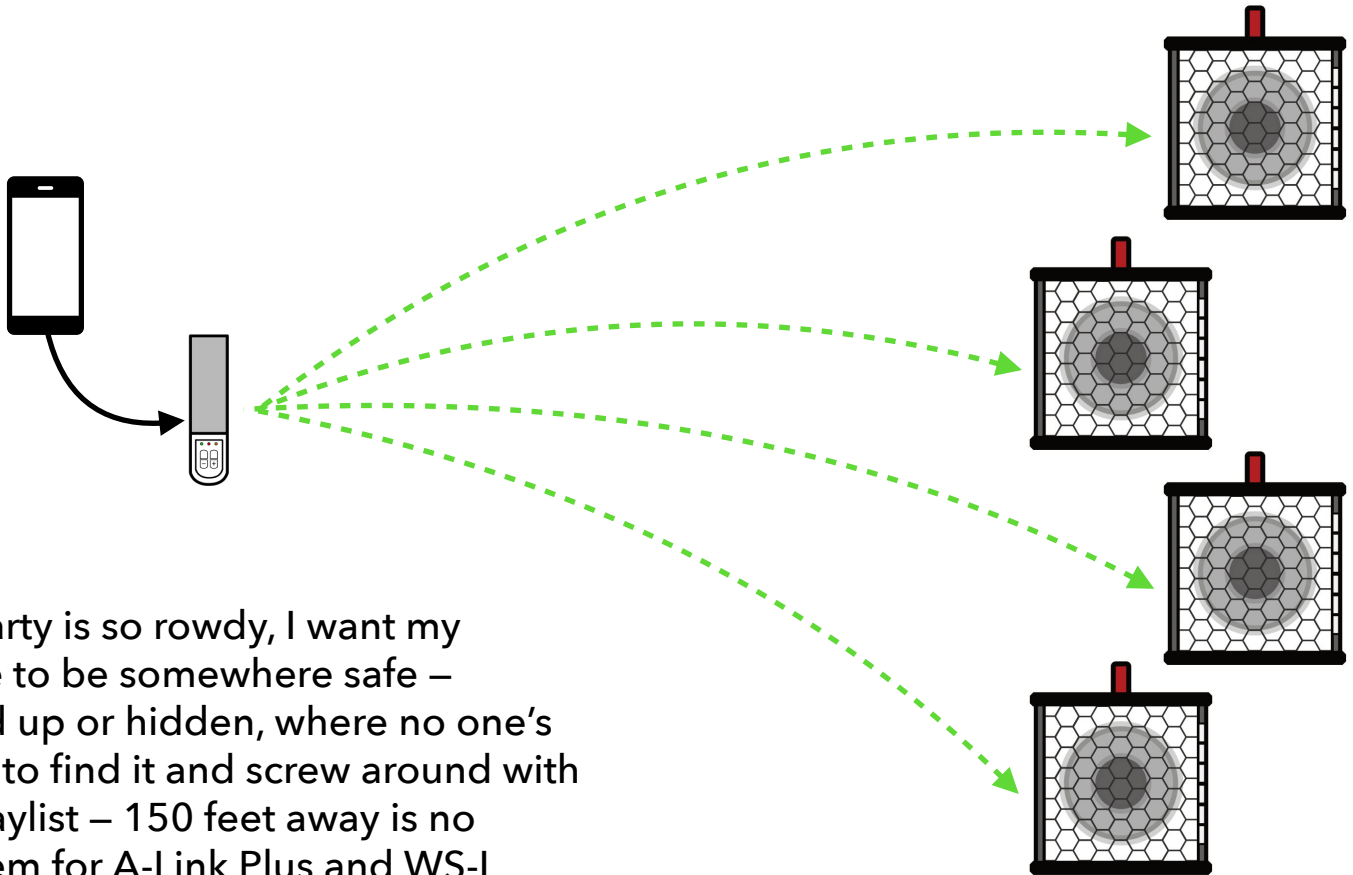
what else can we do with that handy Y
cable that comes with the A-Link Plus?

44

what to do with those 2 Mackies

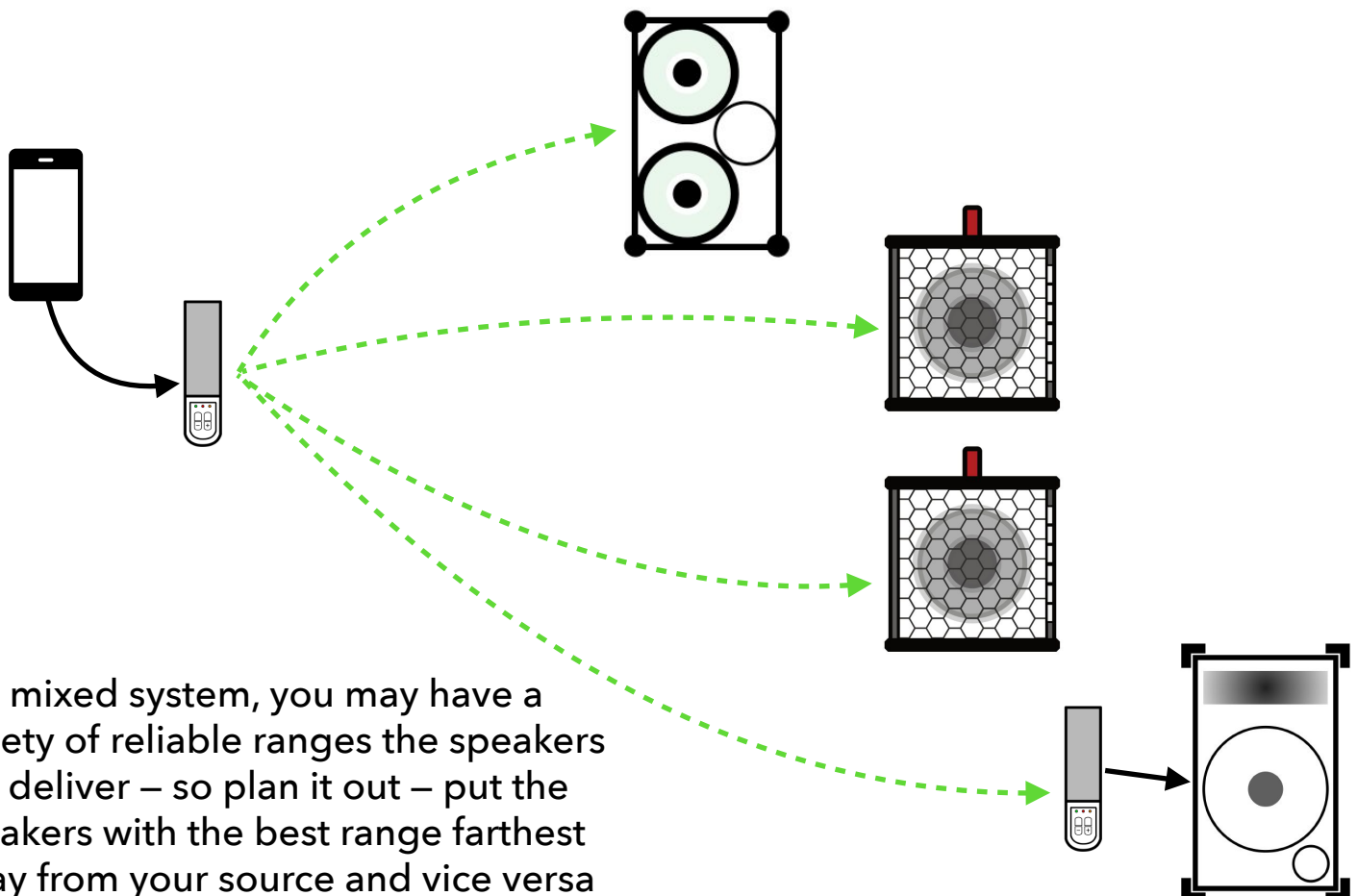
you get two A-Link Plus per box ...
so why not ?

45

you'll never find my phone I

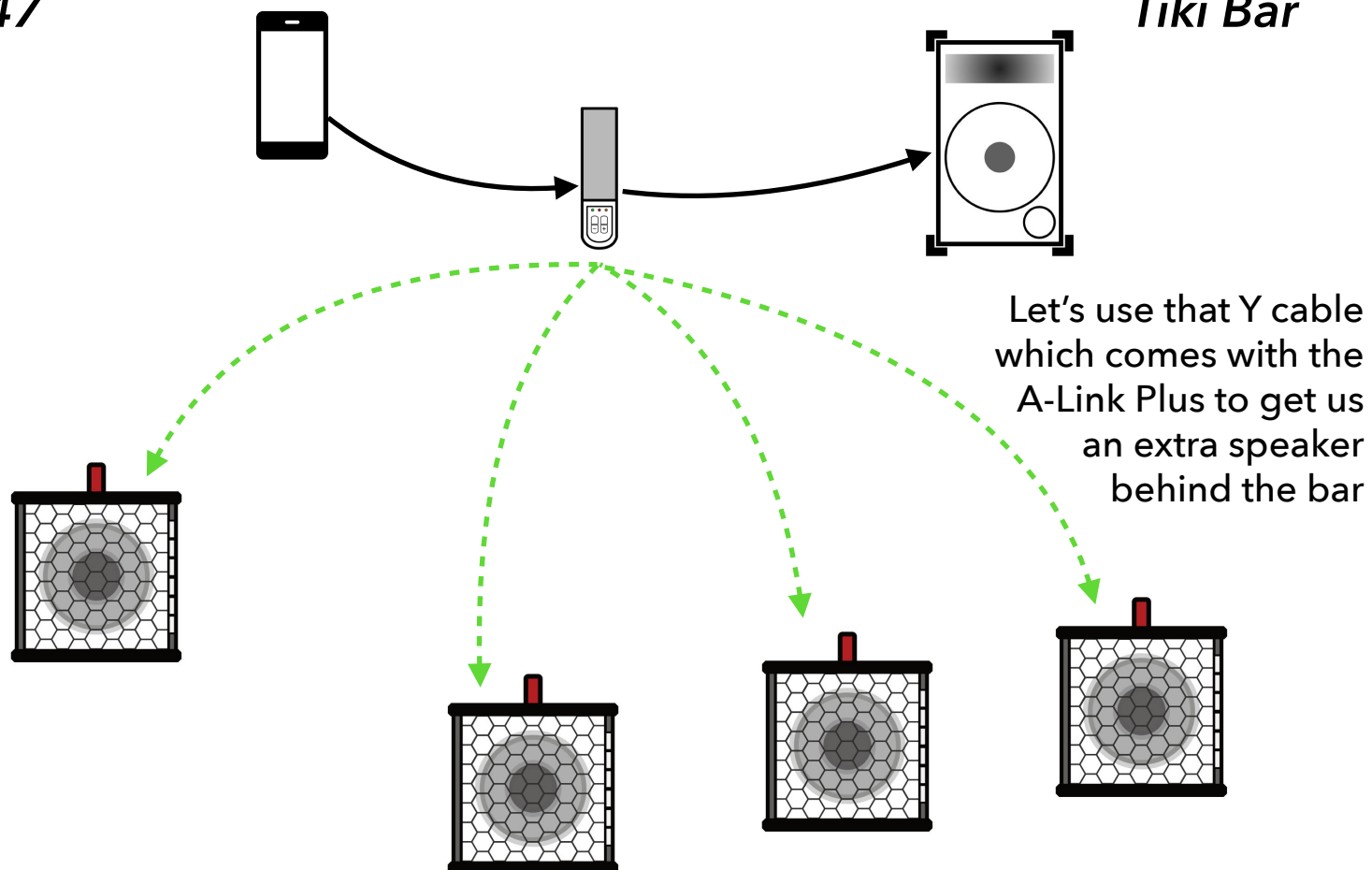
this party is so rowdy, I want my phone to be somewhere safe – locked up or hidden, where no one's going to find it and screw around with my playlist – 150 feet away is no problem for A-Link Plus and WS-L

46

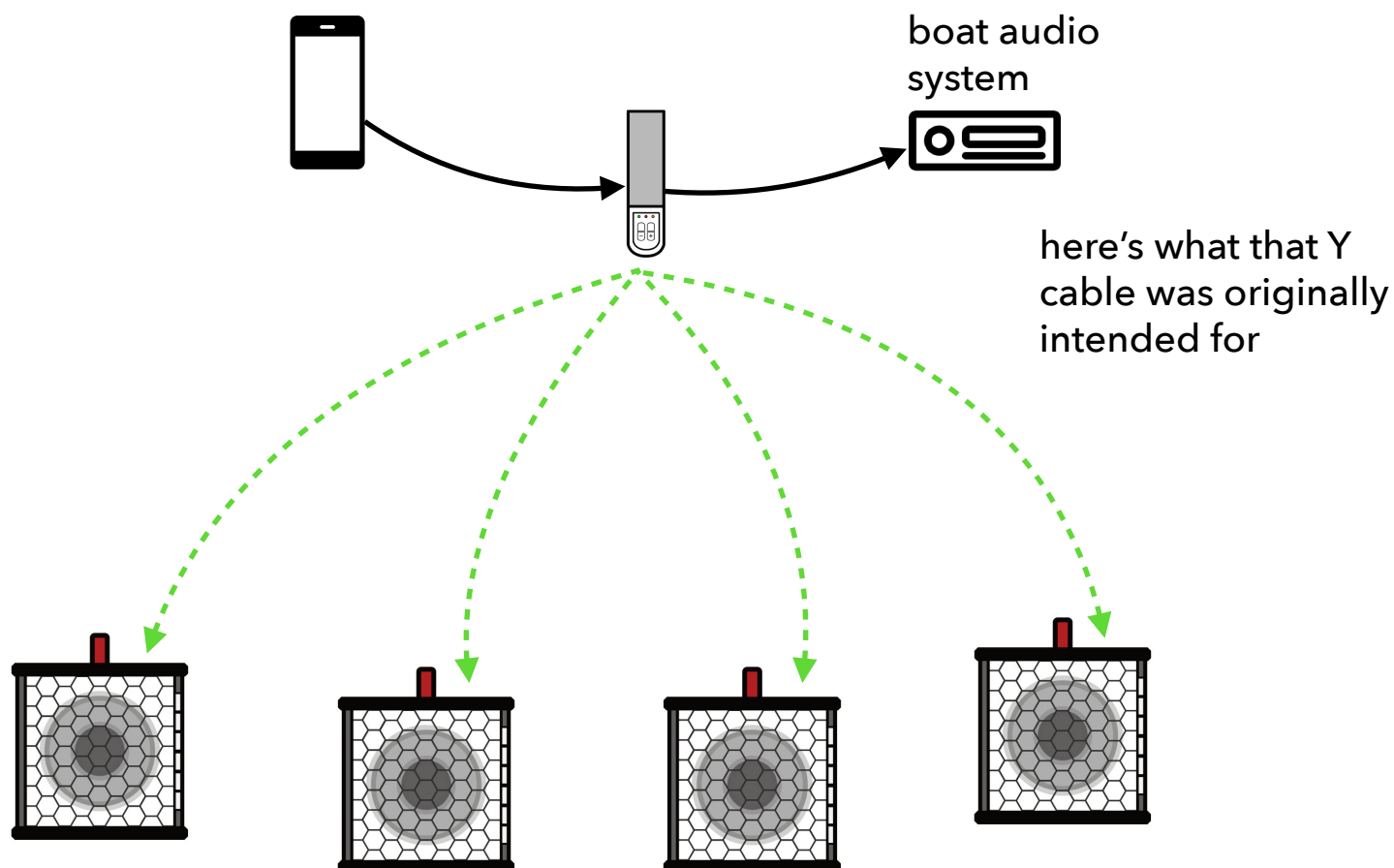
you'll never find my phone II

In a mixed system, you may have a variety of reliable ranges the speakers can deliver – so plan it out – put the speakers with the best range farthest away from your source and vice versa

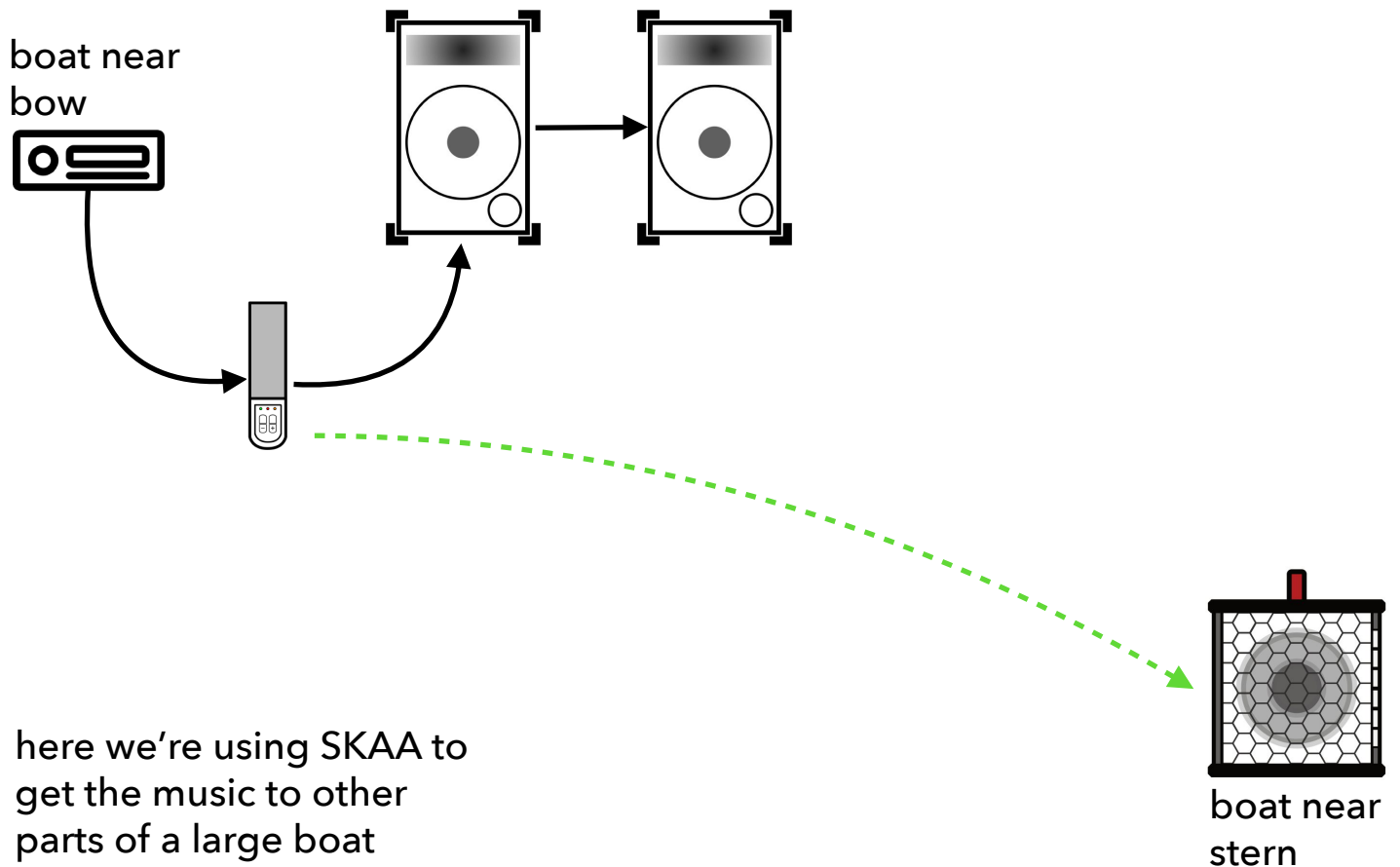
47

Tiki Bar

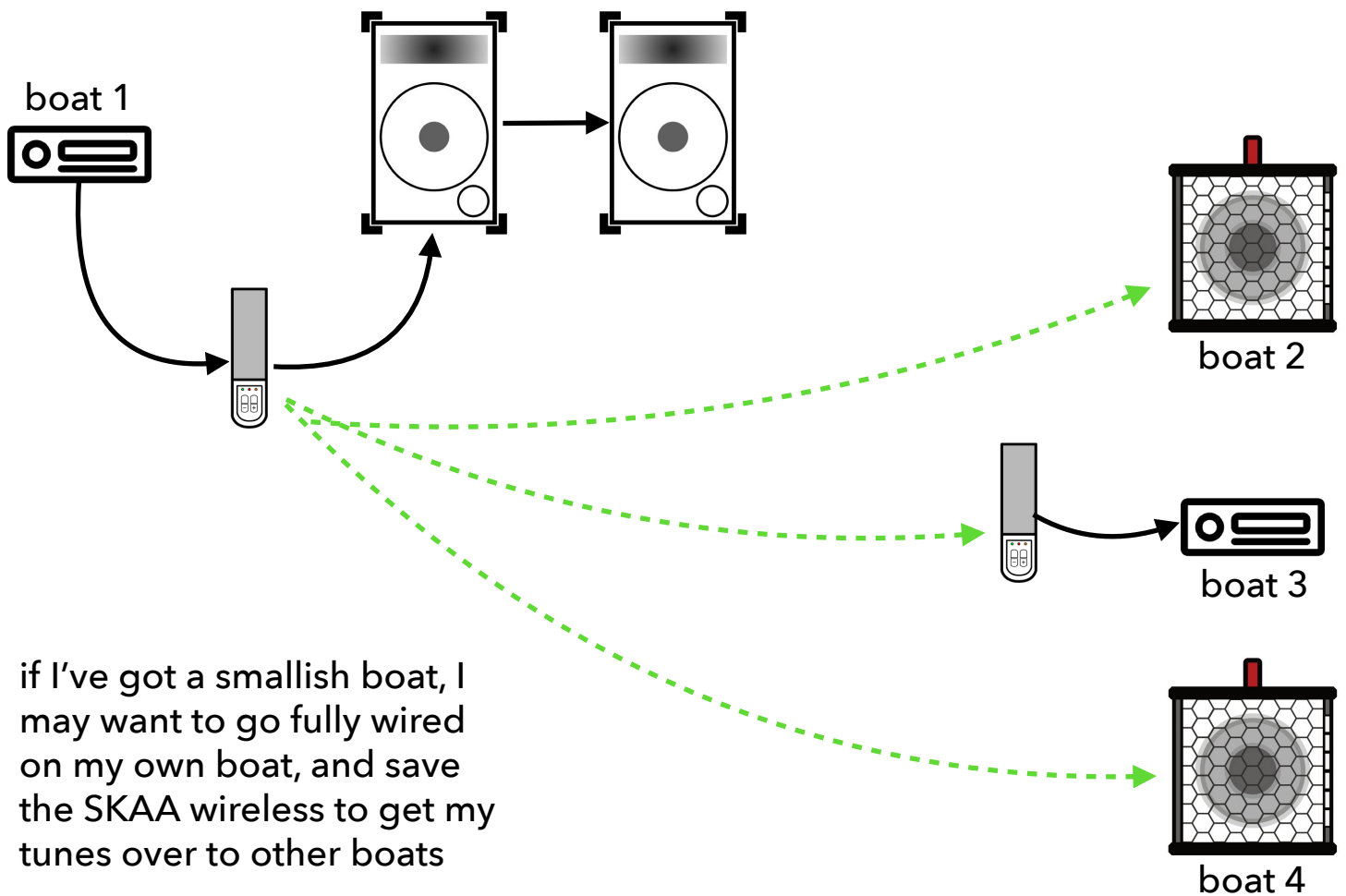
48

Tiki Boat

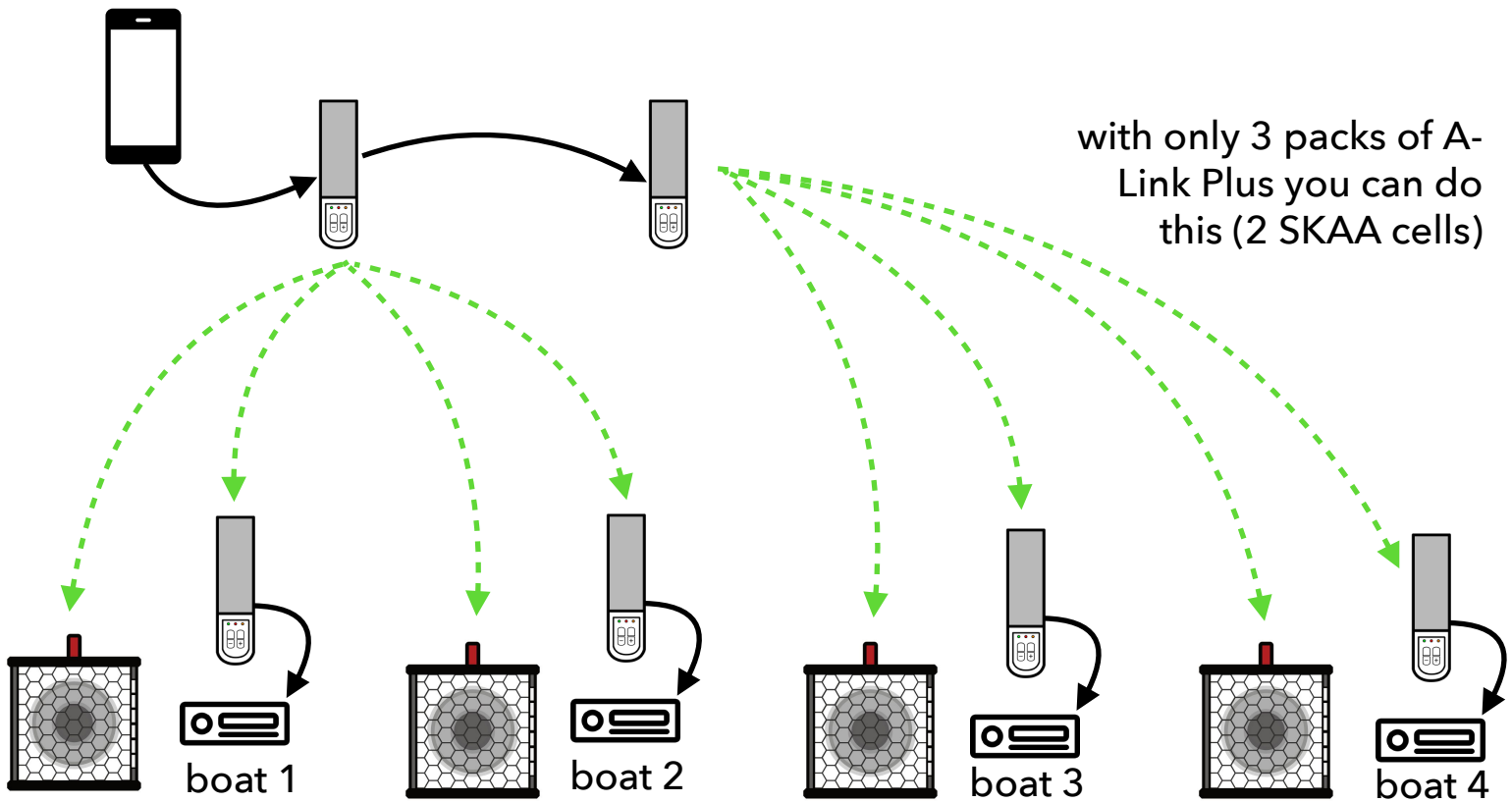
49

boat bum

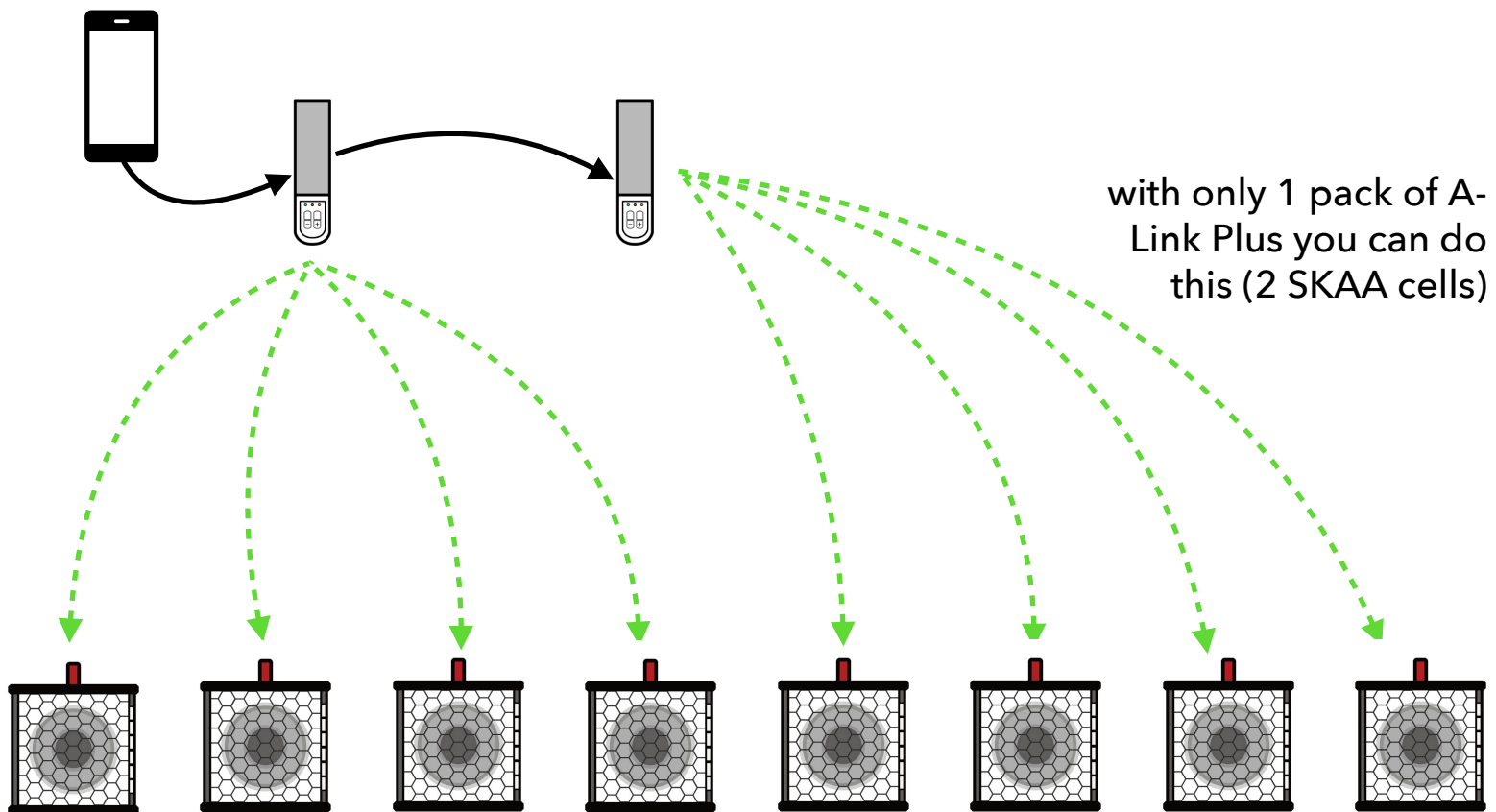
50

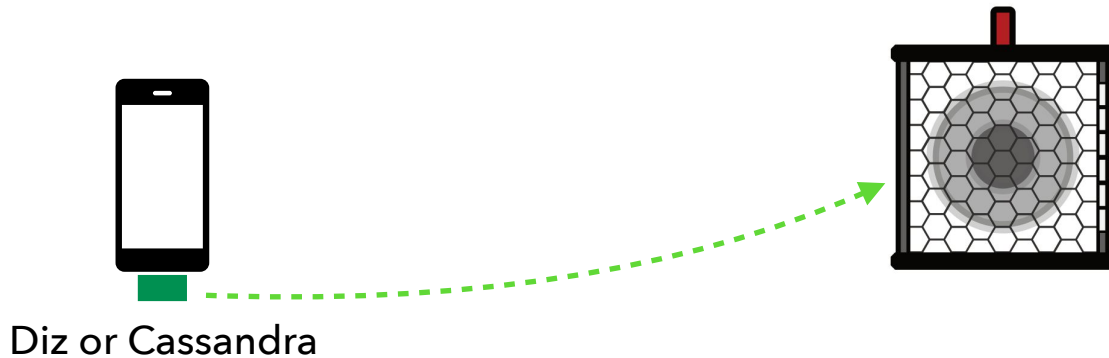
boat bum II

51

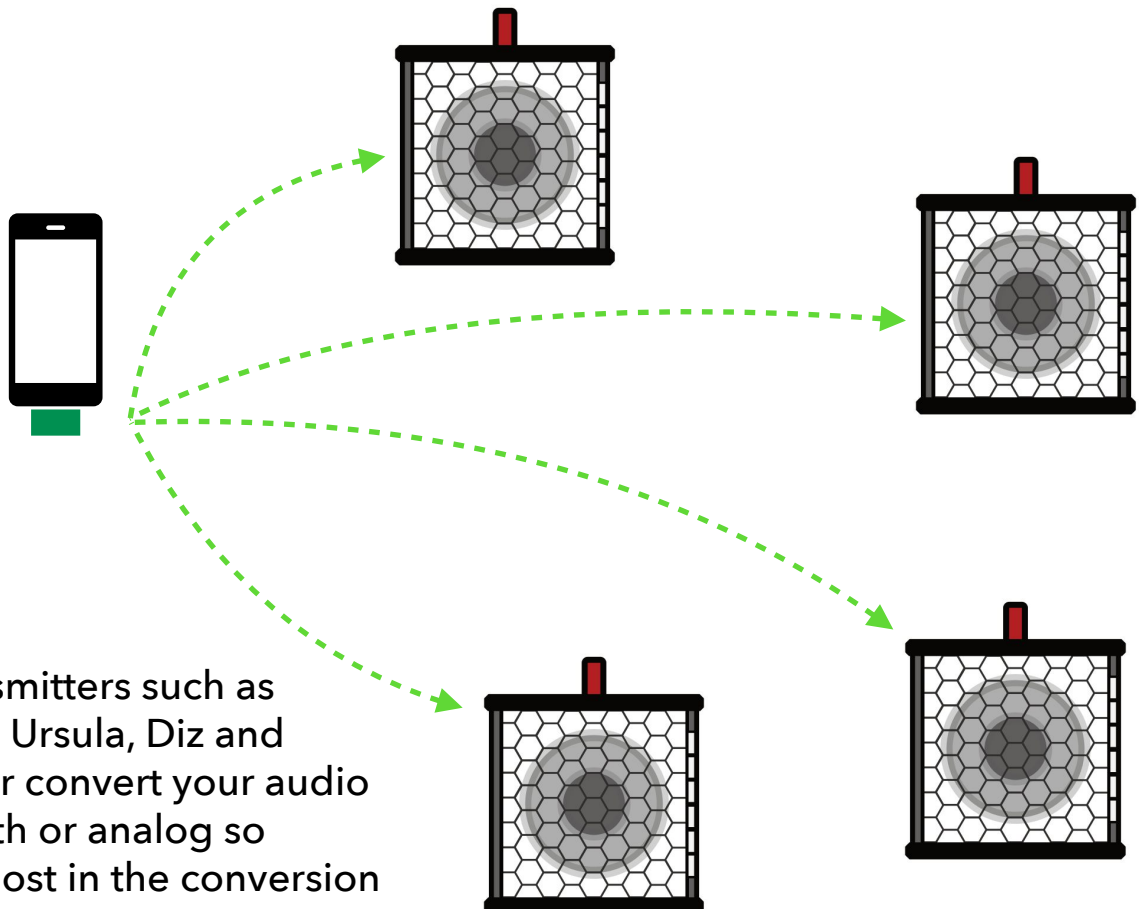
flotilla

52

flotilla II

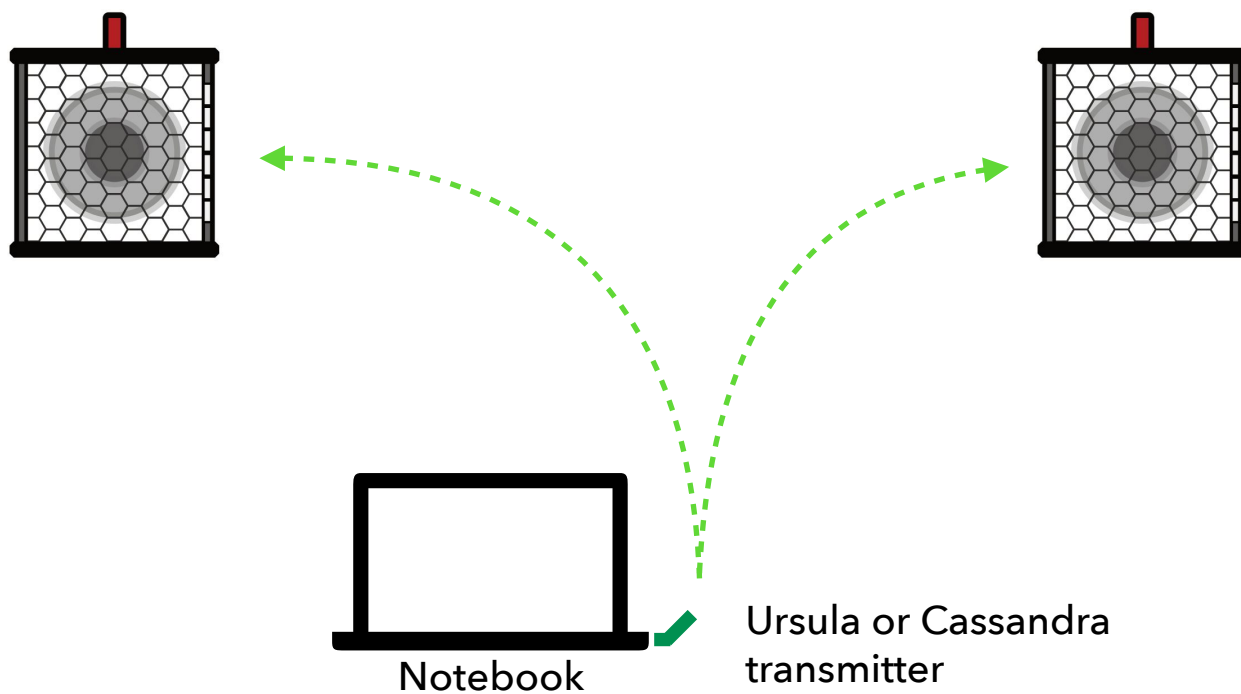


when audio quality is super important,
ditch the bluetooth and analog wires
entirely and transmit pristine digital
audio over SKAA instead

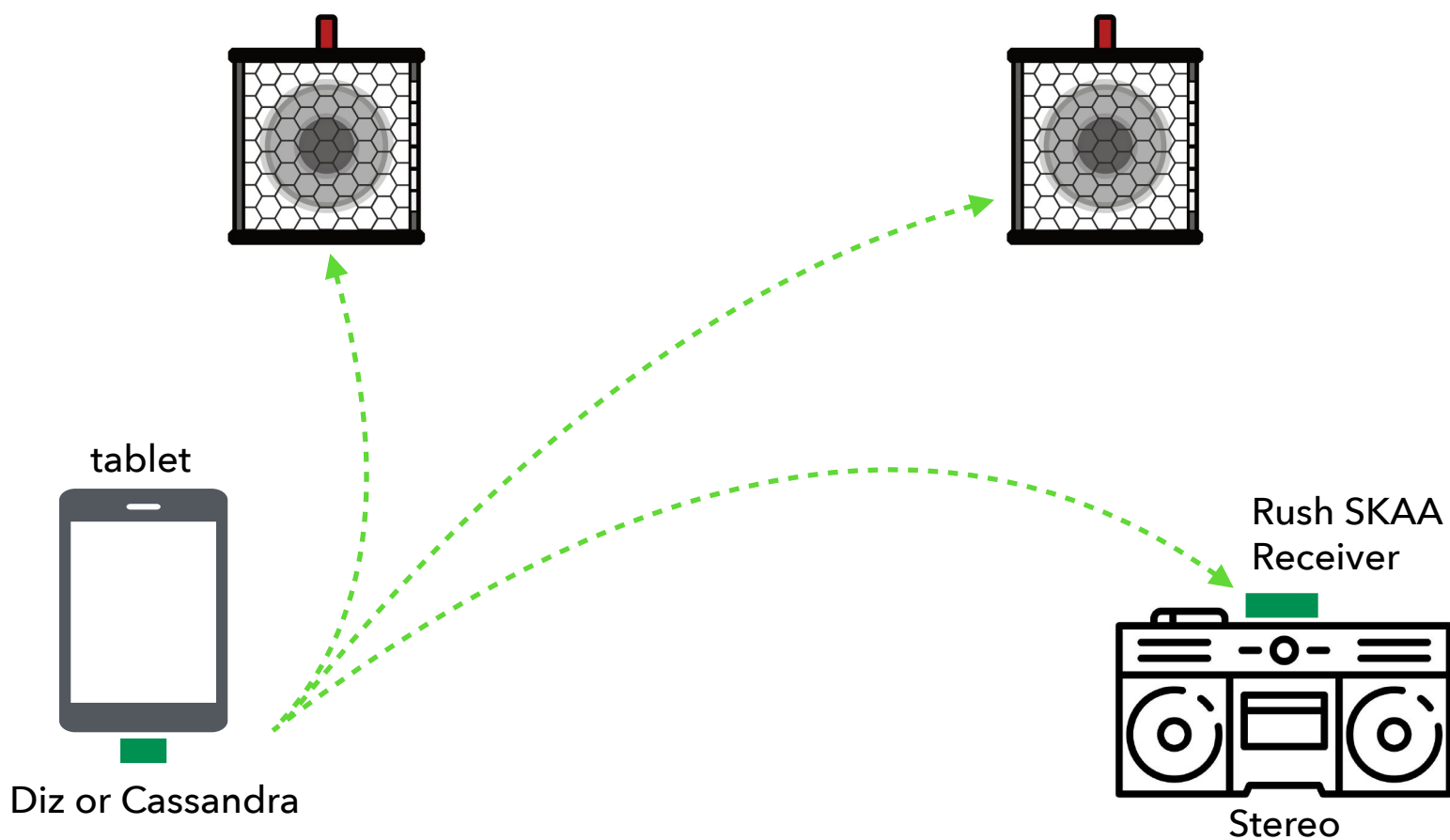


SKAA transmitters such as
Cassandra, Ursula, Diz and
Talisa never convert your audio
to bluetooth or analog so
nothing is lost in the conversion

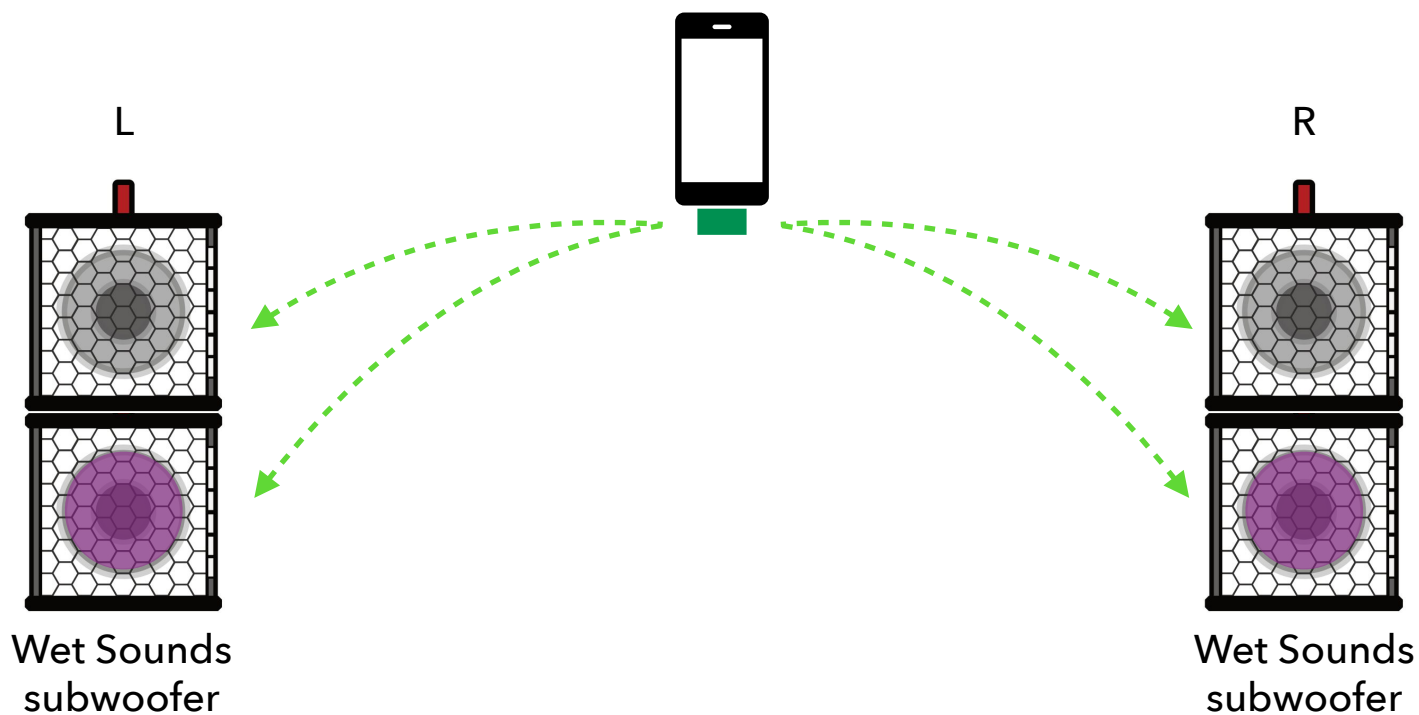
55

pump up the fidelity III

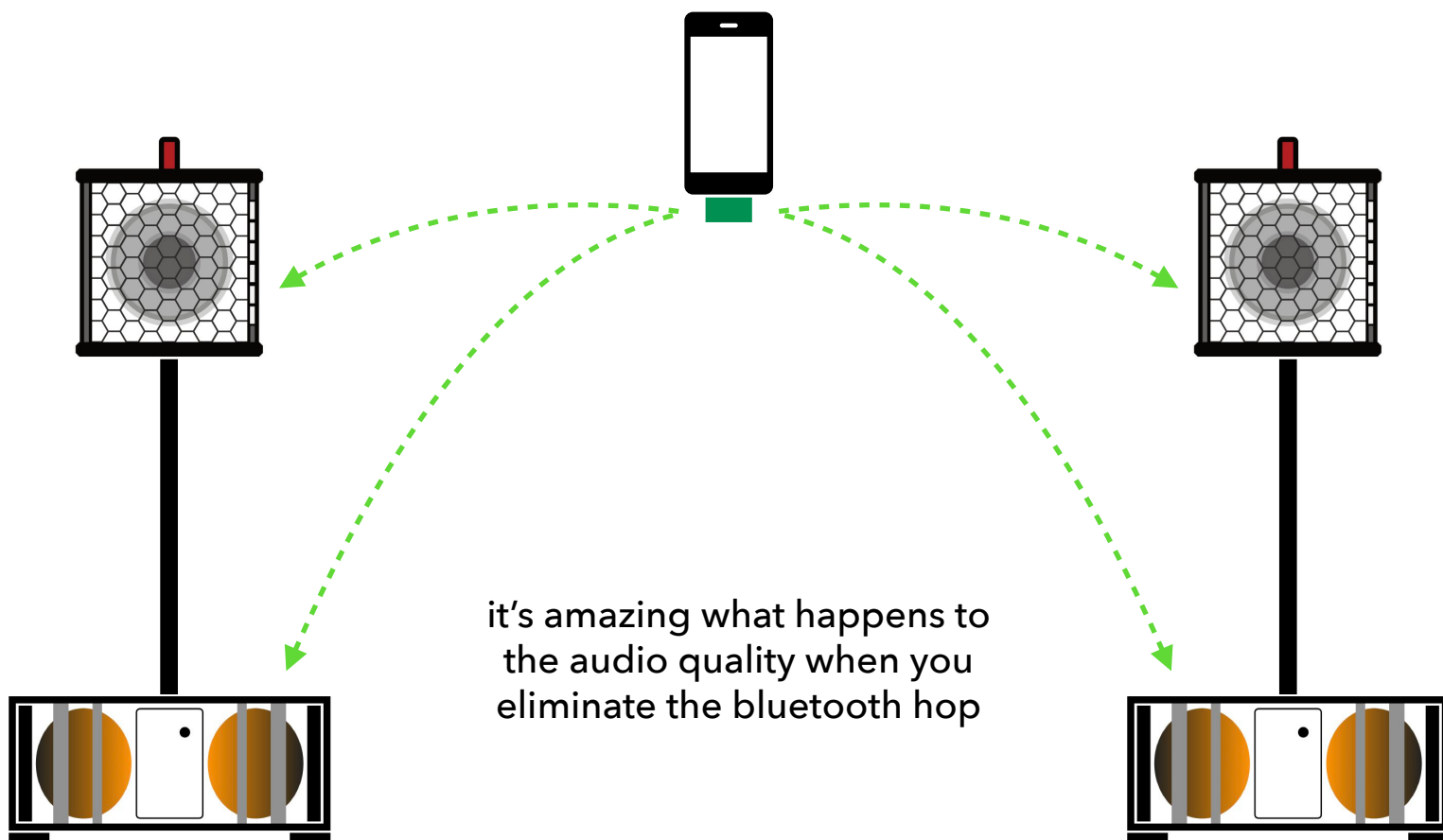
56

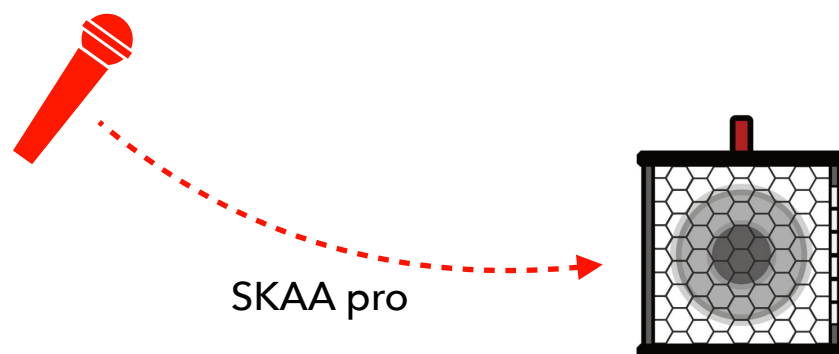
pump up the fidelity IV

57

hifi party

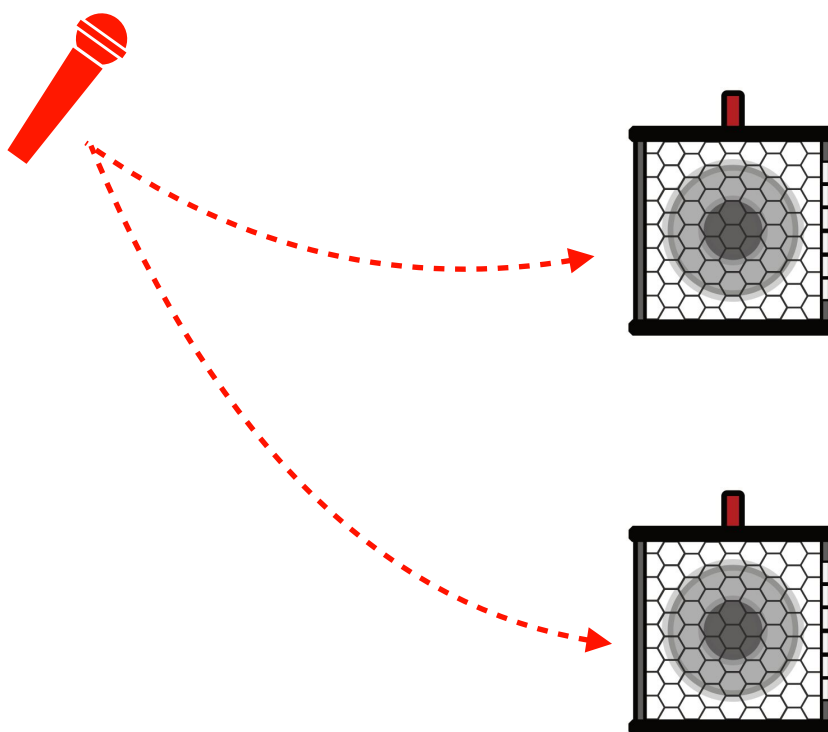
58

hifi party II



these are easy setups for hawking at a trade show, or making announcements at a soccer game – come get your orange slices ...

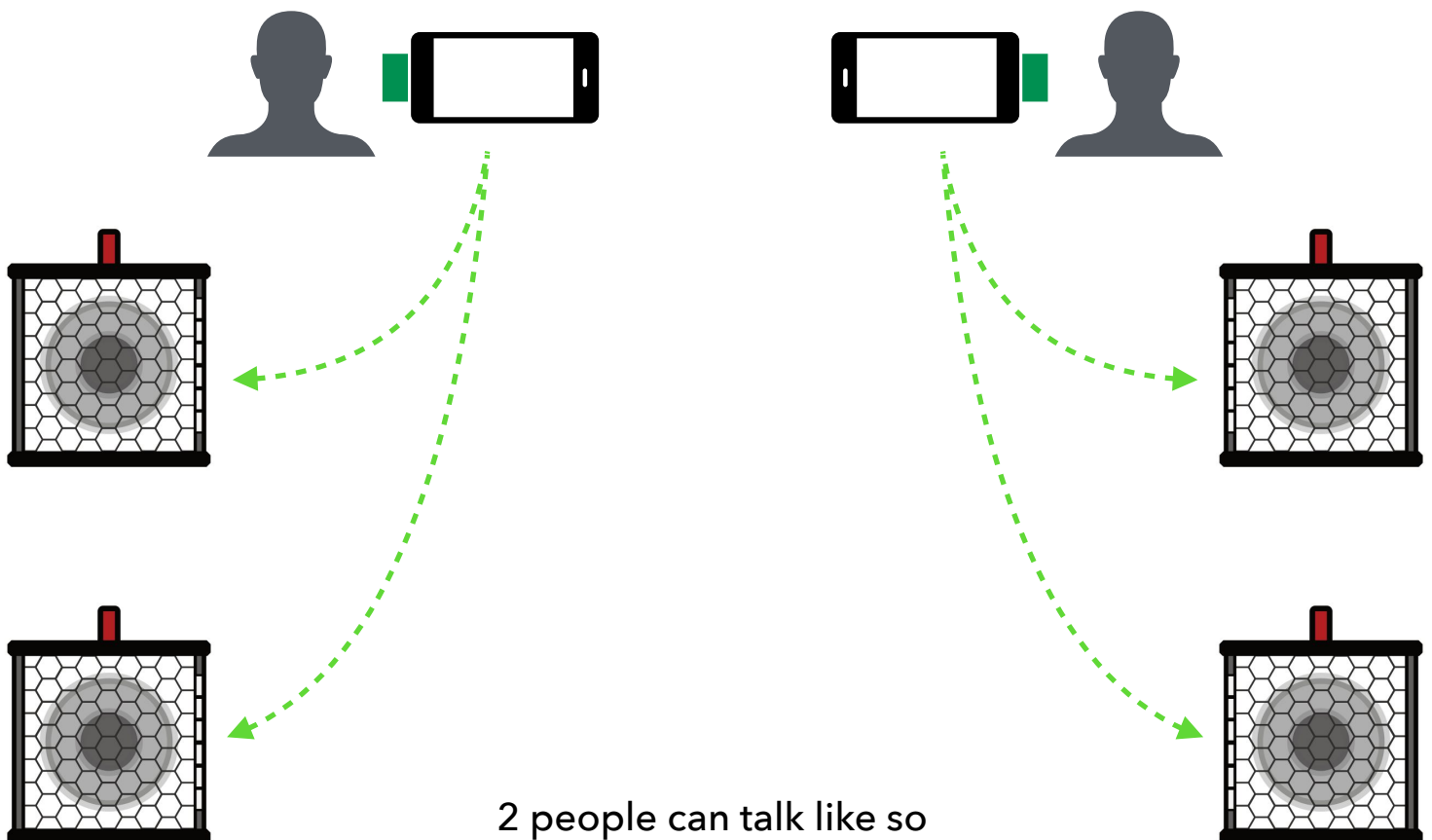
SKAA pro
mic such as
Valerie Mk2



61

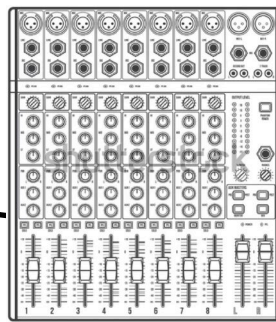
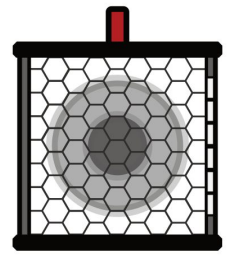
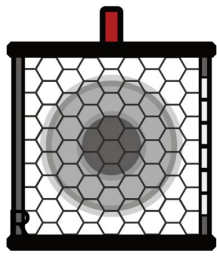
fake mic I

62

fake mic II

63

basic PA for live performance

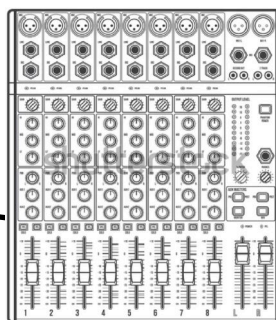
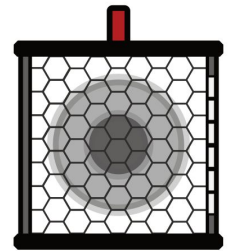
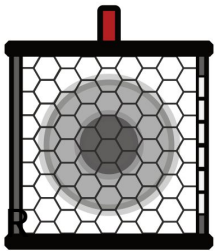


any mixer

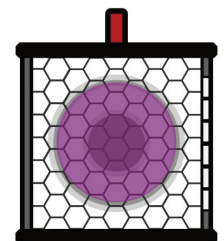
inputs to the
mixer can be
anything you
wish

64

... add a sub

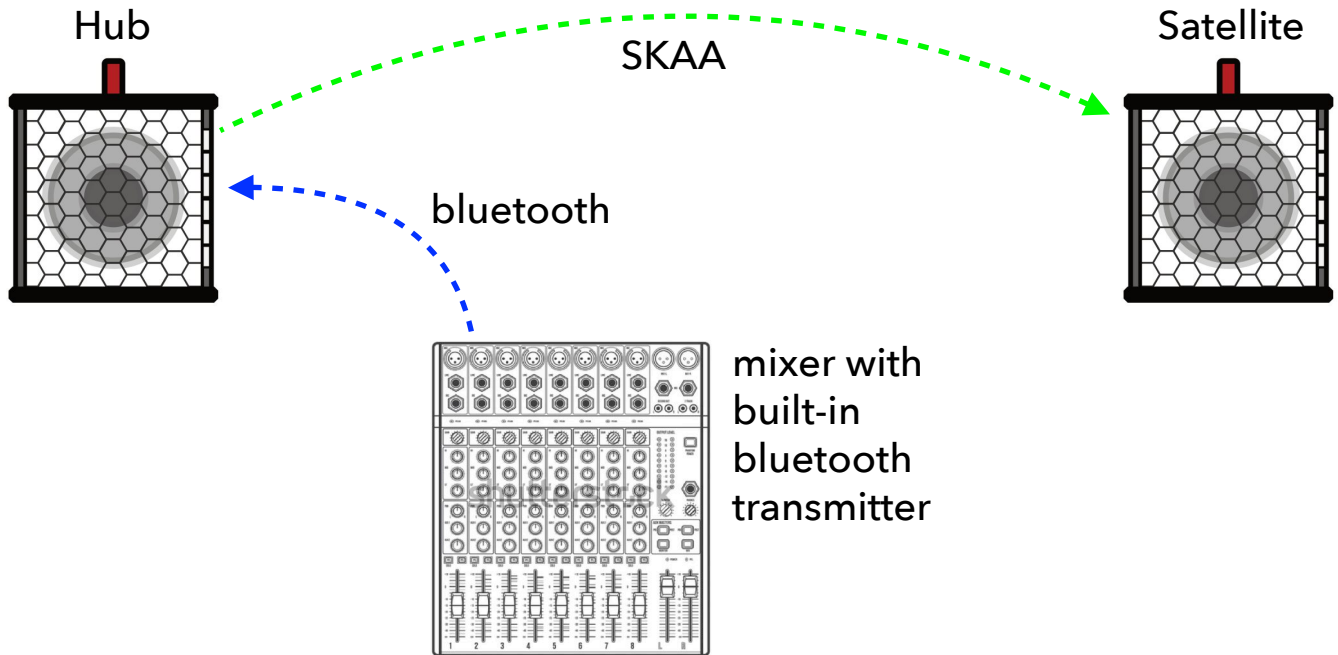


any mixer



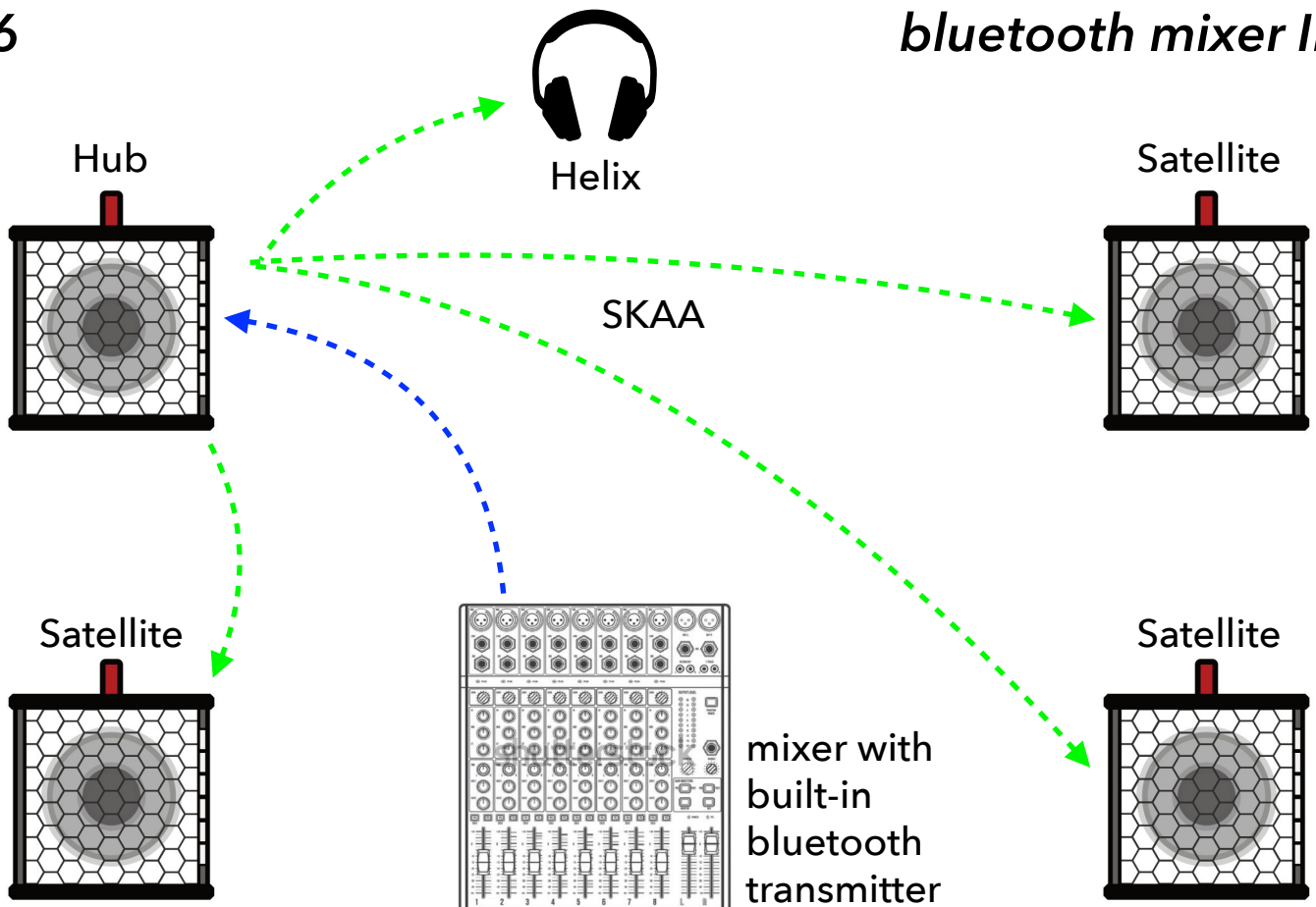
Wet Sounds
subwoofer

65

bluetooth mixer

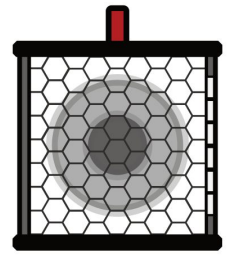
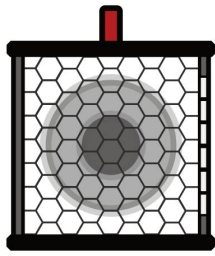
don't try these two setups with microphones or live instruments as inputs since long bluetooth latency will be applied to absolutely everything

66

bluetooth mixer II

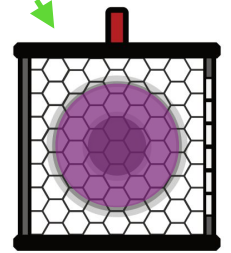
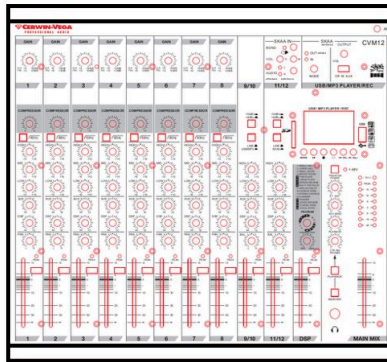
67

wireless PA



Helix

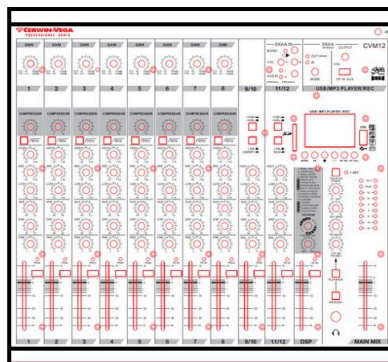
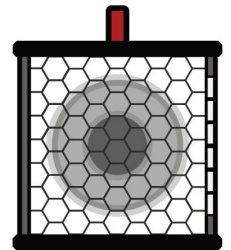
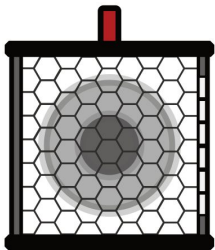
Mixer with
SKAA / SKAA Pro
built in



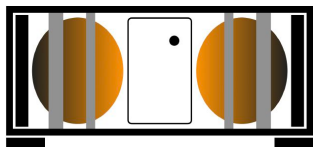
subwoofer

68

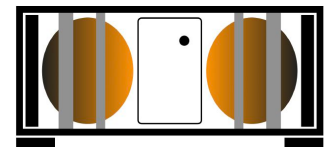
wireless PA II



inputs to the mixer can
be anything you wish



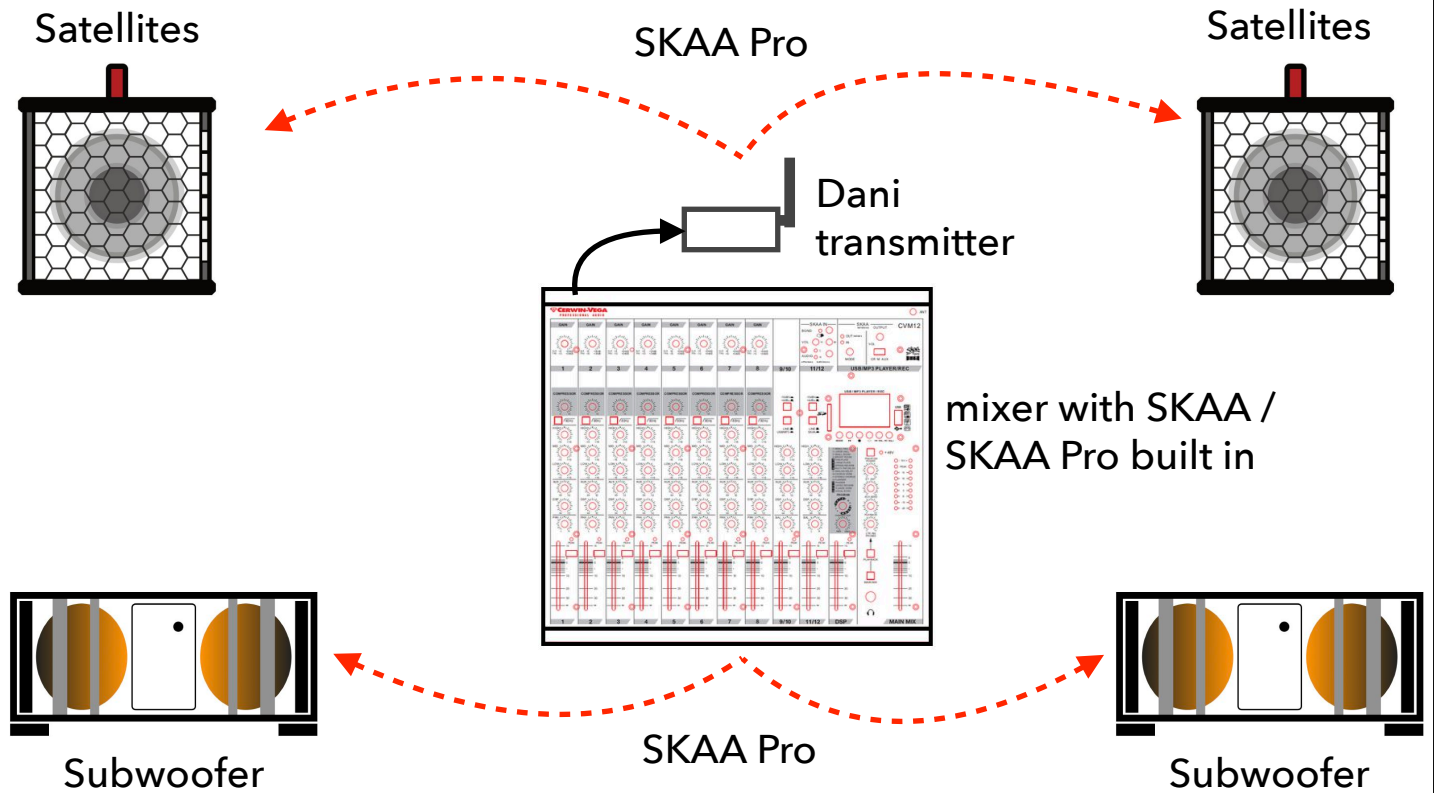
Subwoofer



Subwoofer

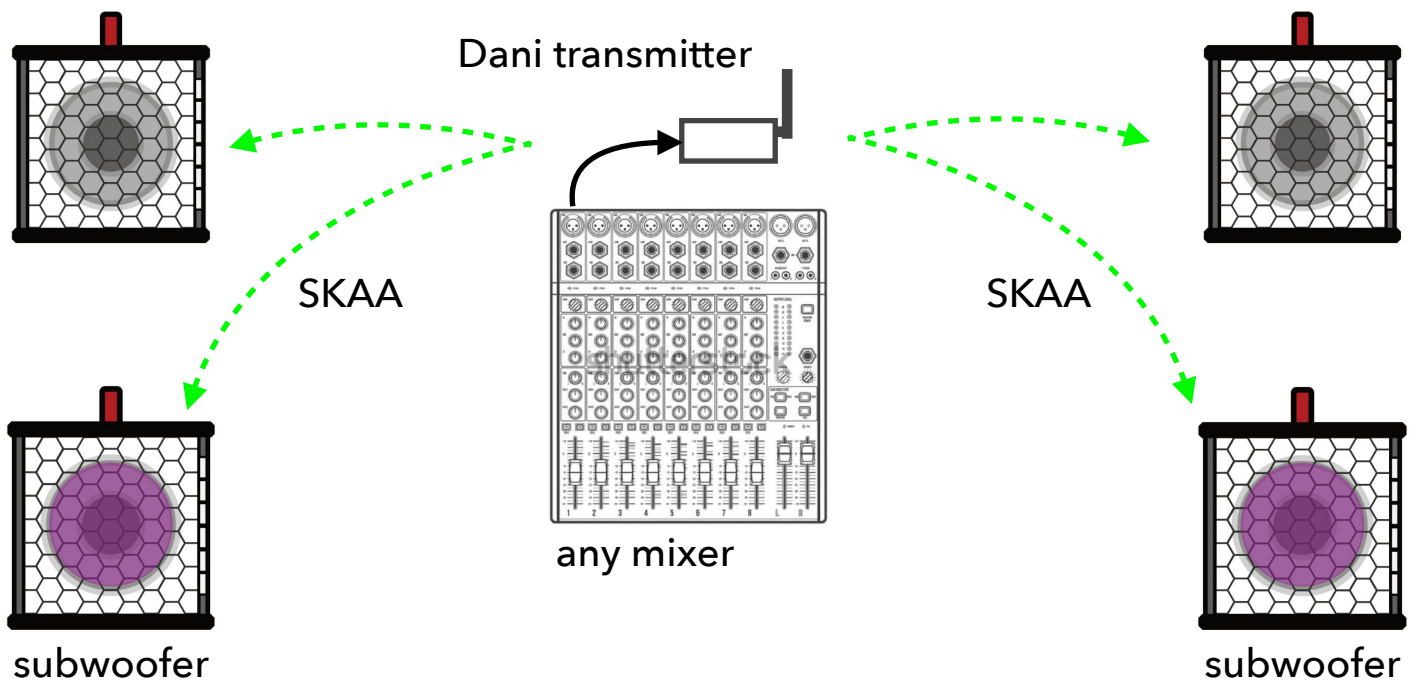
69

the ultra low latency version



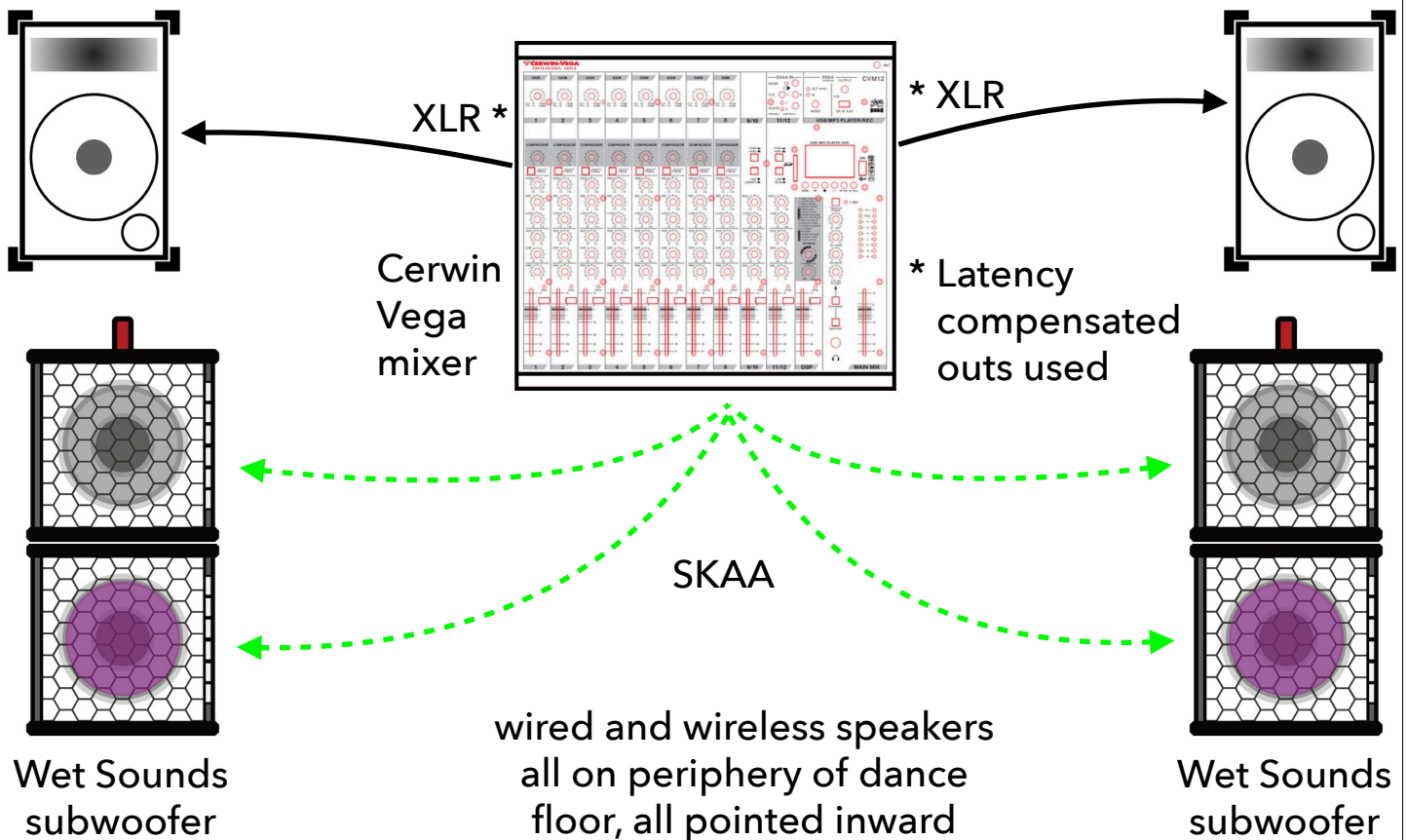
70

convert your mixer to SKAA with Dani



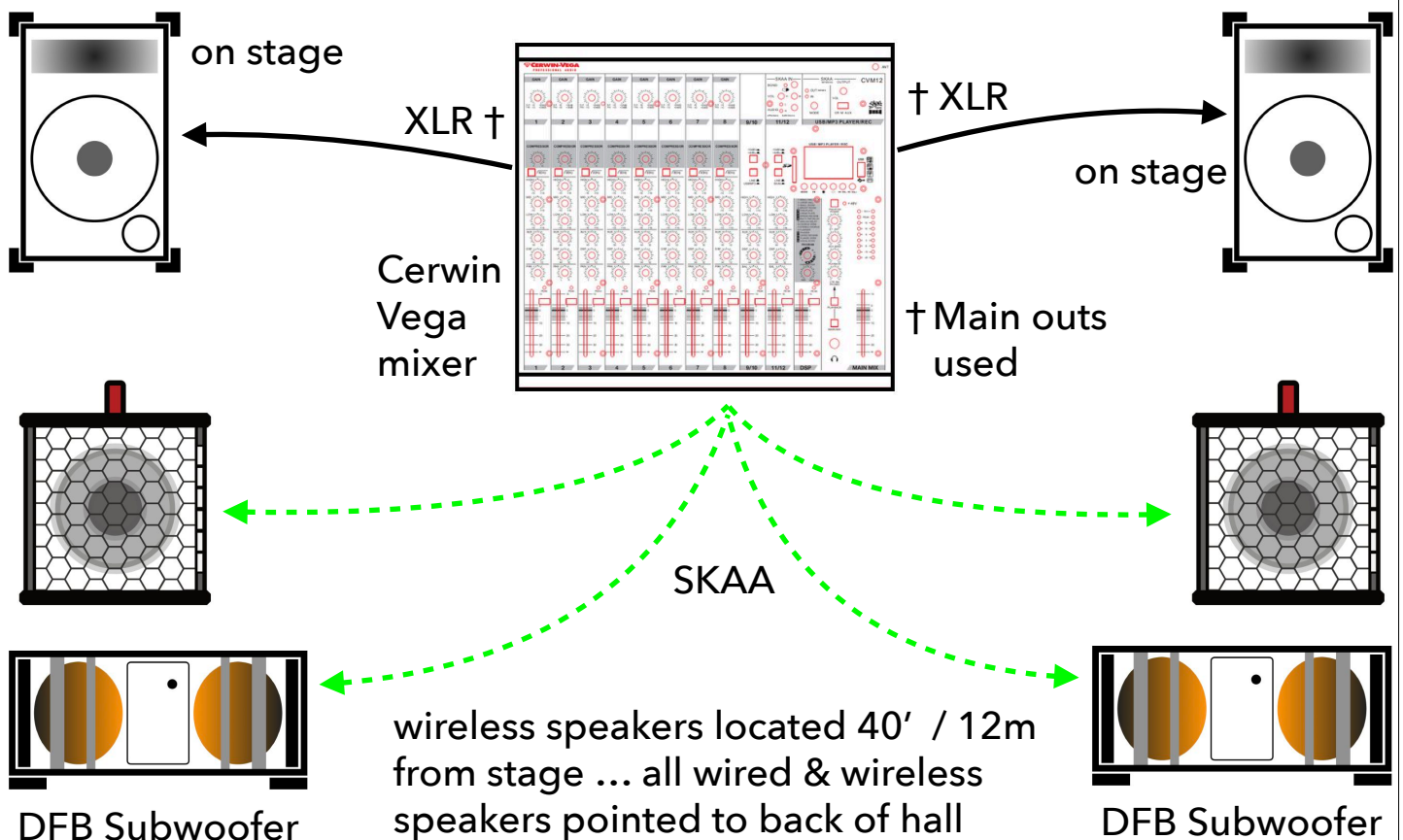
71

sync wired & wireless



72

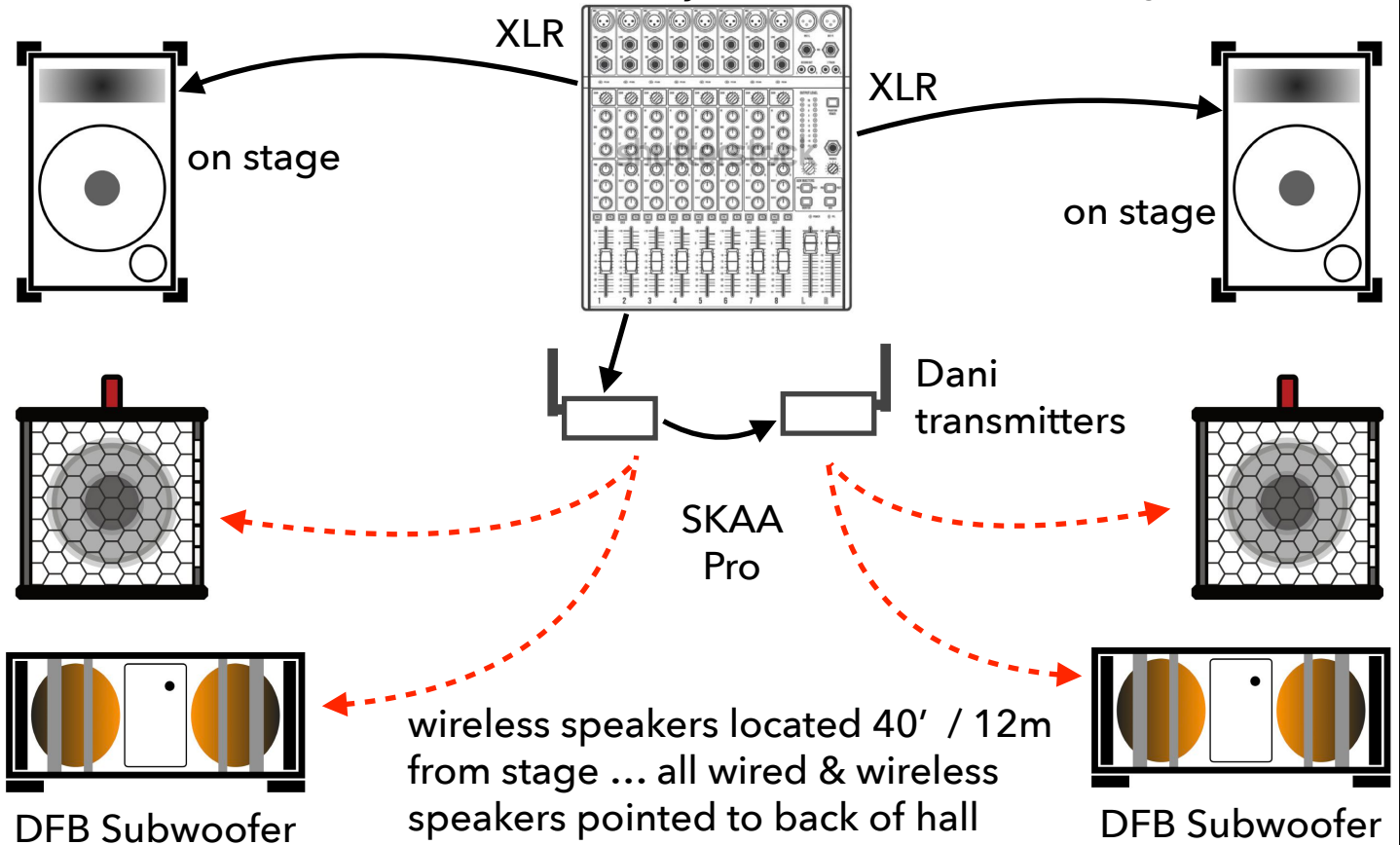
sync'd delay towers



73

any mixer

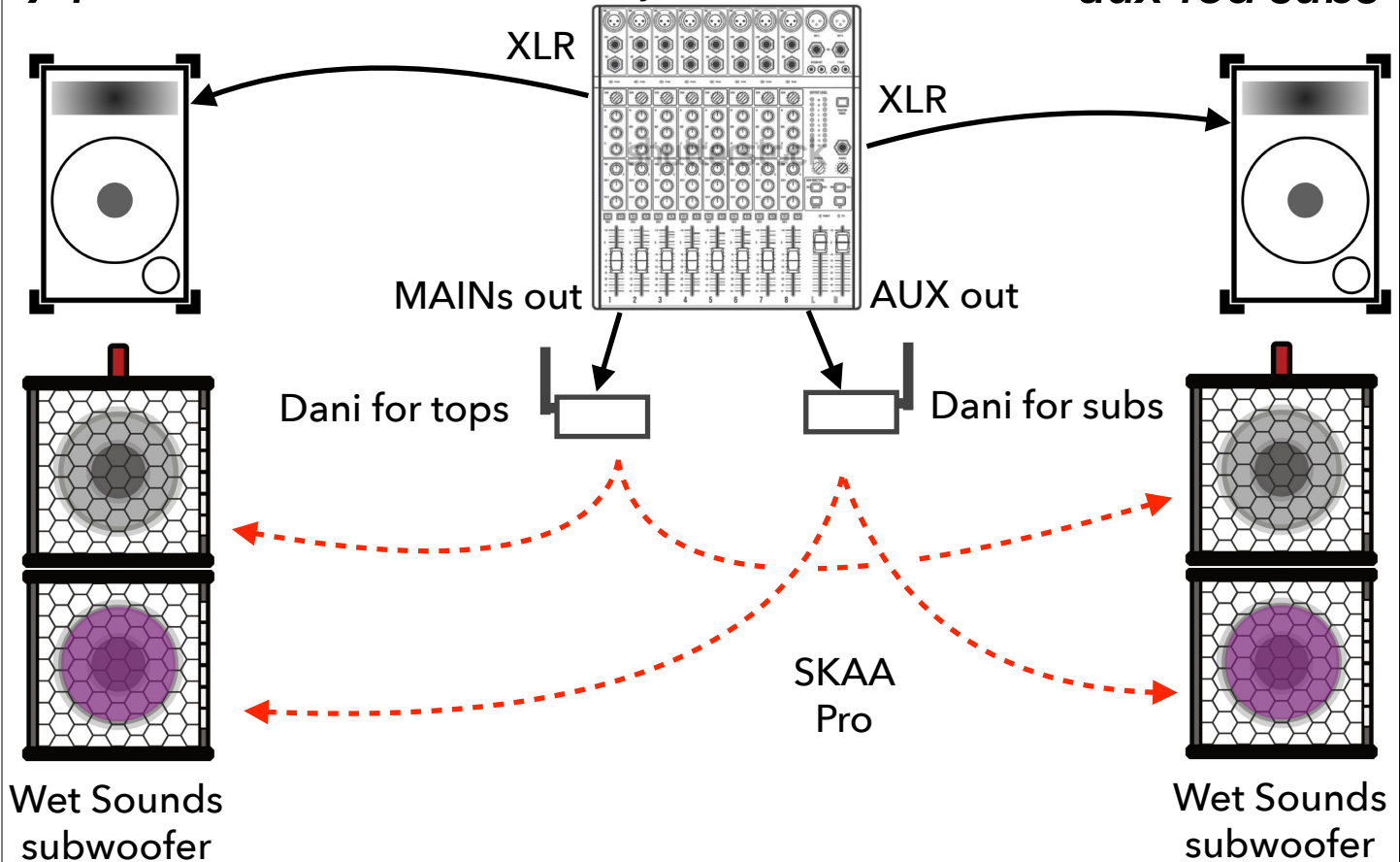
delay towers II



74

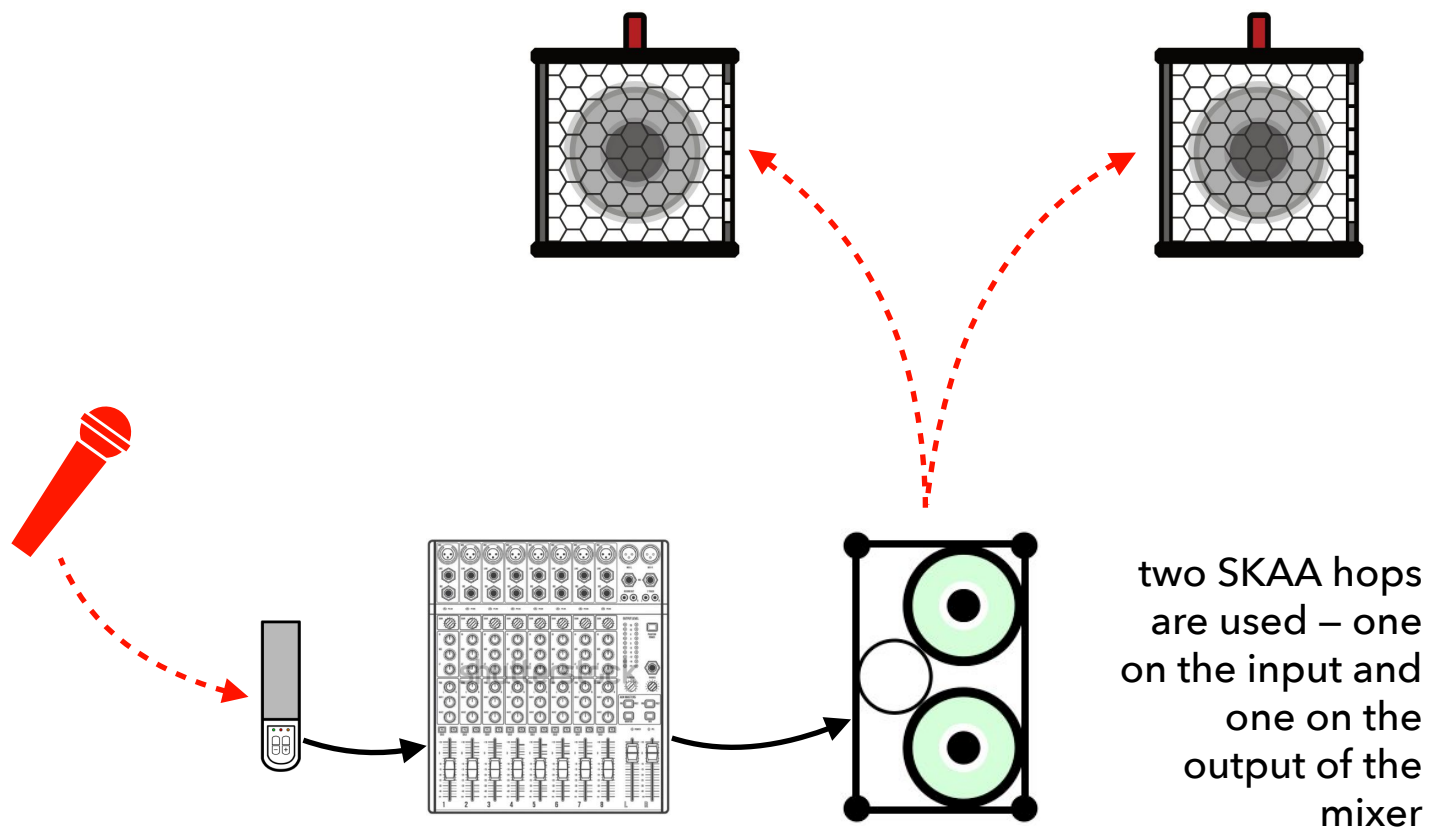
any mixer

aux-fed subs



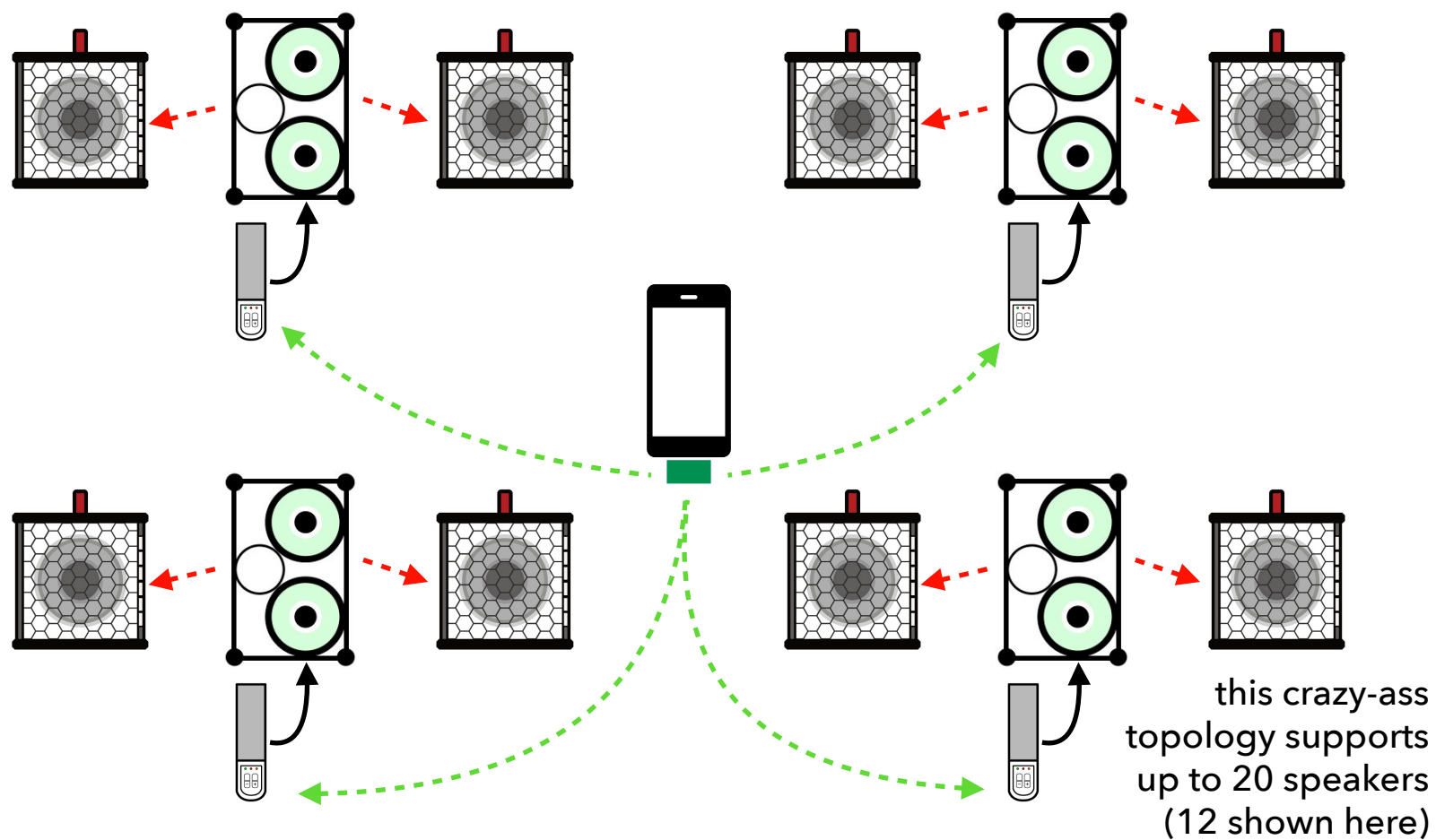
75

two hop

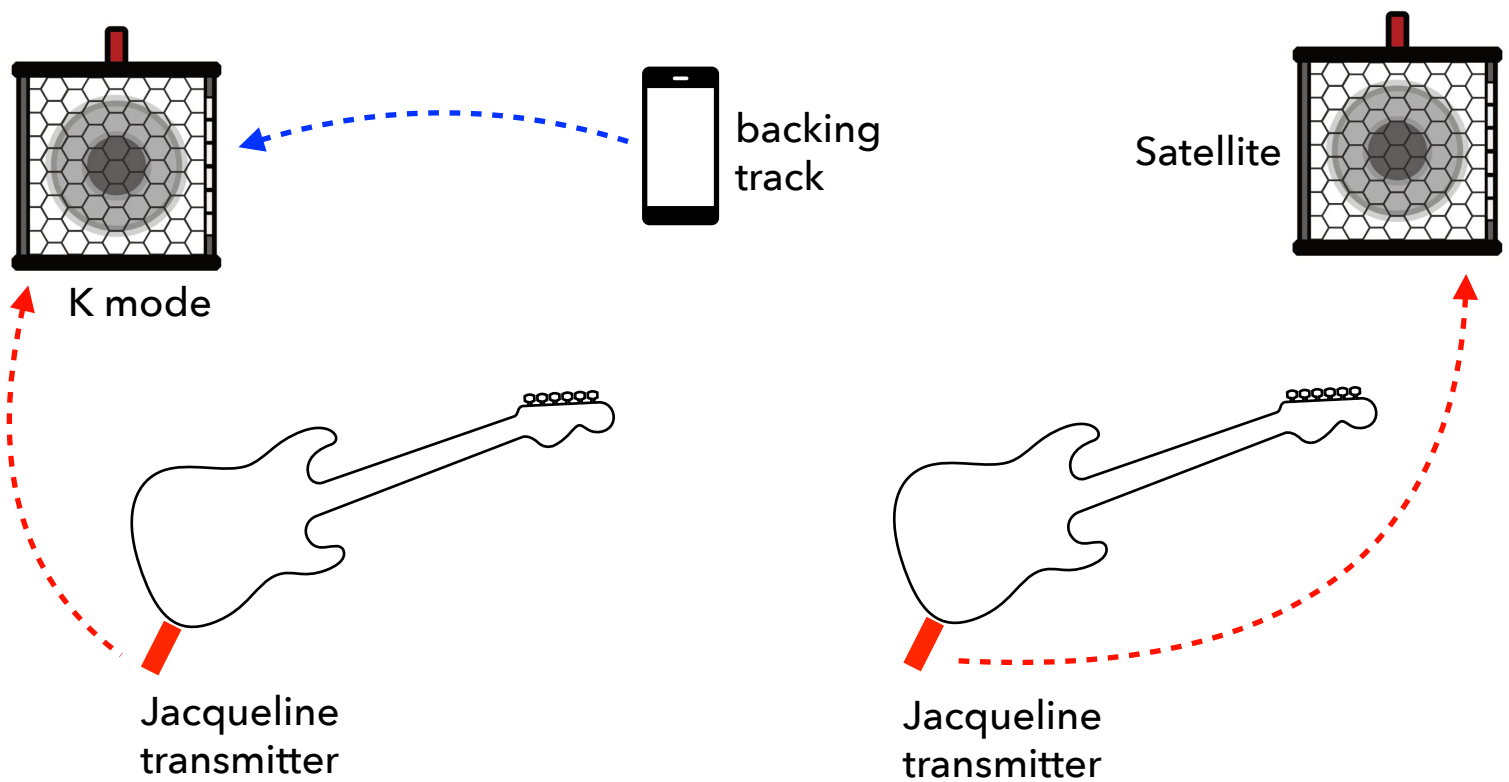


76

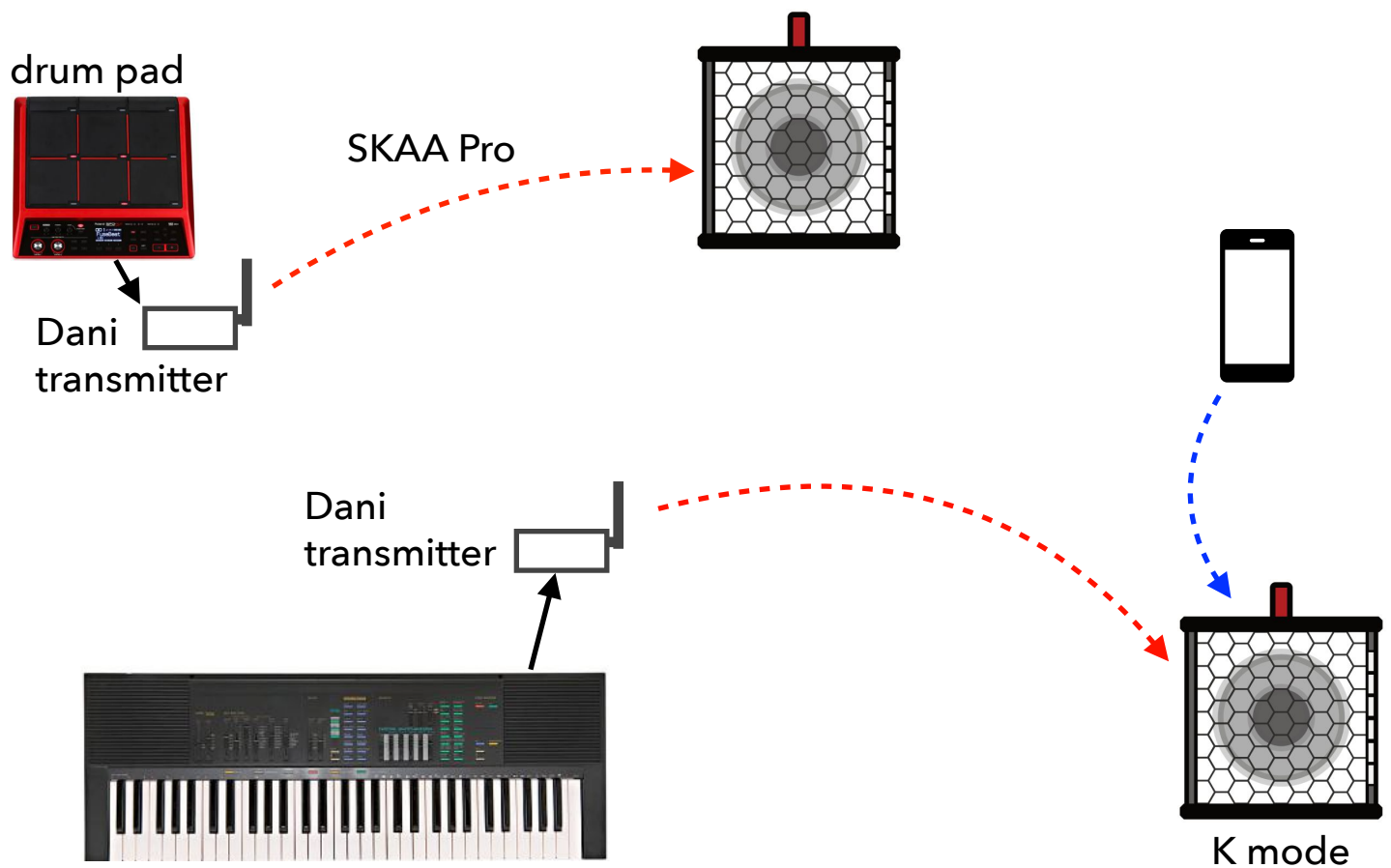
two hop II



77

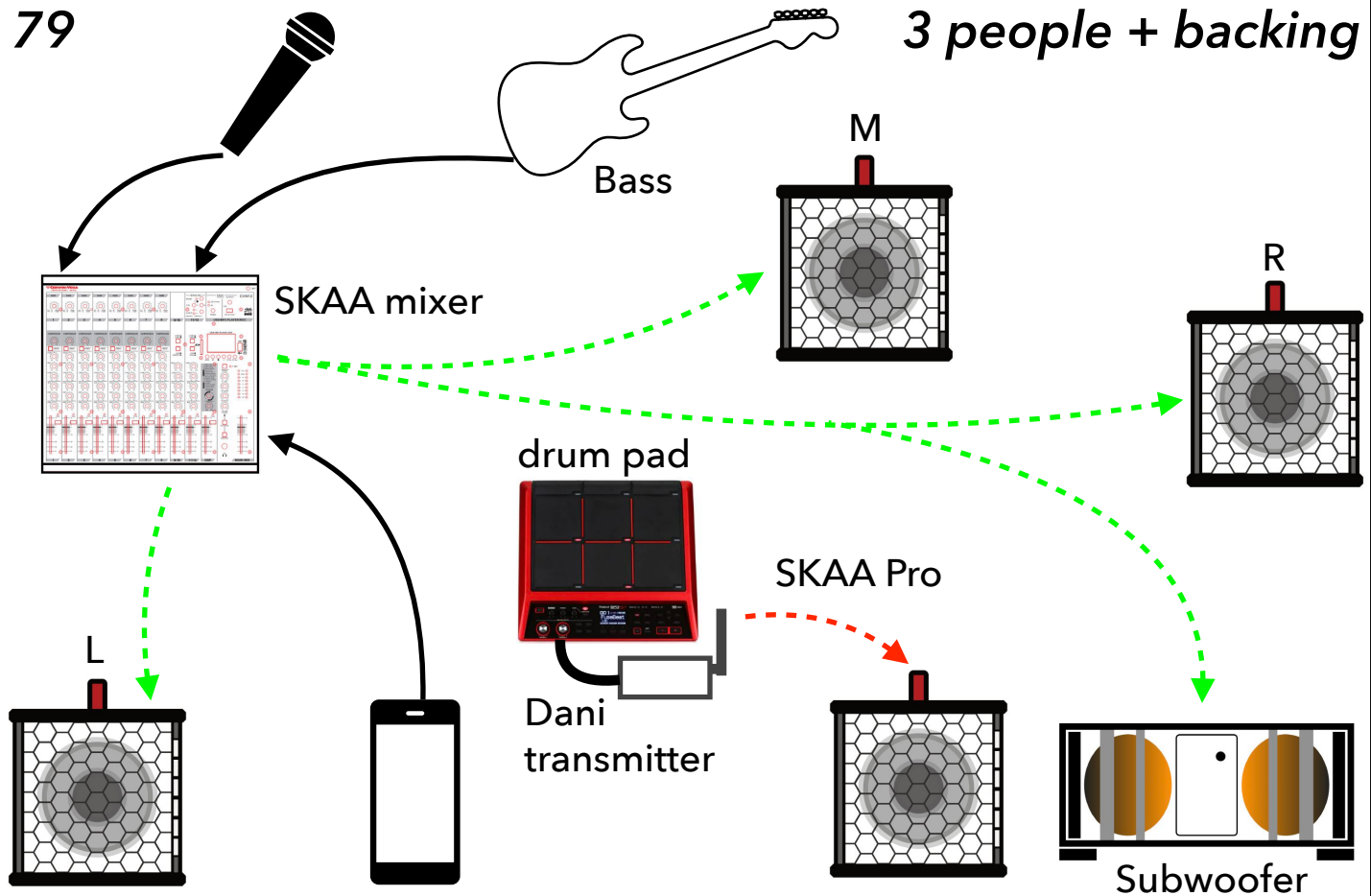
practice amp jam

78

drum & keys jam

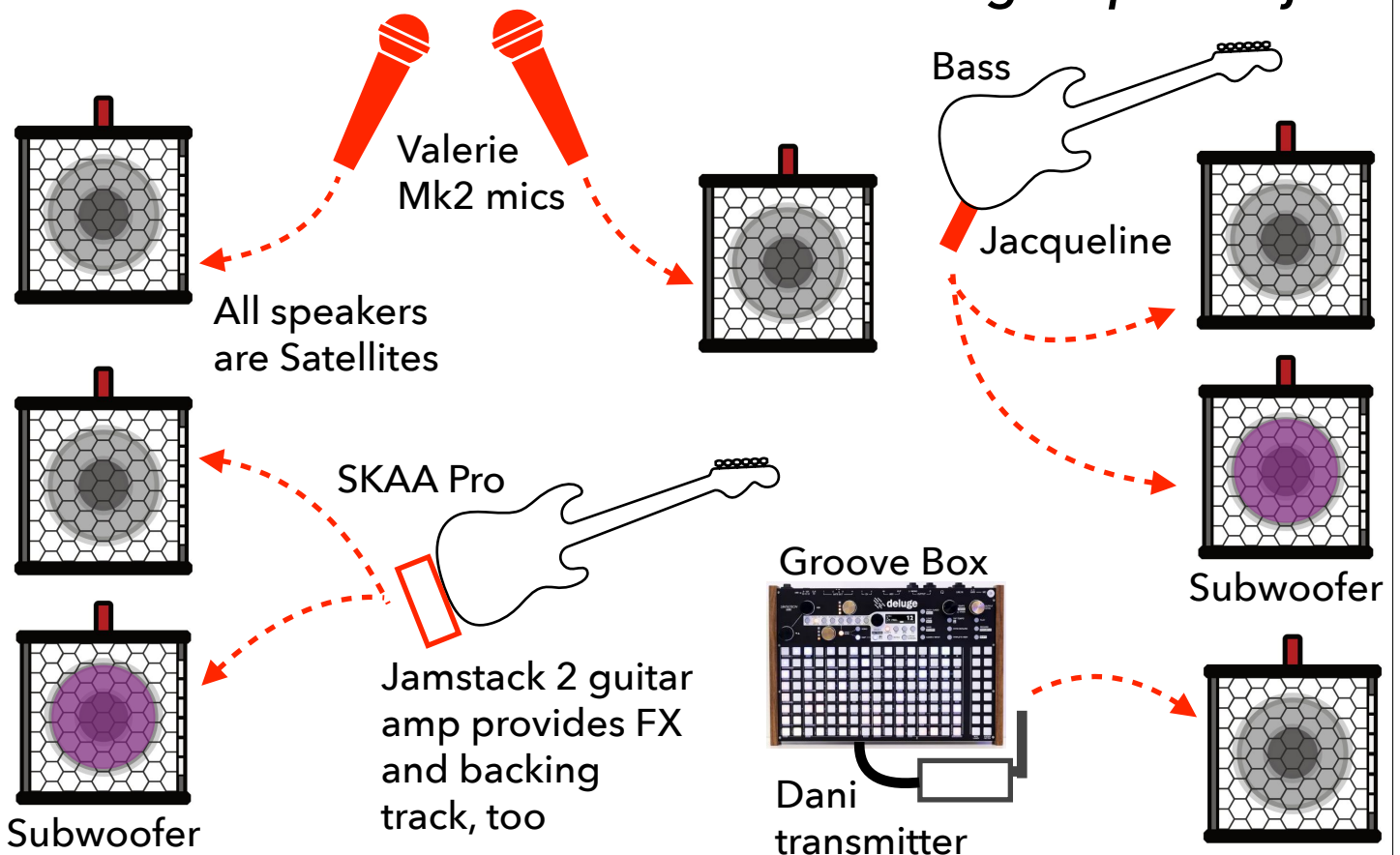
79

3 people + backing



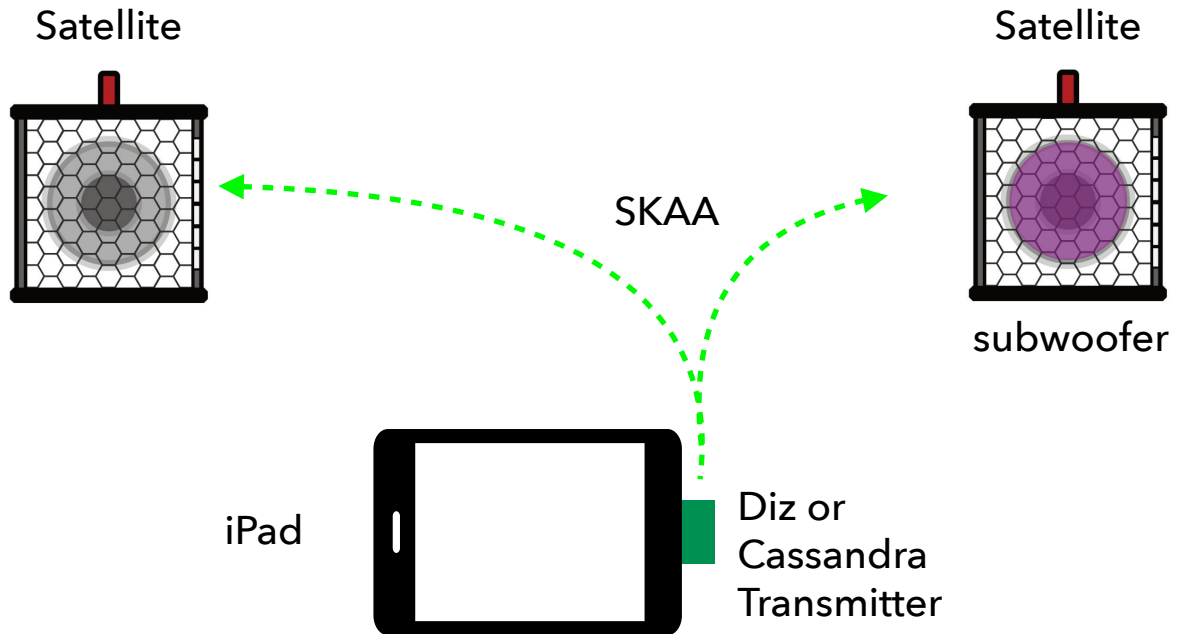
80

mega 5-person jam



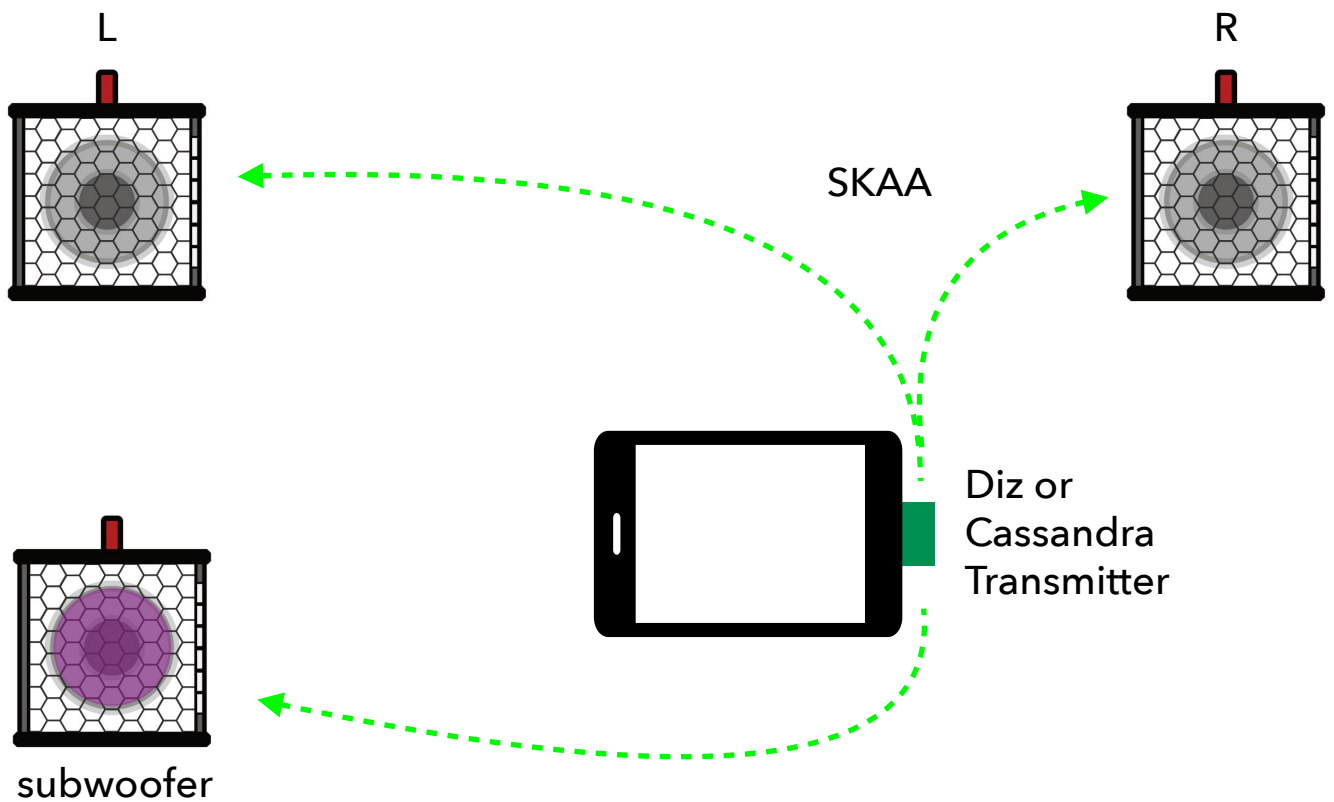
81

vids, social media, games



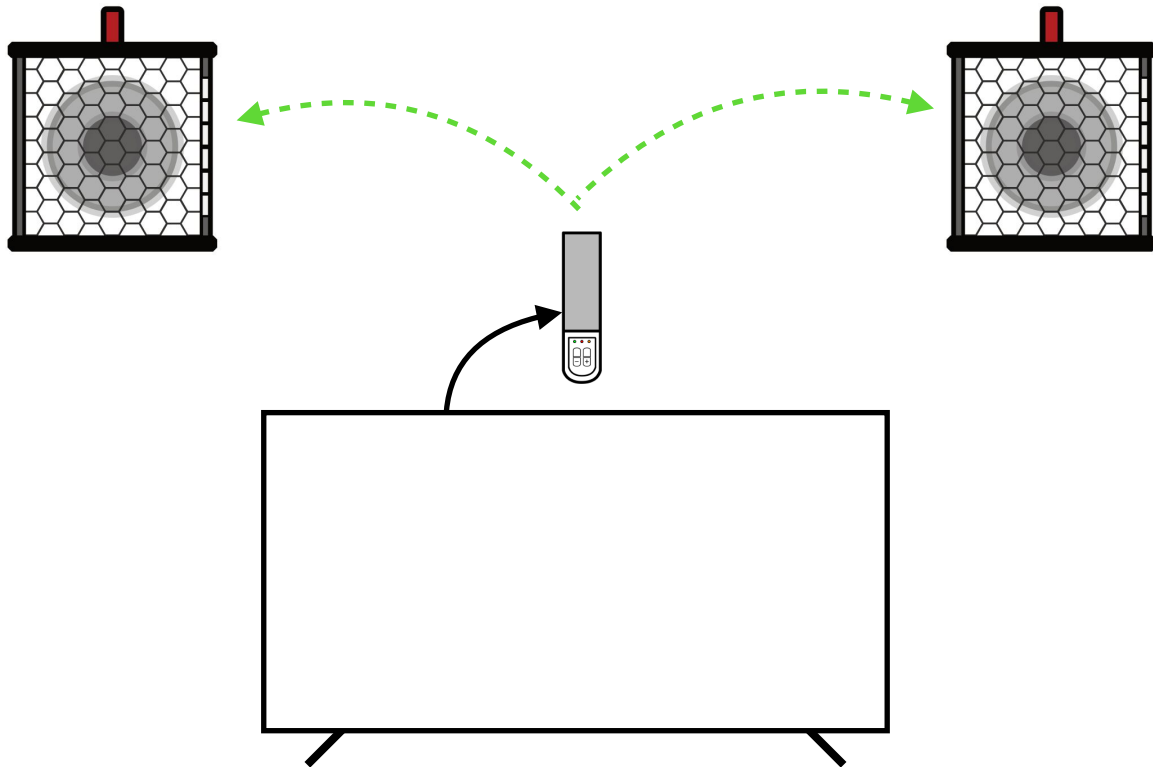
82

... let's play in stereo, shall we?



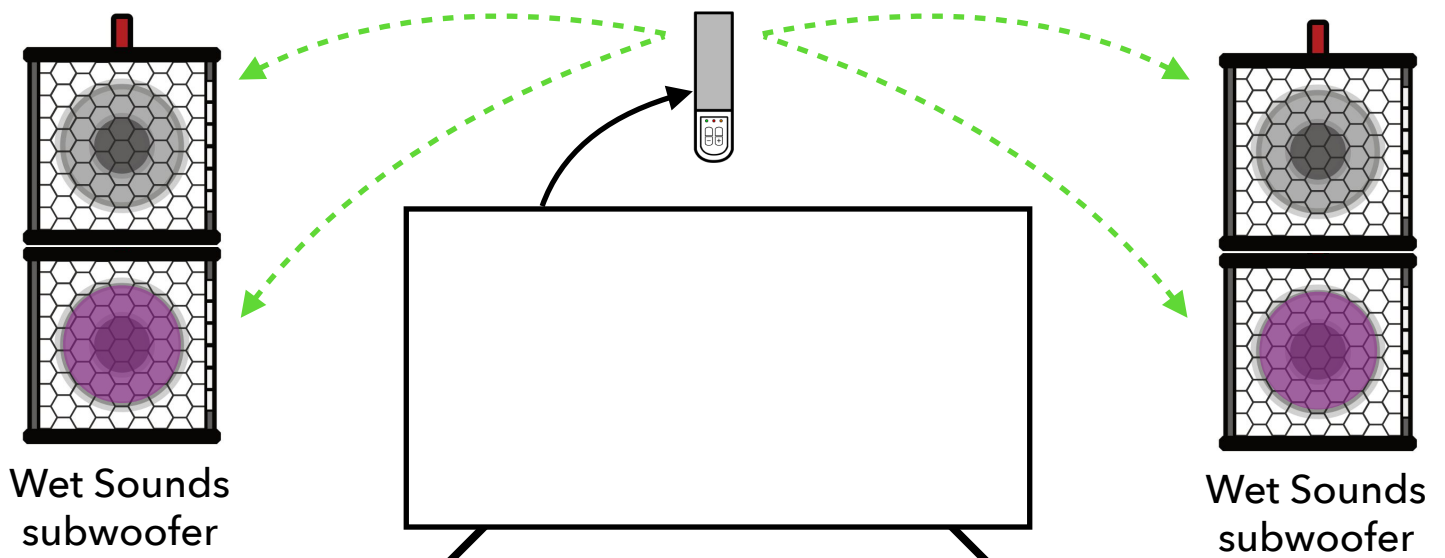
83

... and chill



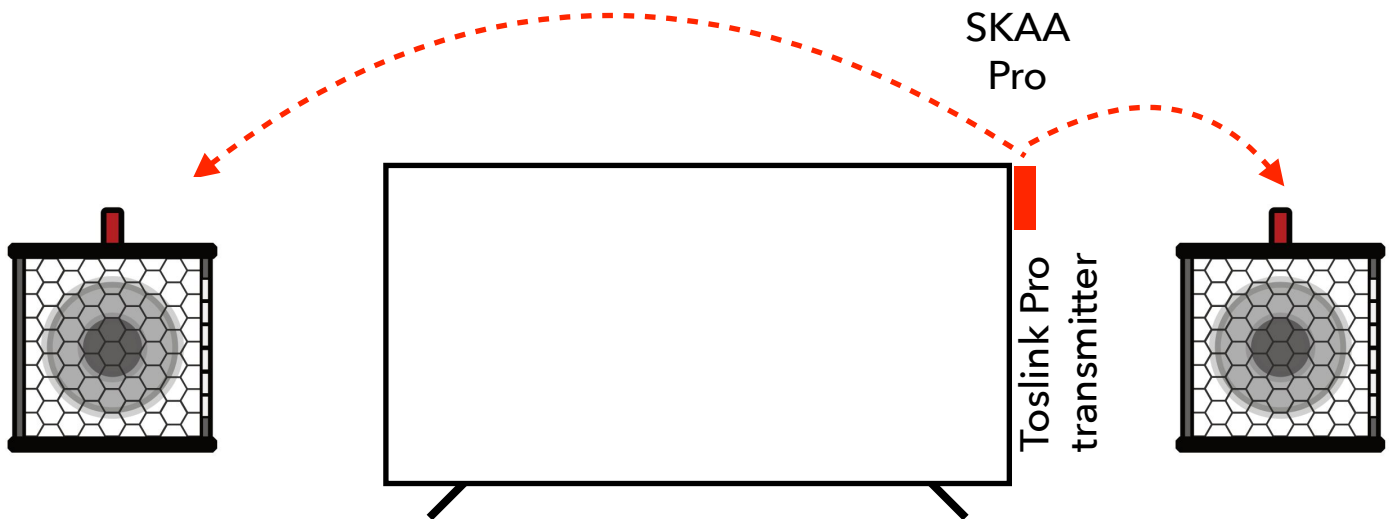
84

... and chill II



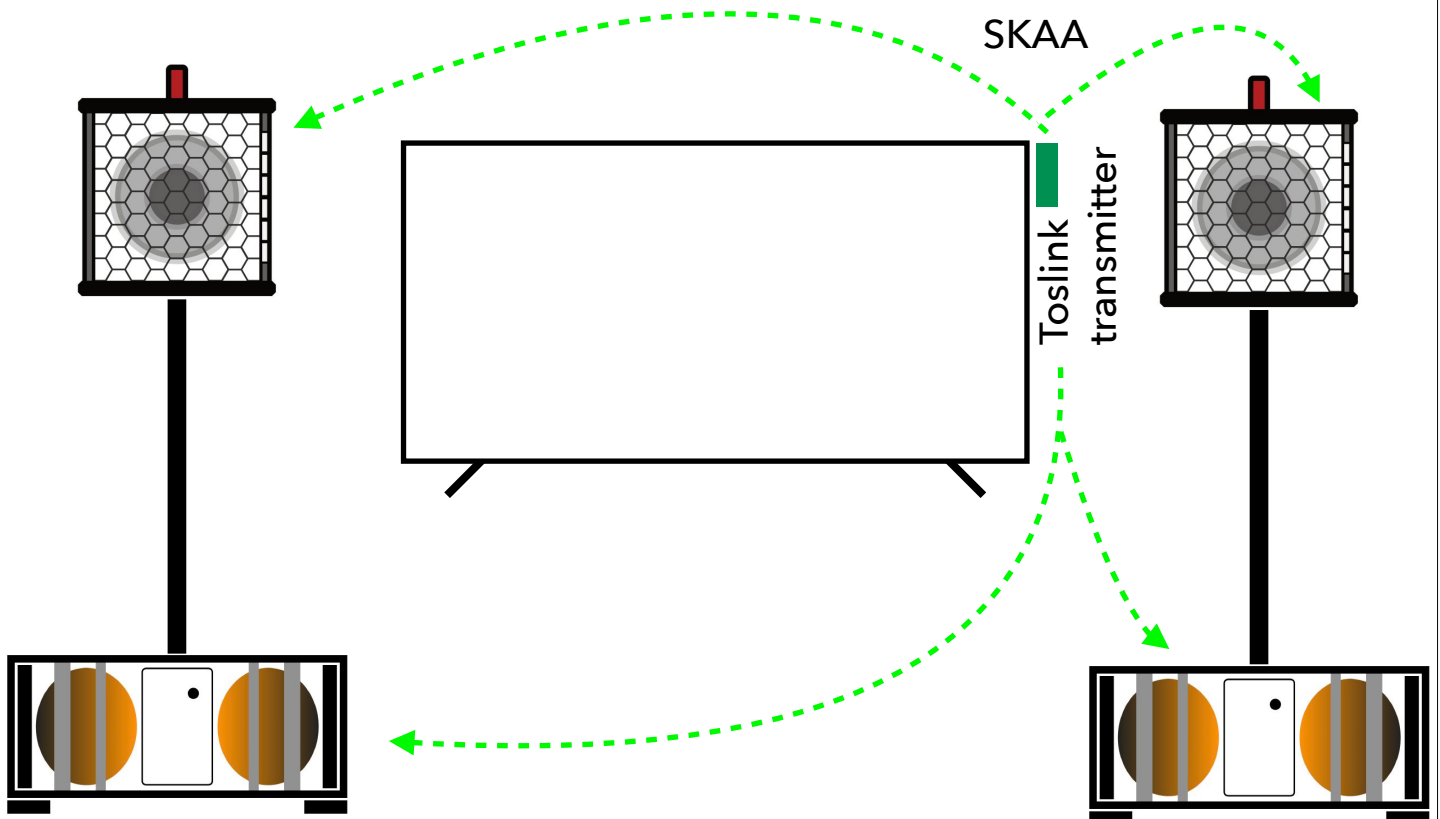
85

watch vids, play games



86

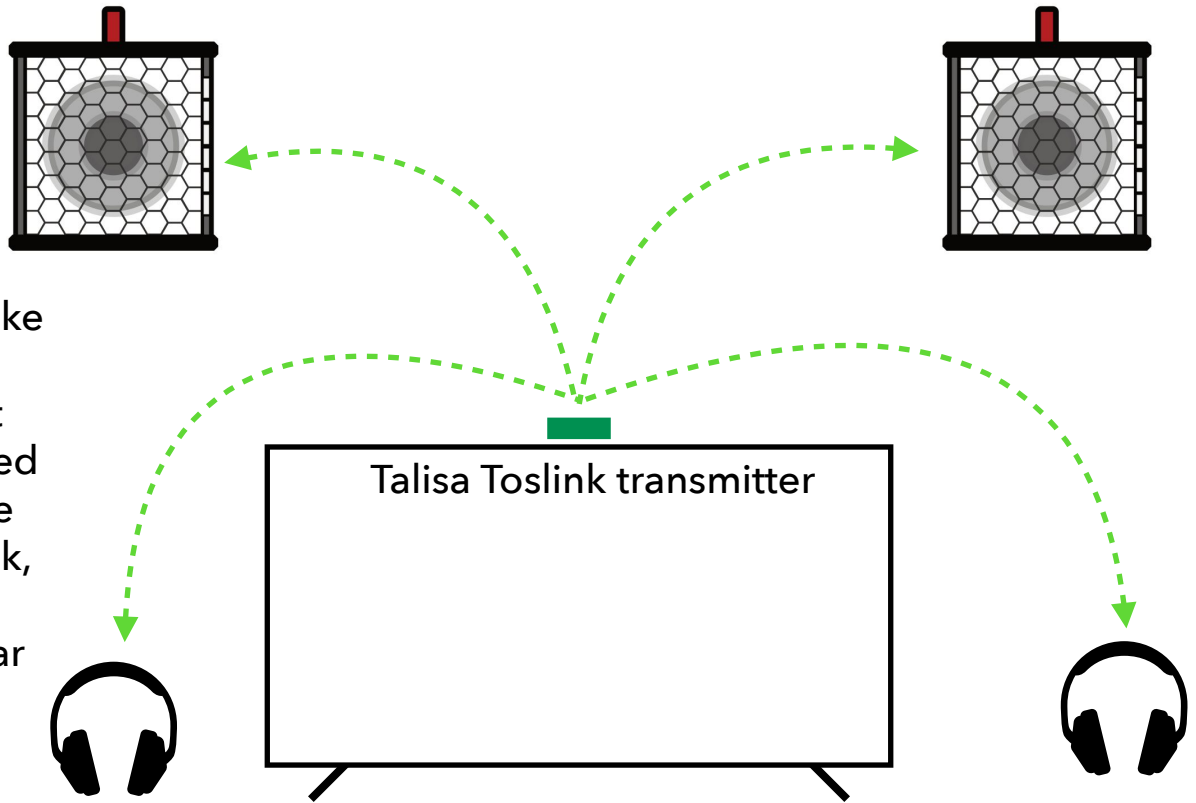
stereo TV extreme bass



87

Game On 1

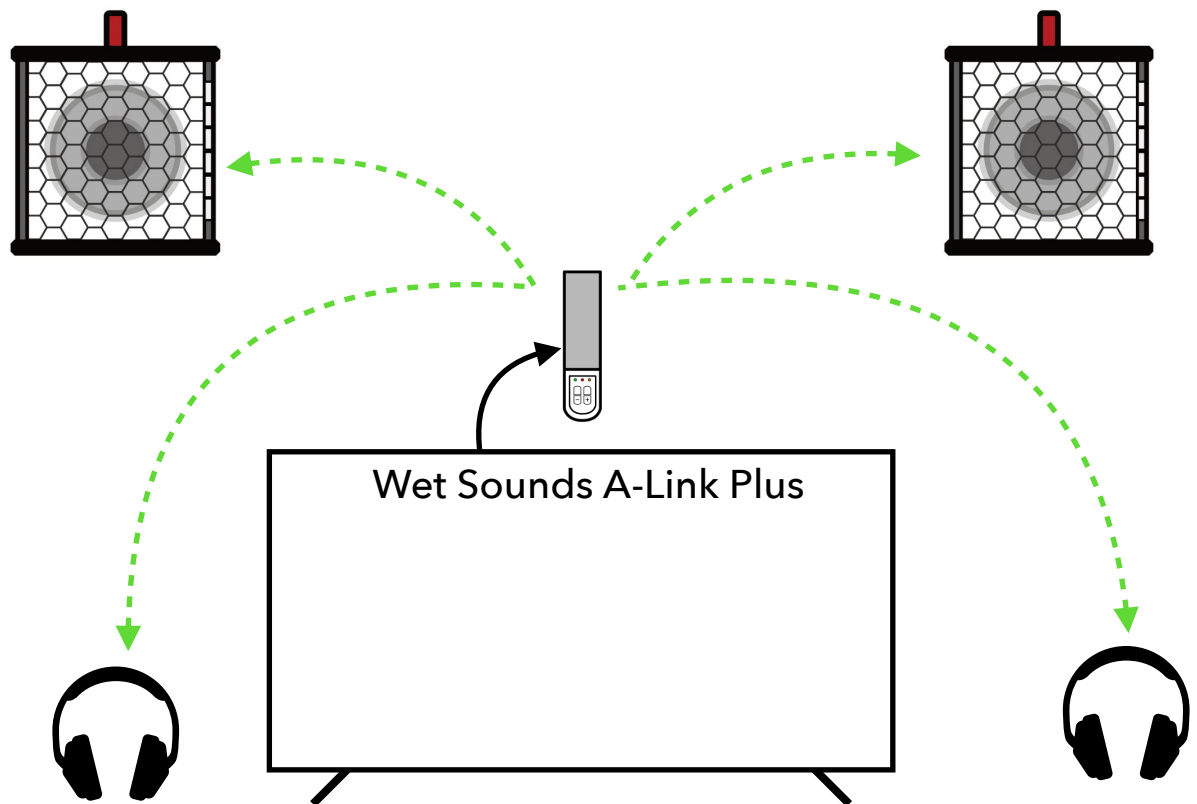
headphones like Helix can be great for night time, or if I need to step outside to flip the steak, or if grandpa can't quite hear



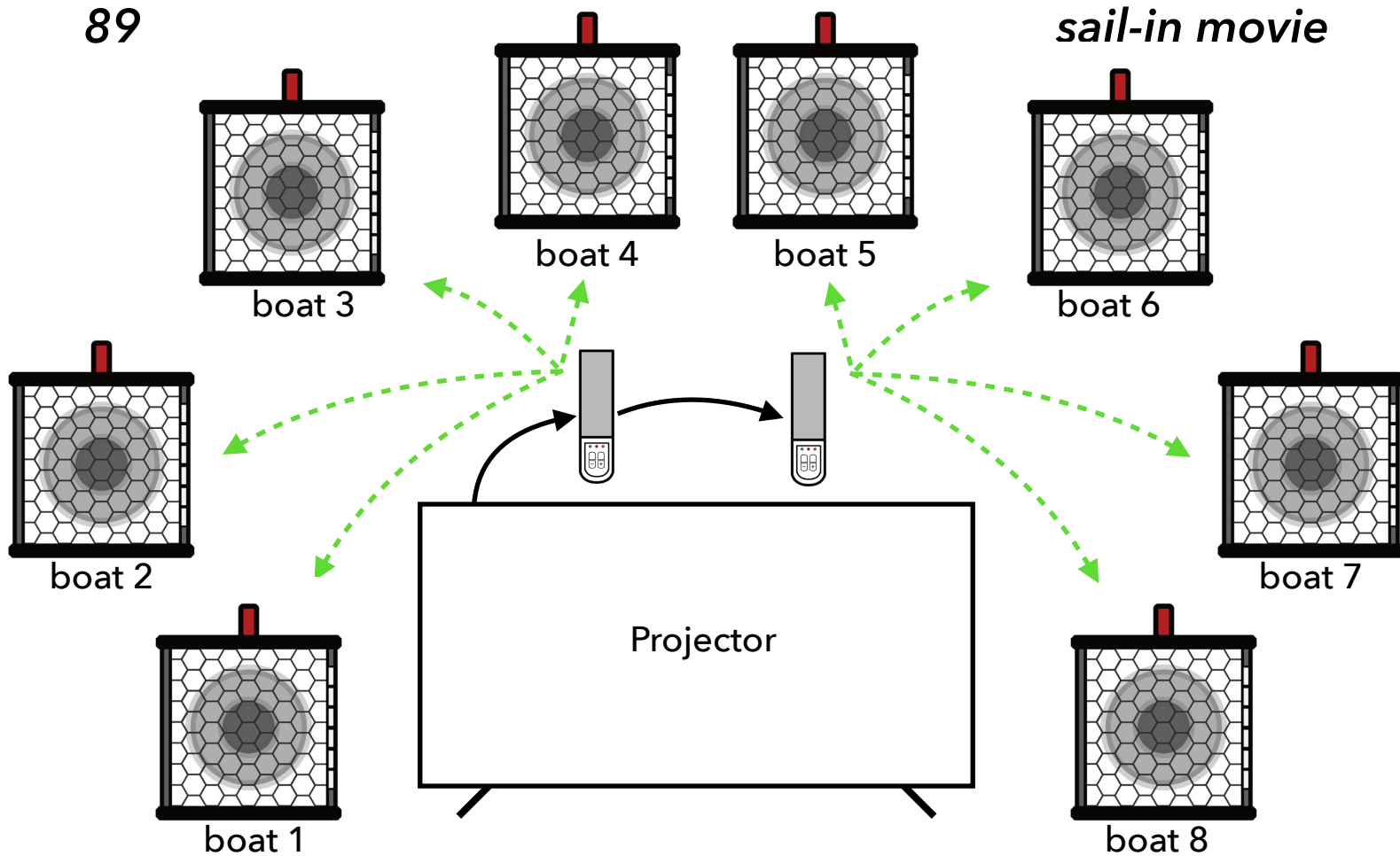
88

Game On 2

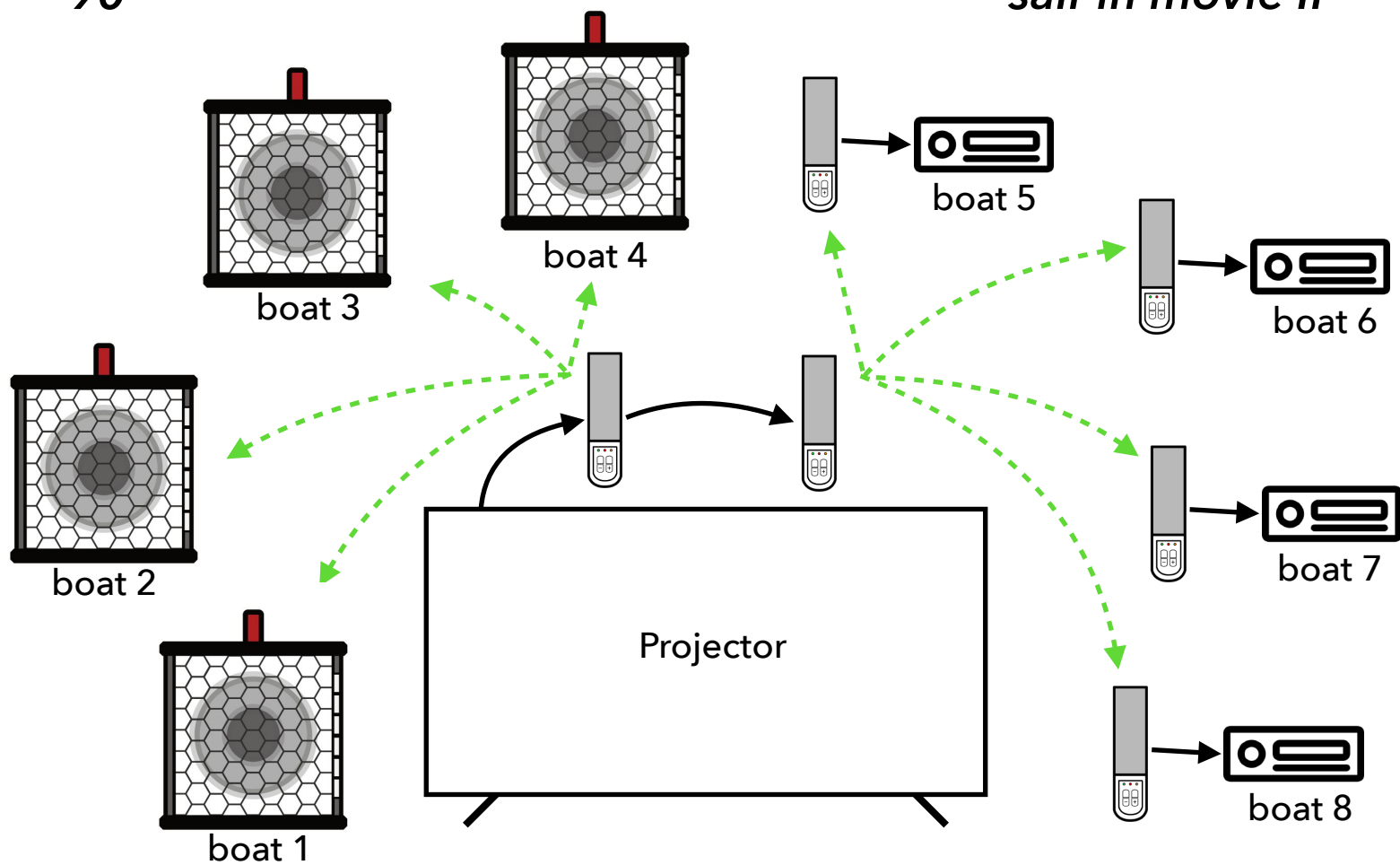
the Wet Sounds A-Link Plus will deliver about 3x the reliable range (distance) of the Talisa Toslink transmitter, which is great if you want to hear the game in the back yard

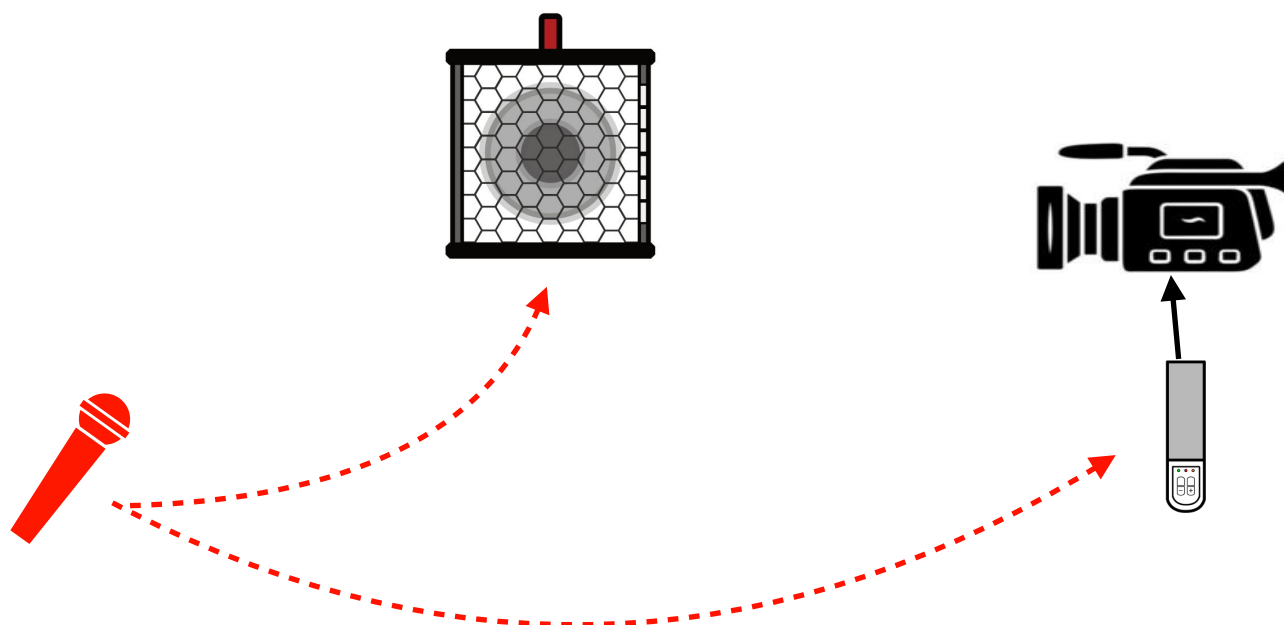


89

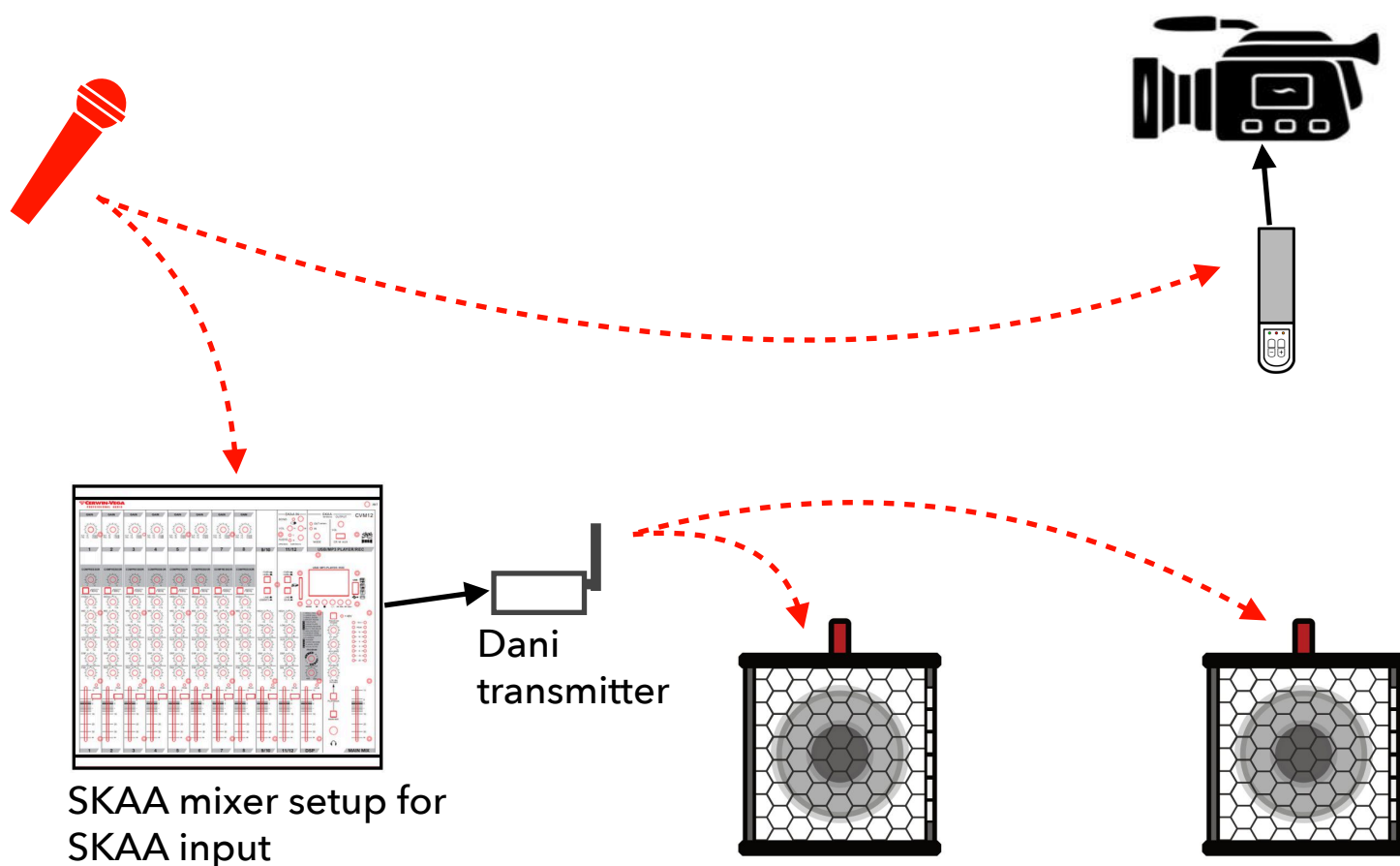
sail-in movie

90

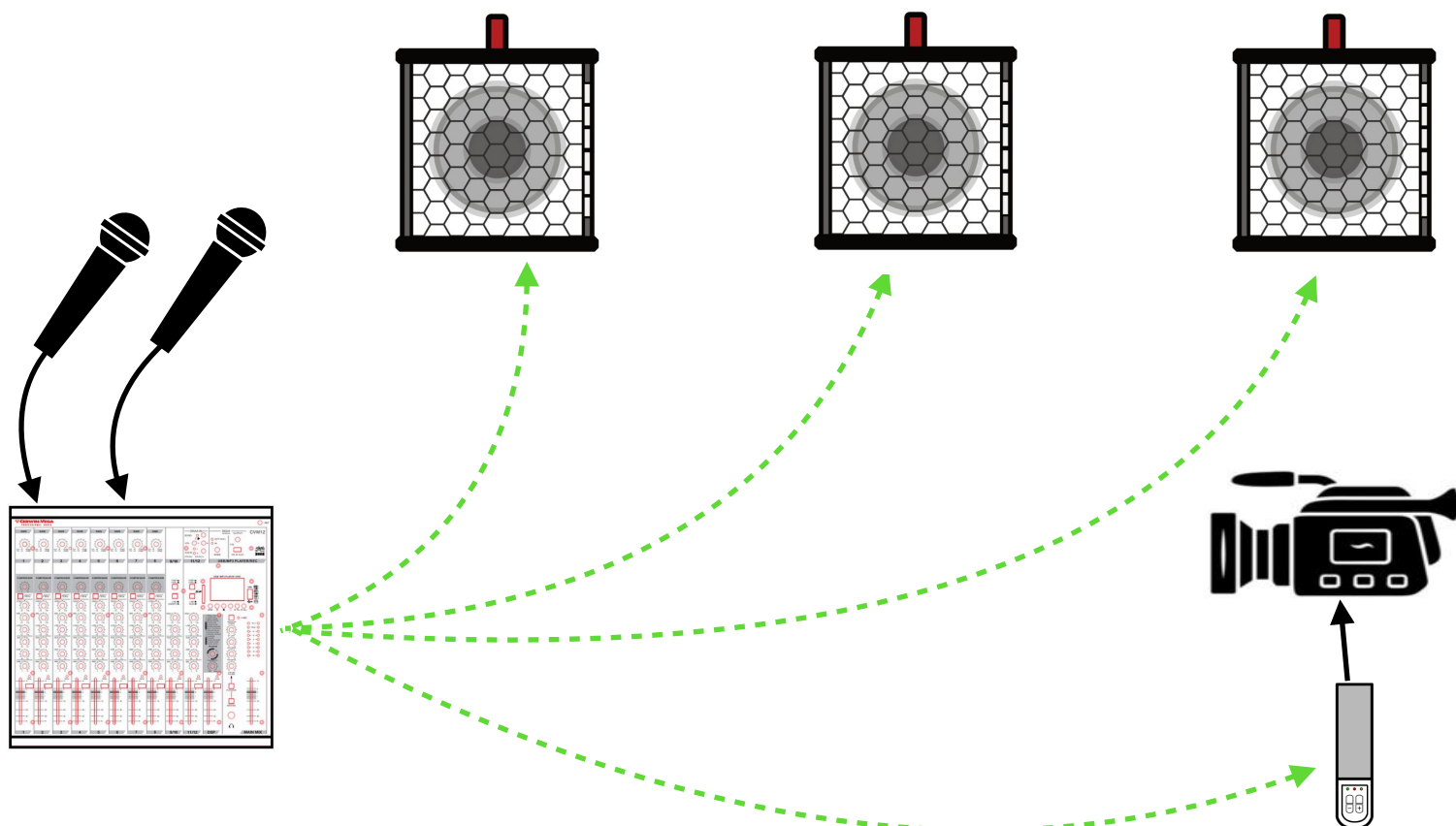
sail-in movie II



we take advantage of the fact the Valerie Mk2 SKAA Pro mic can send audio to 2 destinations, and capture that audio on our camera at the same time we're capturing video – the A-Link Plus is a perfect receiver for this since it's long-range, light weight and has a built-in battery



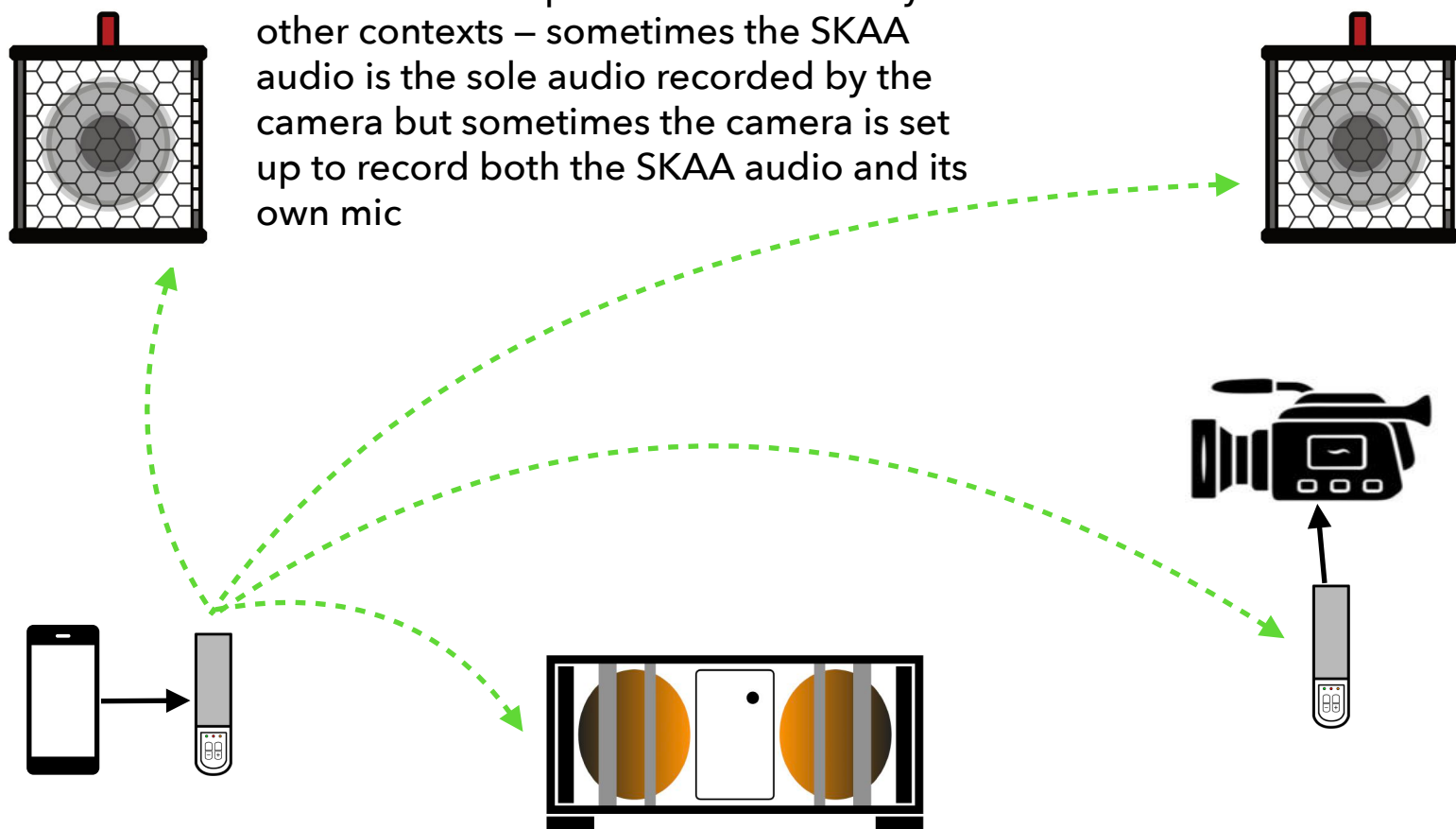
93

wedding / corporate

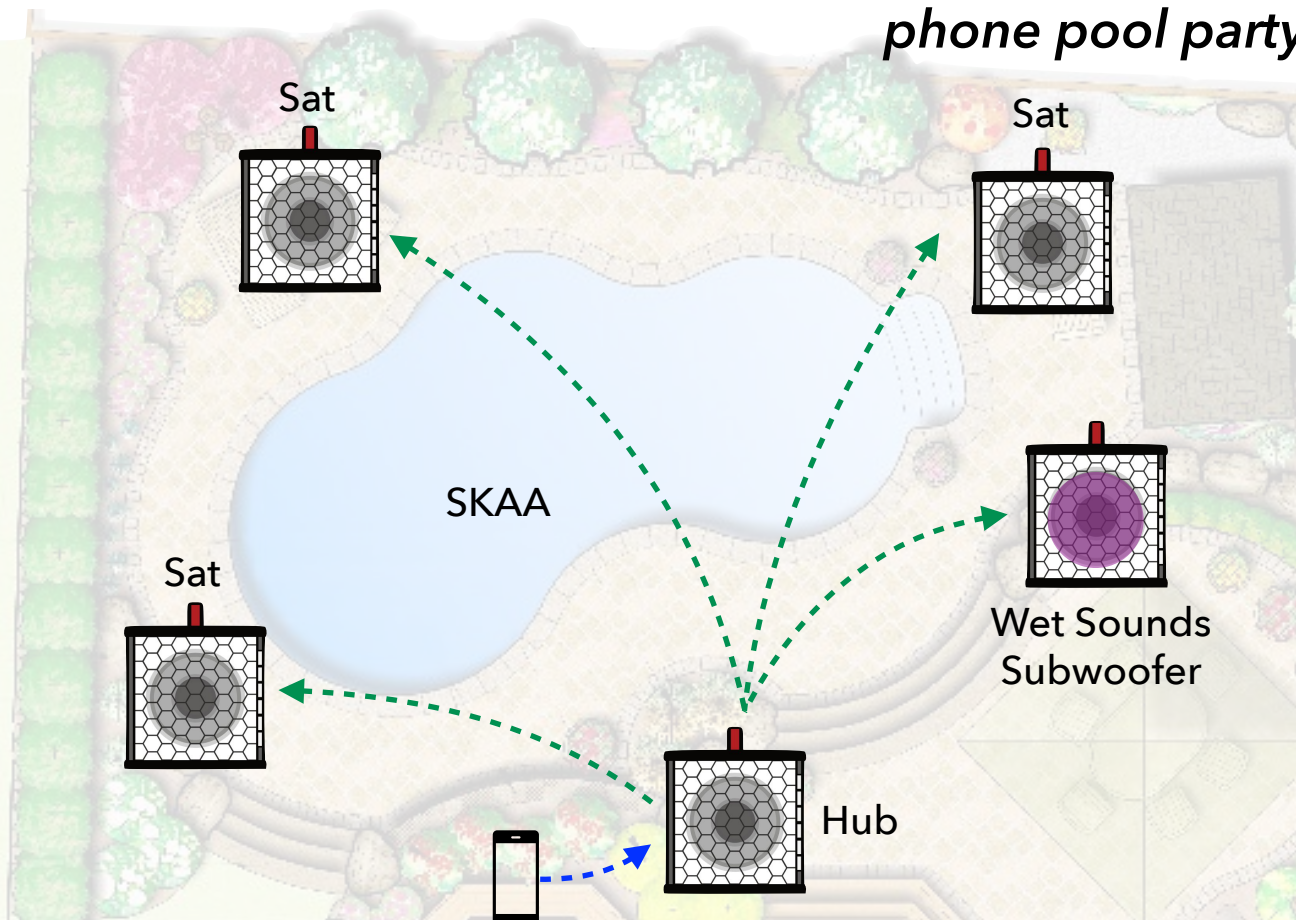
94

music video shoot

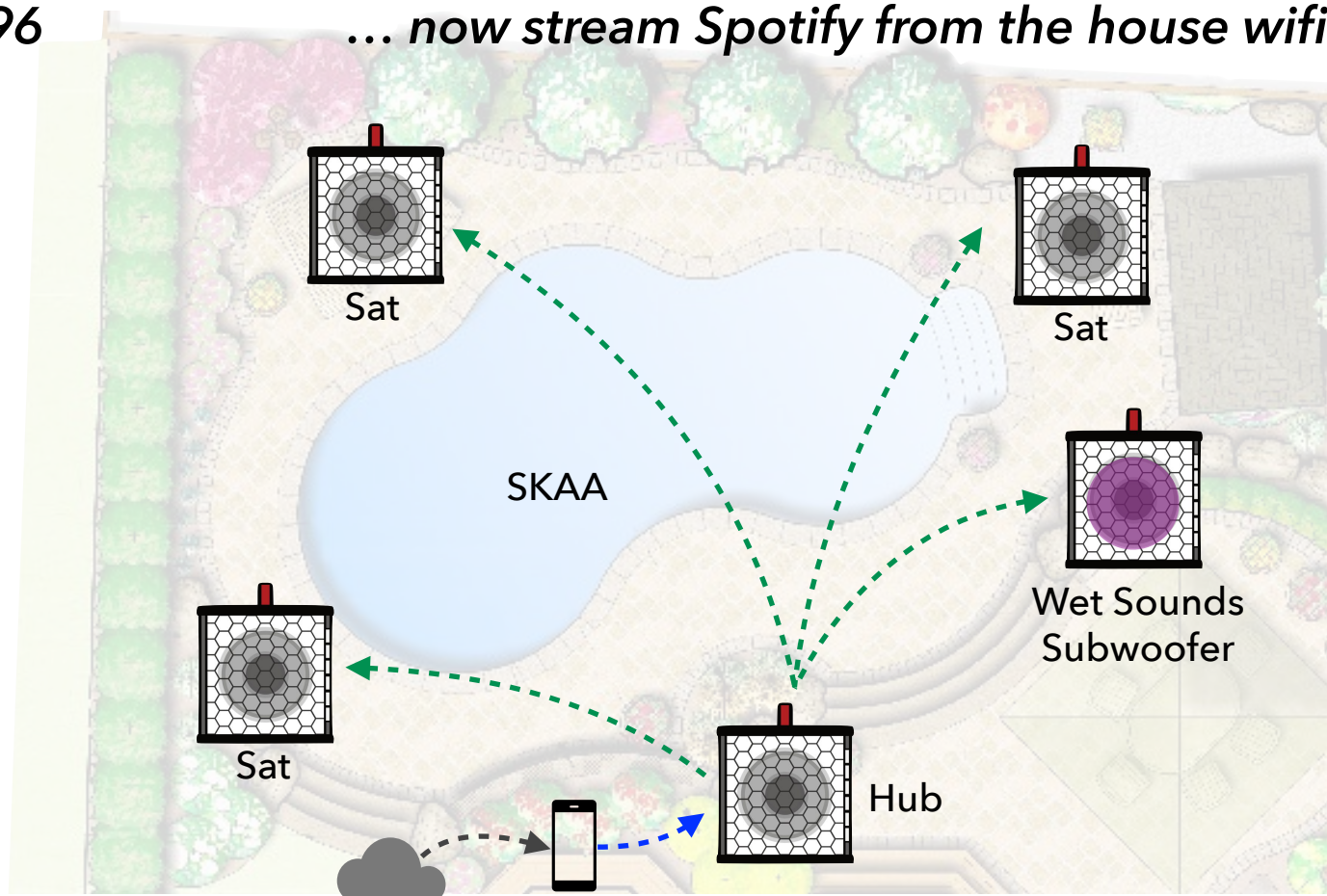
the same technique translates to many other contexts – sometimes the SKAA audio is the sole audio recorded by the camera but sometimes the camera is set up to record both the SKAA audio and its own mic



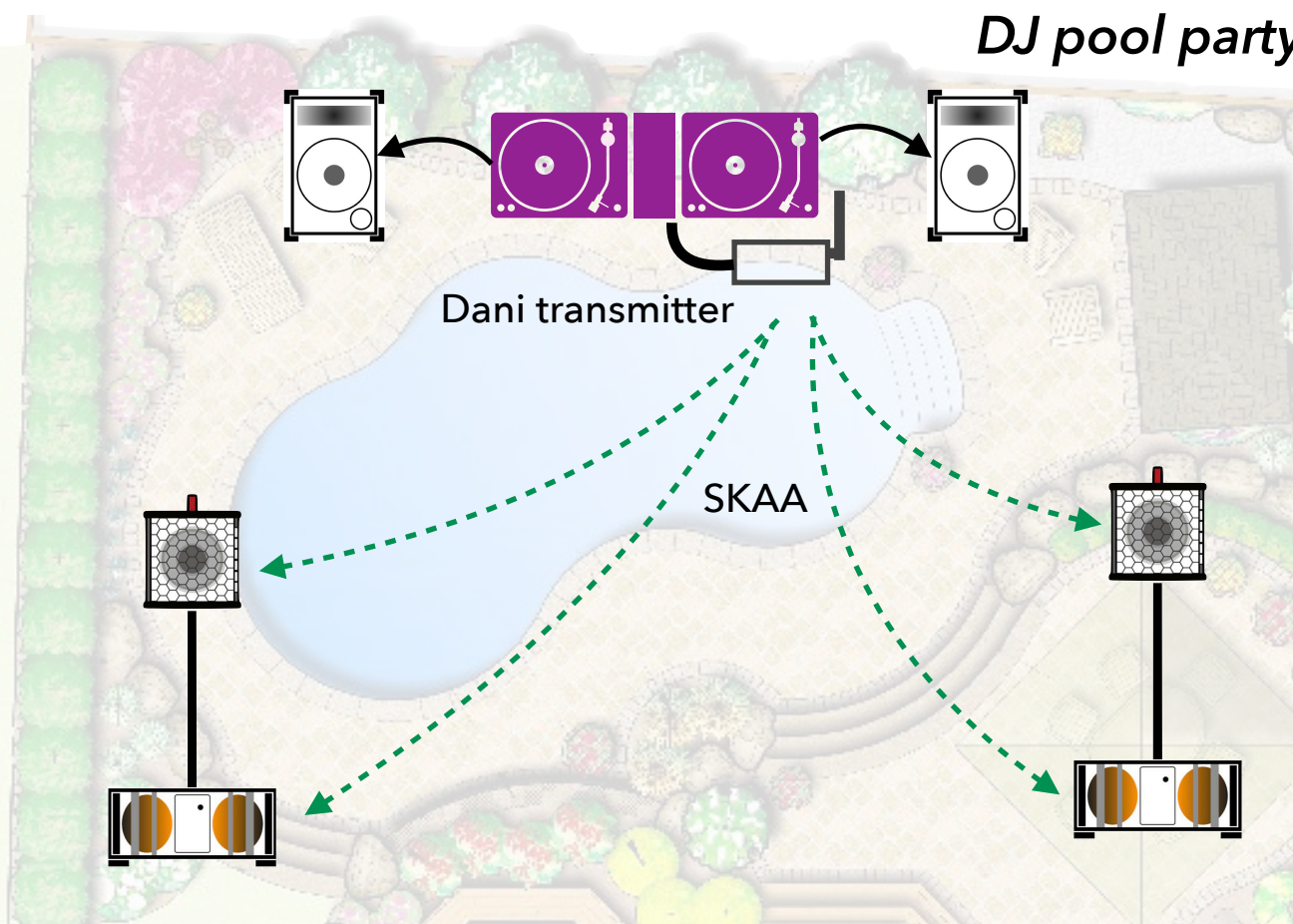
95

phone pool party

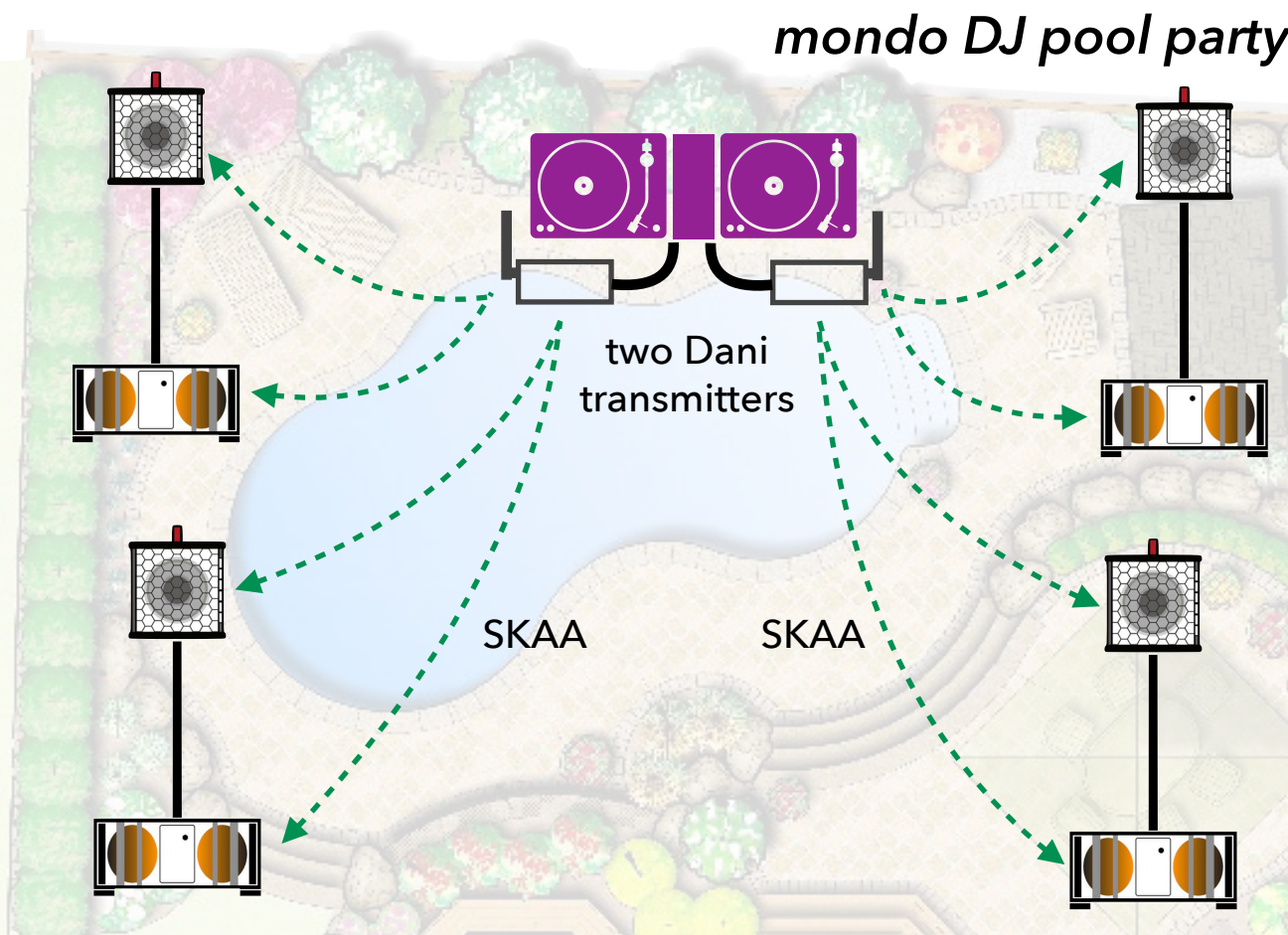
96

... now stream Spotify from the house wifi

97

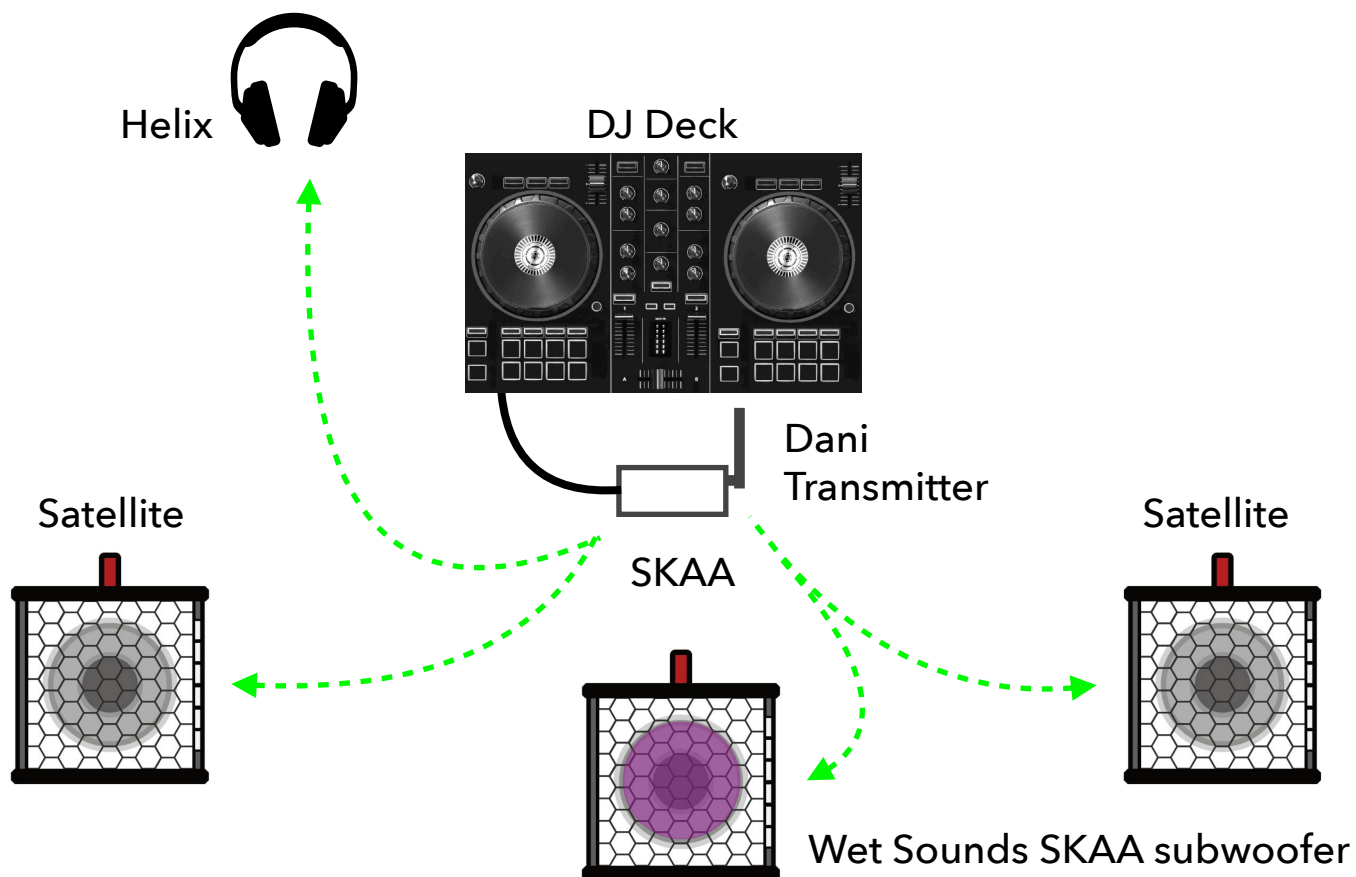
DJ pool party

98

mondo DJ pool party

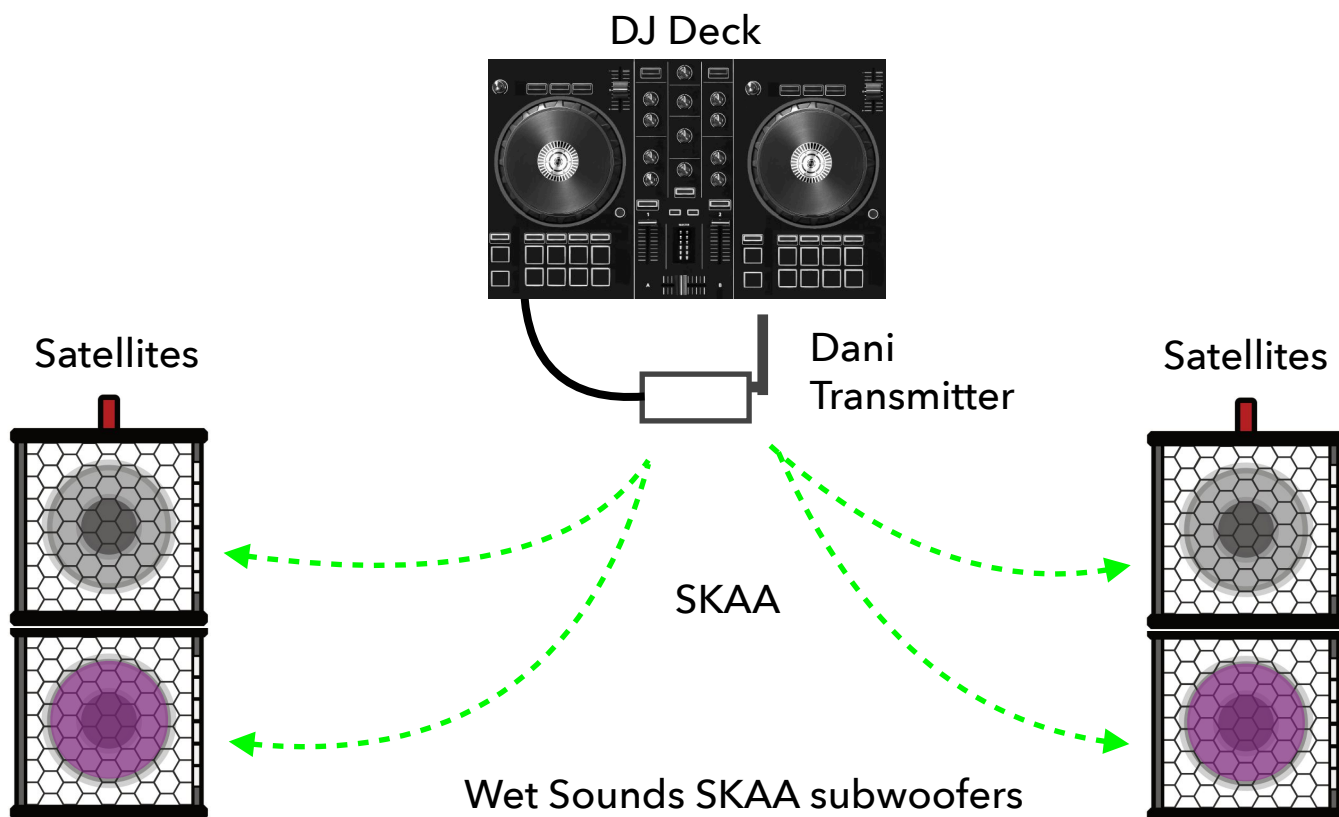
99

wireless DJ



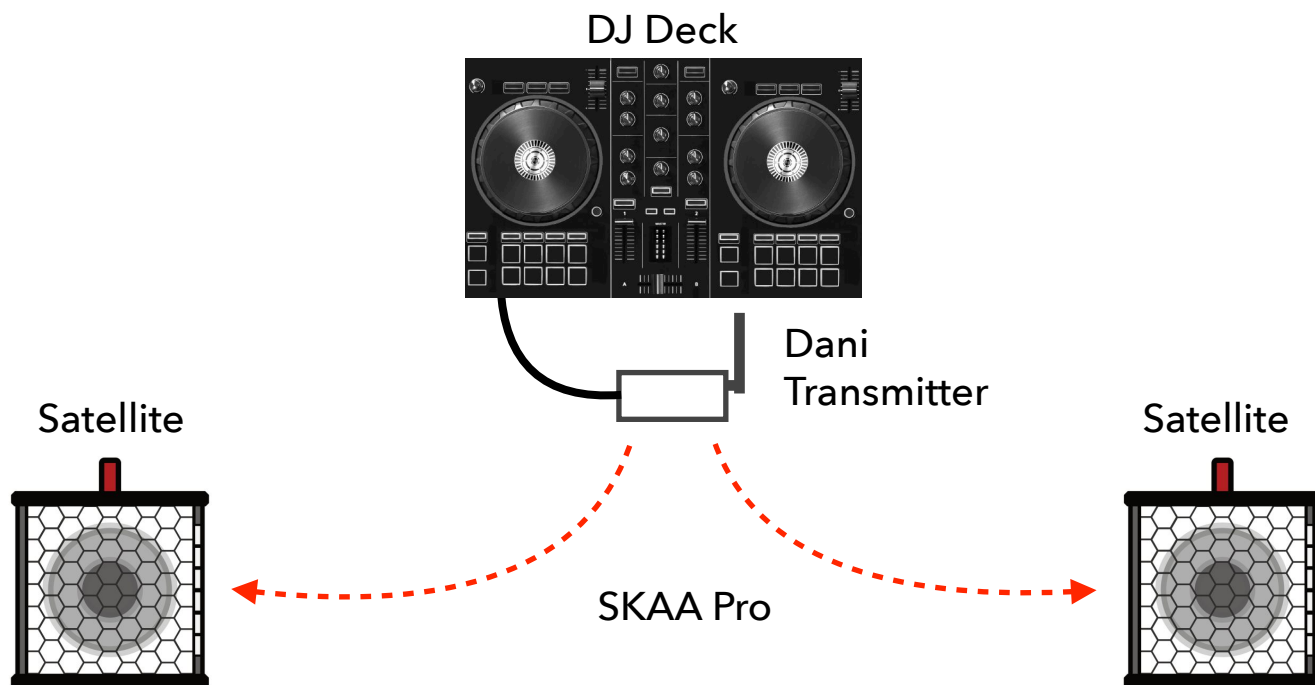
100

dope wireless DJ



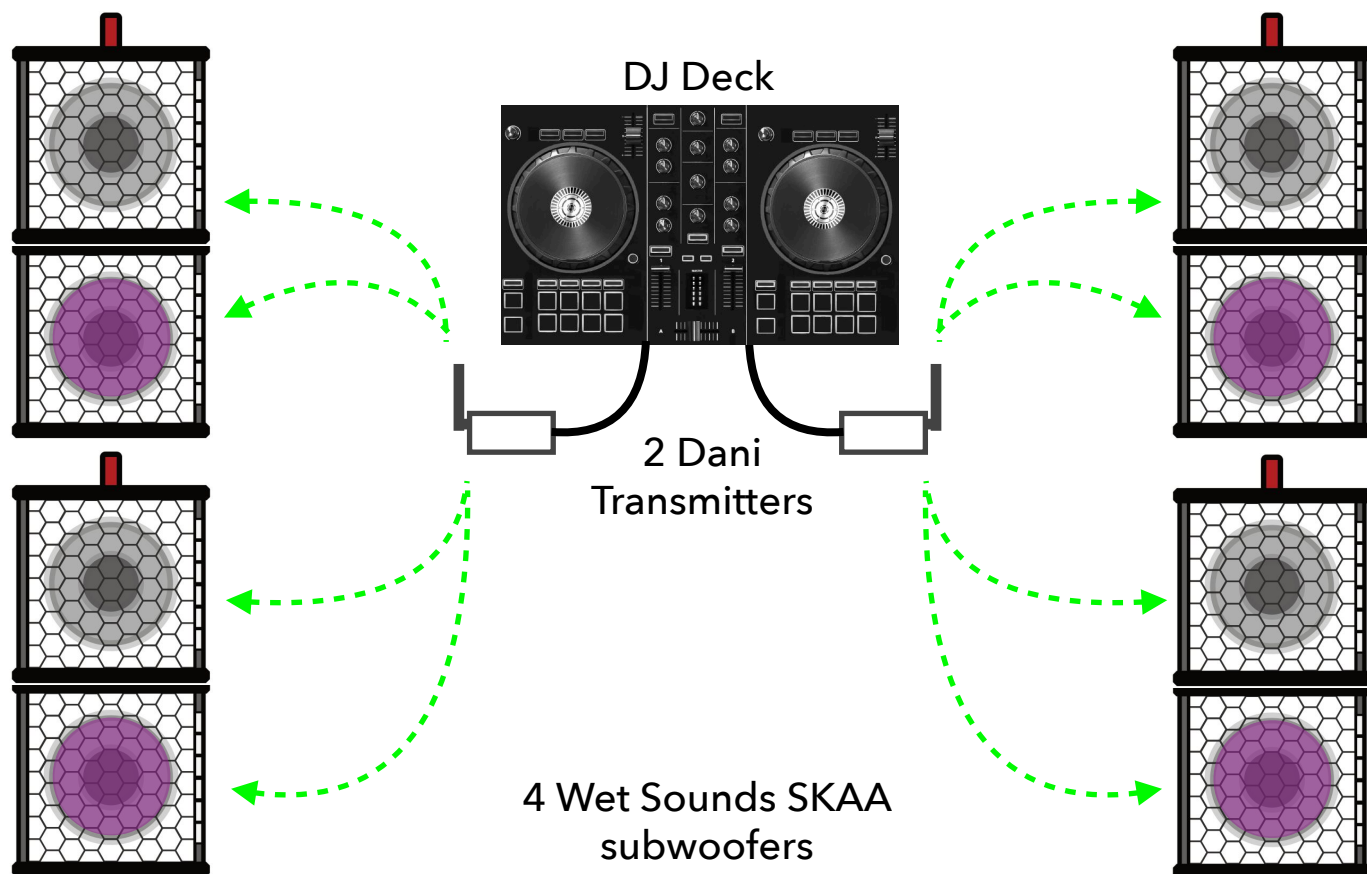
101

low latency DJ



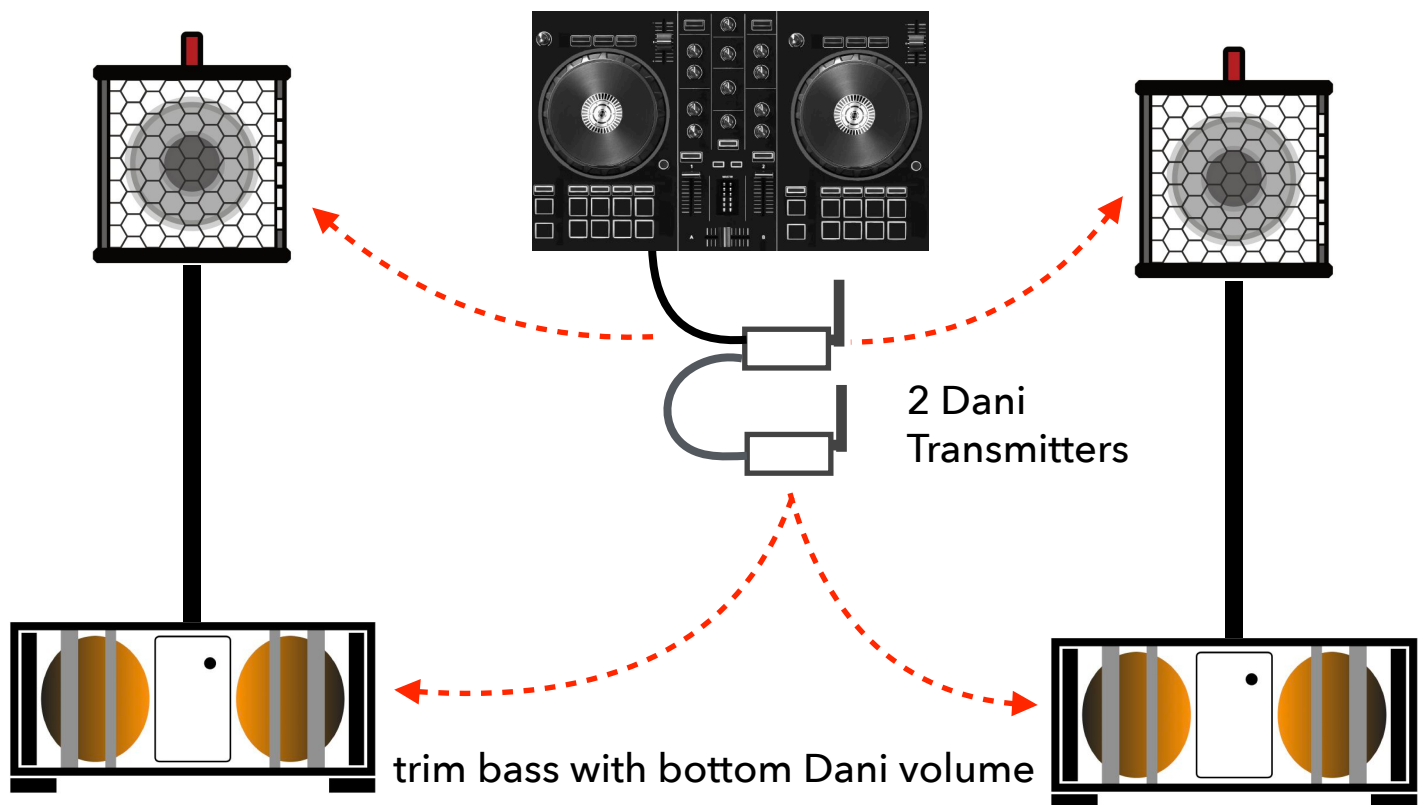
102

uber DJ



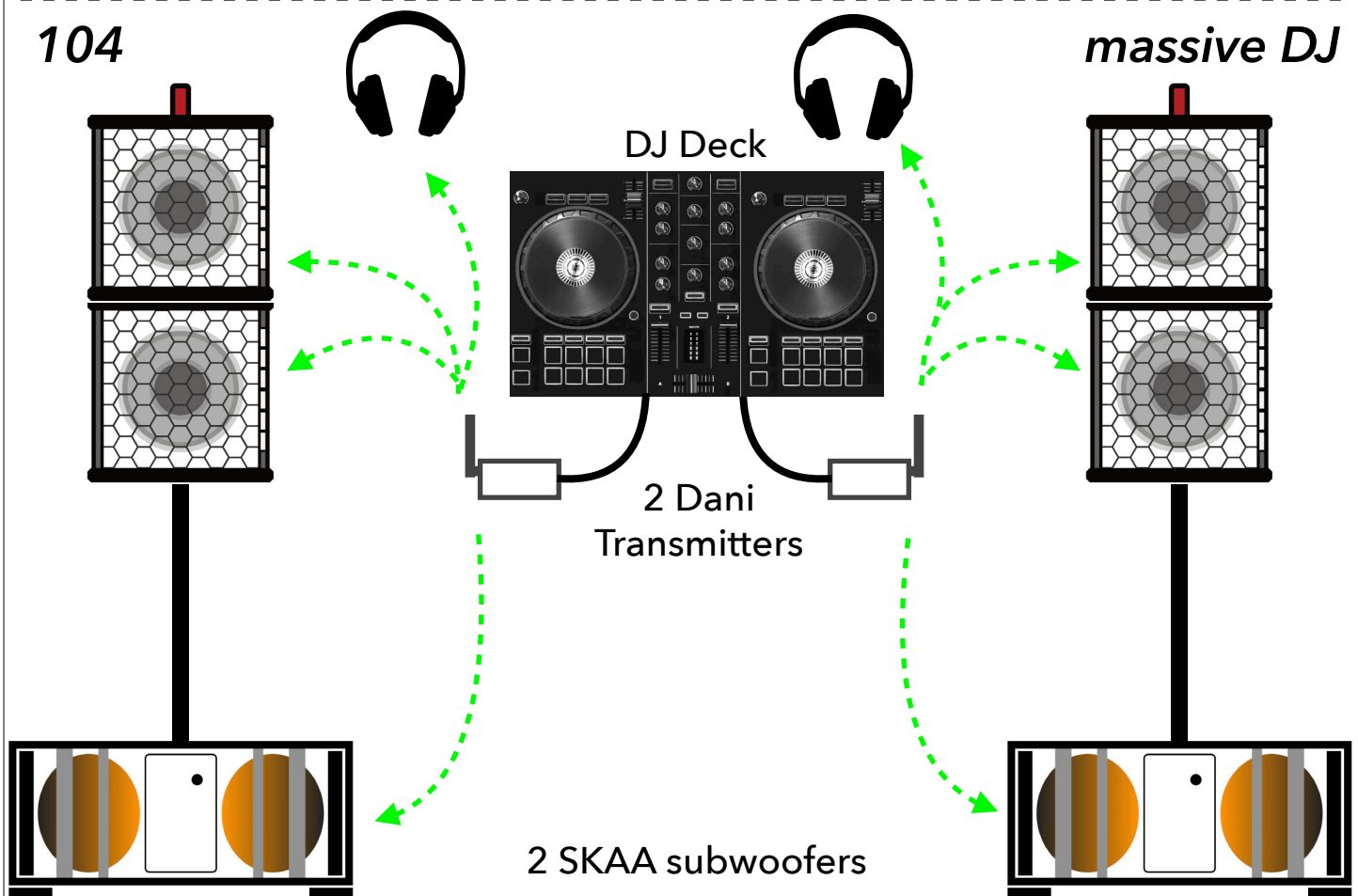
103

separate bass DJ



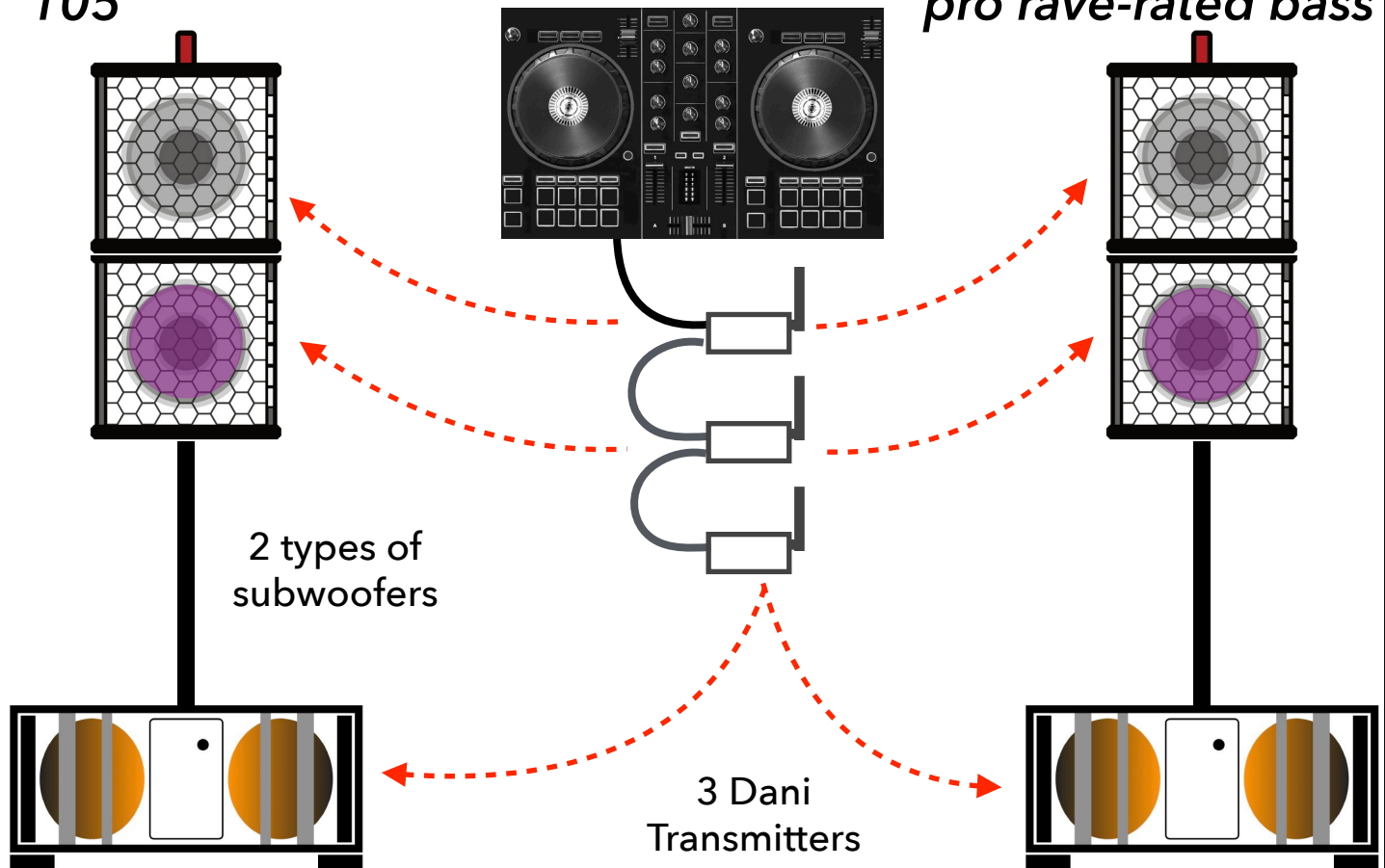
104

massive DJ



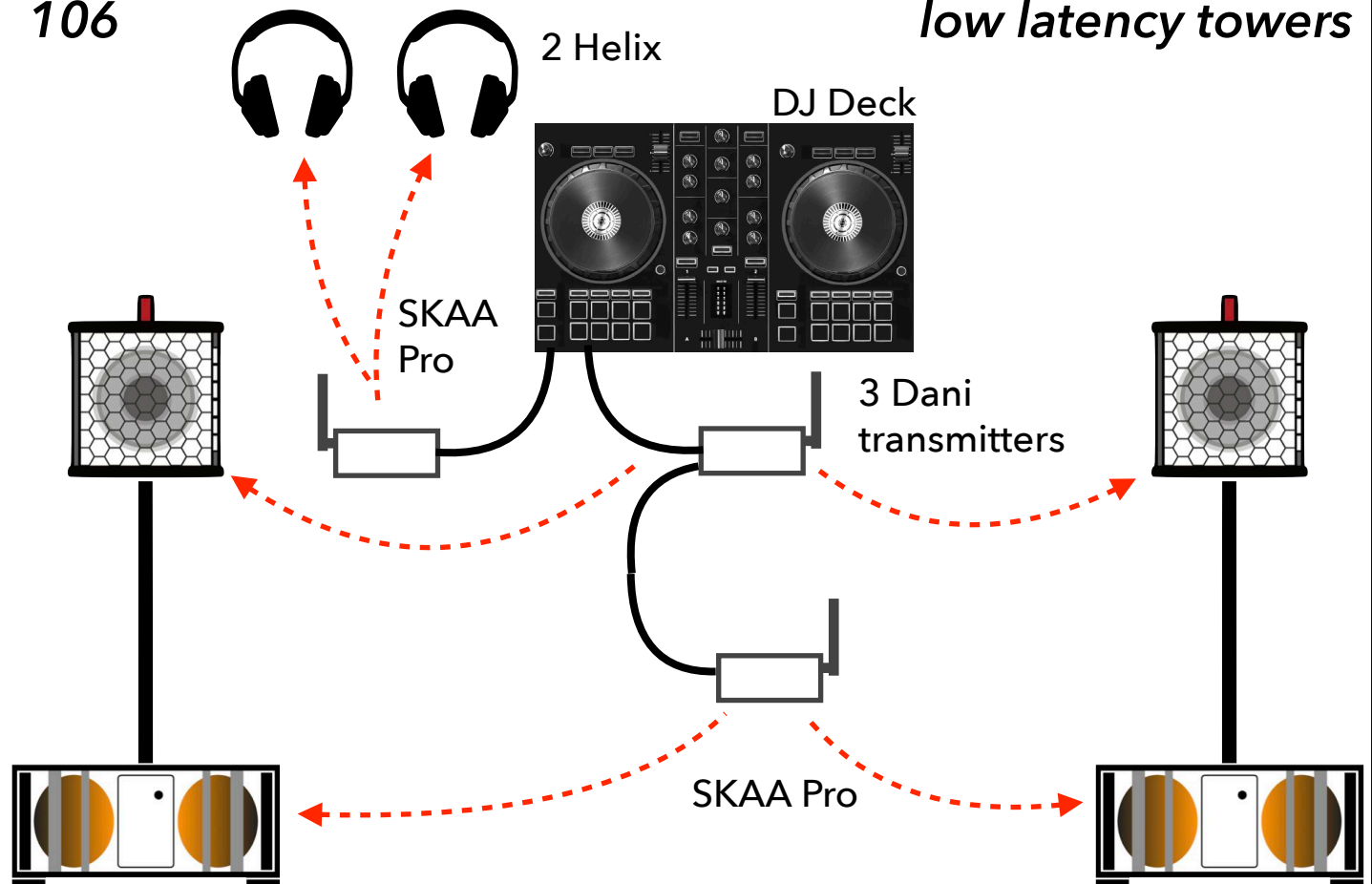
105

pro rave-rated bass



106

low latency towers



FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

IC Warning

This device complies with Industry Canada license-exempt RSS standard(s).

Operation is subject to the following two conditions:

(1) This device may not cause interference, and (2) This device must accept any interference, including interference that may cause undesired operation of the device

Le présent appareil est conforme aux CNR d' Industrie Canada applicables aux appareils radio

exempts de licence. L' exploitation est autorisée aux deux conditions suivantes:

(1) l' appareil ne doit pas produire de brouillage, et

(2) l' utilisateur de l' appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d' en compromettre le fonctionnement.

Changes or modifications not expressly approved by the party responsible for compliance could void the user' s authority to operate the equipment. This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Cet équipement est conforme aux limites d'exposition au rayonnement ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé à une distance minimale de 20 cm entre le radiateur et votre corps.

This radio transmitter [IC:25357-WSL] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Antenna Types

Antenna Types	Maximum gain (dBi)	Impedance
Discrete Dipole Antenna	2.30	50
Internal Antenna	2.60	50