

Innovox Selection Guide

Flex Video Loudspeakers





Flex Video Loudspeakers

Selection Guide

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FLEX Video Family

Flex Synergy

A Modular Platform
for
Presentation & Telepresence

FlexArray

Hybrid Line Arrays
for
Video Walls & LED Displays

Flex Synergy Compact

for displays 46"–70"

FlexArray Compact

for smaller video walls

Flex Precision

Ribbon Based
High Resolution
Loudspeakers

Flex Focus

for
Large Displays

Flex Select

Basic Loudspeakers
for
Flat Panel Displays

Flex Powered Subwoofers



FLEX VIDEO Family

Flat Panel Display Loudspeakers

- FLEX VIDEO is a comprehensive family of loudspeakers designed to be attached to flat panel video displays. Members of the family include:

Flex Synergy, Flex Synergy Compact, Flex Precision, Flex Select, Flex Array, Flex Array compact, Flex Focus, and Flex Powered Subwoofers

- FLEX VIDEO loudspeakers are available in two mounting configurations: vertical pairs for mounting on sides of flat panel video displays, and horizontal loudspeakers for mounting above or below a display.
- **Flex Precision** horizontal loudspeakers are available in single-channel, two-channel and three-channel versions (H1, H2 & H3).
- Each FLEX VIDEO Loudspeaker is sized to match the height or width of your specific flat-panel video display. All mounting hardware needed for attachment to the video display is included with the order.

Flex Synergy

Flex Synergy builds on the knowledge gained in the development for our HLA large venue & SLA compact line array products. This unique modular platform provides the tools needed to deliver high speech intelligibility and accurate program audio with maximum impact from the smallest possible equipment package.


Sophisticated DSP and power amplification by Powersoft is configured to optimize the performance of ribbons and proprietary Innovox drivers. This makes it possible for very compact loudspeaker modules to deliver exceptional vocal articulation and low frequency extension without the mid-bass coloration normally associated with on-wall mounting.

– Module Frame sized to match your video displays

– supports a wide range of loudspeaker & A/V modules

Available modules include:

- *precision ribbon drivers*
- *micro sub-woofers*
- *sliding camera pocket*
- *directional microphone*
- *power & DSP*

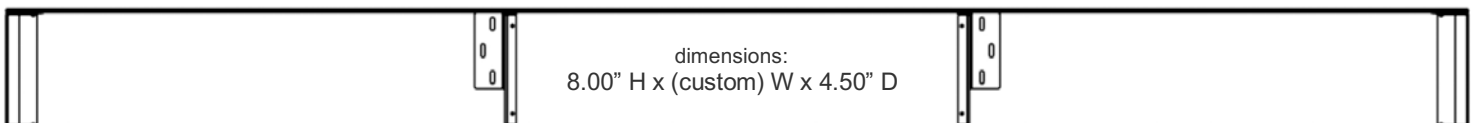


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Horizontal Module Frame

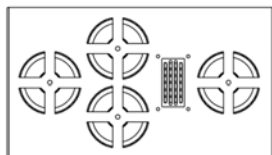
The horizontal module frames are custom built to match the exact width of your specified video display(s). They can be populated with a variety of modules to meet the specific requirements of your project.

The HMF-1WM & HMF-2WM are supplied with a **wall**-mounting kit. The HMF-1DM is supplied with a **display**-mounting kit.



<u>order number</u>	<u>maximum display size</u>	<u>approximate weight</u>
HMF-1WM	(for single display up to 103" diagonal)	15.0 lbs
HMF-1DM	(for single display up to 103" diagonal)	15.0 lbs
HMF-2WM	(for dual displays up to 2 x 90" diagonal)	30.0 lbs
HMF-WM Plus	(for multiple displays <165" combined width)	40.0 lbs

XRM-1
Extended Range Module

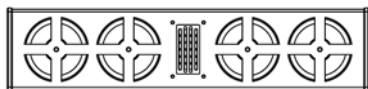


The XRM-1 is a full-range loudspeaker designed to function as a stand-alone module. Its precision ribbon HF driver and four 3 1/2" long-excursion LF drivers have been optimized to provide the articulation and transient response necessary for the highest speech intelligibility.

Descriptive Data — coverage pattern: 90° V x 120° H
frequency response: 100 Hz – 20 kHz, ± 3 dB
max SPL: 106 dB long term, 112 dB peak
dimensions: 13.25" W x 7.48" H x 2.76" D

<u>order number</u>	<u>weight</u>
XRM-1	7.0 lbs

XRM-1AD
Extended Range Module
(with Adjustable Down-Angle)

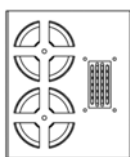


The XRM-1AD is a variation of the XRM-1 that features field adjustment for vertical aiming. It is a full-range loudspeaker designed to function as a stand-alone module. Its precision ribbon HF driver and four 3 1/2" long-excursion LF drivers have been optimized to provide the articulation and transient response necessary for the highest speech intelligibility.

Descriptive Data — coverage pattern: 90° V x 120° H
frequency response: 100 Hz – 20 kHz, ± 3 dB
max SPL: 106 dB long term, 112 dB peak
dimensions: 17.50" W x 4.00" H x 3.26" D

<u>order number</u>	<u>weight</u>
XRM-1AD	7.0 lbs

URM-1
Upper Range Module

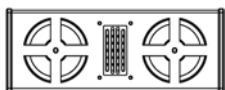


The URM-1 is a voice-range loudspeaker with a precision ribbon HF driver and two long-excursion LF drivers. It is designed to function in conjunction with a Micro Sub module for higher output, lower bass extension and reduced inter-modulation (IM) distortion.

Descriptive Data — coverage pattern: 90° V x 120° H
frequency response: 200 Hz – 20 kHz, ± 3 dB
max SPL: 108 dB long term, 114 dB peak
dimensions: 6.38" W x 7.50" H x 2.63" D

<u>order number</u>	<u>weight</u>
URM-1	5.0 lbs

URM-1AD
Upper Range Module
(with Adjustable Down-Angle)

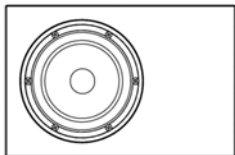


The URM-1AD is a variation of the URM-1 that features field adjustment for vertical aiming. It is a voice-range loudspeaker with a precision ribbon HF driver and two long-excursion LF drivers. It is designed to function in conjunction with a Micro Sub module for higher output, lower bass extension and reduced inter-modulation (IM) distortion.

Descriptive Data — coverage pattern: 90° V x 120° H
frequency response: 200 Hz – 20 kHz, ± 3 dB
max SPL: 108 dB long term, 114 dB peak
dimensions: 10.50" W x 4.00" H x 3.26" D

<u>order number</u>	<u>weight</u>
URM-1AD	5.0 lbs

MSM-5 Micro Sub module

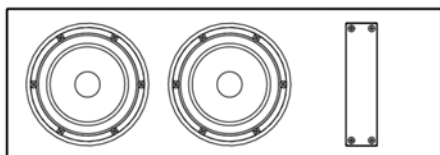


The MSM-5 is a very compact, precision sub-woofer with a 5 ½ inch long-excursion driver. Working in conjunction with proprietary DSP processing, it achieves maximum bass output from a minimum enclosure size. It is designed to complement the Synergy URM-1 loudspeaker module.

Descriptive Data — coverage pattern: omnidirectional
frequency response: 48 Hz – 200 Hz
max SPL: 102 dB long term, 108 dB peak
dimensions: 11.00" W x 7.50" H x 4.50" D

<u>order number</u>	<u>weight</u>
MSM-5	7.0 lbs

MSM 2x5 Dual Micro Sub module

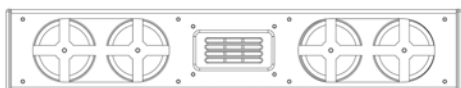


The MSM-2x5 is a very compact, precision sub-woofer with two 5 ½ inch long-excursion drivers. Working in conjunction with proprietary DSP processing, it achieves maximum bass output from a minimum enclosure size. It is designed to complement the Synergy URM-1 loudspeaker module.

Descriptive Data — coverage pattern: omnidirectional
frequency response: 48 Hz – 200 Hz
max SPL: 108 dB long term, 114 dB peak
dimensions: 21.50" W x 7.50" H x 4.50" D

<u>order number</u>	<u>weight</u>
MSM 2x5	13.0 lbs

HSA-4.50 Horizontal Array module

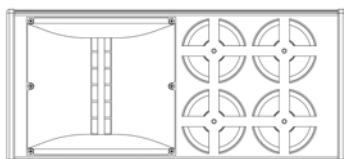


The HSA-4.50 is a horizontal line array. It is optimized for voice-range with a precision ribbon HF driver and four 3.5" long-excursion LF drivers. The HSA-4.50 is designed to function in conjunction with a Micro-Sub module for higher output, lower bass extension and reduced inter-modulation (IM) distortion.

Descriptive Data — coverage pattern: 120° V x 50° H
frequency response: 140 Hz – 20kHz, ± 3 dB
max SPL: 112 dB long term, 118 dB peak
dimensions: 20.00" W x 4.00" H x 3.26" D

<u>order number</u>	<u>weight</u>
HSA-4.50	7.0 lbs

HOM-1 High Output Module



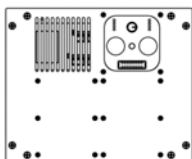
The HOM-1 is a high output voice-range module with a ribbon driver on a wave guide and four 3.5" high-efficiency LF drivers. The HOM-1 is designed to function in conjunction with a Micro-Sub module for higher output, lower bass extension and reduced inter-modulation (IM) distortion.

Descriptive Data — coverage pattern: 35° V x 90° H
frequency response: 140 Hz – 20 kHz, ± 3 dB
max SPL: 116 dB long term, 122 dB peak
dimensions: 16.25" W x 7.50" H x 3.28" D

<u>order number</u>	<u>weight</u>
HOM-1	8.6 lbs

DSP Amp 2

2 channel DSP amp module



Powersoft

The DSP Amp 2 employs Powersoft DSP and amplification, in a 1-in/2-out or 2-in/2-out configuration which Innovox custom programs based on a customer's specific project requirements. Typical uses include two-way and stereo applications.

Descriptive Data — frequency response: 10 Hz – 20 kHz
power: 2 x 350W @ 4 Ω
2 x 175W @ 8 Ω
dimensions: 9.00 " W x 7.50 " H x 2.63 " D

order number

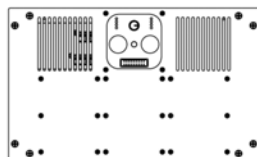
DSP Amp 2

weight

5.0 lbs

DSP Amp 4

4 channel DSP amp module



Powersoft

The DSP Amp 4 employs Powersoft DSP and amplification, in a 2-in/4-out configuration which Innovox custom programs based on a customer's specific project requirements. Typical uses include two-way stereo and 2.1 applications.

Descriptive Data — frequency response: 10 Hz – 20 kHz
power: 2 x 350W @ 4 Ω, plus 2 x 175W @ 8 Ω
dimensions: 12.75 " W x 7.50 " H x 2.63 " D

order number

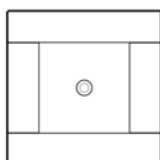
DSP Amp 4

weight

7.0 lbs

DMM-1

Directional Mic Module



Earthworks
HIGH DEFINITION MICROPHONES™

The DMM-1 Directional Microphone Module houses a premium Earthworks® cardioid condenser microphone within an acoustic enclosure designed to be co-located with a robotic camera. It can be used stand-alone or in conjunction with ceiling or table mounted microphones in video conference and telepresence applications. Note: This module requires IEC Standard 48V @ 10mA phantom power (supplied by others) to perform correctly.

Descriptive Data — dimensions: 7.50 " W x 7.50 " H x 4.50 " D

order number

DMM-1

weight

3.0 lbs

Universal Sliding Camera Pocket

SCPM

Sliding Camera Pocket Module



The SCPM is a Sliding Camera Pocket designed to accommodate a wide range of robotic cameras. The pocket can be adjusted within a Synergy frame to position the pocket as closely as possible to the adjacent wall, minimizing protrusion of the camera into the room.

Descriptive Data — dimensions: 12.00 " W x 7.50 " H x 7.00 " D

order number

SCPM

weight

6.0 lbs

Custom Fixed Camera Pocket Options for Speaker Tracking & Oversized Cameras

These options include all of the necessary modifications of frame and module dimensions to accommodate the following cameras: Vaddio ClearVIEW & RoboSHOT, Polycom EagleEye Director, and Cisco SpeakerTrack 60. Additional custom camera pocket options are available upon request.

order number

CPM-V

(for Vaddio ClearVIEW & RoboSHOT)

6.0 lbs

CPM-P

(for Polycom EagleEye Director –
for dual display only)


6.0 lbs

CPM-C

(for Cisco SpeakerTrack 60)

6.0 lbs

Support also available for other camera systems

<ul style="list-style-type: none"> – <i>Vertical Frame matched to height of video displays</i> – <i>supports a wide range of loudspeaker & A/V modules</i> 		Available modules include: <ul style="list-style-type: none"> – <i>precision ribbon drivers</i> – <i>micro sub-woofers</i> – <i>sliding camera pocket</i> – <i>directional microphone</i> – <i>DSP & power</i>
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(shown without grille — camera not included)

Vertical Frame

VMF-1

Vertical Module Frame



The VMF-1 vertical wall-mount module frame is custom built to match the exact height of your specified video display. It can be populated with a variety of modules to meet the specific requirements of your project.

Descriptive Data — Dimensions: 12.50 " W x (custom) H x 4.50 " D

order number

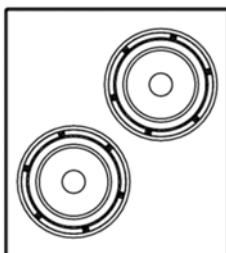
VMF-1

weight

10.0 - 18.0 lbs

VMS 2x5

Vertical Dual Micro Sub



The VMS-2x5 is a very compact, precision sub-woofer with two 5 ½ inch long-excursion drivers. Working in conjunction with proprietary DSP processing, it achieves maximum bass output from a minimum enclosure size. It is designed to complement the Synergy URM-1 loudspeaker module in vertical frame applications.

Descriptive Data — coverage pattern: omnidirectional
 frequency response: 48 Hz – 200 Hz
 max SPL: 108 dB long term, 114 dB peak
 dimensions: 12.00 " W x 13.43 " H x 4.50 " D

order number

VMS 2x5

weight

13.0 lbs

Synergy Compact Synergy Compact-D

A Direct-Mount Conferencing Platform for Monitors 46" to 70"



Flex Synergy Compact (camera not included)

The Flex Synergy Compact Solution

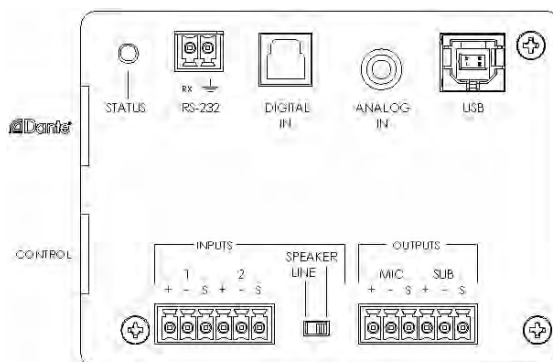
The **Flex Synergy Compact** is an ultra slim conferencing platform which is custom sized to match the exact width of video displays from 46" to 70". It is available in a standard version with 2 x 100-Watt Class D power, DSP, and a compact camera pocket. Its frequency response (120-20,000 Hz ± 3 dB) has been optimized for speech intelligibility. An enhanced version, **Synergy Compact-D**, adds Dante connectivity and Ethernet control.

Adding an Innovox **Flex Companion Series** powered sub-woofer will extend low frequency performance below 50 Hz to deliver high impact full range music program.

Inputs include: balanced line level, unbalanced stereo, optical digital, speaker level, and USB. Outputs include: USB output from internal microphone, and a processed sub-bass signal for use with a **Flex Companion 2x5** powered subwoofer. Control provisions include: IR, RS-232, USB and Ethernet.

Dimensions: 4.10" H x [custom] W x 2.10" D.

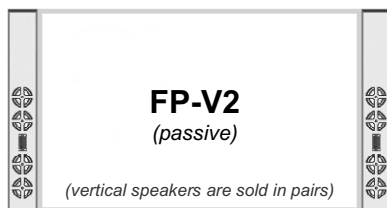
Rear I/O Panel



Flex Precision

The **Flex Precision** Series of Flat Panel Display Loudspeakers has been developed to complement superior flat panel video displays with high resolution audio. Premium low frequency drivers are employed in combination with precision ribbon HF drivers and sophisticated sequential filter networks to render an audio signal of exceptional clarity and detail.

Flex Companion Series powered subwoofers can be added to the PX & PXD models for reduced distortion, higher output and bass extension below 50 Hz.



The **Flex Precision** Model **FP-V2** is an ultra slim vertical loudspeaker pair designed to mate with flat panel video displays. Nominal coverage angle is 120° H x 90° V. Configuration per channel includes four 3.5" long-excursion LF drivers and one precision ribbon HF driver. Frequency response of 100 Hz – 20kHz, ± 3 dB. A stereo 75-watt amplifier can produce 107 dB (per channel) @ 1 meter.

order number

weight

FP-V2 [display make/model] blk
(minimum / maximum height: 18.00" – 96.00")

13-30 lbs



The **Flex Precision** Model **FP-V2P** adds two 100-Watt channels of Class D amplification with balanced analog inputs.

order number

weight

FP-V2P [display make/model] blk
(minimum / maximum height: 27.50" – 96.00")

13-30 lbs



The **Flex Precision** Model **FP-V2PX** provides two 100-Watt channels of Class D amplification, plus DSP. Inputs include: balanced line level, unbalanced stereo, optical digital, speaker level and USB. A processed sub-bass signal is provided for use with **Flex Companion** powered subwoofers. Control options include: IR, RS-232 & USB.

order number

weight

FP-V2PX [display make/model] blk
(minimum / maximum height: 27.50" – 96.00")

13-30 lbs



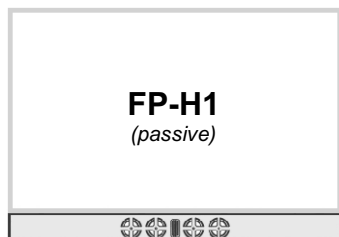
The **Flex Precision** Model **FP-V2PXD** provides all of the above, plus Dante and Ethernet control.

order number

weight

FP-V2PXD [display make/model] blk
(minimum / maximum height: 27.50" – 96.00")

13-30 lbs



The Flex Precision Model FP-H1 is an ultra slim single-channel horizontal loudspeaker designed to mate with flat panel video displays. Nominal coverage angle is 90° H x 120° V. Configuration includes four 3.5" long-excursion LF drivers and a precision ribbon HF driver. Frequency response 100 Hz –20kHz, ± 3 dB. A 75-watt amplifier channel can produce 107 dB @ 1 meter on axis.

order number

weight

FP-H1 [display make/model] blk
(minimum / maximum width: 18.00" – 96.00")

12-26 lbs



The Flex Precision Model FP-H1P adds a 100-Watt channel of Class D amplification with balanced analog inputs.

order number

weight

FP-H1P [display make/model] blk
(minimum / maximum width: 27.50" – 96.00")

13-30 lbs



The Flex Precision Model FP-H1PX provides a 100-Watt channel of Class D amplification, plus DSP. Inputs include: balanced line level, unbalanced stereo, optical digital, speaker level, and USB. A processed sub-bass signal is provided for use with Flex Companion powered subwoofers. Control options include: IR, RS-232 & USB.

order number

weight

FP-H1PX [display make/model] blk
(minimum / maximum width: 32.43" – 96.00")

13-30 lbs



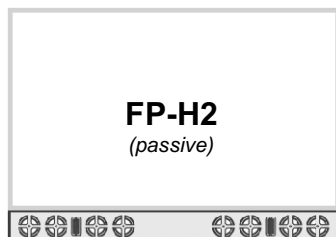
The Flex Precision Model FP-H1PXD provides all of the above, plus Dante and Ethernet control.

order number

weight

FP-H1PXD [display make/model] blk
(minimum / maximum width: 32.43" – 96.00")

13-30 lbs



The **Flex Precision Model FP-H2** is an ultra slim two-channel horizontal loudspeaker designed to mate with flat panel video displays. Nominal coverage angle is 90° H x 120° V. Configuration per channel includes four 3.5" long-excursion LF drivers and one precision ribbon HF driver. Frequency response of 100 Hz – 20kHz , ± 3 dB. A stereo 75-watt amplifier can produce 107 dB (per channel) @ 1 meter.

order number

weight

FP-H2 [display make/model] blk
(minimum / maximum width: 37.00" – 96.00")

15-33 lbs



The **Flex Precision Model FP-H2P** adds two 100-Watt channels of Class D amplification with balanced analog inputs.

order number

weight

FP-H2P [display make/model] blk
(minimum / maximum width: 46.00" – 96.00")

15-33 lbs



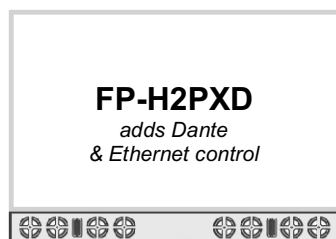
The **Flex Precision Model FP-H2PX** provides two 100-Watt channels of Class D amplification, plus DSP. Inputs include: balanced line level, unbalanced stereo, optical digital, speaker level, and USB. A processed sub-bass signal is provided for use with **Flex Companion** powered subwoofers. Control options include: IR, RS-232 & USB.

order number

weight

FP-H2PX [display make/model] blk
(minimum / maximum width: 51.43" – 96.00")

15-33 lbs



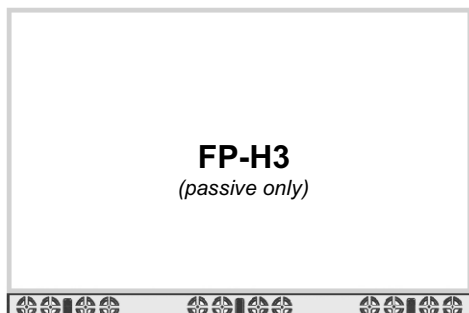
The **Flex Precision Model FP-H2PXD** provides all of the above, plus Dante and Ethernet control.

order number

weight

FP-H2PXD [display make/model] blk
(minimum / maximum width: 51.43" – 96.00")

15-33 lbs



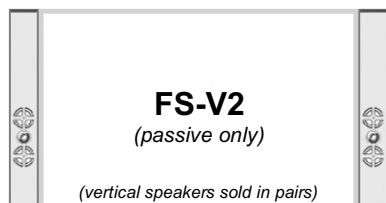
The **Flex Precision Model FP-H3** is an ultra slim three-channel horizontal loudspeaker designed to mate with flat panel video displays. Nominal coverage angle is 90° H x 120° V. Configuration per channel includes four 3.5" long-excursion LF drivers and one precision ribbon HF driver. Frequency response of 100 Hz – 20kHz , ± 3 dB. Three 75-watt amplifier channels can produce 107 dB (per channel) @ 1 meter.

order number
FP-H3 [display make/model] blk
(minimum / maximum width: 50.00" – 96.00")

weight
20-38 lbs

Flex Select

The **Flex Select** Series of Flat Panel Display Loudspeakers has been developed to replace the internal speakers in displays and improve audio quality in near-field listening environments. Carefully selected drivers are employed with sophisticated filter networks to optimize performance and increase maximum SPL.

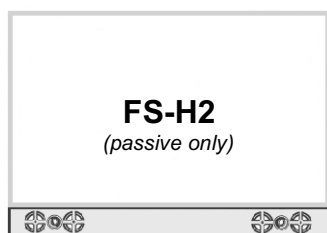


The **Flex Select Model FS-V2** is an ultra slim vertical speaker pair designed to mate with flat panel video displays. Nominal coverage angle is 120° H x 100° V. Configuration per channel includes two 3.5" long-excursion LF drivers and one .75" textile dome HF driver. Frequency response of 100 Hz – 20kHz , ± 3 dB. A stereo 60-watt amplifier can produce 105 dB (per channel) @ 1 meter.

order number
FS-V2 [display make/model] blk
(minimum / maximum height: 15.88" – 32.00")

weight
15-26 lbs

FS 65 Plus – Upcharge for displays over 65" (diagonal)



The **Flex Select Model FS-H2** is an ultra slim two-channel horizontal loudspeaker designed to mate with flat panel video displays. Nominal coverage angle is 100° H x 120° V. Configuration per channel includes two 3.5" long-excursion LF drivers and one .75" textile dome HF driver. Frequency response of 100 Hz – 20kHz , ± 3 dB. A stereo 60-watt amplifier can produce 105 dB (per channel) @ 1 meter.

order number
FS-H2 [display make/model] blk
(minimum / maximum width: 30.75" – 57.00")

weight
15-26 lbs

FS 65 Plus – Upcharge for displays over 65" (diagonal)

Flex Focus – V Series *(vertical pairs)*

Line Array Solutions for Larger Rooms

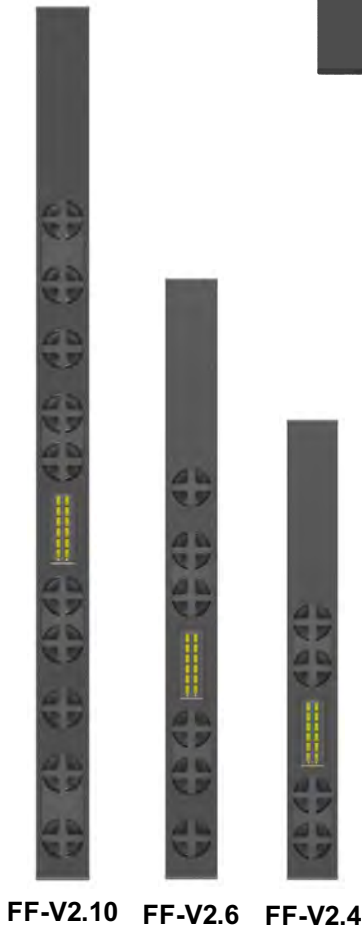
Can be used with an optional
Companion Series subwoofer
for 2.1 applications

DESCRIPTION

The **Flex Focus FF-V2** employs the frequency shaded line array technology developed for our SLA family of loudspeakers. It is used to keep the apparent source of both sound and video linked, while achieving uniform coverage to the back of longer rooms, supporting large displays & video walls.

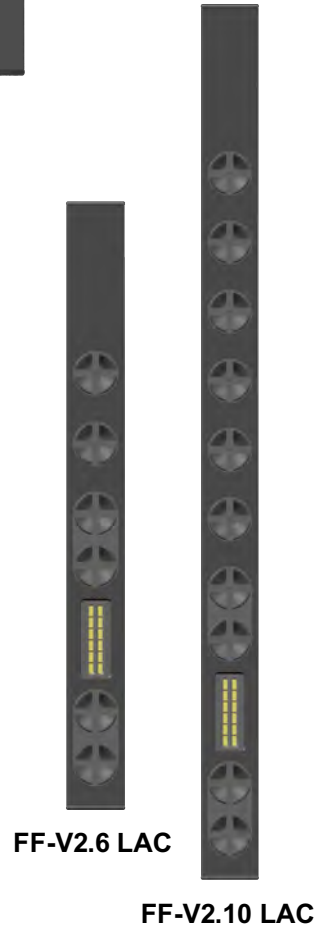
A sophisticated filter circuit sequentially integrates drivers in the arrays to maintain line source pattern control to 900 Hz for the FF-V2.4, 650 Hz for the FF-V2.6, and 375 Hz for the FF-V2.10, and ensures a smooth transition from line-source to point-source behavior at lower frequencies. The result is very flat response and uniform pattern control, yielding superior speech clarity and musical detail. (Coverage pattern for the Flex Focus V-Series is 25° vertical by 120° horizontal.)

The **Flex Focus FF-V2 LAC** is designed to provide a lower acoustic center which is required when displays are mounted high on a wall.



FF-V2.10 FF-V2.6 FF-V2.4

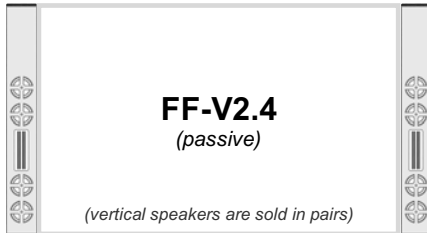
(sold in pairs)



FF-V2.6 LAC

FF-V2.10 LAC

Lowered Acoustic Center



The **Flex Focus Model FF-V2.4** is an ultra slim two-channel vertical loudspeaker pair designed to mate with flat panel video displays. Nominal coverage angle is 25° V x 120° H. Configuration includes four 3.5" long-excursion LF drivers and a precision ribbon HF driver. Frequency response 100 Hz –20kHz, ± 3 dB. A 75-watt amplifier channel can produce 107 dB @ 1 meter on axis.

order number
FF-V2.4 [display make/model] blk
(minimum / maximum height: 27.50" – 50.00")

weight
16-33 lbs



The **Flex Focus Model FF-V2.4P** adds two 100-Watt channels of Class D amplification with balanced analog inputs.

order number
FF-V2.4P [display make/model] blk
(minimum / maximum height: 36.00" – 50.00")

weight
16-33 lbs



The **Flex Focus Model FF-V2.4PX** provides two 100-Watt channels of Class D amplification, plus DSP. Inputs include: balanced line level, unbalanced stereo, optical digital, speaker level, and USB. A processed sub-bass signal is provided for use with **Flex Companion** powered subwoofers. Control options include: IR, RS-232 & USB.

order number
FF-V2.4PX [display make/model] blk
(minimum / maximum height: 36.00" – 50.00")

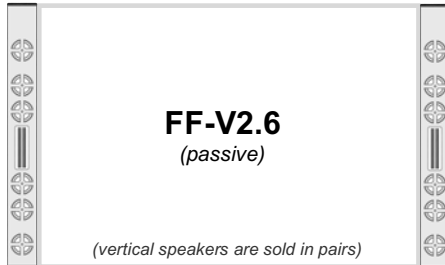
weight
16-33 lbs



The **Flex Focus Model FF-V2.4PXD** provides all of the above, plus Dante and Ethernet control.

order number
FF-V2.4PXD [display make/model] blk
(minimum / maximum height: 36.00" – 50.00")

weight
16-33 lbs



The **Flex Focus Model FF-V2.6** is an ultra slim two-channel vertical loudspeaker pair designed to mate with flat panel video displays. Nominal coverage angle is 25° V x 120° H. Configuration includes six 3.5" long-excursion LF drivers and a precision ribbon HF driver. Frequency response 100 Hz –20kHz, ± 3 dB. A 75-watt amplifier channel can produce 107 dB @ 1 meter on axis.

order number

FF-V2.6 [display make/model] blk
(minimum / maximum height: 36.88" – 65.00")

weight

18-35 lbs



The **Flex Focus Model FF-V2.6P** adds two 100-Watt channels of Class D amplification with balanced analog inputs.

order number

FF-V2.6P [display make/model] blk
(minimum / maximum height: 45.38" – 65.00")

weight

18-35 lbs



The **Flex Focus Model FF-V2.6PX** provides two 100-Watt channels of Class D amplification, plus DSP. Inputs include: balanced line level, unbalanced stereo, optical digital, speaker level, and USB. A processed sub-bass signal is provided for use with **Flex Companion** powered subwoofers. Control options include: IR, RS-232 & USB.

order number

FF-V2.6PX [display make/model] blk
(minimum / maximum height: 45.38" – 65.00")

weight

18-35 lbs



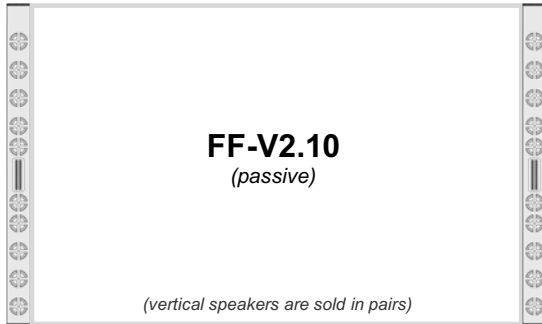
The **Flex Focus Model FF-V2.6PXD** provides all of the above, plus Dante and Ethernet control.

order number

FF-V2.6PXD [display make/model] blk
(minimum / maximum height: 45.38" – 65.00")

weight

18-35 lbs



The **Flex Focus** Model **FF-V2.10** is an ultra slim two-channel vertical loudspeaker pair designed to mate with flat panel video displays. Nominal coverage angle is 25° V x 120° H. Configuration includes ten 3.5" long-excursion LF drivers and a precision ribbon HF driver. Frequency response 100 Hz –20kHz, ± 3 dB. A 75-watt amplifier channel can produce 107 dB @ 1 meter on axis.

order number

FF-V2.10 [display make/model] blk
(minimum / maximum height: 56.37" – 96.00")

weight

22-39 lbs



The **Flex Focus** Model **FF-V2.10P** adds two 100-Watt channels of Class D amplification with balanced analog inputs.

order number

FF-V2.10P [display make/model] blk
(minimum / maximum height: 64.87" – 96.00")

weight

22-39 lbs



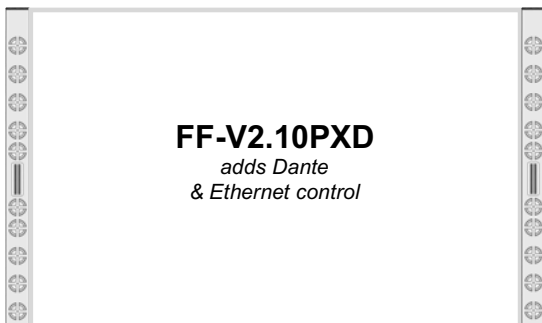
The **Flex Focus** Model **FF-V2.10PX** provides two 100-Watt channels of Class D amplification, plus DSP. Inputs include: balanced line level, unbalanced stereo, optical digital, speaker level, and USB. A processed sub-bass signal is provided for use with **Flex Companion** powered subwoofers. Control options include: IR, RS-232 & USB.

order number

FF-V2.10PX [display make/model] blk
(minimum / maximum height: 64.87" – 96.00")

weight

22-39 lbs



The **Flex Focus** Model **FF-V2.10PXD** provides all of the above, plus Dante and Ethernet control.

order number

FF-V2.10PXD [display make/model] blk
(minimum / maximum height: 64.87" – 96.00")

weight

22-39 lbs



The **Flex Focus Model FF-V2.6 LAC** is designed to provide a lower acoustic center which is required when displays are mounted high on a wall. It is an ultra slim two-channel vertical loudspeaker pair designed to mate with flat panel video displays. Nominal coverage angle is 25° V x 120° H. Configuration includes four 3.5" long-excursion LF drivers and a precision ribbon HF driver. Frequency response 100 Hz – 20kHz, ± 3dB. A 75-watt amplifier channel can produce 107 dB @ 1 meter on axis.

order number

FF-V2.6 LAC [display make/model] blk
(minimum / maximum height: 36.88" – 65.00")

weight

18-35 lbs



The **Flex Focus Model FF-V2.6 LAC P** adds two 100-Watt channels of Class D amplification with balanced analog inputs.

order number

FF-V2.6 LAC P [display make/model] blk
(minimum / maximum height: 45.38" – 65.00")

weight

18-35 lbs



The **Flex Focus Model FF-V2.6 LAC PX** provides two 100-Watt channels of Class D amplification, plus DSP. Inputs include: balanced line level, unbalanced stereo, optical digital, speaker level, and USB. A processed sub-bass signal is provided for use with **Flex Companion** powered subwoofers. Control options include: IR, RS-232 & USB.

order number

FF-V2.6 LAC PX [display make/model] blk
(minimum / maximum height: 45.38" – 65.00")

weight

18-35 lbs



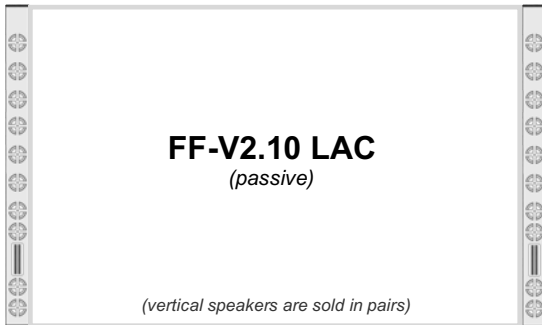
The **Flex Focus Model FF-V2.6 LAC PXD** provides all of the above, plus Dante and Ethernet control.

order number

FF-V2.6 LAC PXD [display make/model] blk
(minimum / maximum height: 45.38" – 65.00")

weight

18-35 lbs



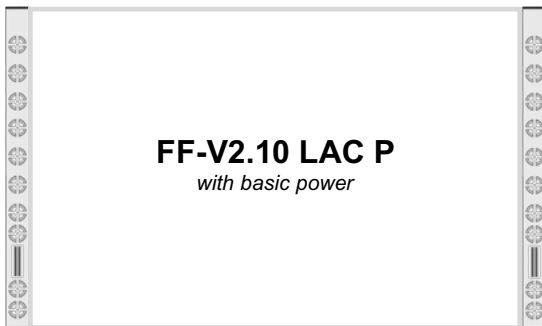
The Flex Focus Model FF-V2.10 LAC is designed to provide a lower acoustic center which is required when displays are mounted high on a wall. It is an ultra slim two-channel vertical loudspeaker pair designed to mate with flat panel video displays. Nominal coverage angle is 25° V x 120° H. Configuration includes ten 3.5" long-excursion LF drivers and a precision ribbon HF driver. Frequency response 100 Hz –20kHz, ± 3 dB. A 75-watt amplifier channel can produce 107 dB @ 1 meter on axis.

order number

weight

FF-V2.10 LAC [display make/model] blk
(minimum / maximum height: 64.87" – 96.00")

22-39 lbs



The Flex Focus Model FF-V2.10 LAC P adds two 100-Watt channels of Class D amplification with balanced analog inputs.

order number

weight

FF-V2.10 LAC P [display make/model] blk
(minimum / maximum height: 64.87" – 96.00")

22-39 lbs



The Flex Focus Model FF-V2.10 LAC PX provides two 100-Watt channels of Class D amplification, plus DSP. Inputs include: balanced line level, unbalanced stereo, optical digital, speaker level, and USB. A processed sub-bass signal is provided for use with Flex Companion powered subwoofers. Control options include: IR, RS-232 & USB.

order number

weight

FF-V2.10 LAC PX [display make/model] blk
(minimum / maximum height: 64.87" – 96.00")

22-39 lbs



The Flex Focus Model FF-V2.10 LAC PXD provides all of the above, plus Dante and Ethernet control.

order number

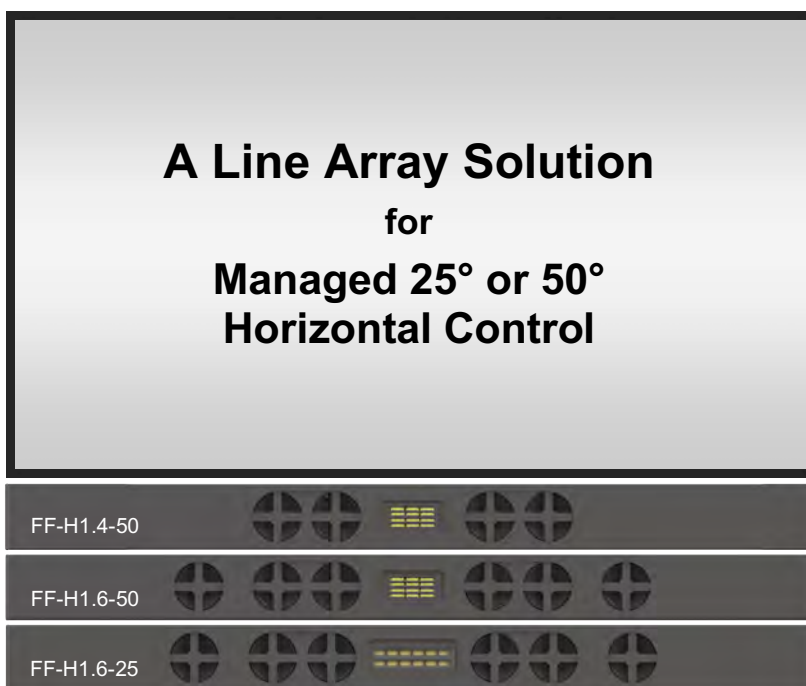
weight

FF-V2.10 LAC PXD [display make/model] blk
(minimum / maximum height: 64.87" – 96.00")

22-39 lbs

Flex Focus

H Series (horizontal)



(examples shown without grilles)

DESCRIPTION

Like the **Flex Focus** verticals, the **FF-H1** horizontal line arrays employ the frequency shaded line array technology developed for our SLA family of loudspeakers. They are used to keep the apparent source of both sound and video linked, while achieving uniform coverage to the back of longer rooms.

In acoustically challenging rooms with hard “mirror-like” walls, the managed horizontal control of the FF-H1 is very beneficial.

A sophisticated filter circuit sequentially integrates drivers in the arrays to maintain line source pattern control to 900 Hz for the FF-H1.4-50, 650 Hz for the FF-H1.6-25 and 1.6-50. This ensures a smooth transition from line-source to point-source behavior at lower frequencies. The result is very flat response and uniform pattern control, yielding superior speech clarity and musical detail.



FF-H1.4-50
(passive)

The **Flex Focus** Model **FF-H1.4-50** is an ultra slim single-channel horizontal loudspeaker designed to mate with flat panel video displays. Nominal coverage angle is 50° H x 120° V. Configuration includes four 3.5" long-excursion LF drivers and a precision ribbon HF driver. Frequency response 100 Hz –20kHz, ± 3 dB. A 75-watt amplifier channel can produce 107 dB @ 1 meter on axis.

order number

FF-H1.4-50 [display make/model] blk
(minimum / maximum width: 28.00" – 57.00")

weight

16-28 lbs



FF-H1.4-50 P
with basic power

The **Flex Focus** Model **FF-H1.4-50 P** adds a 100-Watt channel of Class D amplification with balanced analog inputs.

order number

FF-H1.4-50 P [display make/model] blk
(minimum / maximum width: 36.50" – 57.00")

weight

16-28 lbs



FF-H1.4-50 PX
with power & DSP

The **Flex Focus** Model **FF-H1.4-50 PX** provides a 100-Watt channel of Class D amplification, plus DSP. Inputs include: balanced line level, unbalanced stereo, optical digital, speaker level, and USB. A processed sub-bass signal is provided for use with **Flex Companion** powered subwoofers. Control options include: IR, RS-232 & USB.

order number

FF-H1.4-50 PX [display make/model] blk
(minimum / maximum width: 45.00" – 57.00")

weight

16-28 lbs



FF-H1.4-50 PXD
adds Dante
& Ethernet control

The **Flex Focus** Model **FF-H1.4-50 PXD** provides all of the above, plus Dante and Ethernet control.

order number

FF-H1.4-50 PXD [display make/model] blk
(minimum / maximum width: 45.00" – 57.00")

weight

16-28 lbs

FF-H1.6-50
(passive)

The **Flex Focus Model FF-H1.6-50** is an ultra slim single-channel horizontal loudspeaker designed to mate with flat panel video displays. Nominal coverage angle is 50° H x 120° V. Configuration includes six 3.5" long-excursion LF drivers and a precision ribbon HF driver. Frequency response 100 Hz –20kHz, ± 3 dB. A 75-watt amplifier channel can produce 107 dB @ 1 meter on axis.

order number
weight

FF-H1.6-50 [display make/model] blk
 (minimum / maximum width: 37.00" – 96.00")

18-30 lbs

FF-H1.6-50 P
with basic power

The **Flex Focus Model FF-H1.6-50 P** adds a 100-Watt channel of Class D amplification with balanced analog inputs.

order number
weight

FF-H1.6-50 P [display make/model] blk
 (minimum / maximum width: 45.50" – 96.00")

18-30 lbs

FF-H1.6-50 PX
with power & DSP

The **Flex Focus Model FF-H1.6-50 PX** provides a 100-Watt channel of Class D amplification, plus DSP. Inputs include: balanced line level, unbalanced stereo, optical digital, speaker level, and USB. A processed sub-bass signal is provided for use with **Flex Companion** powered subwoofers. Control options include: IR, RS-232 & USB.

order number
weight

FF-H1.6-50 PX [display make/model] blk
 (minimum / maximum width: 54.00" – 96.00")

18-30 lbs

FF-H1.6-50 PXD
*adds Dante
& Ethernet control*

The **Flex Focus Model FF-H1.6-50 PXD** provides all of the above, plus Dante and Ethernet control.

order number
weight

FF-H1.6-50 PXD [display make/model] blk
 (minimum / maximum width: 54.00" – 96.00")

18-30 lbs

FF-H1.6-25
(passive)

The **Flex Focus Model FF-H1.6-25** is an ultra slim single-channel horizontal loudspeaker designed to mate with flat panel video displays. Nominal coverage angle is 25° H x 120° V. Configuration includes six 3.5" long-excursion LF drivers and a precision ribbon HF driver. Frequency response 100 Hz –20kHz, ± 3 dB. A 75-watt amplifier channel can produce 107 dB @ 1 meter on axis.

order number

FF-H1.6-25 [display make/model] blk
 (minimum / maximum width: 37.00" – 96.00")

weight

18-30 lbs

FF-H1.6-25 P
with basic power

The **Flex Focus Model FF-H1.6-25 P** adds a 100-Watt channel of Class D amplification with balanced analog inputs.

order number

FF-H1.6-25 P [display make/model] blk
 (minimum / maximum width: 45.50" – 96.00")

weight

18-30 lbs

FF-H1.6-25 PX
with power & DSP

The **Flex Focus Model FF-H1.6-25 PX** provides a 100-Watt channel of Class D amplification, plus DSP. Inputs include: balanced line level, unbalanced stereo, optical digital, speaker level, and USB. A processed sub-bass signal is provided for use with **Flex Companion** powered subwoofers. Control options include: IR, RS-232 & USB.

order number

FF-H1.6-25 PX [display make/model] blk
 (minimum / maximum width: 54.00" – 96.00")

weight

18-30 lbs

FF-H1.6-25 PXD
*adds Dante
& Ethernet control*

The **Flex Focus Model FF-H1.6-25 PXD** provides all of the above, plus Dante and Ethernet control.

order number

FF-V2.6PXD [display make/model] blk
 (minimum / maximum width: 54.00" – 96.00")

weight

18-30 lbs

FlexArray

Hybrid Line Arrays

Custom Configured to match the exact height of *Video Walls & LED Displays*

DESCRIPTION

The **FlexArray** employs a combination of the frequency shaded line array technology from our SLA family of loudspeakers, a compact dipole low frequency steering module, and a sophisticated powered DSP with “smart amplifier” technology by Powersoft. Each **Flex Array** system is factory configured for your project based on construction documents or contractor supplied field measurements. This will insure optimum performance in your specific room.

This unique powered hybrid achieves the precise vertical control and uniform back-of-room coverage which is essential for high speech intelligibility in longer reverberant spaces. Driver configuration may vary from depiction at right, based on the display height. FlexArray can also be used in combination with Innovox sub bass speakers for extended low frequency response.

Descriptive Data — frequency response: 50 Hz – 20 kHz, ± 3 dB
 coverage pattern: 25° V x 120° H
 managed power: 1000 Watts
 maximum long-term output: 121 dB @ 1 meter
 dimensions – height: (custom)
 width: 5.75" (226mm)
 depth: 5.50" (216mm)



(sold in pairs)

minimum display height

76" or larger

order number

FlexArray

minimum weight

110.0 lbs / pr

FlexArray Compact



(sold in pairs)

DESCRIPTION

The **FlexArray compact** has been developed for large video monitors and smaller video walls. It employs a combination of the frequency shaded line array technology from our SLA family of loudspeakers, a compact dipole low frequency steering module, and a sophisticated powered DSP by Powersoft. This unique powered hybrid achieves the precise vertical control and uniform back-of-room coverage that is essential for high speech intelligibility in reverberant spaces.

The **FlexArray compact** features the latest “smart amplifier” technology from Powersoft. Their two-channel DSP amplifier module handles speaker processing and dynamically apportions 700 watts of power to amplifier channels based on program demands. This active amplifier management yields an electrical efficiency of better than 90%.

The thin profile of **FlexArray compact** loudspeakers makes it very easy to link the apparent audio source with the image of the display. Precise articulate sound is projected from loudspeakers which recede into the shadow of the video display.

Descriptive Data — frequency response: 50 Hz – 20 kHz, ± 3 dB
Coverage pattern: 25° V x 120° H
managed power: 700 Watts
dimensions - height: (custom)
width: 5.75" (226mm)
depth: 5.50" (216mm)

minimum display height
44" or larger

order number
FlexArray compact

minimum weight
60.0 lbs / pr

Flex Companion Series

Powered Subwoofers

Flex Companion Series very compact sub-woofers have been developed to extend the low frequency response of Flex self-powered loudspeakers. These sub-woofers have a (-3dB) low frequency power response which extends below 50 Hz. This provides a solid foundation for high impact full-range music program.

Flex Companion sub-woofers are powered by an internal 200W Class D power amplifier. They use proprietary sub-woofer signal processing which is provided by the DSP in its associated Flex loudspeaker.



Flex Companion 2x5

for
Flex Synergy Compact

The **Flex Compact 2x5** subwoofer is designed for use with Synergy Compact and Synergy Compact-D powered collaboration loudspeaker systems. It employs two 5" long-excursion drivers. Dimensions: 18.00" H x 10.50" W x 4.25" D. Maximum long term output 106 dB @ 1 m. Peak output 112 dB @ 1m.

order number

Flex Companion 2x5

weight

18.0 lbs



Flex Companion 2x6

for
Flex Precision & Flex Focus

The **Flex Compact 2x6** subwoofer is designed for use with Flex Precision and Flex Focus PX & PXD models. It employs two 6" long-excursion drivers. Dimensions: 20.00" H x 10.50" W x 5.50" D. Maximum long term output 108 dB @ 1 m. Peak output 114 dB @ 1m.

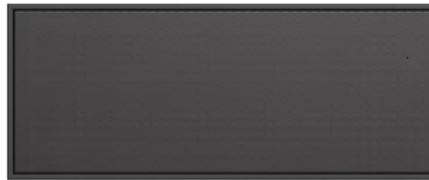
order number

Flex Companion 2x6

weight

24.0 lbs

Flex Array Micro-Sub



Micro-Sub 408P

The Micro-Sub 408P is a very compact sub bass designed as a companion for FlexArray systems. When used in conjunction with FlexArray it provides low frequency extension, reduces IM distortion in the mid-bass and boosts maximum system SPL. A Powersoft onboard amplifier with DSP produces maximum bass output from a minimum enclosure size. It can be surface mounted or easily integrated into wall constructions. Dimensions: 14.25" H x 34.25" W x 6.50" D.

order number

Micro-Sub 408P blk
Micro-Sub 408P wht
Micro-Sub 408P cst

weight

43.0 lbs
43.0 lbs
43.0 lbs

FLEX Accessories

Dual Display Kit

*for Horizontal
Select & Precision*

The Flex-DDK Dual Display Kit provides the accessory components to bridge two displays.



order number

Flex-DDK

weight

12.0 lbs



 Additional Hardware for Dual Displays (DDK)
 Standard Display Mounting Hardware

Replacement Mounting Kit

*For Vertical
Focus, Precision & Select*

The Flex-VRMK Replacement Mounting Kit (display size-class required)

order number

Flex-VRMK

weight

12.0 lbs

Replacement Mounting Kit

*for Horizontal
Focus, Precision & Select*

The Flex-HRMK Replacement Mounting Kit (display size-class required)

order number

Flex-HRMK

weight

12.0 lbs

Flex Zero

Non-Functional Empty Speaker Shells For Visual Symmetry

The **Flex Zero** loudspeaker shells contain no active loudspeaker components, and are furnished for purposes of visual symmetry only. They are used in applications where a wide video wall requires the appearance of a very long horizontal element, or where a single vertical loudspeaker functions as “T-zero” in a speech system. Sizes are customer-specified on a case-by-case basis, and weights vary accordingly.

order number

Flex H-0 blk

Flex V-0 blk

