

Next to sight, hearing is one of our most valuable senses, sharing the same emotions and both reinforcing the way we perceive the world around us.

kreon offers a complete range of integrated compact speakers that follow the same design language of the kreon lighting fixtures and in some cases even allow the combination of both light and sound into one architectural unit. This makes it possible to fully integrate the sound plan into the light plan merging both into a harmonious yet minimalist architectural expression.

kreon audio can be applied as a single unit or as an acoustic component of a linear lighting system.

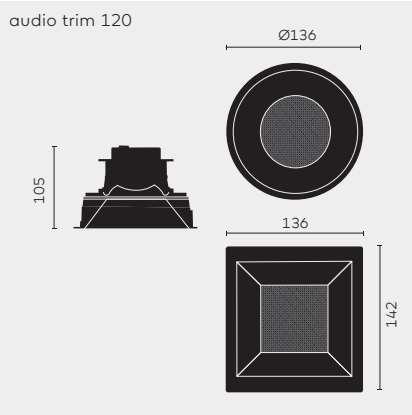
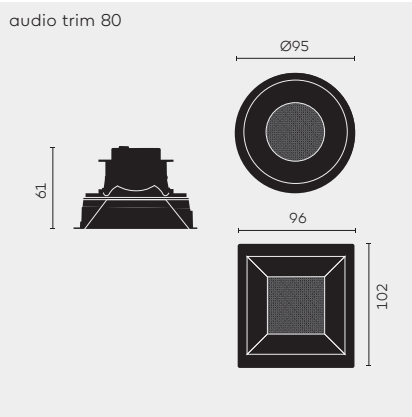
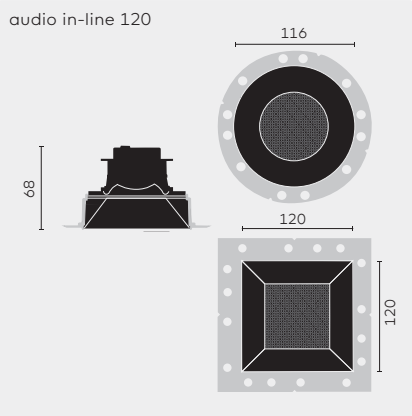
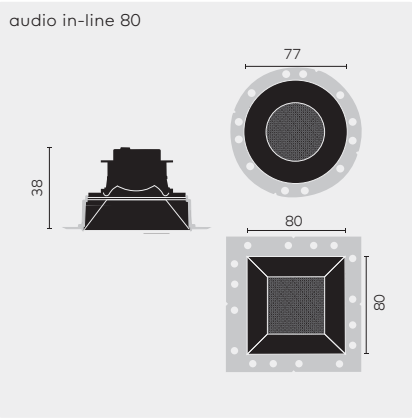
Create multiple schemes for different rooms. The remote digital DIN rail amplifiers allow a centralised custom programming of the complete audio system.

Connect directly or wireless to any audio source, like a smartphone, tablet, CD player, TV, computer or a home automation system.

Depending on the size of the room and the characteristics of the speakers, a subwoofer may be required for additional clarity and power.







	Colour ❶	KR-code	Speaker	R01 Round, white ❷	R02 Round, black ❷	S01 Square, white ❷	S02 Square, black ❷	Required accessories
audio in-line 80 ③	○	KR907091	①					■
	●	KR907092	①					■
audio in-line 120 ③④	○	KR907891	②					■
	●	KR907892	②					■
audio trim 80 ③	○	KR937091	①	●	●	●	●	
	●	KR937092	①	●	●	●	●	
audio trim 120 ③④	○	KR937991	②	●	●	●	●	
	●	KR937992	②	●	●	●	●	
■ Required accessories								
Plasterkit (round)		KR717104	Plasterkit aplis in-line 80, no shadowgap					
		KR717108	Plasterkit aplis in-line 80, shadowgap					
		KR707204	Plasterkit aplis in-line 120, no shadowgap					
		KR707208	Plasterkit aplis in-line 120, shadowgap					
Plasterkit (square)		KR717114	Plasterkit down in-line 80, no shadowgap					
		KR717118	Plasterkit down in-line 80, shadowgap					
		KR707214	Plasterkit down in-line 120, no shadowgap					
		KR707218	Plasterkit down in-line 120, shadowgap					
Louvre (round)		KR717106	Louvre aplis in-line 80, white					
		KR717122	Louvre aplis in-line 80, black					
		KR717105	Louvre aplis in-line 80, gun black					
		KR717103	Louvre aplis in-line 80, red satin copper					
		KR707206	Louvre aplis in-Line 120, white					
		KR707222	Louvre aplis in-line 120, black					
Louvre (square)		KR717116	Louvre down in-line 80, white					
		KR717112	Louvre down in-line 80, black					
		KR717115	Louvre down in-line 80, gun black					
		KR717113	Louvre down in-line 80, red satin copper					
		KR707216	Louvre down in-line 120, white					
		KR707212	Louvre down in-line 120, black					

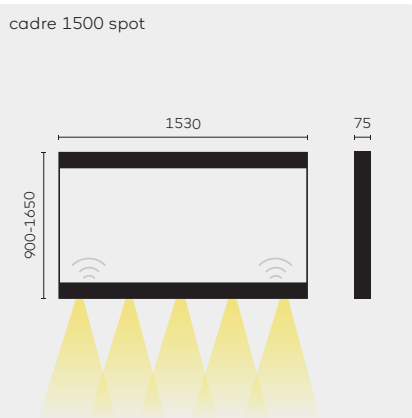
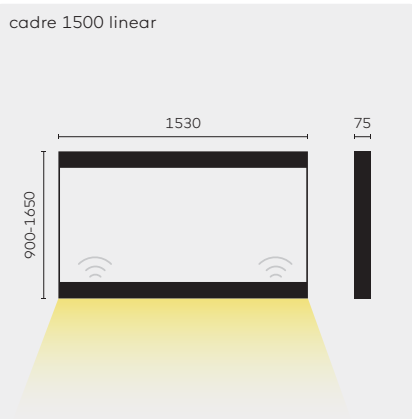
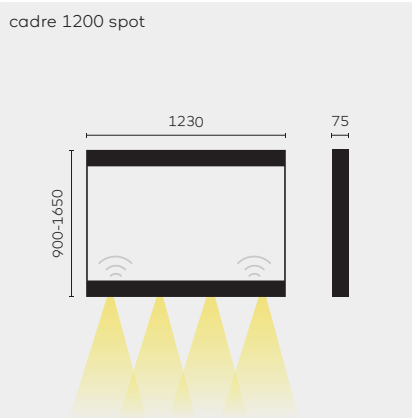
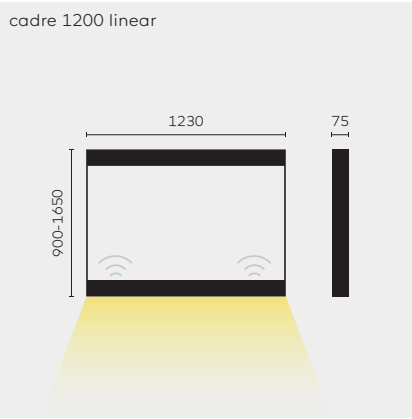
	Speakers	Impedance (Ω)	Bandwidth (Hz)	Max SPL at 1m			Wiring
				minikreamp	kreamp	home-cinema amp	
①	1 x 2"	4 ohm	90 - 20k	95,2dB	99dB	99dB	2 x 2,5mm²
②	1 x 3"	8 ohm	60 - 20k	96dB	100dB	100dB	2 x 2,5mm²

REMARKS

- ❶ Coding defines the colour of the speakers cloth
- ❷ Coding defines the shape and the colour of the trim and louvre.
- ❸ Suitable for under canopy use.
- ❹ Can be used as minisubwoofer in small rooms

See page 432-433 for more audio accessories.

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	Colour	KR-code	Speaker	Light sources	9027 2700K, CRI90+	9030 3000K, CRI90+	VD 1-10V dimming	DD DALI dimming	Required accessories	Optional accessories
	●	KR963460	①	②	●	●	●	●	■	■
	●	KR963462	①	②	●	●	●	●	■	■
	●	KR963470	①	③	●	●	●	●	■	■
	●	KR963472	①	③	●	●	●	●	■	■

■ Required accessories

Leather telescopic suspension, black anodised (for KR9634x2)

Pendant height 900-1200 mm	End part	○	KR763761
		●	KR763762
	Coupler	○	KR763361
		●	KR763362
Pendant height 1200-1650 mm	End part	○	KR763861
		●	KR763862
	Coupler	○	KR763461
		●	KR763462

Leather telescopic suspension, chrome (for KR9634x0)

Pendant height 900-1200 mm	End part	○	KR763751
		●	KR763752
	Coupler	○	KR763351
		●	KR763352
Pendant height 1200-1650 mm	End part	○	KR763851
		●	KR763852
	Coupler	○	KR763451
		●	KR763452

	Speakers	Impedance (Ω)	Bandwidth (Hz)	Max SPL at 1m			Wiring
				minikreamp	kreamp	home-cinema amp	
①	2 x 2"	2 x 4 ohm	110-24k	98dB	101dB	101dB (only for surround)	4 x 2,5mm ²
	CRI	CCT	Voltage	Wattage	Fixture lumen		
②	LED	CRI90+	2700K/3000K	230V	4 x 6,5W	1335lm	
③	LED	CRI90+	2700K/3000K	230V	5 x 6,5W	1669lm	

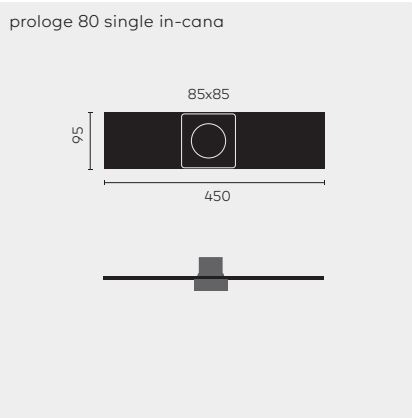
REMARKS















- ① kreon cadre is available in two different colours
- Black anodised
- Chrome

See page 432-433 for more audio accessories.

Gear: incl.

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	Colour ^❶	KR-code	Speaker	Required accessories ^❷	Optional accessories ^❷
		<u>KR934211</u>	❶		
		<u>KR934212</u>	❶		
		<u>KR934261</u>	❷		
		<u>KR934262</u>	❷		

	Speakers	Impedance (Ω)	Bandwidth (Hz)	Max SPL at 1m			Wiring
				minikreamp	kreamp	home-cinema amp	
❶	1 x 2"	4 ohm	90 - 20k	95,2dB	99dB	99dB	2 x 2,5mm²




REMARKS

- ❶ The coverplates on the inside of the profile are always black. The speaker cloth has the same colour as the module.
- ❷ See page 432-433 for more audio accessories.

The speakers are supplied pre-assembled.
Combinations can be specified on order form.
See kreon cana 80 range on page 90 for more information on the serie.

IP20



	nuit			Colour ^❶	KR-code	Speaker	Required accessories ^❷	Optional accessories ^❷
				KR974890	❶			

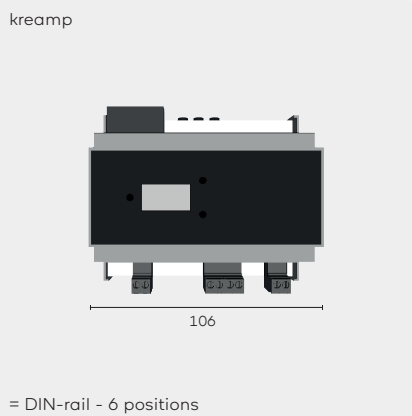
	Speakers	Impedance (Ω)	Bandwidth (Hz)	Max SPL at 1m			Wiring
				minikreamp	kreamp	home-cinema amp	
❶	1 x 6 x 1"	6 ohm	200-20k	90dB	95dB	xx	2 x 2,5mm ²





REMARKS

- ❶ The cloth of the speaker is always black
- ❷ See page 432-433 for more audio accessories.

See kreon nuit range on page 276 for more information on the serie.

IP20

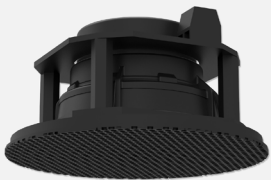


	Colour	KR-code	Optional accessories
mini kreamp amplifier DIN-rail 4-positions		<u>KR957020</u>	① 
kreamp amplifier DIN-rail 6-positions		<u>KR957025</u>	② 
connect BT ➊ + jack ➋ LxH 80x80, 68mm standard socket box		<u>KR957321</u>	
		<u>KR957322</u>	
subwoofer LxH 560x190x113		<u>KR957620</u>	③
■ Optional accessories			
Voltage		<u>KR757020</u>	DIN-rail 24V-60W for minikreamp
		<u>KR757025</u>	DIN-rail 48V-92W for kreamp
Cable RJ45		<u>KR710102</u>	Cable RJ45, 0.3m
		<u>KR710000</u>	Cable RJ45, 0.5m
		<u>KR710005</u>	Cable RJ45, 5m
		<u>KR710010</u>	Cable RJ45, 10m
		<u>KR710020</u>	Cable RJ45, 20m
Splitter		<u>KR710300</u>	Splitterbox

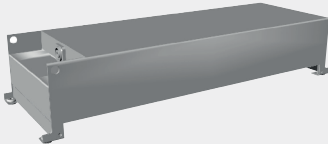
	Output power	Bandwidth (Hz)	Voltage		
①	2 x 18 Wrms (4 ohm) + 1 x 36 Wrms (8 ohm)	5 - 24k	24V		
②	2 x 145 Wrms (2 ohm) + 1 x 300 Wrms (4 ohm)	5 - 24k	48V		
	Speakers	Impedance	Bandwidth (Hz)	Max SPL at 1m	Wiring
③	1 x 6,5' active + 2 x 6,5' passives	8 ohm	40-250k	103/110dB (minikreamp/ kreamp)	2 x 2,5 mm²

REMARKS
① Bluetooth 4.2 - A2DP-APTX

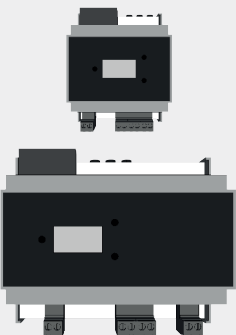
A. Choose your speaker



B. Add a subwoofer when needed



C. Associate the amplifier



D. Add the optional BT Connect module ‡



A. Choose your speaker

The kreon speakers are miniaturized high quality passive audio components. Carefully position your speakers according to the space and the desired sound experience.

B. Add a subwoofer when needed

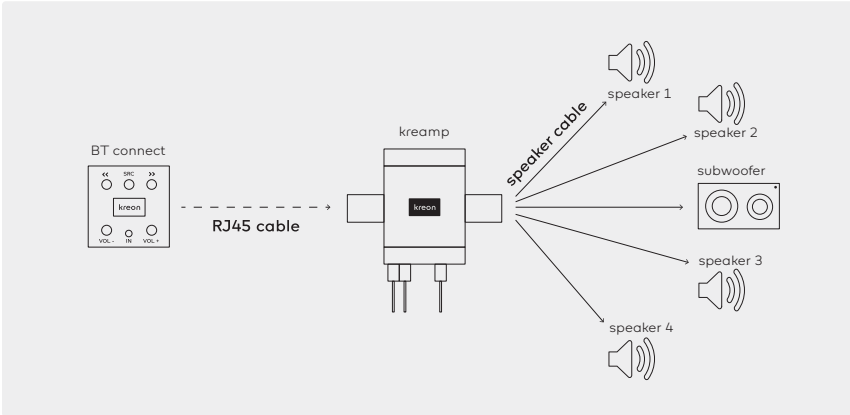
Depending on the size of your room and the characteristics of your speakers, a subwoofer may be required for additional clarity and power. The shallow kreon subwoofers are made of 3 mm steel sheets and only measures 560 x 190 x 110 mm only. Thanks to their flat design and their narrow output, they are easily hiddable in cupboards plinths, under beds and sofas. For very small rooms and low level expects, module 120 and Ceiling Solution speaker can be converted as minisubwoofers.

C. Associate the amplifier

Power your speakers and subwoofers through simple speaker cables with the kreon DIN-rail amplifiers. These highly miniaturized digital amplifiers allow you to connect any audio source and let you perfectly optimize your speakers with their digital signal processor (dsp). Simply choose the preset corresponding to your kreon speaker, and the amplifier will automatically compensate their frequency response. Each audio room is fitted with an amplifier, allowing independent listening. Depending on the number of speakers to power, choose between the minikreamp and the kreamp. For home cinema, simply wire the kreon speakers to a standard home cinema amplifier.

D. Add the optional BT Connect module ‡

If you need local connection by jack or Bluetooth, just add the Bluetooth Connect module . Easy to integrate in its standard 80x80mm switch format, simply wire it to the amplifier by a RJ45 cable (up to 100m).



Speakers/subwoofers configurator

Room	Size	module 80	module 120	nuit ❷	cadre	ceiling solution
Living room	S < 30m²	2 + 1 sub	2 ❶	8 + 1 sub	1 + 1 sub	2
	30m² < S < 60m²	4 + 2 sub	4 ❶	16 + 2 sub	x	4
	60m² < S < 100m²	8 + 4 sub	8 ❶	x	x	8
Bath Dressing Toilets	S < 15m²	1	1	2 + minisub	x	1
	15m² > S	2	1 or 2	4 + minisub	x	1
Bedroom (incl. hotel)	S < 20m²	2	2	2 + minisub	1 + minisub	2
	20m² < S < 40m²	2 + 1 sub	2 ❶	8 + 1 sub	x	2
	40m² < S < 60m²	4 + 1 sub	4 ❶	16 + 1 sub	x	4
Restaurant	S < 40m²	4 + 1 sub	4 ❶	8 + 1 sub	1 + sub	2
	40m² < S < 80m²	8 + 2 sub	8 ❶	16 + 2 sub	2 + 2 sub	4
	80m² < S < 120m²	16 + 4 sub	16 ❶	32 + 2 sub	x	8

For kreon speakers (output speaker)

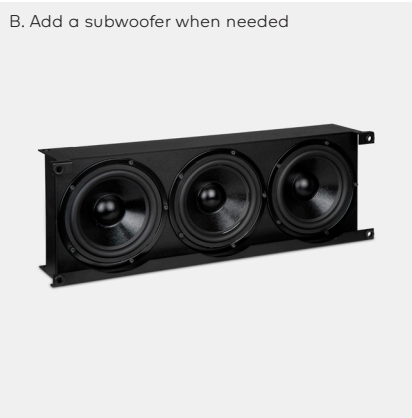
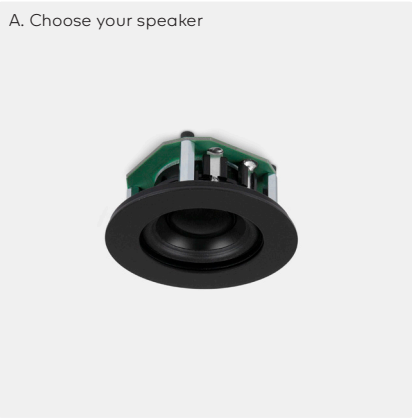
Speaker model	Impedance (Ω)	minikreamp	kreamp
module 80	4	1 to 2	4 to 16
module 120	8	1 to 2	4 to 16
nuit	6	1 to 8	8 to 16
cadre	2 x 4	1	1 to 2
ceiling solution	8	1 to 2	4 to 16

For kreon subwoofers (output sub)

Speaker model	Impedance (Ω)	minikreamp	kreamp
module 120	8	1	x
ceiling solution	8	1	x
Sub Gen2	8	1❸	1 to 2

REMARKS

- ❶ Does not need a sub for background music/requires sub for loud music
- ❷ Only for background music.
- ❸ Degraded mode: subwoofer will work at 50% power



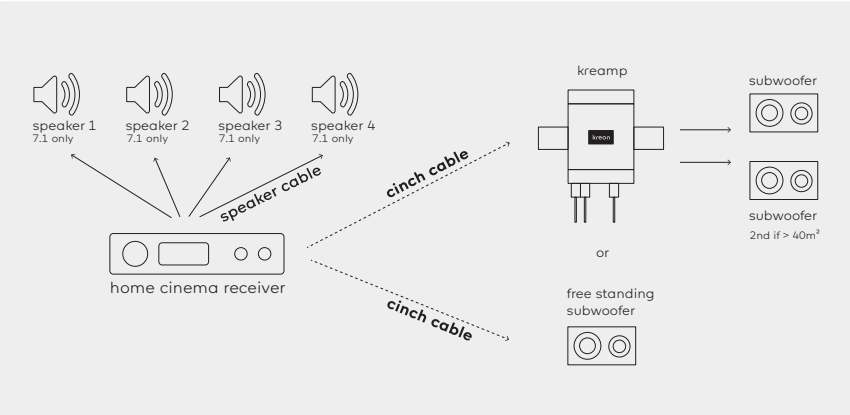
A. Choose your speaker
Except for kreon nuit, all kreon speakers can be used to build an elegant home-cinema: don't be fooled by their tiny size, they are able to reproduce very clear dialogs as well as loud explosions.

- Carefully position your speakers according to the home-cinema standards :
- 2 left and right speakers, like a stereo system
 - 1 center speaker, that reproduces the dialogs
 - 2 (5.1) or 4 (7.1) speakers, that make the surround effects

B. Add a subwoofer when needed
Home cinema effects require a lot of energy in the lows, so a subwoofer is absolutely needed.

- You have 2 possibilities:
- Invisible sub, integrated in furniture : use 1 (<40m²) or 2 (>40m²) kreon subwoofer(s) and power them though a kreamp amplifier.
 - Free-standing subwoofer: Buy a home cinema active subwoofer of your choice and connect it directly to the home cinema receiver.

C. Associate the amplifier
Home cinema needs a special amplifier called 'home cinema receiver', able to decode the cinema sound effects (HD Master, Dolby Digital, DTS...). They can be found by any retailer. Any brand is compatible, since their configuration menus all offer the possibility to set the speakers as 'small'. Their tiny size is then taken into account by the amplifier, which automatically routes the lows to the subwoofer. Very few amplifiers have a sixth amplified output, that allows to directly wire a kreon passive subwoofer. This allows to build an economical small system by getting rid of the kreamp – please ask for compatible models.



Speakers/subwoofers configurator

	Size	module 80	module 120	nuit ❶	cadre	ceiling solution
Home cinema	S < 40m²	5 or 7 + sub	5 or 7 + HC sub	x	1 as rear speakers only	5 or 7 + HC sub
	30m²>S	4 as rear speakers only	5 or 7 + HC sub	x	1 as rear speakers only	5 or 7 + HC sub

For kreon speakers (output speaker)

Speaker model	Impedance (Ω)	minikreamp	kreamp
module 80	4	1 to 2	4 to 16
module 120	8	1 to 2	4 to 16
nuit	6	1 to 8	8 to 16
cadre	2 x 4	1	1 to 2
ceiling solution	8	1 to 2	4 to 16

For kreon subwoofers (output sub)

Speaker model	Impedance (Ω)	minikreamp	kreamp
module 120	8	1	x
ceiling solution	8	1	x
Sub Gen2	8	1❷	1 to 2

REMARKS
❶ Only for background music.
❷ Degraded mode: subwoofer will work at 50% power