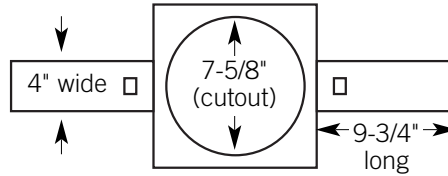
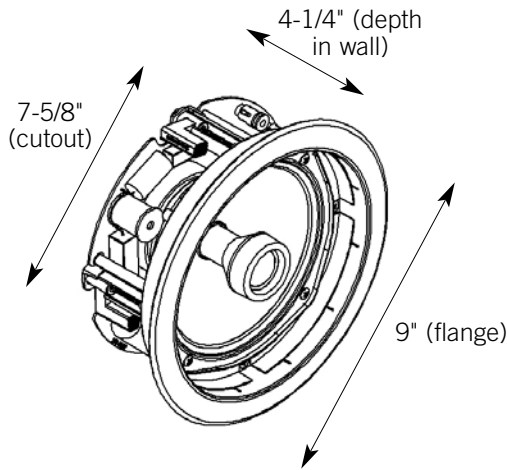


Dimensions and Bracket Information



BR68 Rough-in Bracket

Metal rough-in brackets are designed to “claim the space” during drywalling.

Performance

Placement

Walls and ceilings. Model 465 is weather-resistant, and can be placed in humid environments.

Maximum Output

101dB each, with 100 watts of amplification.

Room Size

Up to 3,000 ft³

Close-Miked Near-Field Response (-3dB)

55-20,000 Hz

6dB Downpoint

45 Hz

Nominal Coverage Angle (-6dB from Reference Axis)

65° Radial

Sensitivity [1 watt (2.83v) at 1m]

86dB

Nominal Impedance

8 ohms

Tweeter

1" pure silk

Bass Unit

6-1/2" long-throw bass unit with polymer cone, butyl surround.

Connections

Spring-clips

Construction

Damped plastic frame, Slot/Lock® clamping system

Grilles

White powder coated MicroPerf® metal grille.

Weight

4 lbs each

Predictive Placement

SPL

How loud will one speaker play, in dB, with given amplifier power.

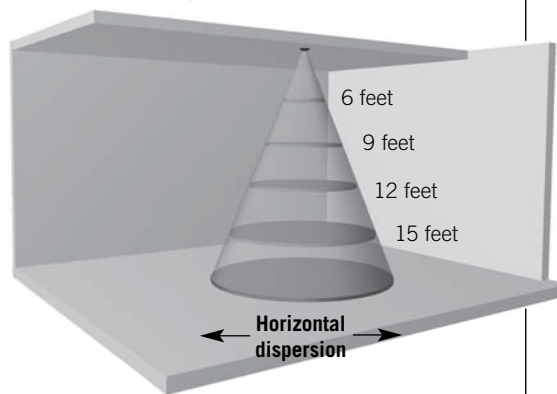
Amp Power	Distance from ceiling to ear level				
	3'	6'	9'	12'	15'
25 watts	96dB	91dB	89dB	89dB	86dB
50 watts	99dB	94dB	92dB	91dB	89dB
100 watts	101dB	97dB	95dB	94dB	92dB

Coverage

How wide is the diameter of the coverage pattern, assuming -3dB from reference, as distance increases.

Horiz. Measurement	Distance from ceiling to ear level				
	3'	6'	9'	12'	15'
Coverage (65°)	3.5'	7'	10'	15'	19'

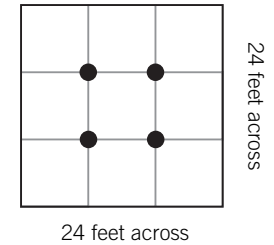
Distance from ceiling



Planning Distributed Music Systems

For full coverage in a typical room with 9' ceilings, place one speaker every 8' apart. Keep the speaker away from side walls by 8' to maximize coverage.

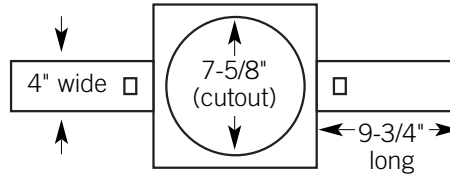
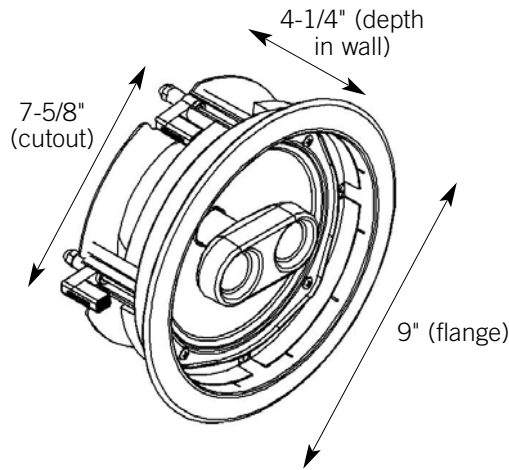
8' grid on ceiling



Determining Theater L/C/R Placement

This speaker features a Vocal Integrity® system design for use as front stage L/C/R speakers. For best performance, place the speakers within 2' of the TV wall.

Dimensions and Bracket Information



BR68 Rough-in Bracket

Metal rough-in brackets are designed to "claim the space" during drywalling.

Performance

Placement

Walls and ceilings. Model 466 is weather-resistant, and can be placed in humid environments.

Maximum Output

104dB each, with 100 watts of amplification.

Room Size

Up to 3,000 ft³

Close-Miked Near-Field Response (-3dB)

55-20,000 Hz

6dB Downpoint

45 Hz

Nominal Coverage Angle (-6dB from Reference Axis)

70° Radial

Sensitivity [1 watt (2.83v) at 1m]

87dB

Nominal Impedance

8 ohms

Tweeter

Dual 1" pure silk

Bass Unit

6-1/2" stereo long-throw bass unit with polymer cone, butyl surround.

Connections

Spring-clips

Construction

Damped plastic frame, Slot/Lock® clamping system

Grilles

White powder coated MicroPerf® metal grille.

Weight

4.5 lbs each

Predictive Placement

SPL

How loud will one speaker play, in dB, with given amplifier power.

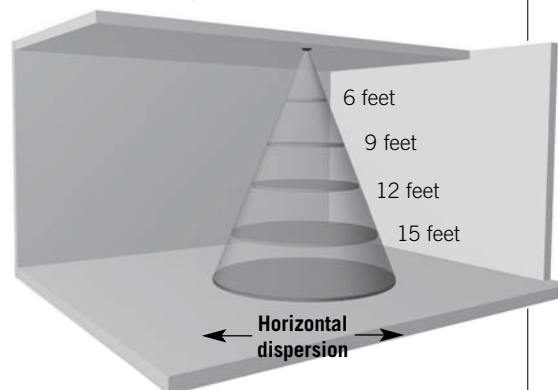
Amp Power	Distance from ceiling to ear level				
	3'	6'	9'	12'	15'
25 watts	99dB	94dB	92dB	92dB	89dB
50 watts	102dB	97dB	95dB	94dB	92dB
100 watts	104dB	100dB	98dB	97dB	95dB

Coverage

How wide is the diameter of the coverage pattern, assuming -3dB from reference, as distance increases.

Horiz. Measurement	Distance from ceiling to ear level				
	3'	6'	9'	12'	15'
Coverage (75°)	4.5'	9'	14'	19'	23'

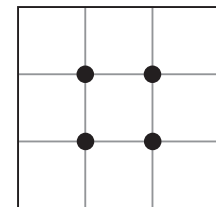
Distance from ceiling



Planning Distributed Music Systems

For full coverage in a typical room with 9' ceilings, place one speaker every 15' apart. Keep the speaker away from side walls by 8' to maximize coverage.

15' grid on ceiling

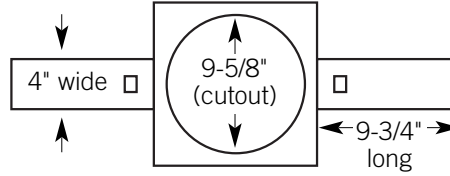
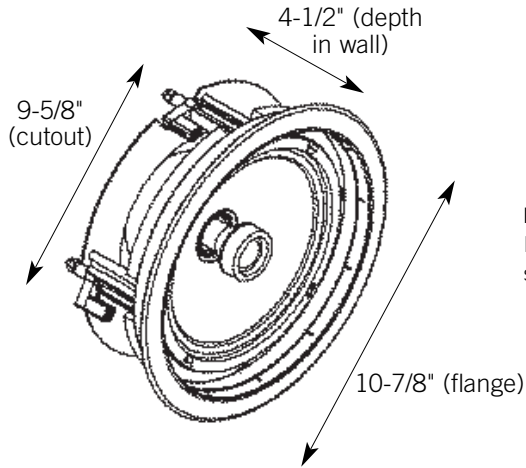


45 feet across

Using DVC Speakers in Large Rooms

Use dual voice coil speakers in large rooms to overcome the problems of disjointed stereo separation. 466's fill a large area, and can be spaced 15' apart with no loss in coverage.

Dimensions and Bracket Information



BR68 Rough-in Bracket

Metal rough-in brackets are designed to “claim the space” during drywalling.

Performance

Placement

Walls and ceilings. Model 485 is weather-resistant, and can be placed in humid environments.

Maximum Output

101dB each, with 100 watts of amplification.

Room Size

Up to 3,000 ft³

Close-Miked Near-Field Response (-3dB)

55-20,000 Hz

6dB Downpoint

45 Hz

Nominal Coverage Angle (-6dB from Reference Axis)

65° Radial

Sensitivity [1 watt (2.83v) at 1m]

86dB

Nominal Impedance

8 ohms

Tweeter

1" pure silk

Bass Unit

8" long-throw bass unit with polymer cone, butyl surround.

Connections

Spring-clips

Construction

Damped plastic frame, Slot/Lock® clamping system

Grilles

White powder coated MicroPerf® metal grille.

Weight

5 lbs each

Predictive Placement

SPL

How loud will one speaker play, in dB, with given amplifier power.

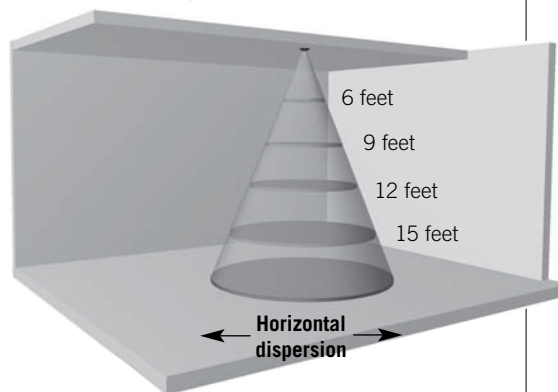
Amp Power	Distance from ceiling to ear level				
	3'	6'	9'	12'	15'
25 watts	98dB	93dB	91dB	90dB	88dB
50 watts	101dB	96dB	94dB	93dB	91dB
100 watts	104dB	99dB	97dB	96dB	94dB

Coverage

How wide is the diameter of the coverage pattern, assuming -3dB from reference, as distance increases.

Horiz. Measurement	Distance from ceiling to ear level				
	3'	6'	9'	12'	15'
Coverage (65°)	3.5'	7'	10'	15'	19'

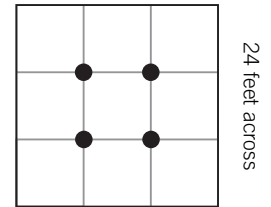
Distance from ceiling



Planning Distributed Music Systems

For full coverage in a typical room with 9' ceilings, place one speaker every 8' apart. Keep the speaker away from side walls by 8' to maximize coverage.

8' grid on ceiling

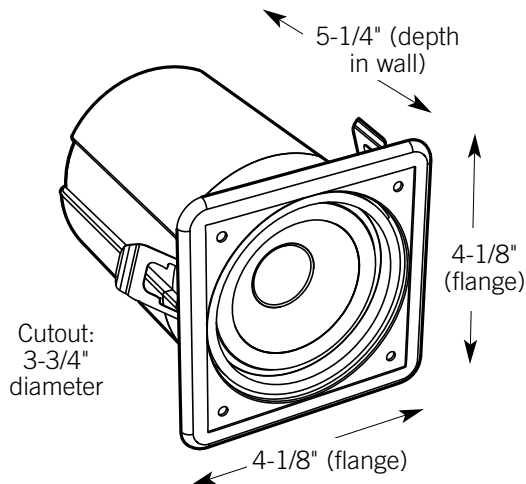


24 feet across

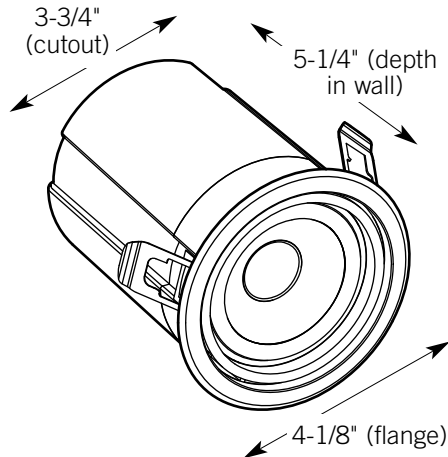
Determining Theater L/C/R Placement

This speaker features a Vocal Integrity® system design for use as front stage L/C/R speakers. For best performance, place the speakers within 2' of the TV wall.

Dimensions



Model 530



Model 535

Performance

Placement

Ceilings. Models 530MP and 535MP are weather-resistant, and can be placed in humid environments.

Maximum Output

95dB each, with 32 watts of amplification.

Room Size

Up to 1,500 ft³ per pair

Close-Miked Near-Field Response (-3dB)

150-20,000 Hz

6dB Downpoint

125 Hz

Nominal Coverage Angle (-6dB from Reference Axis)

70° Radial

Sensitivity [1 watt (2.83v) at 1m]

86dB

Nominal Impedance

8 ohms

Drive Unit

3" radially ported full-range driver

Connections

Gold-plated push terminals accept pins, spades, or bare wire to 12 gauge.

Construction

Fire-resistant plastic housing, integrated metal spring clips.

Grilles

White powder coated MicroPerf® metal grille.

Weight

1.2 lbs. each

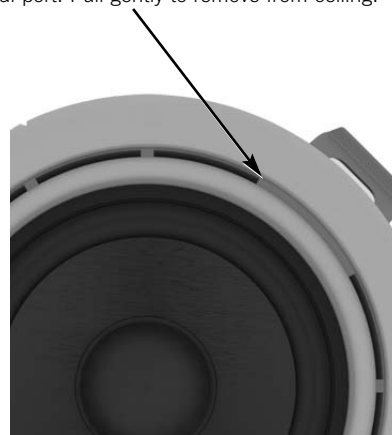
Installation Notes

Installation

Use a 3-5/8" hole saw. Do not attempt to cut the mounting hole by hand. The flange is only 1/4" wide.

Removal

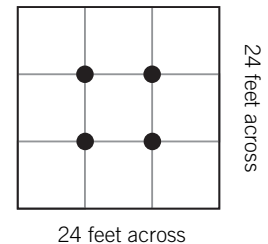
Use a pick tool to grab onto the plastic ribs along the radial port. Pull gently to remove from ceiling.



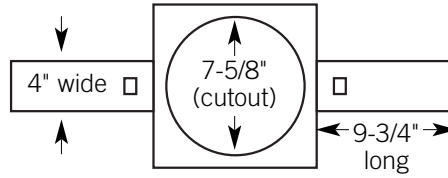
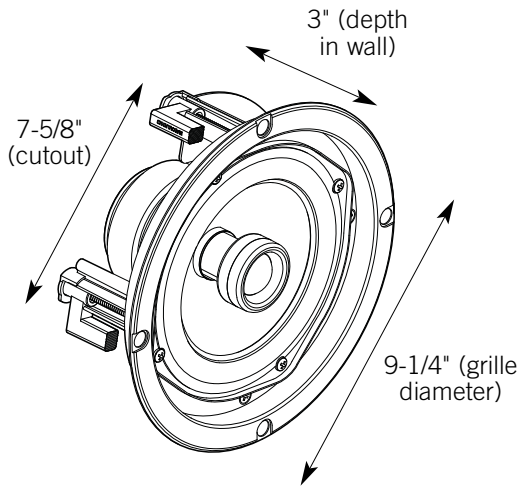
Planning Distributed Music Systems

For full coverage in a typical room with 9' ceilings, place one speaker every 8' apart. Keep the speaker away from side walls by 8' to maximize coverage.

8' grid on ceiling



Dimensions and Bracket Information



BR65 Rough-in Bracket

Metal rough-in brackets are designed to “claim the space” during drywalling.

Performance

Placement

Walls and ceilings. Model Pc5 is weather-resistant, and can be placed in humid environments.

Maximum Output

104dB each, with 100 watts of amplification.

Room Size

Up to 3,000 ft³

Close-Miked Near-Field Response (-3dB)

51-20,000 Hz

6dB Downpoint

45 Hz

Nominal Coverage Angle (-6dB from Reference Axis)

70° Radial

Sensitivity [1 watt (2.83v) at 1m]

87dB

Nominal Impedance

8 ohms. 70V with optional piggyback transformer.

Tweeter

1" chambered pure silk

Bass Unit

170mm long-throw bass unit with polymer cone, 32mm voice coil, butyl surround.

Connections

Gold-plated push terminals accept pins, spades, or bare wire to 12 gauge.

Construction

Metalized plastic frame, Slot/Lock® clamping system

Grilles

Magnetized thin bezel microperf grille

Weight

3.5 lbs each

Predictive Placement

SPL

How loud will one speaker play, in dB, with given amplifier power.

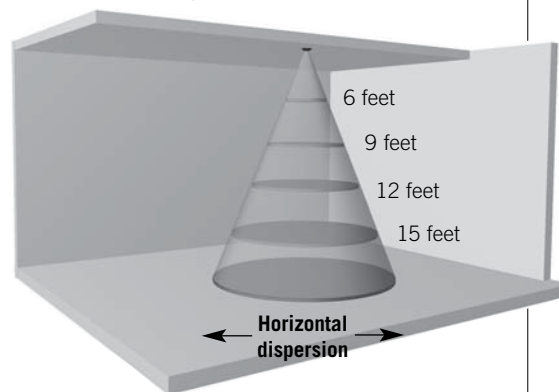
Amp Power	Distance from ceiling to ear level				
	3'	6'	9'	12'	15'
25 watts	99dB	94dB	92dB	92dB	89dB
50 watts	102dB	97dB	95dB	94dB	92dB
100 watts	104dB	100dB	98dB	97dB	95dB

Coverage

How wide is the diameter of the coverage pattern, assuming -3dB from reference, as distance increases.

Horiz. Measurement	Distance from ceiling to ear level				
	3'	6'	9'	12'	15'
Coverage (70°)	4'	8'	12'	16'	20'

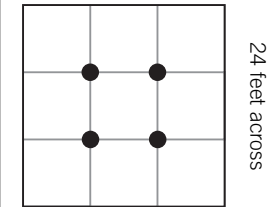
Distance from ceiling



Planning Distributed Music Systems

For full coverage in a typical room with 9' ceilings, place one speaker every 8' apart. Keep the speaker away from side walls by 8' to maximize coverage.

8' grid on ceiling

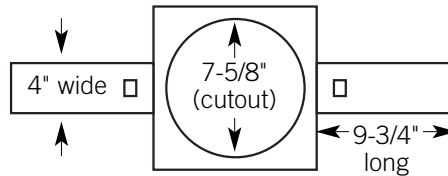
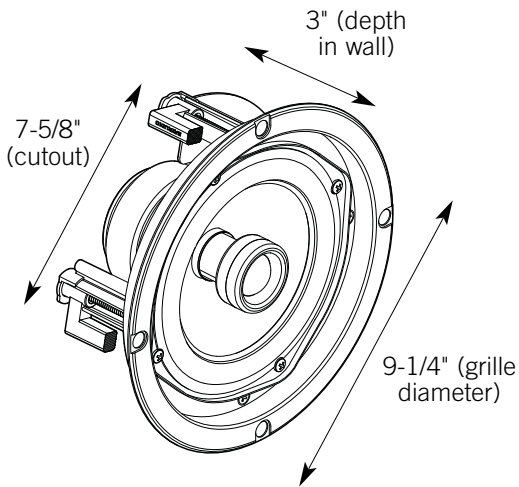


24 feet across

Determining Theater L/C/R Placement

This speaker features a Vocal Integrity® system design for use as front stage L/C/R speakers. For best performance, place the speakers within 2' of the TV wall.

Dimensions and Bracket Information



BR65 Rough-in Bracket

Metal rough-in brackets are designed to "claim the space" during drywalling.

Performance

Placement

Walls and ceilings. Model Pc5d is weather-resistant, and can be placed in humid environments.

Maximum Output

104dB each, with 100 watts of amplification.

Room Size

Up to 3,000 ft³

Close-Miked Near-Field Response (-3dB)

51-20,000 Hz

6dB Downpoint

45 Hz

Nominal Coverage Angle (-6dB from Reference Axis)

70° Radial

Sensitivity [1 watt (2.83v) at 1m]

87dB

Nominal Impedance

8 ohms

Tweeter

Single stereo 1" pure silk

Bass Unit

Dual voice coil 170mm long-throw bass unit with polymer cone, 32mm voice coil, butyl surround.

Connections

Gold-plated push terminals accept pins, spades, or bare wire to 12 gauge.

Construction

Bonded aluminum frame, Slot/Lock® clamping system

Grilles

Magnetized thin bezel microperf grille

Weight

3.5 lbs each

Predictive Placement

SPL

How loud will one speaker play, in dB, with given amplifier power.

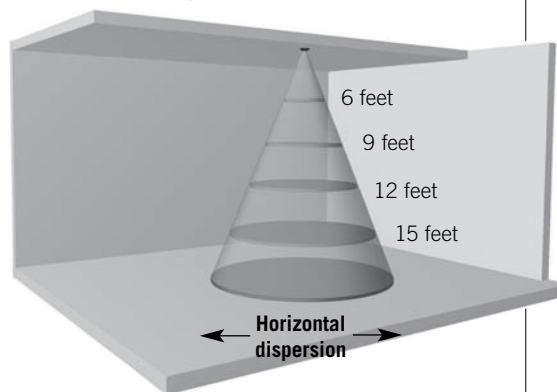
Amp Power	Distance from ceiling to ear level				
	3'	6'	9'	12'	15'
25 watts	99dB	94dB	92dB	92dB	89dB
50 watts	102dB	97dB	95dB	94dB	92dB
100 watts	104dB	100dB	98dB	97dB	95dB

Coverage

How wide is the diameter of the coverage pattern, assuming -3dB from reference, as distance increases.

Horiz. Measurement	Distance from ceiling to ear level				
	3'	6'	9'	12'	15'
Coverage (70°)	4'	8'	12'	16'	20'

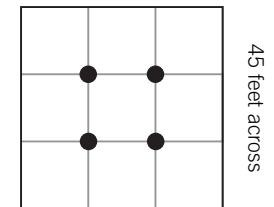
Distance from ceiling



Planning Distributed Music Systems

For full coverage in a typical room with 9' ceilings, place one speaker every 15' apart. Keep the speaker away from side walls by 8' to maximize coverage.

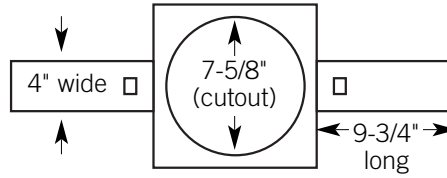
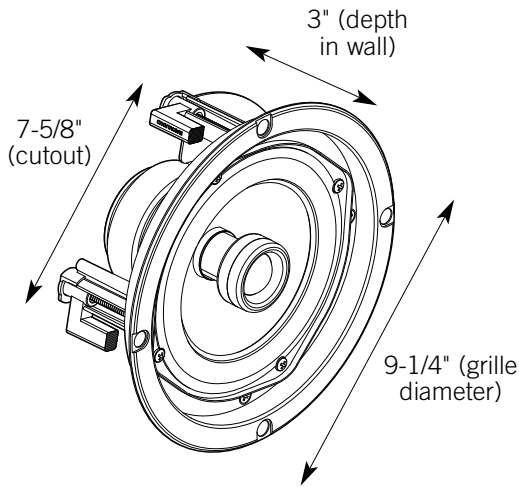
15' grid on ceiling



Using DVC Speakers in Large Rooms

Use dual voice coil speakers in large rooms to overcome the problems of disjointed stereo separation. The Pc5d fills a large area, and can be spaced 15' apart with no loss in coverage.

Dimensions and Bracket Information



BR65 Rough-in Bracket

Metal rough-in brackets are designed to “claim the space” during drywalling.

Performance

Placement

Outdoors in protected environments. Model Pc5m is weather-resistant, and can be placed in marine environments away from salt spray.

Maximum Output

104dB each, with 100 watts of amplification.

Room Size

Up to 3,000 ft³

Close-Miked Near-Field Response (-3dB)

51-20,000 Hz

6dB Downpoint

45 Hz

Nominal Coverage Angle (-6dB from Reference Axis)

70° Radial

Sensitivity [1 watt (2.83v) at 1m]

87dB

Nominal Impedance

8 ohms. 70V with optional piggyback transformer.

Tweeter

1" chambered pure silk

Bass Unit

170mm long-throw bass unit with polymer cone, 32mm voice coil, butyl surround.

Connections

Gold-plated push terminals accept pins, spades, or bare wire to 12 gauge.

Construction

Metalized plastic frame, Slot/Lock® clamping system

Grilles

Magnetized thin bezel microperf grille

Weight

3.5 lbs each

Predictive Placement

SPL

How loud will one speaker play, in dB, with given amplifier power.

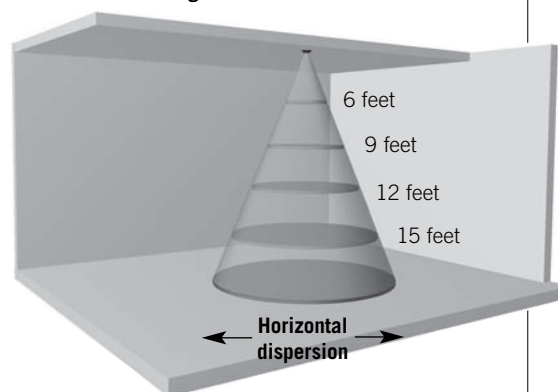
Amp Power	Distance from ceiling to ear level				
	3'	6'	9'	12'	15'
25 watts	99dB	94dB	92dB	92dB	89dB
50 watts	102dB	97dB	95dB	94dB	92dB
100 watts	104dB	100dB	98dB	97dB	95dB

Coverage

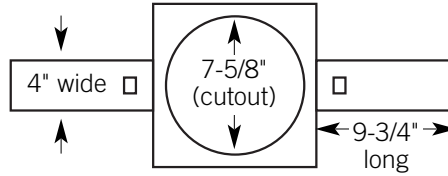
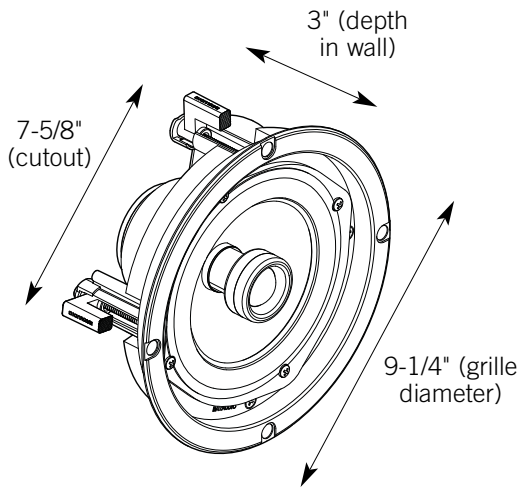
How wide is the diameter of the coverage pattern, assuming -3dB from reference, as distance increases.

Horiz. Measurement	Distance from ceiling to ear level				
	3'	6'	9'	12'	15'
Coverage (70°)	4'	8'	12'	16'	20'

Distance from ceiling



Dimensions and Bracket Information



BR65 Rough-in Bracket

Metal rough-in brackets are designed to "claim the space" during drywalling.

Performance

Placement

Walls and ceilings. Model Pc8 is weather-resistant, and can be placed in humid environments.

Maximum Output

104dB each, with 100 watts of amplification.

Room Size

Up to 3,000 ft³

Close-Miked Near-Field Response (-3dB)

50-20,000 Hz

6dB Downpoint

40 Hz

Nominal Coverage Angle (-6dB from Reference Axis)

75° Radial

Sensitivity [1 watt (2.83v) at 1m]

87dB

Nominal Impedance

8 ohms. 70V with optional piggyback transformer.

Tweeter

1" chambered pure heavy silk

Bass Unit

170mm long-throw bass unit with spun aluminum cone, 32mm voice coil, butyl surround.

Connections

Gold-plated push terminals accept pins, spades, or bare wire to 12 gauge.

Construction

Metalized plastic frame, neoprene damping sheet, TransientEdge® crossover topology, Slot/Lock® clamping system

Grilles

Magnetized thin bezel microperf grille

Weight

4 lbs each

Predictive Placement

SPL

How loud will one speaker play, in dB, with given amplifier power.

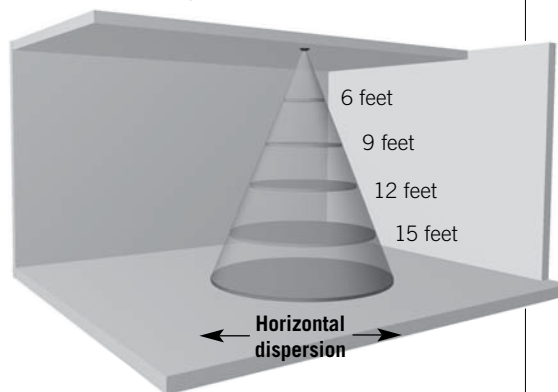
Amp Power	Distance from ceiling to ear level				
	3'	6'	9'	12'	15'
25 watts	99dB	94dB	92dB	91dB	89dB
50 watts	102dB	97dB	95dB	94dB	92dB
100 watts	104dB	100dB	98dB	97dB	95dB

Coverage

How wide is the diameter of the coverage pattern, assuming -3dB from reference, as distance increases.

Horiz. Measurement	Distance from ceiling to ear level				
	3'	6'	9'	12'	15'
Coverage (75°)	4.5'	9'	14'	19'	22'

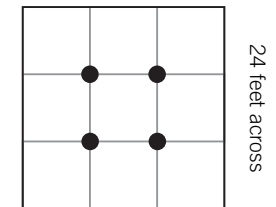
Distance from ceiling



Planning Distributed Music Systems

For full coverage in a typical room with 9' ceilings, place one speaker every 8' apart. Keep the speaker away from side walls by 8' to maximize coverage.

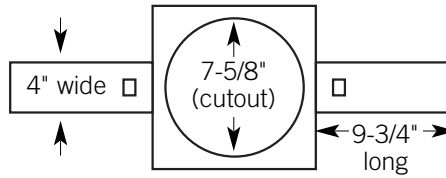
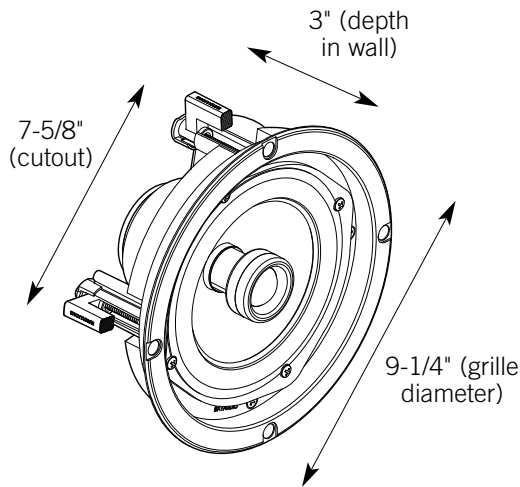
8' grid on ceiling



Determining Theater L/C/R Placement

This speaker features a Vocal Integrity® system design for use as front stage L/C/R speakers. For best performance, place the speakers within 2' of the TV wall.

Dimensions and Bracket Information



BR65 Rough-in Bracket

Metal rough-in brackets are designed to “claim the space” during drywalling.

Performance

Placement

Walls and ceilings. Model Pc9 is weather-resistant, and can be placed in humid environments.

Maximum Output

104dB each, with 100 watts of amplification

Room Size

Up to 3,000 ft³

Close-Miked Near-Field Response (-3dB)

48-20,000 Hz

6dB Downpoint

45 Hz

Nominal Coverage Angle (-6dB from Reference Axis)

80° Radial

Sensitivity [1 watt (2.83v) at 1m]

88dB

Nominal Impedance

8 ohms

Tweeter

1" chambered pure heavy silk

Bass Unit

170mm long-throw bass unit with spun aluminum cone, 32mm voice coil, butyl surround.

Connections

Gold-plated push terminals accept pins, spades, or bare wire to 12 gauge

Construction

Metalized plastic frame, 1" MDF baffle, TransientEdge® crossover topology, Slot/Lock® clamping system

Grilles

Magnetized thin bezel microperf grille

Weight

5 lbs each

Predictive Placement

SPL

How loud will one speaker play, in dB, with given amplifier power.

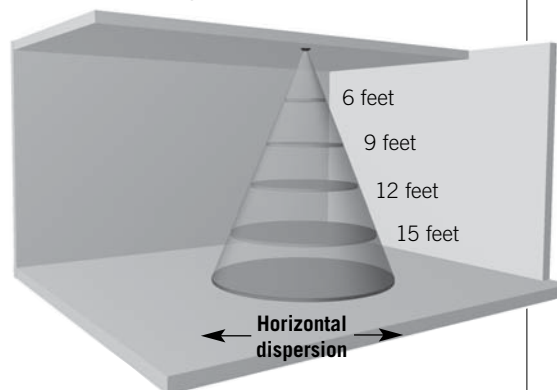
Amp Power	Distance from ceiling to ear level				
	3'	6'	9'	12'	15'
25 watts	99dB	94dB	92dB	91dB	89dB
50 watts	102dB	97dB	95dB	94dB	92dB
100 watts	104dB	100dB	98dB	97dB	95dB

Coverage

How wide is the diameter of the coverage pattern, assuming -3dB from reference, as distance increases.

Horiz. Measurement	Distance from ceiling to ear level				
	3'	6'	9'	12'	15'
Coverage (80°)	5'	10'	15'	20'	24'

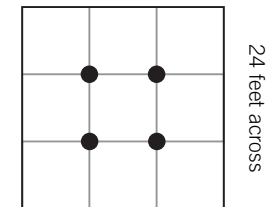
Distance from ceiling



Planning Distributed Music Systems

For full coverage in a typical room with 9' ceilings, place one speaker every 8' apart. Keep the speaker away from side walls by 8' to maximize coverage.

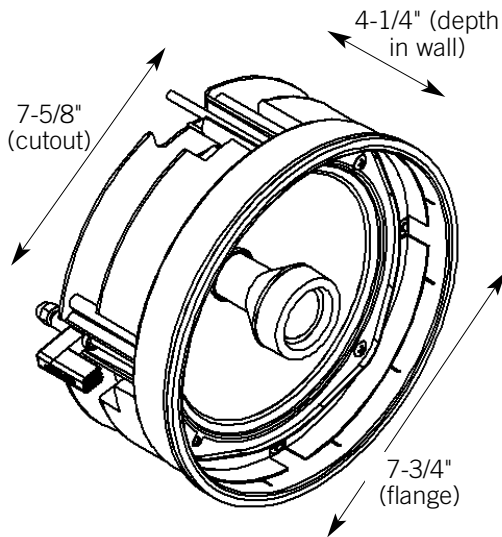
8' grid on ceiling



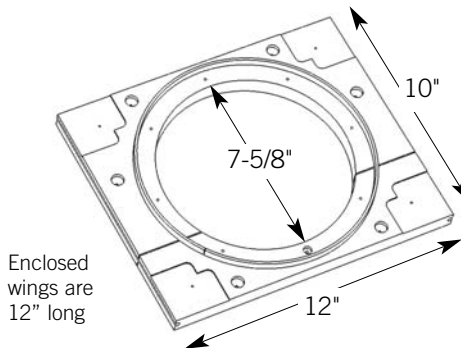
Determining Theater L/C/R Placement

This speaker features a Vocal Integrity® system design for use as front stage L/C/R speakers. For best performance, place the speakers within 2' of the TV wall.

Dimensions and Bracket Information



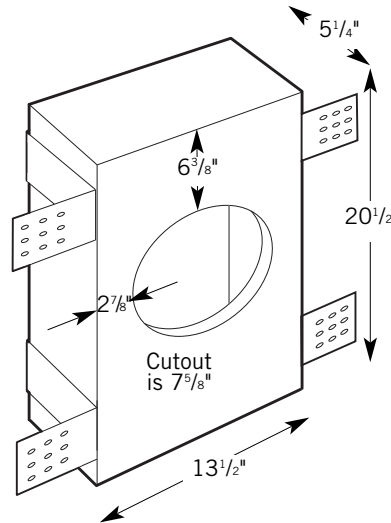
Bracket



PBR65 Mounting Bracket

Use for new construction and retrofit.
Mounting options: bracket can float between, or mount directly to studs.

Back Box



BOX65P Back Box

Back boxes are 1/2" MDF. Include damping material and 4 metal brackets. Boxes reduce bleed-through in adjoining rooms by 9dB. Custom sizes available.

Performance

Placement

Ceilings. The Phantom® P65 is weather-resistant, and can be placed in humid environments.

Maximum Output

106dB each, with 100 watts of amplification.

Room Size

Up to 4,500 ft³

Close-Miked Near-Field Response (-3dB)

50-20,000 Hz

6dB Downpoint

40 Hz

Nominal Coverage Angle (-6dB from Reference Axis)

70° Radial

Sensitivity [1 watt (2.83v) at 1m]

86dB

Nominal Impedance

8 ohms

Tweeter

1" pure silk

Bass Unit

6-1/2" long-throw bass unit with aluminum cone, butyl surround.

Connections

Gold-plated push terminals accept pins, spades, or bare wire to 12 gauge.

Construction

Constrained High Mass aluminum frame with 1" MDF baffle, Slot/Lock® clamping system attaches to flush mud ring

Grilles

White powder coated MicroPerf® metal grille.

Weight

5 lbs each

Predictive Placement

SPL

How loud will one speaker play, in dB, with given amplifier power.

Amp Power	Distance from ceiling to ear level				
	3'	6'	9'	12'	15'
25 watts	100dB	95dB	93dB	92dB	90dB
50 watts	103dB	98dB	96dB	95dB	93dB
100 watts	106dB	101dB	99dB	98dB	96dB

Coverage

How wide is the diameter of the coverage pattern, assuming -3dB from reference, as distance increases.

Horiz. Measurement	Distance from ceiling to ear level				
	3'	6'	9'	12'	15'
Coverage (70°)	4'	8'	12'	17'	21'