

CALRAD

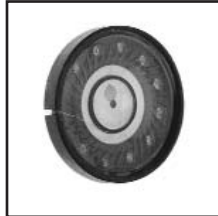
20 Series - Miniature Speakers

MINIATURE SPEAKERS WITH CLEAR PLASTIC CONES

With clear plastic cones for use as emitters, beepers, etc. (Imp.—8 ohms)

20-174

1.57" round,
7/16" deep,
60-10KHz frequency
response,
120 mw. Plastic
frame.



20-176

2" round,
1 1/16" deep,
200-4,000 Hz
frequency
response,
2 watts power.
Metal frame.



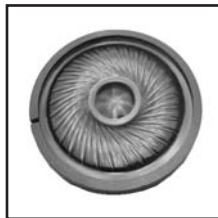
20-224A

1" round,
1/4" deep,
250-25KHz
frequency
response,
200 mw max
power. Plastic
frame.



20-175A

1 9/16" round, 3/16"
deep,
200-30KHz
frequency
response,
300 mw. power.
Plastic frame and
black plastic cone.



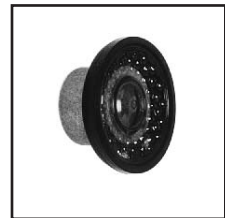
20-177

2 1/2" round, 1 5/16"
deep,
60-8KHz frequency
response,
2 watts max.
power. Metal
frame.



20-224

1" round,
9/16" deep,
600-10KHz
frequency
response,
.1 watts power
rated. Plastic
frame.



MINIATURE PRECISION MADE SPEAKERS

Designed for miniature equipment. Amazing tone quality in a small size speaker for transistor and all sub-miniature applications. Precision made, ideally suited for pocket radio, small amplifiers and most transistorized equipment.

Paper cones. (Imp.—8 ohms)

20-225

1 1/2" Square,
2" mount center,
5/16" deep,
400-5KHz frequency response,
.1 watt peak power.



20-225R

1 1/2" Round,
5/16" deep,
400-5KHz frequency response,
.1 watt peak power.



20-226

2" Round
3/4" deep,
150-5KHz frequency response,
.5 watt peak power.

20-228

2 1/2" Round
1 3/16" deep,
150-5KHz frequency response,
.3 watt peak power.

20-227

2 1/4" Round
3/4" deep,
150-5KHz frequency response,
.4 watt peak power.

20-229

2 3/4" Round
7/8" deep,
150-5KHz frequency response,
.5 watt peak power.

20-226, 20-227
20-228, 20-229

CALRAD

20 Series - Speakers

20-301 3" - 45 ohm 2 watt SPEAKER

Excellent quality, used for many types of radios and intercoms. Mylar waterproof cone. **New magnet size.**

Specifications

Impedance..... 45 Ω
Power..... 2 watts
Size 3" width, 1³/₁₆" depth
Cone..... Paper



20-218 8" BACKGROUND MUSIC SPEAKER (with white ceiling grille)

Ideal for ceilings and wall mounting. Complete with 12³/₄" dia. grille and 10 watt, 25 volt line transformer (10 oz. magnet). 70 volt available upon request.

20-218VC Same as 20-218, with volume control mounted in center of grille.



20-231 3" SQUARE FRAME PRECISION MADE SPEAKER

Superior quality with high efficiency performance. Will improve tone quality of most radios or intercoms.

Specifications

Impedance..... 8Ω
Power..... 2 watts
Frequency Response 100-10 KHz
Size.. 3" (W), 3¹/₂" (mount center) 1¹/₄" (D)
Cone..... Paper



20-298 BEAUTIFUL WHITE ENAMEL CEILING GRILL

8-inch speaker mounts to baffle by four nuts supplied. Mounts directly to ceiling or wall by wood screws, toggle bolts or mollies.

Size: 1⁷/₈" in diameter



20-232 3¹/₂" SQUARE FRAME PRECISION MADE SPEAKER

Superior quality with high efficiency. For general replacement use. Rugged frame construction, selected cone for fine reproduction.

Specifications

Impedance..... 8Ω
Power..... 2 watts
Frequency Response 100-10KHz
Size 3¹/₂" (W) X 4¹/₂" (mount center) 1³/₁₆" (D)



20-250 WHISPER PILLOW SPEAKER

Inaudible except to the user. Low impedance type employing bone conduction principle, amazing fidelity bypassing the ear. Transmits sound to inner ear by direct contact. Connects to the voice coil side of output transformer, 3.5 mm plug. 6 foot cord. White color.



20-233 4" UNIVERSAL REPLACEMENT SPEAKER

Heavy duty ceramic type magnet.

Specifications:

Impedance..... 8 Ω
Power..... 2 watts
Size...4" (W) 3¹/₂" (mount center) 1⁷/₁₆" (D)
Cone..... Paper



20-280 COMMUNICATION SPEAKER

Used with CB radio, ham and general purpose communications. Made of high impact plastic for durability. Comes with mounting bracket and 6 ft. cord with molded 3.5mm plug. Black.

Specifications

Impedance..... 8Ω
Power..... 5 watts max
Frequency Response 150-4KHz



CALRAD

20 Series - Speakers & Paging Horns

20-211 8" PUBLIC ADDRESS & PAGING HORN

Designed for all around use, either indoors or outdoors. Fully weatherproof. Locking metal swivel is provided for ease in mounting and adjustment. Outside edge has rubber sound dampening ring.

Specifications:

Power 25 watts Bell Size 8 inches round
 Frequency Response 300 Hz – 7 KHz Color Grey
 Impedance 8Ω



20-215 OUTDOOR PAGING SPEAKER

Used in talk back systems, this weatherproof, trumpet design paging speaker gives extremely high sound level with low input power. Hams will find this speaker very useful in their mobile installations. Mounts under the hood or on the dash. Because of its sensitivity and high degree of intelligibility, it's ideal for paging systems in restaurants, office buildings, etc. Complete with adjustable mounting bracket.

Specifications:

Impedance 8Ω Size 2⁵/₈" x 3³/₄" x 2³/₈"
 Power 3 watts Color White



20-244 ECONOMY 5" PAGING SPEAKER & ALARM HORN

Rugged construction but lightweight. New design to compete in the low cost field. Completely weatherproof, white plastic, 180 degree swivel bracket. Excellent for CB, security or general paging systems.

Specifications:

Impedance 8Ω Horn Opening 5"
 Power 15 watts Overall Length 5³/₈"
 Frequency Response 400 Hz–12 KHz Color White



20-310 OUTDOOR REFLEX HORN

Rugged high impact molded plastic, high power speaker expressly designed for high power alarm drivers. 30 watt power rating. Response 350-8000 Hz. Dimensions: 4³/₄" x 8" x 9¹/₄" deep. Color is white.

20-312 SIREN HORN

Same unit as 20-310 (above) except has built-in siren amplifier. Operates on 30 watts, 6–12 Vdc, our most powerful siren horn, has 3 wire hookup for yelp or steady sound. Horn Dimensions: 4³/₄" x 8" x 9¹/₄" deep. Current Draw: 1.2 amps. 120 dB at 6 ft. Color is White.



20-310, 20-312, & 20-313

20-313 OUTDOOR HORN

Built in switching 25 + 70 volt line transformer.

Specifications:

Input Power 20 watt normal, 30 watt peak Switching 70 volt line–2W, 4W, 8W, 16W
 Frequency Response 420 Hz–15 KHz Watts 25 volt line–1W, 2W, 4W, 7.5W
 Color White

20-311 HIGH POWER PAGING ALARM HORN

Metal swivel brackets provide numerous mounting angles both vertical and horizontal for ease in mounting. Plastic Horn—11" x 6¹/₂" x 8¹/₂" deep.

Specifications:

Impedance 8Ω Power 40 watts, max.
 Color Ivory



20 Series - In-Wall and Rock Speakers

20-330, 20-335 & 20-337

2-WAY FLUSH-MOUNT, IN-WALL SPEAKERS

Manufactured specifically for the demand of the HiFi sound enthusiast, our 3 Flush-Mount Speaker Systems are designed for easy installation in walls or ceilings where conventional box speakers are undesirable. Now you can enjoy incredible sound in any room of your home or office, without need of additional floor or shelf space. Finished in white, they can be painted to blend into any decor.

Sold in pairs, packaged in separate boxes.

Specifications for 20-330:

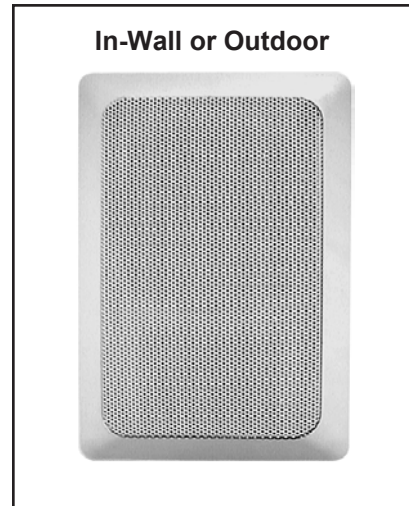
Woofer.....	5 1/4" Polypropylene Cone	Wattage.....	35 + 35 watts, peak
Tweeter.....	9/16" Mylar Dome	Impedance.....	indicated on speaker
Crossover Frequency.....	3 KHz	Over-all Dimensions.....	7 1/2" x 11"
Frequency Response.....	50 Hz-20 KHz	Cut-out Dimensions.....	6 1/4" x 9 3/4"

Specifications for 20-335:

Woofer.....	6" Polypropylene Cone	Wattage.....	50 + 50 watts, peak
Tweeter.....	1" Soft Dome	Impedance.....	indicated on speaker
Crossover Frequency.....	2.5 KHz	Over-all Dimensions.....	8 5/8" x 12"
Frequency Response.....	40 Hz-20 KHz	Cut-out Dimensions.....	7 1/2" x 11"

Specifications for 20-337:

Woofer.....	8" Polypropylene Cone	Wattage.....	60 + 60 watts, peak
Tweeter.....	1" Soft Dome	Impedance.....	8Ω
Crossover Frequency.....	2.5 KHz	Over-all Dimensions.....	14 1/8" x 10 3/64"
Frequency Response.....	30 Hz-20 KHz	Cut-out Dimensions.....	12 3/4" x 8 9/16"



New Item

COAXIAL ROCK SPEAKERS

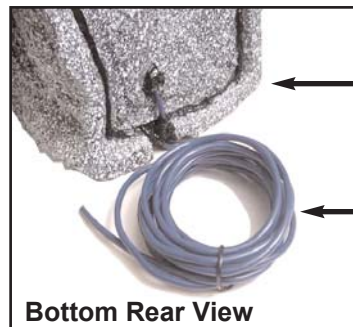
20-338-G Granite Version

20-338-S Sandstone Version

Enjoy quality sound in outdoor environments without detracting from the landscaping while enhancing the esthetic look of your yard, patio, or other outdoor location. Incredibly realistic rock texture and look make these speakers, perfect for hiding obvious speaker cabinets. Weather-Resistant housing combined with mylar speaker cones ensure many years of enjoyable use.

Specifications:

Driver:.....	6.5"
Frequency :.....	20Hz-20KHz
Sensitivity:.....	90 +/- 2dB
Impedance:.....	4Ω
Rated Power:.....	150 Watts
Magnet Weight:.....	8 oz
Connection:.....	12 ft. blunt cut cable
Cable Size:.....	16 AWG
Dimensions:.....	13"(W) X 8"(D) X 9.5"(H)



← **WATER TIGHT SPEAKER HOUSING**

← **12 FT. BLUNT CUT SPEAKER WIRE**

For up to date Calrad product information, please visit us on the Web at: www.calrad.com

CALRAD

20 Series - Computer & In/Outdoor Speakers

SEE PAGES 39 & 40 FOR
SPEAKER CONNECTORS

20-340/20-341 MULTIMEDIA FLAT SLIM SPEAKER SYSTEM

Compact and slim style for TFT, LCD monitor & notebook, home PC'S. Units snap together for easy transportation anywhere. Magnetically shielded design. 20-340 analog input 5+5 watts output, powered by DC adapter., 20-341 analog\USB input, 1+1 watts output, USB powered. Frequency response 250Hz-20KHz. AC adapter 9V, 600mA included.

Dimensions: 3¹/₃₂"(W) x 7³/₄"(H) x 1⁹/₁₆"(D).



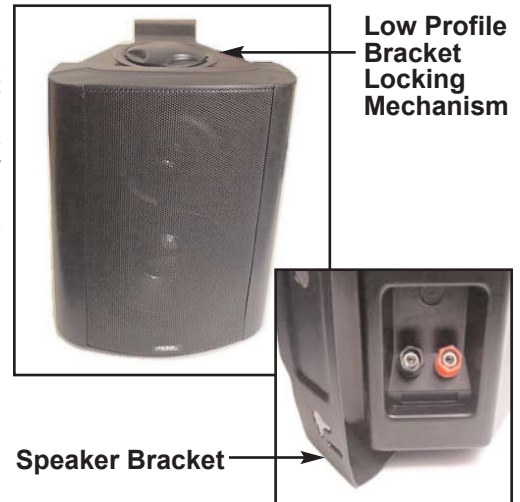
New Item

20-325 INDOOR/OUTDOOR 2 Way Speaker System

Calrad's weather-proof bass reflex 2 Way stereo speaker system is perfect for outdoor use. Whether on your patio or in your backyard, these small but powerful speakers use a 4/5" woofer with a 1" fluid cooled, silk tweeter for full range audio reproduction. Great for background music or turn it up for music fun! The 20-325 offers 80 watt RMS per channel or 100 watts maximum per channel. They offer a frequency response of 55-22KHz at 4 ohms. The cabinets are constructed of UV protected black plastic with red and black banana style jacks that accept up to 14 gauge speaker wire. 90 degree, swivel Mounting brackets and hardware are included. Sold in pairs only.

Specifications:

Speakers:	Power:..... 80 Watts RMS per Channel
Woofer:..... 4.5" Mylar	100 Watts Maximum
Tweeter: 1" fluid cooled, Silk	Cabinet Housing:..... Black Plastic
Frequency Range:..... 55-22KHz	Packaged:..... Pairs
Impedance:..... 4Ω	Mounting Brackets:..... Included
Weight:..3.65 Lbs (1 Speaker w/ Bracket)	Dimensions:.. 8.75"(H) X 4.25"(W) X 9.25"(D)



New Item

20-326 Indoor/Outdoor 3 Way Speaker System

Calrad's high-power bass reflex 3-way stereo speaker system is perfect for patio type, surround sound audio applications. The small but powerful speaker uses a 4" woofer, 2" midrange and a 1" piezo tweeter for full range of audio reproduction. They feature a power range of 60 watt RMS (80 watt maximum) per channel and offer a frequency response of 40-22KHz at 4 ohms. Encased in unshielded, black plastic housings with rear spring loaded (red/black) wire terminals that accept up to 14 gauge speaker wire. Swivel style mounting brackets and hardware are included. Sold in Pairs only.

Specifications:

Speakers:	Power:..... 60 Watts RMS per Channel
Woofer:..... 4" Mylar	80 Watts Maximum
Mid-Range: 2" Paper	Mounting Brackets:..... Included
Tweeter: 1" Piezo	Cabinet Housing:..... Black Plastic
Frequency Range:..... 40-22KHz	Packaged:..... Pairs
Impedance:..... 4Ω	Dimensions:.....8"(H) X 5.25"(W) X 5"(D)
Weight:..2.35 Lbs (1 Speaker w/ Bracket)	



20 Series - Computer Surround Sound & Powered Subwoofer Speakers

New Item

20-360

Black Colored Wood Cabinet

20-361

Black Wood Grain Colored Cabinet

120 WATT POWERED SUB-WOOFER

This highly attractive sub-woofer provides superior quality materials with distinctive styling to provide unparalleled bass for your home theater sound system. It comes with a 12" butyle rubber support diaphragm with bass reflex enclosure for extended low frequency response. Stereo line inputs, low pass frequency adjustment (40-120Hz, 24dB/Oct.) bass EQ adjustment (50Hz, +/- 12dB). Phase control (0-180 degrees), volume control. Auto power when audio is present with LED indicator. Line and speaker level inputs, high level pass-thru terminals, ported in rear of cabinet.

Cabinet Size: 16"(W) x 15.3"(D) x 17.2"(H)

Cabinet color:

20-360 has black sides and natural cherry top

20-361 is black on all sides

20-360



REAR VIEW



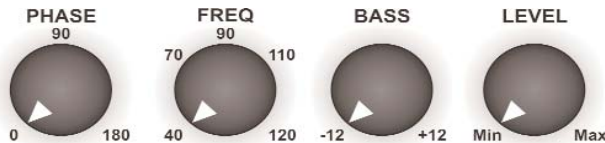
20-361



REAR VIEW



Rear Controls



20-425

SURROUND SOUND SYSTEM FOR PERSONAL COMPUTERS

5.1 Surround Sound Speakers

5.1 Dolby Digital Ready Home Theater System. New "Triple Design" Satellite speakers which can be aimed in three different directions for better surround sound. True 5.1 Channel Surround Sound & full-range Simulated Surround Sound when connected to any audio source. Independent level controls. Shielded cabinets will not affect T.V.s, computer monitors etc.

Specifications:

Power Handling:

Subwoofer: 60 Watts RMS
Satellite: 15 Watts RMS x 5
Total: 135 Watts RMS

Frequency Response:

Subwoofer: 40Hz-160 Hz
Satellites: 100Hz-20 KHz

Drivers:

Subwoofer: 6.5" Super Bass Woofer
Satellites: 3" Midrange x 2 + 2" Tweeter per Satellite

Weight & Dimensions:

Subwoofer: 9"(h) x 8"(w) x 12.5"(d)
Satellite: 3.5" (h) x 3.5"(w) x 3"(d)
Total Weight: 30 Lbs (complete package)

Main Control Panel Functions:

On/Off switch, Audio source selector, Master, Center, Front, Rear, Sub, Level Controls

Audio inputs:

One 5.1 Analog RCA for DVD or 5.1 Channel Sound Card, 2 Sets of Stereo RCA Audio Inputs for TV, VCR, Satellite Systems or Game Consoles (Included). For high grade 5.1 interface cables use Calrad 55-509-6 6 ft. or 55-509-12 12 ft.
Power Source: 110Vac, 60Hz

New Item



CALRAD

20 Series - Speakers & Speaker Brackets

20-321-BK Black

20-321-W White

INDOOR/OUTDOOR 2-WAY MINI SPEAKER SYSTEM

3", 2-way mini speaker system with weather resistant cones. Impedance: 4 ohms. Music power: 40 watts. Frequency response: 120Hz-20KHz. Dimensions: 6-1/2"(L) x 4"(W) x 4-1/4"(D). Weight 3.6 lbs. each speaker. Mounting holes on rear of cabinet. Specify black or white.

20-322-BK Black

20-322-W White

INDOOR/OUTDOOR 2-WAY MINI SPEAKER SYSTEM

5.25", 2-way mini speaker system with weather resistant cones. Impedance: 4 ohms. Music power: 100 watts. Frequency response: 60Hz-20KHz. Dimensions: 9"(L) x 6"(W) x 6-1/2"(D). Weight 3.9 lbs. each speaker. Mounting holes on rear of cabinet. Specify black or white.

20-323-BK Black

20-323-W White

INDOOR/OUTDOOR 2-WAY MINI SPEAKER SYSTEM

5.25", 2-way mini speaker system with weather resistant cones. Impedance: 4 ohms. Music power: 100 watts. Frequency response: 60Hz-20KHz. Dimensions: 9-1/4"(L) x 7-1/4"(W) x 5-3/4"(D). Weight 3.9 lbs. each speaker. Mounting holes on side of cabinet. Specify black or white.



SPEAKER BRACKETS

These speaker brackets are designed for use with our 20-321, 20-322 and 20-323 speakers.

20-261-BK Black

20-261-W White

SPEAKER BRACKETS 2 PIECES PER BOX

Completely adjustable ABS plastic brackets are weather resistant and come complete with hardware. Maximum load is 10 lbs.. Overall Height of 3". Rotation angle of 360° and a pivot angle of 40°. Specify black or white when ordering. (packaged in pairs)



20-263-BK Black

20-263-W White

SPEAKER BRACKETS 2 PIECES PER BOX

Completely adjustable ABS plastic brackets are weather resistant and come complete with hardware. Maximum load is 10 lbs.. For use with Calrad 20-321-BK, -W speakers. Specify black or white when ordering. (packaged in pairs)



20-262-BK Black

20-262-W White

SPEAKER BRACKETS 2 PIECES PER BOX

Completely adjustable ABS plastic brackets are weather resistant and come complete with hardware AND SAFETY CABLE. Maximum load is 16 lbs.. Overall Height of 6.75". Rotation angle of 360° and a pivot angle of 40-90°. Specify black or white when ordering. (packaged in pairs)



20-264-BK Black

20-264-W White

SPEAKER BRACKETS 2 PIECES PER BOX

Low profile speaker brackets for use with any speaker or Calrad 20-323-BK, 20-323-W speakers. Maximum load is 16 lbs. Includes all mounting hardware. (packaged in pairs)

