Student Technology Fee Grant Funding Request Form
Northwestern State University of Louisiana

2006.00 9
Proposal Number

Prepared by: Dan Seymo	our, Ph.D.; Roxane Dufrene	, Ph.D.; Barbara Hebert, Ph.D	. Department SPS

College or Unit: College of Education Campus: Natchitoches, LA

Information Systems review by ______ Date _____

1. Describe target audience. (0 points)

The target audiences for this grant request will be student participants using the Counseling Clinic at the NSU College of Education (COE). This Counseling Clinic will offer a laboratory environment for graduate students and counseling services for undergraduate students. A laboratory environment will allow graduate students to videotape counseling sessions; listen, observe, and critique peers; and review tapes with professors and peers. Undergraduate students from across campus, including residence hall assistants, leadership class members, teachers-in-training, students doing career exploration, and others will participate as clients of the Clinic.

2. Describe project/initiative for which you are requesting funds. (10 points)

National studies indicate that about 45% of college students binge drink and 50% experience symptoms of depression. Both of these serious mental health concerns can lead to suicide, the second leading cause of death among college students on campuses today. Additionally, our NSU students and their families will be strongly affected by the aftermath of hurricanes Katrina and Rita. For nearly 40 years, NSU has provided educational opportunities to train counselors and student affairs professionals in the COE Counseling Clinic. This unique laboratory environment is used to train counselors and student affairs professionals who will, under supervision, address the counseling needs of undergraduate students. NSU graduate and undergraduate students/clients deserve the opportunity to experience modern technology in a state-of-the-art laboratory environment in the Counseling Clinic located in the Teacher Education Center (TEC).

Through this proposal, we are requesting state-of-the-art technology for the COE Counseling Clinic to enable NSU graduate students to practice counseling skills and to provide counseling services to undergraduate students. The technology needed to retrofit the Counseling Clinic includes 5 color dome ceiling-mounted cameras and microphones for the observation/counseling rooms, headphones, 5 DVD recorders, and 5 17" LCD monitors along with associated cables, jacks, brackets, and hardware.

3. State measurable objectives that will be used to determine the impact/effectiveness of the project. (10 points)

Objective 1: To determine the effect that updated equipment and facilities will have on graduate student learning in the Counseling Clinic.

Objective 2: To identify the impact that updated equipment and facilities will have on undergraduate clients' counseling experiences in the Counseling Clinic.

Objective 3: To analyze the frequency of use of the Counseling Clinic by NSU graduate and undergraduate students.

4. Indicate how each project objective will be evaluated. (10 points)

Objective 1: The objective, "To determine the effect that updated equipment and facilities will have on graduate student learning in the Counseling Clinic," will be evaluated by:

- a. A focus group of graduate students using the following questions to measure the effect that updated equipment and facilities had on graduate student learning
 - i. How did the updated equipment and facilities affect your training as a counselor?
 - ii. How did the updated audio and video taping equipment facilitate your learning?
 - iii. How did the updated sound system facilitate your learning?
 - iv. How did the updated laboratory environment affect your training as a counselor?
- b. A report of the percentage of graduate students who earn a passing grade in their clinic experience.
- c. A report of the percentage of graduate students who successfully complete the advanced counseling courses.
- d. A report of the percentage of Student Personnel Services and School Counseling program graduates.

Objective 2: The objective, "To identify the impact that updated equipment and facilities will have on undergraduate counseling clients' experiences in the Counseling Clinic," will be evaluated by:

- a. A 10-item Likert scale questionnaire describing undergraduate clients' experiences in the updated Counseling Clinic.
- b. A report of the percentage of undergraduate clients who participate in follow-up counseling visits in the Counseling Clinic.
- c. A report of the percentage of undergraduate clients who will refer other students to the Counseling Clinic.

Objective 3: The objective, "To analyze the frequency of use of the Counseling Clinic by NSU students," will be evaluated by:

- a. A report of the quantitative data that indicates the frequency of use
 - i. Number of hours of clinic use by graduate students.
 - ii. Number of hours of clinic use by undergraduate students.
 - iii. Number of hours clinic is in operation.
- b. A focus group of graduate students, using the following questions
 - i. What is good about the clinic that affects usage?
 - ii. What can be changed to effect more usage?
 - iii. What influenced your usage of the clinic?
- c. A focus group of undergraduate students, using the following questions
 - i. What is good about the clinic that affects usage?
 - ii. What can be changed to effect more usage?
 - iii. What influenced your usage of the clinic?

5. Provide a justification for funding of the project. Estimate the number of students that will be served per academic year and in what ways. Please indicate also any unique needs of the target group. (10 points)

Justification

Northwestern State University was established to train teachers in the late 19th century. Following that tradition, facilities in the TEC began being used in the 1970s as a laboratory environment for the training of counselors in the Counseling Clinic. It has been used as a laboratory in which NSU students coalesce the skills and knowledge that they have gained in both didactic and experiential coursework, polishing their skills as counselors, and going on to serve as counselors and student affairs professionals. Unfortunately, the equipment and facilities in the Counseling Clinic have aged and declined. At the current time, in the observation/counseling rooms in the Counseling Clinic there are only two video cameras, three cassette recorders, two sets of baby monitors, and a sound system originally installed in the 1970s. The outdated equipment and facilities in the Counseling Clinic are in desperate need of modern technology to create a state-of-the-art laboratory environment for NSU students.

Estimations

In a minimum of 850 clock hours of access to the Counseling Clinic, approximately 500 graduate students will utilize the Counseling Clinic by observing, practicing, and listening to counseling sessions. Serving as clients will be approximately 28 teachers-in-training, 55 residence hall assistants, 40 leadership class members, 20 TRIO grant participants, 25 etiquette class members, and 15 students doing career exploration. Thus, approximately 550 students are served per year. However, by updating facilities and equipment we expect an expansion of services delivered in the Counseling Clinic by graduate students to undergraduate students/clients, thereby, increasing both hours of usage and the number of NSU students served. Additionally, clients in the Counseling Clinic will develop transferable skills that will enable them to affect hundreds of other students in work and classroom settings.

Unique Needs

Unique needs of the target groups include a laboratory environment for graduate students and counseling services for undergraduate students. A laboratory environment will allow graduate students to videotape counseling sessions, listen, observe, and critique peers, review tapes with professors and peers, while providing counseling services for undergraduate students' needs.

NSU graduate students training needs include:

- Observation of self in counseling sessions through videotaping.
- Listening, observing, and critiquing peers through monitoring and sound system.
- Discussion and feedback with professors through videotapes.
- Collaboration with peers and professors.
- Counseling licensure requirements.
- National certification requirements.
- Graduation requirements.
- Better job opportunities.

NSU Undergraduate students/clients' counseling needs include:

- Alcohol consumption
- Depression
- Suicide
- Eating disorders
- Drug use
- Anxiety
- Conflict resolution
- Self-awareness
- Consequences for behaviors
- Improved family relationships
- Improved personal relationships (i.e. partners, peers, instructors, etc.)
- Sexual behaviors and activity
- Financial concerns
- Job opportunities
- Peer pressures

6. How will funding of the project advance the University and College / unit technology plan? Which NSTEP objective/s will this funding benefit? (15 points)

This project advances the COE Technology Plan, 2005-2009 by addressing the objectives that promote the use of technology by students and faculty for the delivery of innovative instruction in classrooms and laboratories and the engagement of creative methodologies in research.

The funding of this project will specifically advance the following NSTEP objectives:

This project supports NSTEP Objective 1 by availing counseling clinic-related technology to allow for audio and videotaping of undergraduate and graduate students' counseling sessions.

This project supports NSTEP Objectives 2 and 3 by fostering classroom and laboratory technology and learning environment to allow graduate students to practice counseling skills and undergraduate students to benefit from counseling services.

This project supports NSTEP Objective 7 of utilizing advanced technological techniques that will promote students and faculty to engage in creative teaching and learning related to the counseling process.

This project supports NSTEP Objective 8 by providing state-of-the-art equipment affording opportunities for developing and using technology to research the counseling process.

7. List those individuals who will be responsible for the implementation of the project/initiative and indicate their demonstrated abilities to accomplish the objectives of the project. (0 points)

Roxane Dufrene, Ph.D., LMFT, LPC-S, NCC – COE TEC Counseling Clinic Coordinator Danny Seymour, Ph.D., LMFT, LPC-S – SPS Program Coordinator Barbara Hebert, Ph.D., LMFT, LPC-S, NCC – School Counseling Program Coordinator

All three professors of record are Louisiana Licensed Mental Health Counselors with a combined total of over 50 years of training in counseling and student affairs and professional experience.

8. Describe any personnel (technical or otherwise) required to support the project/initiative. (5 points)

The personnel to be engaged to support this project will include COE counseling faculty, COE administrators, other faculty in the COE, electricians in the University Physical Plant, and graduate assistants assigned to the Counseling Clinic in this department.

9. Provide a schedule for implementation and evaluation. (5 points)

Schedule for Implementation

The following steps will be engaged in the implementation of the project:

- 1. Upon acceptance and approval of the proposal, University purchasing procedures will be followed to order the approved list of equipment for the project (mid- to late November, 2005).
- 2. Delivery of the equipment is anticipated within 45 days after the University issues the purchase order to the vendor. When the equipment is delivered, the vendor will install the equipment working with the University electricians and COE counseling faculty.
- 3. The vendor will provide training in the use of the equipment to the COE counseling faculty.
- 4. The COE counseling faculty will provide the graduate students training in the use of the equipment.
- 5. The counseling program will be conducted utilizing the equipment.
- 6. Evaluation of the project objectives will be completed annually.

Evaluation

Using the 10 methodologies described in Section 4 above (Objectives 1 a-d, 2 a-c, and 3 a-c), the objectives of the project will be evaluated. The data will be analyzed and a report of findings will be developed. Conclusions drawn from the findings will be used for improving further use of the laboratory equipment.

10. Estimate the expected life of hardware and software. Explain any anticipated equipment/software upgrades during the next five years. (0 points)

The vendor describes the life expectancy of the hardware to be used in this project to be 5 years or greater. Standard manufacturer warranties, with a minimum of 1 year and others longer, are included for all equipment. All equipment is hardware and will require no software upgrades.

11. Explain in detail a plan and policy that will be in place to ensure property security/controls for any equipment received. Equipment will not be purchased until an acceptable policy is in place to ensure equipment security. (15 points)

All equipment will be located in the Counseling Clinic located in the TEC. It is planned that the facilities that house the equipment will be accessible only when COE counseling faculty is present. Because of the federal HIPAA requirements concerning safety and confidentiality of client files, the Counseling Clinic is designated as a secure environment. There is only one access door that is locked when the clinic is not in use. Only university administrators and College of Education faculty with approved access have keys to this area. The NSU Office of Environmental Health and Safety University Key Policy issued by the Vice President for University Affairs will be strictly adhered to in order to preserve the security of this equipment.

12. Attach a detailed budget, including: specs., description, cost, state contract number, and vendor for each item; cost of outside support personnel; and a description of how the proposal will support University/College/unit resources (i.e., cash match, funds from other sources, or reallocation of existing hardware/software or other equipment. (20 points)

See Attached Budget.

This project does not necessitate any funding for outside support personnel.

Funding of this proposal will support COE resources by replacing obsolete cameras, microphones, and cassette recorders/players in the TEC Counseling Clinic.

With an initial investment of \$22,326.00, the amortized cost of the Counseling Clinic upgrades over the 5-year life expectancy of the equipment will be \$4,465.00 and the annual per student cost will be \$8.12.

The \$22,326.00 budget presented in this proposal to upgrade the Counseling Clinic with state-of-the-art-technology is most realistic to ensure the successful accomplishment of the objectives of this project.

13. Attach a letter of support for the project signed by the requesting unit's Dean, the appropriate Vice President (for non-academic units), or the SGA President from the requesting campus (for student requests). (0 points)

See Attached Letter

Student Technology Fee Grant Proposal 2005-06

<u>Name</u>	Signature	Date Reviewed
Dr. Jim McCrory		2501
Comments:	<i>b</i> '	
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Tyron Tinnerello	H. H	4/25/08
Comments:		
Christyn Perot	Chutz Pest	10/24/05
Comments:	U v	7 1
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Tim Chadbourne		11/25/05
Comments:		
Gary Gatch Comments:	Gary Coll	10/25/65
Comments.		
Dale Martin	() () () () () () () () () ()	[1-11-05
Comments:		
Date Given to IS		Date Received from IS

Telephone (318) 357-6482 FAX (318) 357-6480

January 6, 2005

Dr. Dan Seymour Northwestern State University College of Education Natchitoches, LA 71458

Dear Dr. Seymour,

It is with pleasure that the STAT (Student Technology Advisory Team) has fully funded your grant proposal for Fiscal Year 2005-06 in the amount of \$22,326.00.

Ordering of equipment listed in the grant proposal will take place during the month of January.

Please be reminded that your grant was funded through Northwestern Student Technology Fees, all equipment purchased, therefore, must be used exclusively and directly for/by Northwestern students.

You are commended for, and encouraged to continue your efforts to enrich the learning environment for students at Northwestern State University. Your time, effort, and vision in service of the students are greatly appreciated. If you have questions or need additional information please contact me by phone or via email at: long@nsula.edu.

Sincerely,

Jennifer Long

Student Technology Fee

cc: Dr. Vickie Gentry

BUDGET

Quan Item	Description	Unit Price	Price
Recording Equipment			
% WVCF224	Panasonic mini color dome camera and power supply	399.00	1,995.00
5 PZM185	Crown ceiling mounted paddle microphone	189.00	945.00
*3 A18801	Audio Technica single channel phantom power supply	29.00	295.00
(1) MANGONIA	Extron 3 output composite video/stereo audio distribution amplifier	179.00	895.00
S DRM100S	Extron matrix switcher 8 in 8 out JVC DVD recorder	1,195.00	1,195.00
			5
Monitoring Equipment			
√20 HD280PRO	Sennheiser monitoring headphones	179.00	3.580.00
√1 RK12	Middle Atlantic 12 space rack	99.00	99.00
/s U2	Middle Atlantic rack shelf	39.00	195.00
رًا PD915R	Middle Atlantic 8 outlet power strip	00.69	00.69
42 MX882	Behringer Ultralink Pro 8 channel splitter/mixer	119.00	238.00
√5 L173WT-BA	LG Electronics 17" LCD monitor (no tuner)	749.00	3,745.00
*5 WP1x2	Horizon wall plate with 2 - 1/4" jacks	49.00	245.00
√5 FPM4100/FSA1000	LCD wall mount bracket/security latch/mounting hardware	299.00	1,495.00
Installation			
1 Inchallation	T. Constitution of the state of		
1 Custom Cable	i unitrey installation, Tranning, Phone Support Installation Cable	4,100.00	4,100.00
- -	Total		22,326.00
vendor: Mission Service Supply P. O. Box 2957, West Monroe, LA 71294-2957 Phone: 800-352-7222	onroe, LA 71294-2957		

Student Technology Funding Proposal Drs. Seymour, Dufrene, Hebert; October 21, 2005 Equipment Specifications List

- 1. Panasonic WVCF224 mini color dome camera; 135 mm diameter color compact indoor dome type camera, 480 line horizontal resolution, minimum illumination 2 lux, 2x variable focus lens, built in aperture level correction, 3 dimensional hinge, 2.8 mm to 6.0 mm variable focus auto iris lens, 24v power supply
- 2. Crown PZM185 ceiling mounted omni directional boundary microphone. Low impedance XLR output, works on phantom power, electret condenser element, 50 Hz to 16 kHz frequency response, s/n ratio 73db at 94db spl.
- 3. Audio Technica AT8801 phantom power supply; provides 48v phantom power for single source microphone, residual output noise -71dBV, 10 25,000 hz, 5.1/2"w, 2.36"d, 1.73"h 6 ft long, 18 gauge, 3 conductor cable.
- 4. Extron MDA3AV; 1 BNC video input, 3 buffered composite video outputs, audio frequency response 20Hz to 20kHz 1 stereo balanced/unbalanced input, 50k ohms unbalanced, 25 ohms balanced, 3 stereo balanced/unbalanced outputs. Required 12v DC power. Weighs 0.6lbs.
- 5. Extron MAV88AVRCA; matrix switcher that switches composite video, s video, stereo audio balanced or unbalanced. 8 inputs, 8 outputs, 150 MHz (-3db) video bandwidth, video genlock, audio input gain and attenuation, RS 232 control, BNC video inputs/outputs, 8 stereo unbalanced audio inputs, 8 RCA audio outputs.
- 6. JVC DRM100S DVD recorder; progressive scan output, DVD-R, DVD-RAM, DVD-RW recording capability (certain formats of DVD-RAM only). Inputs, coax video, composite video, composite audio L-R, S Video (x2), IEEE1394.
- 7. Sennheiser HD280PRO monitor headphones. Dynamic transducer, 8Hz to 25kHz, 64 ohms, spl 102 db, Circumaural closed ear coupling, 0.1% distortion. 3.5mm mini connector with ¼" adaptor.
- 8. Behringer Ultralink Pro 8 channel splitter/mixer. XLR and ¼" connectors, 50KOhms balanced, 25kOhms unbalanced, operating level -10dBV to +4 dBU, 5 Hz to 200kHz frequency response.
- 9. LG Electronics L173WT-BA 17" LCD monitor, no tuner. 1280 x 768p WXGA resolution, 600:1 high contrast ratio, 176 degrees viewing angle, Hi Res component, DVI-I, D-sub 15 pin, S video and AV input. Screen size 17", aspect ratio 15:9, rear inputs, audio out, contrast, brightness, color, sharpness video control. PC to TV at one touch.
- 10. Middle Atlantic RK12 12 space rack. Black laminate finish, 5/8" furniture grade MDF board construction, 11 gauge threaded rack rails installed, 150lb weight capacity.
- 11. Middle Atlantic 8 outlet power strip. UL and CSA listed. 8 outlets spaced to accommodate power plugs, 1 15amp circuit, lightweight anodized aluminum chassis.
- 12. Chief FPM4100 LCD wall mount. Pitch adjustable, 1" vertical or lateral shift, 1 ½" depth from wall, 6 7/8" x 5 5/8" x 1 ½". FSA1000 lockable latch for small flat panel display mounts. Compatible with padlocks.
- 13. WP1x2 Horizon wall plate with 2 1/4" jacks. Stainless steel, with switchcraft connector.

- 14. Installation to include all hanging of monitors, wiring of monitors and recorders, checking equipment, testing of equipment and system training. System will be fully operational upon completion. Wiring will not be exposed whenever possible. University will be responsible for electrical wiring for all components. Phone support for the life of the system during regular business hours in included with system installation and training. Minimum of 4 hours training included.
- 15. CustomCable is to include all necessary audio and video wiring as well as installation hardware.

Standard manufacturer warranties apply to all equipment. Estimated expected use is 5 years or greater. All equipment is hardware and will require no software upgrades.



College of Education Northwestern State University

Phone: 318-357-6288 Fax: 318-357-6275

October 21, 2005

Members, Student Technology Fee Grant Committee Northwestern State University of Louisiana Natchitoches, Louisiana 71497

Dear Committee Members:

For over 40 years the NSU College of Education has proudly offered masters programs to prepare counselors and student affairs professionals. These preparation programs have certainly included a didactic component but have always emphasized an experiential "hands on" component. By allowing opportunities for practice and application, NSU graduates have been well equipped to meet employment challenges in their professions.

The Teacher Education Center was built in the early 1970s as a unique setting for preparing professional educators including counselors and student affairs professionals. A Counseling Clinic was included in the original design of the Teacher Education Center and is in need of updated facilities and equipment. The TEC Counseling Clinic is operating with obsolete video cameras, microphones, and cassette players. Faculty have even resorted to using "baby monitors" to complete observations of the counseling sessions of graduate students. These graduate students will benefit greatly by being trained using up-to-date equipment.

I respectfully request your careful consideration of the proposal submitted to your Committee by Drs. Dufrene, Hebert, and Seymour. Again, these graduate students truly deserve access to state-of-the-art technology to complete their training to become counselors and student affairs professionals. Thank you very much.

Sincerely,

Vickie Gentry Acting Dean

VG:dsp



October 21, 2005

Members, Student Technology Fee Grant Committee Room 113D, Watson Library Northwestern State University of Louisiana Natchitoches, Louisiana 71497

Dear Committee Members:

Please accept the attached completed Student Technology Fee Grant Funding Request Form submitted by Dan Seymour, Ph.D., Associate Professor and SPS Program Coordinator; Roxane Dufrene, Ph.D., Assistant Professor and COE Counseling Clinic Coordinator; and Barbara Hebert, Ph.D., Assistant Professor and School Counseling Program Coordinator, counseling faculty in the College of Education. Additionally, documents to support the proposal are provided.

The funding of this proposal will be a creative approach by which the Student Technology Fee Grant Committee can address the technology needs of undergraduate students other than just buying more computers. Additionally, this funding will address the needs of a specialized group of graduate students who have probably realized little benefit from the technology fees that they have paid throughout matriculation in their program of study while at NSU. These students deserve an opportunity to complete their graduate study with access to state-of-the art technology and by funding this proposal you will provide this opportunity.

Thank you for any consideration given this proposal.

Sincerely,

Dan Seyrhour, Ph.D.
Associate Professor

SPS Program Coordinator

Roxane Dufrene, Ph.D. Assistant Professor

Counseling Clinic Program

Coordinator

Barbara Hebert, Ph.D. Assistant Professor School Counseling Program Coordinator

Sarlare Stelent

DS:RD:nas Attachments

Panasonic ideas for life

consumer

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> Fixed Dome Cameras > WV-CF224

WV-CF224

Mini Color Dome Camera, 12V DC and 24V AC, 480 TVL, ALC Lens

See Rep for Price



how to buy

Find a Security sales rep



Specification Sh

Operating Instru

Larger image

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View/compare a

Learn about fixe cameras

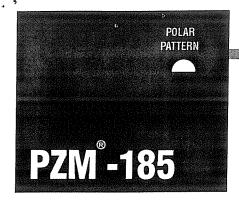
overview

features

support & resources

Economical Mini Color Dome Camera Features 2X Variable Focal Auto Iris Lens. The WV-CF224 Color Dome Camera from Panasonic is equipped with a 380,000 pixel, 14-type CCD and can be used with both AC and DC power sources. In addition to 480-line horizontal resolution, it can operate effectively in lighting as low as 2 lux (0.2 fc) with an aperture setting of F1.4. A full range of correction features including Backlight Compensation (BLC), Aperture Correction, and Auto tracing White Balance (ATW) ensure crisp color images in dark or backlit environments. The 2.8mm to 6.0mm variable-focal auto iris lens is standard equipment, and provides easy installation and camera angle adjustment. When used with a 24-volt AC power source, it simultaneously supports Internal, Line-Lock, and VD2 synchronization, making it simple to configure a reliable, multichannel camera system. Great specs, economical cost, simple operation, and system flexibility. The WV-CF224 is perfect for a wide range of applications.

- 135mm (5-5/16 diameter compact color dome camera for indoor use
- 480-line horizontal resolution
- Minimum illumination of 2 lux (0.2 fc)
- 50dB signal to noise ratio
- Built-in aperture level (sharp/soft) correction
- · Video monitor output jack provides on the spot checking fo lens angle setting
- · Can be installed in standard electric junction box.
- 24V AC/12V DC compatible power source operation to suit a wide variety of applications







he Crown® PZM®-185 Pressure Zone Microphone® is a microphone designed for general-purpose use. Ideal for applications such as conferences, group discussions, interviews, broadcast, home video production, lectures, and recordings. The mic can be placed on a large surface such as a table, floor, wall, or lectern.

The PZM-185 is powered either by an internal AAA 1.5V battery or 12-48V phantom power. The boundary "paddle" can be detached so the mic will fit in your pocket. Attached to the mic is an 8-foot (2.438-m) cable leading to a tubular power module.

The microphone's low-profile design reduces "mic fright" and minimizes clutter. It is nearly invisible on camera. The PZM-185 minimizes pickup of vibration and handling noise.

Its electret condenser capsule provides a wide, smooth frequency response from 50 Hz to 16 kHz. The mic's hemispherical polar pattern allows clear pickup of everyone surrounding the microphone.

The PZM-185 is protected against static and RFI. The output is balanced, low impedance, which allows long cable runs without hum pickup or high-frequency loss.

Like other Pressure Zone Microphones, the PZM-185 uses a miniature mic capsule mounted very near a sound-reflecting plate or boundary in the Pressure Zone. In this zone, direct sound from the sound source combines in phase at all frequencies with reflected sound off the boundary. The benefits are many: 6 dB more sensitivity, 6 dB less noise, a wide smooth frequency response free of phase interference, excellent clarity and "reach," and consistent pickup anywhere around the microphone.

Operating Instructions

You can power the PZM-185 either by 12-48V phantom power or battery power. To use phantom power, plug the mic connector into a phantom power supply or into a mic input that provides 12-48V phantom power.

To use battery power, open the cover (Fig. 3) and insert a AAA 1.5V battery. Please note the correct orientation of the battery.

If you're using the microphone on a hard surface, such as a table top, the boundary "paddle" is not necessary. If you're using the mic on a carpet or other sound-absorbing surface, attach the boundary "paddle" for best results.

Features

- Ideal for table-top or on-floor recordings: conference, group discussions, interviews, broadcast, home video, lectures, music
- Works on internal AAA battery or phantom power
- · Low-impedance XLR-type output
- · Boundary "paddle" can be detached
- Clear, bright sound quality with excellent bass

Specifications

Element: Electret condenser.

Frequency response (typical): 50 Hz to 16 kHz (Fig. 1).

Polar pattem: Hemispherical (half-omni) on a large surface.

Impedance: 150 ohms, balanced. Recommended minimum load impedance 1000 ohms.

Open circuit sensitivity (1.5V battery power): 0.8mV/Pa (-62 dB re 1 volt/Pa*).

Power sensitivity (1.5V battery power): -59.5 dBm. EIA sensitivity -154 dBm.

Open-circuit sensitivity (phantom power): 3.2 mV/Pa* (-50 dB re 1V/Pa).

Power sensitivity (phantom power): –47.5 dBm. EIA sensitivity –142 dBm.

Equivalent noise level (self-noise): 21 dB SPLtypical, A-weighted (0 dB = .0002 dyne/cm²).

S/N ratio: 73 dB at 94 dB SPL.

Maximum SPL: 120 dB SPL produces 3% distortion with phantom power.

Polarity: Positive pressure on the diaphragm produces positive voltage on pin 2 with respect to pin 3 of the output connector.

Cable: 8-foot (2.438-m), 2-conductor shielded, permanently attached cable. No other cable supplied; use 2-conductor shielded mic cable.

Output connector: 3-pin XLR-type pro audio connector.

Operating voltage: One 1.5V size AAA alkaline battery (Duracell MN2400 or equivalent) or 12 to 48V phantom power (positive voltage on pins 2 and 3 with respect to pin 1).

Battery life: Approximately 45 days.

Current drain: 0.5 mA.

Materials: High-impact plastic housing and steel power module.

Finish: Satin black. Dimensions: Fig. 2.

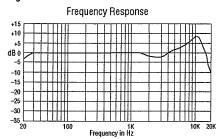
Weight: 4 ounces (115 grams).

Included accessories: 1.5V AAA battery.

Optional accessories: Crown PH-1A phantom power supply (1 channel, battery or AC adapter powered).

*1 pascal = 10 dynes/cm² = 10 microbars = 94 dB SPL.

Fig. 1



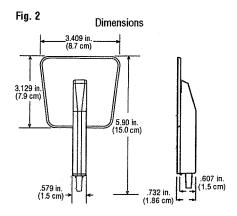
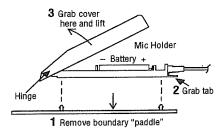


Fig. 3



Suggestions for Use

Place the microphone near the sound source as described following:

Conferences, group discussions, seated interviews—Lay the microphone on the table. Use one microphone in the middle of every 4 to 6 people. Ideally, no person should be more than 3 feet (0.9144 m) from the nearest microphone. For maximum clarity, hold the conference in an acoustically "dead" room with carpeting, acoustic-tile ceiling, and drapes.

Lectures—Place the microphone on top of the lectern, near the edge of the lectern farthest from the person speaking.

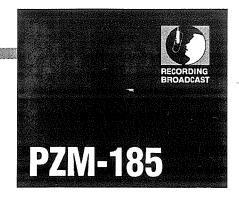
Video or movies—Lay the microphone on a table or on the floor near the action.

Music—Place the microphone near the sound source, on the floor, on a wall, or on a large hard-surfaced panel. For grand piano, tape the microphone to the center of the underside of the raised lid.

For spaced-pair stereo recording, place two microphones three to ten feet (.914 to 3.05m) apart on a wall or on the floor about five to twenty feet (1.52 to 6.10m) from the musical ensemble. For near-coincident stereo recording, mount them on a microphone stand using a stereo bar or stereo microphone adapter.

Architects' and Engineers' Specifications

The microphone shall be a Crown PZM-185. The PZM-185 Pressure Zone Microphone shall be powered by 12 to 48V phantom power or a AAA 1.5V battery. The microphone shall have a permanently attached cable leading to a power module with an XLR-type connector. An integral boundary paddle shall be removable. Frequency response shall be uniform from 50 Hz to 16,000 Hz. Open-circuit sensitivity shall be 3.2 mV/Pa with phantom power. Maximum SPL for 3% THD shall be 120 dB with 48V phantom power. Self-noise shall be 21 dB SPL A-weighted. Impedance shall be 150 ohms balanced. The Crown PZM-185 is specified.



Warranty

Crown professional microphones are guaranteed against malfunction for a period of three years from date of original purchase. Please refer to the enclosed full warranty statement for more detail.

Service

If the microphone fails to work, replace or repair the mic cables, replace the battery or check the power supply. If service is required, return the microphone in its original packaging to: Crown Factory Service, 1718 West Mishawaka Road, Elkhart, IN 46517-9439. For further assistance or technical support call 800-342-6939.



H A Harman International Company

Crown International, Inc. 1718 W. Mishawaka Rd. Elkhart, IN 46517-9439 TEL: 574-294-8000 FAX: 574-294-8FAX www.crownaudio.com

2005 Crown Audio, Inc. Specifications subject to change without prior notice. Latest information available at www. crownaudio.com. Crown, Crown Audio, PZM and Pressure Zone Microphone are registered trademarks of Crown International.

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Product Details

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HD280 Pro Item No. 004974

Short Description

The HD280 Professional is Sennheiser's most significant closed, circumaural headphone to be introduced in years. Designed to exceed the demands of the professional environment, the HD280Pro boasts extremely robust construction combined with extensive features that meet the requirements of today's most demanding applications. The unique collapsible design combined with swiveling ear cups, offers maximum flexibility in any application.

Features

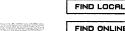
- Closed, dynamic stereo headphones
- Accurate, linear sound reproduction for critical monitoring applications
- Optimum impedance ensures universal compatability
- Space saving design features collapsible, rotating earcups
- Up to 32 dB of ambient noise attenuation
- Neodymium magnets for high maximum SPL
- Single-sided, coiled cable with 3.5 mm mini jack with locking 1/4" adapter
- Very comfortable, even if used for long periods of time
- Rugged construction with user-replaceable parts

2 year warranty



SPECS | NFO

MSRP





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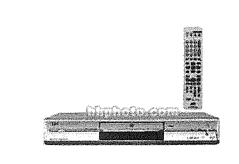
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JVC

JVC DR-M100S DVD Recorder/Play Records to DVD-RAM and DVD-R/V Mfr# DRM100S • B&H# JVDRM100S

Our Price:

☐ Shipping Cost:

Availability:

Quantity 1



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Features Accessories

Specifications ₩

Connectors

→ General

Item Includes

₩ Video

→ Format Compatibility

→ Audio

World's most complete resources for Adobe Photoshop



Video

System NTSC

1

Region

Hard Disk Drive No

Progressive Scan Output Yes

HD Upconversion No

Format Compatibility

U HACKER SAFE TESTED 19-0CT

DVD Recording Media

DVD-RAM (only certain types)

DVD-R, Video Format

DVD-RW, Video and VR Format

DVD Playback Media

DVD-Video DVD-R

DVD-RW

DVD-RAM (only certain types)

CD-R/CD-RW Playback

Yes, VCD, Super VCD, CD-DA, CD-R, CD-RW, CD-ROM

Dolby Digital/DTS

Yes

MP3 Playback

Yes

WMA Playback

No

Picture CD/JPEG

No/Yes

SACD/DVD-Audio

Playback

Yes/Yes

Audio

Built-in Decoder

No

HDCD Decoding

No

Audio D/A Converter

192 kHz/24-bit

Virtual Surround

No

Bass Management

No

Convenience

Digital Media Slot

No

TV Tuner

Yes

TiVo

No

VCR Plus+

Yes

Slow Motion Playback

Yes

Frame-by-Frame Playback Yes

Bookmarking

No

Playback Zoom

No

Connectors

Inputs

Coaxial Antenna - x1 Composite Video - RCA x2 Composite Audio L/R - RCA x2 S-Video - x2

i.Link (IEEE-1394) - x1

Outputs

RF Antenna - x1

Composite Video - RCA x1 Composite Audio L/R - RCA x1

S-Video - x1

Component Video - RCA x1 (with Copy Protection)

Digital Audio Coaxial - x1

General

Remote Control

Yes

Power Requirements

120 VAC @ 60 Hz

Dimensions (WxHxD)

17.1 x 2.8 x 11.8" (435 x 70 x 300 mm)

Weight

7.5 lbs (3.4 kg)

Color

Silver

Warranty

1-Year Parts and 90-Day Labor

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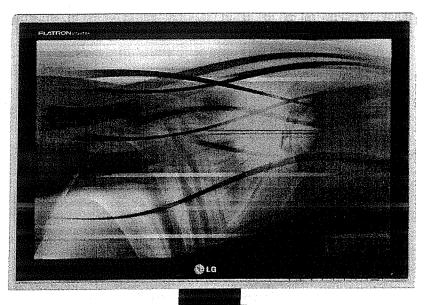
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J =

L173WT-BA

17" LCD WIDESCREEN 15:9 HDTV MONITOR



17" LCD HDTV LT73WT-BA 17" HDTV Monitor

Truly Flat LCD screen delivers razor sharp images

1280 x 768p Resolution WXGA High resolution format produces extremely detailed imagery

600:1 High Contrast Ratio LCD technology emits sharp contrast between light and dark images

450 cd/m² High Brightness Renders an incredibly bright picture, even in light-drenched environments

176 Degrees Viewing Angle New Super IPS Technology allows for distortion-free viewing from almost any angle

Hi-Res Component, DVI-I, D-Sub 15-Pin, S-Video, and AV Multiple inputs for DVD players, VCRs, computers, and video game systems

Advanced Picture In Picture (PIP)





DIMENSIONS

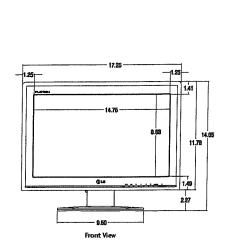
1 1

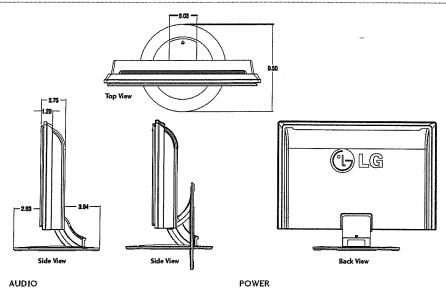
Base/Treble/Balance

Auto Volume Leveler

Headphone Output

Audio Power





EΚ

CCC

PSB

BSM

B-Mark

SASO

21.26" x 8.35" x 22.01"

23.37 Lbs.

PANEL	
Screen Size	17″
Aspect Ratio	15:9
Native Resolution	1280 x 768p
Pixels (H x V x 3)	2,949,120
Brightness	450 cd/m ²
Contrast Ratio	600:1
Viewing Angle (H x V)	176° x 176°
Color Depth	16.8 Million
MTBF	50,000 Hours (typ.)
Response Time	25 ms
Surface Treatments	Anti-glare,
	Hard Coating (3H)
VIDEO	
CSM	6500K, 9300K, User

Contrast, Brightness,

Sharpness, Color, Tint

Yes, Plus PC Sound

Auto Scaling to XGA

720p, 1080i

Yes

Dynamic, Standard, Mild,

PC to TV at One Touch	Yes
Advanced Picture In Picture (PIP)	Yes, PIP/POP/PBP
PIP Adjust	Position, Contrast, Brightness, Sharpness, Color, Tint, PIP Sound, PIP Swap
Zoom	Yes
Last Source Power-on Recall	Yes
Auto Power Option	Yes
Menu Languages	6
Child Lock w/V-Chip	Yes
Power Indicator	On/Off
Menu Transparency	Yes
Reset	Yes
CABINET	
Color	Silver/Black
Dimensions (W x H x D)	17.25" x 14.05" x 9.50"
Without Detachable Stand	17.25" x 11 .78" x 2.75"
Weight with Stand	15.76 Lbs.
VESA™ Standard Mount Interface	Yes (100 mm)
Stand	Detachable
Tilt.	+5 (down) / -25 (up)

Yes

Yes

Yes

10W (5W x 2)

55W (3W Standby)
90~264V (47~63 H
Yes '

Power Source 90~264V
Direct AC Input Yes
Power Type LIPS
EPA Energy Star Yes

SERVICE/LIMITED WARRANTY		
Warranty (Parts/Labor)	3 Years	
STANDARD (CERTIFICATION)		
UL	Yes	
FCC-B	Yes	
NOM	Yes	
CSA (CUL)	Yes	
CE	Yes	
TUV	Yes	
SEMKO	Yes	
GOST	Yes	
ISO 13406-2	Yes	
C-TICK	Yes	
VCCI-2	Yes	
MIC	Yes	

Yes

Yes

Yes

Yes

Yes

Audio Out

Picture

EZ Video

Auto-Configure

REAR INPUTS

Audio Input

HDTV Formats

RS-232C Input

Speaker Out

PC Formats

DVI-I

High Resolution Component

15-Pin Sub "D" (thru DVI-I)

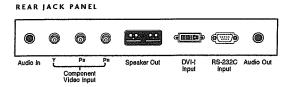
Theft Prevention Locking Device

ARC

Clock

Phase

Position



www.LGcommercial.com

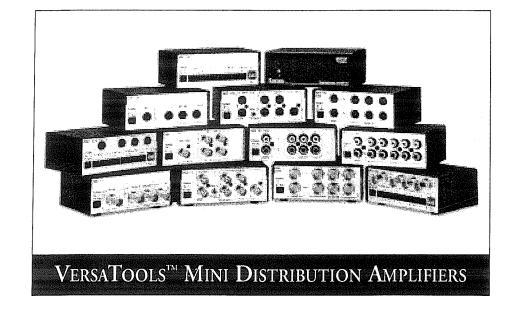
LG Electronics U.S.A., Inc. 2000 Millbrook Drive, Lincolnshire, IL 60069 Customer Service: 1-888-865-3026
Dimensions and weights are approximate. Design and specifications subject to change without notice. HDTV monitors require optional set-top box to receive high-definition broadcast. VESATM is a registered trademark of Video Electronics Association. The "LG Life's Good" is a registered trademark of LG Electronics U.S.A., Inc. ©2005 LG Electronics U.S.A., Inc. Printed in the USA. LG173WTBA090S

Dimensions (W x H x D)

Weight



Extron_® Electronics INTERFACING, SWITCHING AND DISTRIBUTION



Video bandwidth: 435 MHz (-3db) on composite models

Video bandwidth: 270 MHz (-3db) on S-video models

Quarter rack width metal enclosure

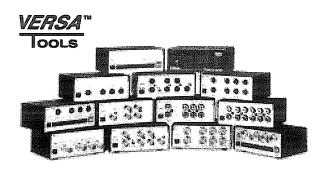
Versatile mounting options including rack and under-desk mounts

Unity audio gain: selectable output audio gain (captive screw models only)

100-240VAC external international power supply



www.extron.com



Extron VersaToolsTM is a new line of compact, versatile solution products designed for high-quality performance. VersaTools' small, quarter rack width enclosures, flexible mounting options (rack, underdesk, or stand-alone), and adaptable, external international power supply allow for easy integration into both new and existing A/V systems including boardrooms, training facilities, home theater, command and control centers, and rental and staging environments. The VersaTools line offers twelve affordable models of Mini Distribution Amplifiers for the distribution of a single source input to multiple outputs.

Composite Video Models



MDA 3AV

Composite models have 435 MHz (-3dB) bandwidth to maintain signal integrity. Video input and outputs are on female BNC connectors.

Balanced/unbalanced stereo audio is accepted on captive screw connectors.

*	ALID IN	TUO DUA	VID IN	VID OUT
MDA 3V			1	3
MDA 3V Deal		_	2	6
MDA SV	_		1	5
MDA 3AV	1	3	1	3

S-Video Models



MDA 3SVA

S-video models have 270 MHz (-3dB) bandwidth to maintain signal integrity. Video input and outputs are on female 4-pin mini-DIN connectors.

Balanced/unbalanced stereo audio is accepted on captive screw connectors.

	AUD IN	AUD OUT	VID IN	VID OUT
MDA 3SV	_		1	3
MDA 35V Deal			2	6
MDA SSV	_		1	5
MDA 35VA	1	3	1	3

Stereo Audio Models



MDA 3A

Audio models are available with either unbalanced RCA connectors or with captive screw connectors (balanced/unbalanced).

Captive screw models have selectable output gain via DIP switch. This feature provides unity gain for balanced or unbalanced audio signals.

	AUD IN	AUD OUT	
MDA 3A	1	3	
MDA 3A RCA	1	3	
MDA SA RCA	1	5	

SDI Model



MDA 4V SDI

SDI model accepts and distributes 4fsc PAL, 4fsc NTSC, component 4:2:2, and widescreen 4:2:2 standard SDI signals on female BNC connectors.

	VID IN	VID OUT
MDA 4V SDI	. 1	4

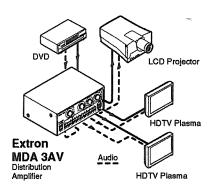
SPECIFICATIONS

Video		Stereo channel separation	. >80 dB @ 1 kHz; >60 dB @
Gain	Unity		20 kHz
Bandwidth		CMRR	
MDA 3SV/3SVA/3SV Dual,		Audio input — MDA 3AV, MDA 3SVA	, MDA 3A/3A RCA, MDA 5A RCA
MDA 5SV	270 MHz (-3dB)	Number/signal type	
MDA 3V/3AV/3V Dual,		MDA 3Ă RCĂ, MDA 5A RCA	. 1 stereo unbalanced
MDA 5V		MDA 3AV, MDA 3SVA, MDA 3A.	. 1 stereo balanced/unbalanced
Differential phase error	0.05°, 0 to 50 MHz	Connectors	
Differential gain error		MDA 3A RCA, MDA 5A RCA	
K factor	<0.05%	MDA 3AV, MDA 3SVA, MDA 3A.	. 1 3.5 mm captive screw connector,
Video input			5 pole
Number/signal type	A NUMBER OF A STATE OF	Impedance	
MDA 38V/38VA, MDA 58V	1 NTSC/PAL/SECAM S-video	MDA 3A RCA, MDA 5A RCA	
MDA 3SV Dual	2 NTSC/PAL/SECAM S-video		coupled
MDA 3V/3AV, MDA 5V	1 NTSC/PAL/SECAM composite	MDA 3AV, MDA 3SVA, MDA 3A.	. >50 kohms unbalanced, >25 kohms
TO CALD 1	video		balanced, DC coupled
MDA 3V Dual	2 NTSC/PAL/SECAM composite	Maximum level	
0	video	1 11 10 10 10 10 10 10 10 10 10 10 10 10	at stated %THD+N
Connectors	1 (all all DING)	Audio output — MDA 3AV, MDA 3SVA	, MDA 3A/3A RCA, MDA 5A RCA
MDA 3SV/3SVA, MDA 5SV	1 4-pin mini DIN female	Number/signal type	
MDA 3SV Dual	2 4-pin mini Din temale	MDA 5Ā RCĀ	
MDA 3V/3AV, MDA 5V	1 BING female	MDA 3A RCA	
MDA 3V Dual	2 BINC female	MDA 3AV, MDA 3SVA, MDA 3A.	. 3 stereo, balanced/unbalanced
Minimum/maximum levels		Connectors	10 DG4
MDA 3SV/3SVA/3SV Dual,	V. O. A. a. 2. O.V. n. n. wink affirm	MDA 3A RCA	
MDA 3V/3AV/3V Dual,	Y: 0.4 to 2.0V p-p with no offset	MDA 3A RCA	. 6 RCA connectors
	0 / to 2 0V n a with no office or	MDA 3AV, MDA 3SVA, MDA 3A.	
Impedance	0.4 to 2.0V p-p with no offset at	T	connectors, 5 pole
Impedance Return loss	/) OHHIS	Impedance	50 1 11 1
Maximum DC offset	40db & 0 to 10 MHz	MDA 3A RCA, MDA 5A RCA	
Video output	1.0 V	MDA 3AV, MDA 3SVA, MDA 3A	balanced
Number/signal type		Gain error	
MDA 3SV/3SVA	3 Savideo	Maximum level (Hi-Z)	
MDA 3SV Dual		Waximum level (I II-2)	at stated %THD+N
MDA 5SV		Maximum level (600 ohm)	
WIDN 95 V	distribution, 1 passive loop-through	Maximum lever (000 omm)	at stated %THD+N
	distribution, i passive toop-unough	NOTE: 0dBu = 0.775 volts (RMS).	at stated 70 ITID+IV
MDA 3V/3AV	3 composite video	General	
MDA 3V Dual	6 composite video	Power	100VAC to 2/0VAC 50/60 Hz
MDA 5V	6 composite video: 5 amplified for	101101	5 watts, external, auto-switchable;
	distribution, 1 passive loop-through		to 12VDC, 1 A (max.) power
Connectors	manager		supply. Product requires 0.4 A.
MDA 3SV/3SVA	3 4-pin mini-DIN	Rack mount	Yes, with optional 111 rack shelf
MDA 3SV Dual			part #60-190-01, or the Versa Tools
MDA 5SV	6 4-pin mini-DIN		rack shelf, part #60-190-20
MDA 3V/3AV	3 BNC female	Enclosure type	Metal
MDA 3V Dual	6 BNC female	Enclosure dimensions	1.7" H x 4.3" W x 3.0" D (1U
MDA 5V	6 BNC female		high, quarter rack width) 4.2 cm H
Minimum/maximum level(s)	0.4V to 2.0V p-p		x 11.0 cm W x 7.6 cm D (Depth
Impedance	75 ohms		excludes connectors and knobs.)
Return loss		Product weight:	0.7 lbs (0.3 kg)
DC offset	±5mV maximum with input at 0	Shipping weight:	3 lbs (1.4 kg)
	offset	Listings	UL, CUL
Sync		Compliances	CE, FCC Class A, VCCI, AS/NZS,
Standards			ICES
	SECAM	**************************************	
Audio — MDA 3AV, MDA 3SVA, MDA		MDA 4V SDI Distribution Ampl	itiers
Gain (RCA models)	Unity		
Gain (Captive screw models)		Video	** .
Unbalanced out		Gain	
p-11	-6dB = balanced	Resolution	
Balanced out		Operation standards	
E	OdB = balanced		(4fscPAL) 270 Mb/s (4:2:2
Frequency response	. ZU ITZ TO ZU KITZ, ±U.U)dB		component video) 360 Mb/s (4:2:2
1 (11) + Noise	. 0.03% @ 1 kHz at rated maximum		widescreen component video),
C/NI	output drive		autoselected
S/N		Equalization and relocking	
	maximum output drive		loss

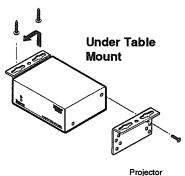
SPECIFICATIONS (Cont.)

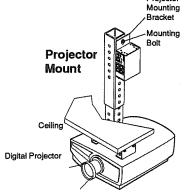
APPLICATION DIAGRAMS

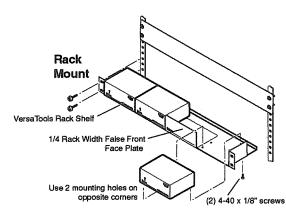
Video input	
Number/signal type	1 SMPTE-259M serial digital
1 (2.1.1.2 a.z. a.g a) Po	component video
Connectors	. 1 BNC female
Minimum/maximum levels	. U.) v to I v p-p with no offset
Impedance	. 75 ohms
Return loss	15db @ 5 to 2/0 Mmz
Video output	.) v
Number/signal type	. 4 reclocked SMPTE-259M serial
	digital component video
Connectors	. 4 BNC female
Minimum/maximum levels	. 0V to 1.0V p-p
Impedance	. /5 ohms
Return loss DC offset	
DC onset	0 offset
Sync	3 31132
Standards	. 4fscNTSC, 4fscPAL, SMPTE-
	259M
General	
Power	5 watts, external, auto-switchable;
	to 12VDC, 1 A (max.) power
	supply. Product requires 0.4 A.
Rack mount	Yes, with optional 1U rack shelf,
	part #60-190-01, or the
	VersaTools™ rack shelf,
	part #60-190-20
Enclosure type	Metal
Enclosure dimensions	high, quarter rack width) 4.2 cm H
	x 11.0 cm W x 7.6 cm D
	A 11.0 bill W A 7.00 bill D
Product weight	0.5 lbs (0.2 kg)
Shipping weight	2 lbs (0.9 kg)
Listings	UL, CUL
Compliances	ICES
Warranty	
warranty	5 years parts and moor
	Part Number
MDA 3V	60-439-01
MDA 3AV	
MDA 3V DUAL MDA 5V	
WIDA JV	00-440-01
S-Video Models	•
MDA 3SV	60-444-01
MDA 3SVA	60-444-20
MDA 3SV DUAL	60-444-10
MDA 5SV	60-44/-01
Stereo Audio Models	
MDA 3A	60-440-01
MDA 3A RCA	50-440-30
MDA 5A RCA	50-441-01
SDI Models	
MDA 4V SDI	50-448-01
111111 TT 011	220.04
Accessories	
P/S 100	50-357-01



Mounting Options



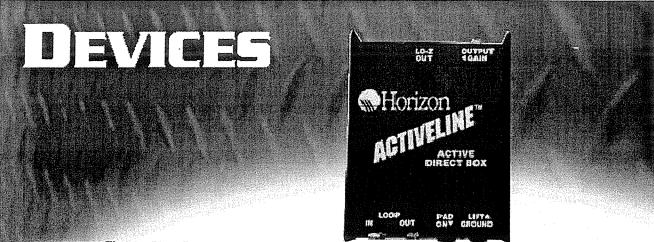






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AL-1

AL-1 ACTIVELINE™ Active Direct Box

The Horizon AL-1 Activeline[™] accepts instrument line or speaker level inputs and actively converts them to a mic level output to go directly into a mixing console (or into any desired mic level input). It features a 1/4" unbalanced input jack, a 1/4" loop-through jack, a -20db input pad switch, a ground lift switch for buzz-free operation in almost any environment. An XLR male mic level output connector, and adjustable output gain trim pot are used to obtain a 0db to -20db output swing to "dial in" the best output level. (Only an active direct box can do that!) A 9-volt battery that disconnects when the input jack is unplugged allows for longer battery life. The AL-1 is built with 18 gauge steel housing chassis, recessed connectors and switches to resist damage. The battery can be changed by removing the screws on the back of the unit.

PH-1 PHANTOMLINETM Phantom Powered Active Direct Box

The Horizon PH-1 Phantomline™ accepts instrument, line, or speaker level outputs and actively converts them to a mic level output as does the AL-1. What makes it unique from the AL-1 is its ability to utilize phantom power and bypass the unit's 9-volt battery.

SL-1 STRAIGHTLINE™ Passive Direct Box

The Horizon SL-1 Straightline™ Direct Box's simple design offers reliable input jacks as well as a loop-through 1/4" jack. Plug any instrument level signal (and some line level) into the Straightline™, interface with a standard XLR mic cable into the Lo-Z output and you're ready to plug the output "directly" into a mixing console. A ground lift switch is provided for buzz-free operation in almost any environment.

SL-2 STRAIGHTLINE-2™ Passive Direct Box

The Horizon SL-2 Straightline- 2^{TM} has every feature that our SL-1 Passive Direct Box offers plus a -20db pad switch so you can plug any instrument or most "hotter" line level sources into it. If the signal that the mixer console receives is overdriven, simply flip the -20db pad switch and it will filter the input signal down to a better level. Both the SL-1 and SL-2 are built in 18 gauge formed steel boxes. The connectors and switches are recessed to resist damage.

SL-1A & SL-2A Direct Boxes (not shown)

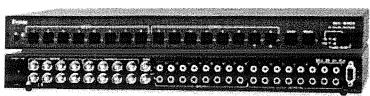
The SL-1A Direct Box converts Hi-Z signals to Lo-Z allowing you to interface line or instruments directly to Lo-Z devices like consoles, with the added features of medical grade gold-plated rocker switches, 1% metal film resistors, improved transformer isolation and mill grade PC board material for maximum bandwidth and dynamics. The SL-2A includes a precision low noise pad feature for maximum flexibility independent of the signal level at the input source. The metal housing for the SL-1A and SL-2A is the most rugged Horizon offers.



w. J. Orizon

14

A/V MATRIX SWITCHERS FOR COMPOSITE VIDEO, S-VIDEO, AND STEREO AUDIO



MAV 88 AV RCA

The Extron MAV Series matrix switchers provide versatile switching solutions for video system applications that route composite video and S-video signals, with stereo audio. The MAV Series is ideal for museums, university classrooms, sports bars and restaurants, videoconference and distance learning facilities, video production suites, corporate boardrooms and meeting facilities, and many residential entertainment installations.

- 19 models with I/O sizes from 4x4 to 8x8
- 150 MHz (-3 dB) video bandwidth, fully loaded
- Switches composite video, S-video, and stereo audio
- Video genlock and vertical interval switching
- Quad standard video compatibility
- Balanced and unbalanced audio compatibility
- Audio input gain & attenuation
- Audio breakaway
- QuickSwitch Front Panel Controller (QS-FPC™)
- Global presets for storing commonly used switching configurations
- RS-232 with Extron's Simple Instruction Set (SIS™)
- Optional IR remote control (most models)
- Windows®-based control program



The Extron MAV Series of A/V Matrix Switchers is designed to suit the requirements of many smaller video and audio switching systems. Available in fixed I/O sizes from 4x4 to 8x8 and housed in rugged, compact 1U rack-mountable enclosures, the MAV Series is capable of routing several composite video or S-video, and stereo audio signals, to multiple outputs.

MAV Series matrix switchers are ideal solutions for a variety of video routing applications, including corporate boardrooms, command and control centers, museums, university classrooms, sports bars and other themed entertainment venues, videoconferencing rooms, and residential media installations.

Video Features

All MAV Series switchers feature 150 MHz (-3 dB) video bandwidth, fully loaded, ensuring signal quality in even the most complex system designs. In addition, all models are capable of switching NTSC 3.58, NTSC 4.43, PAL, and SECAM video sources for worldwide capability. MAV Series switchers also feature video genlock and vertical interval switching for smooth, seamless transitions when switching between synchronous video sources.

Audio Features

The MAV Series includes matrix switchers capable of switching balanced or unbalanced stereo audio signals, in both Audio Follow and Audio Breakaway modes. Audio input gain and attenuation can be adjusted at the front panel or through serial control, eliminating noticeable differences in audio level when switching between inputs. Many models are also available with convenient RCA connectors, for switching unbalanced stereo audio.

Control Features

Each of the 19 available MAV Series models comes standard with RS-232 control capability, as well as Extron's exclusive QuickSwitch Front Panel Controller (QS-FPC™), which allows for simple, touch-of-a-button input and output selection directly from the front panel. A special "Front Panel Security Lockout" mode is available for use when a MAV Series matrix switcher must be installed in an unsecured environment. The MAV Series can also be controlled via the optional MCP 1000 and MKP 1000 remote

control panels. Most MAV models are also capable of IR control with the optional IR 501 remote control.

Software Features

All MAV Series matrix switchers are shipped with Extron's Windows®-based control software, which provides a simple, graphical interface for I/O configuration and other customization functions. The control software also includes an emulation mode for configuring an off-site matrix switcher. Once saved, the I/O configuration may be

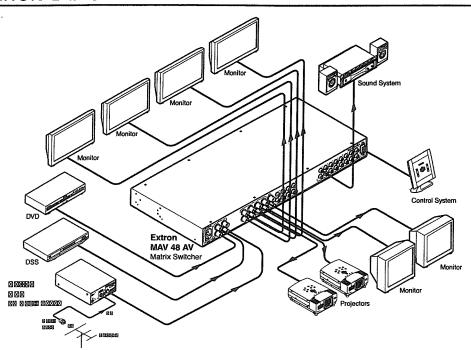


IR 501 Remote

downloaded to the MAV Series switcher through the serial port. Most MAV Series models also support the download of the latest firmware revisions through the serial port, directly from Extron's website (www. Extron.com)



APPLICATION DIAGRAM





MAV 44 SVA S-Video & Stereo Audio Matrix Switcher



MAV 48 AV RCA Composite Video & Stereo Audio Matrix Switcher



MAV 62 SVA S-video & Stereo Audio Matrix Switcher



MAV 84 SVA RCA S-Video & Stereo Audio Matrix Switcher



MAV 88 AV Composite Video & Stereo Audio Matrix Switcher

Composite Video MAV 44 AV MAV 44 AV RCA	Description Video & Balanced/Unbalanced Stereo Audio Video & Unbalanced Stereo Audio	Part Numbers 60-553-21
S-Video MAV 44 SVA MAV 44 SVA RCA	Description Video & Balanced/Unbalanced Stereo Audio Video & Unbalanced Stereo Audio	

NOTE: AV versions support audio on captive screw connectors. AV RCA versions support audio on RCA connectors.

Composite Video	Description	Part Numbers
MAV 48 AV .	Video & Balanced/Unbalanced Stereo Audio	60-605-21
MAV 48 AV RCA	Video & Unbalanced Stereo Audio	60-605-31
S-Video	Description	Part Numbers
S-Video MAV 48 SVA	Video & Balanced/Unbalanced Stereo Audio	

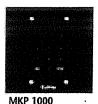
Composite Video MAV 62 AV	Description Video & Balanced/Unbalanced Stereo Audio	Part Number
S-Video MAV 62 SVA	Description Video & Balanced/Unbalanced Stereo Audio	Part Number 60-419-01

Encourage of the second		
Composite Video	Description	Part Numbers
MAV 84 AV	Video & Balanced/Unbalanced Stereo Audi	o 60-554-21
MAV 84 AV RCA	Video & Unbalanced Stereo Audio	
S-Video	Description	Part Numbers
MAV 84 SVA	Video & Balanced/Unbalanced Stereo Audi	
MAV 84 SVA RCA	Video & Unbalanced Stereo Audio	

	interior de la companya de la compa	
Composite Video	Description	Part Numbers
MAV 88 V	Composite Video only	60-555-01
MAV 88 AV	Video & Balanced/Unbalanced Stereo Aud	io 60-555-21
MAV 88 AV RCA	Video & Unbalanced Stereo Audio	
S-Video	Description	Part Numbers
MAV 88 SVA	Video & Balanced/Unbalanced Stereo Aud	io 60-555-22
MAV 88 SVA RCA	Video & Unbalanced Stereo Audio	

- 150 MHz (-3dB) video bandwidth, fully loaded Ensures switching and distribution of signals without signal degradation. The 150 MHz (-3dB) is a worst case specification, ie., the MAV Matrix Switcher provides 150 MHz (-3dB) at full performance capacity when one input signal drives all outputs.
- Quad standard MAV Series matrix switchers are capable of switching NTSC 3.58, NTSC 4.43, PAL, and SECAM video for worldwide compatibility.
- Video genlock Allows for vertical interval switching and enables smooth, seamless transitions when switching between synchronous video sources.
- QuickSwitch Front Panel Controller (QS-FPC™) The QS-FPC feature allows for touch-of-a-button input and output selection. Extron's QuickSwitch technology virtually eliminates the learning curve usually associated with switching the inputs and outputs of a matrix switcher by using a tactile front panel button for every input and output.
- View I/O mode Allows users to easily see which individual inputs and outputs are actively connected. Available from the front panel or RS-232 control (except the MAV 62 models).
- Global presets Frequently used I/O configurations may be saved and recalled either from the QuickSwitch Front Panel Controller or RS-232 serial control. This time-saving feature allows you to set up I/O configurations and store them in memory for future use. (Not available on MAV 62 models)
- Balanced and unbalanced audio Accepts both balanced and unbalanced stereo audio signals on captive screw connectors. The video and RCA audio switchers only accept unbalanced stereo audio on RCA connectors.
- Audio Input gain and attenuation Allows installers to set the level of gain or attenuation for each audio input channel, eliminating noticeable differences when switching between sources.
- Audio breakaway Provides the capability to break an audio signal away from its corresponding video signal, allowing the audio channels to be operated as a separate matrix switcher.
- IR control MAV 44, MAV 48, MAV 84, and MAV 88 models can be controlled via the front panel or optional IR 501 remote control.
- RS-232 Control Allows for firmware updates and serial control via a third-party control system using Extron's Simple Instruction Set (SIS™).
- Simple Instruction Set (SIS™) Extron's SIS is a set of basic ASCII code commands that enable simple control from a third-party control system. Instead of programming in long, obscure strings of code, the SIS makes it easy to operate an Extron product using serial control.
- Control software Provides a graphical, drag-and-drop interface for I/O configuration and other customization functions via serial control. The software also offers an emulation mode for configuration of an off-site matrix switcher. The I/O configuration may be saved for future downloading to the matrix switcher.
- Downloadable firmware updates Firmware updates can be conveniently downloaded from the Extron Web site. Updates for new features and capabilities can be easily upgraded through the serial port. (Not available on MAV 62 models)

MCP 1000 and MKP 1000 control – Optional remote control panels and keypads provide the flexibility to control a MAV Series matrix switcher from a remote location. Both are easy to use for one-button switching to select a particular input or preset.

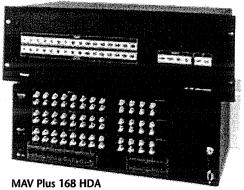


MCP 1000

- Front panel security lockout If a MAV Series matrix switcher is installed in an unsecured environment where easy access is not desirable, the security lock-out feature may be implemented. During lock-out mode, a special button combination is required to operate the front panel controller.
- Internal international power supply The 100-240VAC, 50/60Hz, autoswitchable, internal power supply provides worldwide power compatibility.

MAV Plus Series Matrix Switchers

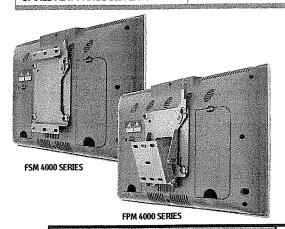
For larger system designs requiring more inputs & outputs, or require the routing of HDTV, and/or component video, the MAV Plus Series includes 50 models in I/O sizes from 8x8 to 32x32. The MAV Plus Series features backlit I/O selection buttons, audio output volume control, and Extron's exclusive IP Link™ Ethernet monitoring and control technology. Visit the Extron website (www.extron.com) for more information.



HDTV/Component and Stereo Audio Matrix Switcher

Differential phase error	150 MHz (-3 dB), fully loaded <0.1º at 3.58 MHz and 4.43 MHz <0.1% at 3.58 MHz and 4.43 MHz <-50 dB @ 5 MHz	Nominal level MAV 62 Serie All other mod Max. level MAV 62 Serie All other mod
Number/signal type MAV 44/48/62/84/88 vi	deo 4, 6, or 8 composite video, depending on model	Input gain adjustn
Connectors MAV 44/48/62/84/88 vic MAV 44/48/62/84/88 S-vi Nominal level Min./max. levels Impedance Return loss MAV 62 Series All other models MAV 62 Series All other models All other models External sync (genlock)	<-30 dB @ 5 MHz Composite video: <-40 dB @ 0 to 10 MHz S-video: <-25 dB @ 0 to 10 MHz 1.5 V 5 V	Number/signal typ MAV 44/48/8. MAV 44/48/8. Connectors MAV 44/48/8. MAV 44/48/6. Impedance Gain errorNominal level Max. level (Hi-Z) MAV 62 Series
Number/Signal type MAV 44/48/62/84/88 vid MAV 44/48/62/87/88 S-vic	eo 2, 4, or 8 composite video, depending on model leo 2, 4, or 8 S-video, depending on model	All other mode Max. level (600 oh MAV 62 Series All other mode
MAV 44/48/62/84/88 S-vio Nominal level	<-30 dB @ 5 MHz S-video: <-25 dB @ 5 MHz Composite video: <-40 dB @ 5 MHz ±5 mV max. with input at 0 offset 15 mV typical (per output enabled with 70 ohm	Global Presets MAV 62 Series All other mode Serial control port. Baud rate and prot. Serial control pin co MAV 62 Series All other mode IR controller modul Program control
Genlock connectors	2 BNC female NTSC 3.58, NTSC 4.43, PAL, SECAM	Power
Gain MAV 44/48/84/88 Series MAV 62 Series	Adjustable; the default is unity Unbal. output: 0 dB; bal. output: +6 dB	Rack mount MAV 62 Series All other model
Frequency responseTHD + NoiseS/N	20 Hz to 20 kHz, ±0.5 dB 0.03% @ 1 kHz, 0.3% @ 20 kHz at nominal level >90 dB at max. output (unweighted) <-65 dB @ 20 kHz, <-80 dB @ 1 kHz or below 60 Hz, fully loaded	Enclosure type Enclosure dimensior MAV 62 Series .
Stereo channel separation MAV 62 Series All other models CMRR	>80 dB @ 20 Hz to 20 kHz	All other model
MAV 44/48/62/84/88 Audic Connectors MAV 44/48/84/88 RCA MAV 44/48/62/84/88 Audio Impedance MAV 62 Series	4 or 8 stereo, unbalanced 4, 6, or 8 stereo, balanced/unbalanced 4 or 8 pairs of female RCA (4, 6, or 8) 3.5 mm captive screw connectors, 5 pole >10k ohms unbalanced/balanced, DC coupled >18k ohms unbalanced, 24k ohms balanced, DC coupled	Product weight MAV 62 Series. All other model Shipping weight MAV 62 Series. All other model Listings Compliances MAV 62 Series. All other model NOTE: All nominal le

Nominal level	
MAV 62 Series	10 dBV (316 mV, consumer level)
All other models	Configurable: +4 dBu (1.23 V, professional
All other models	Configurable: +4 ubu (1.25 v, professional
Man lavel	level) or -10 dBV (316 mV, consumer level)
Max. level	400000000000000000000000000000000000000
MAV 62 Series	+19.5 dBu (balanced or unbalanced) at 1%
	THD+N
All other models	>+20 dBu (captive screw models) at 1%
	THD+N >+14 dRu /RCA models) at 1%
	THD+N
Input gain adjustment	THD+N –18 dB to +10 dB, adjustable per input;
	default = 0 dB.
NOTE: 0 dBu = 0.775 V(rms), 0 d	BV = 1 V(rms) 0 dRV ~ 2 dRu
11012: 0 000 - 0::75 1(1115), 0 0	BV = 1 V(1113), 0 dbV ≈ 2 dbd
Number/signal type	
MAV 44/48/84/88 RCA	4 or 9 stares uphalanced
NAN/ AA/A0/67/00 NCA	4 of 8 stereo, dilibalanced 2, 4 or 8 stereo, balanced/unbalanced
Camandan	2, 4 or 8 stereo, balanced/unbalanced
Connectors	
MAV 44/48/84/88 RCA	4 or 8 pairs of female RCA
MAV 44/48/62/84/88 Audio	(2, 4 or 8) 3.5 mm captive screw
	connectors, 5 pole
Impedance	50 ohms unbalanced, 100 ohms balanced
Gain error	<±0.1 dB channel to channel
Nominal level	Configurable: +4 dBu (1.23 V, professional
	level) or -10 dBV (316 mV, consumer level)
Max. level (Hi-Z)	,
	>+18 dBu, balanced; >+12 dBu, unbalanced
	at 104 TUD IN
All other models	. >+24 dBu, balanced; >+18 dBu, unbalanced
AR OURS HIGUES	at 1%THD+N
May lovel (600 ahm)	at 1701 ND+N
Max. level (600 ohm)	16 double to to 10 to
MAV 62 Series	. >+16 dBm, balanced; >+10 dBm,
AD -1 1.5	unbalanced at 1% THD+N
All other models	.>+19 dBm, balanced; >+13 dBm,
	unbalanced at 1% THD+N
	STORES CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONT
Clalad Barata	
Global Presets	
	11
MAV 62 Series	
All other models	. 16
All other models	. 16 . RS-232, 9-pin female D connector
All other models	. 16
All other models	. 16 . RS-232, 9-pin female D connector . 9600, 8 data bits, 1 stop bit, no parity
All other models	. 16 . RS-232, 9-pin female D connector . 9600, 8 data bits, 1 stop bit, no parity 2 = TX 3 = RX 5 = GND
All other models	. 16 . RS-232, 9-pin female D connector . 9600, 8 data bits, 1 stop bit, no parity 2 = TX 3 = RX 5 = GND
All other models	. 16 . RS-232, 9-pin female D connector . 9600, 8 data bits, 1 stop bit, no parity . 2 = TX, 3 = RX, 5 = GND . 2 = TX, 3 = RX, 5 = GND, 9 = hardwired IR
All other models	. 16 . RS-232, 9-pin female D connector . 9600, 8 data bits, 1 stop bit, no parity . 2 = TX, 3 = RX, 5 = GND . 2 = TX, 3 = RX, 5 = GND, 9 = hardwired IR
All other models	. 16 . RS-232, 9-pin female D connector . 9600, 8 data bits, 1 stop bit, no parity . 2 = TX, 3 = RX, 5 = GND . 2 = TX, 3 = RX, 5 = GND, 9 = hardwired IR
All other models	. 16 . RS-232, 9-pin female D connector . 9600, 8 data bits, 1 stop bit, no parity . 2 = TX, 3 = RX, 5 = GND . 2 = TX, 3 = RX, 5 = GND, 9 = hardwired IR IR 501 remote control (optional) (all models except MAV 62 Series) Extron's control/configuration program for
All other models	. 16 . RS-232, 9-pin female D connector . 9600, 8 data bits, 1 stop bit, no parity . 2 = TX, 3 = RX, 5 = GND . 2 = TX, 3 = RX, 5 = GND, 9 = hardwired IR IR 501 remote control (optional) (all models except MAV 62 Series) . Extron's Control/configuration program for Windows® Extron's Simple Instruction Set
All other models	. 16 . RS-232, 9-pin female D connector . 9600, 8 data bits, 1 stop bit, no parity . 2 = TX, 3 = RX, 5 = GND . 2 = TX, 3 = RX, 5 = GND, 9 = hardwired IR IR 501 remote control (optional) (all models except MAV 62 Series) Extron's control/configuration program for
All other models	. 16 . RS-232, 9-pin female D connector . 9600, 8 data bits, 1 stop bit, no parity . 2 = TX, 3 = RX, 5 = GND . 2 = TX, 3 = RX, 5 = GND, 9 = hardwired IR IR 501 remote control (optional) (all models except MAV 62 Series) . Extron's Control/configuration program for Windows® Extron's Simple Instruction Set
All other models	. 16 . RS-232, 9-pin female D connector . 9600, 8 data bits, 1 stop bit, no parity . 2 = TX, 3 = RX, 5 = GND . 2 = TX, 3 = RX, 5 = GND, 9 = hardwired IR IR 501 remote control (optional) (all models except MAV 62 Series) . Extron's Control/configuration program for Windows® Extron's Simple Instruction Set
All other models	. 16 . RS-232, 9-pin female D connector . 9600, 8 data bits, 1 stop bit, no parity . 2 = TX, 3 = RX, 5 = GND . 2 = TX, 3 = RX, 5 = GND, 9 = hardwired IR IR 501 remote control (optional) (all models except MAV 62 Series) Extron's control/configuration program for Windows® Extron's Simple Instruction Set (SIS™)
All other models	. 16 . RS-232, 9-pin female D connector . 9600, 8 data bits, 1 stop bit, no parity . 2 = TX, 3 = RX, 5 = GND . 2 = TX, 3 = RX, 5 = GND, 9 = hardwired IR IR 501 remote control (optional) (all models except MAV 62 Series) Extron's control/configuration program for Windows® Extron's Simple Instruction Set (SIS™) 100 VAC to 240 VAC, 50/60 Hz, 15 watts,
All other models	. 16 . RS-232, 9-pin female D connector . 9600, 8 data bits, 1 stop bit, no parity . 2 = TX, 3 = RX, 5 = GND . 2 = TX, 3 = RX, 5 = GND, 9 = hardwired IR IR 501 remote control (optional) (all models except MAV 62 Series) Extron's control/configuration program for Windows® Extron's Simple Instruction Set (SIS™)
All other models	. 16 . RS-232, 9-pin female D connector . 9600, 8 data bits, 1 stop bit, no parity . 2 = TX, 3 = RX, 5 = GND . 2 = TX, 3 = RX, 5 = GND, 9 = hardwired IR IR 501 remote control (optional) (all models except MAV 62 Series) Extron's control/configuration program for Windows® Extron's Simple Instruction Set (SIS™) 100 VAC to 240 VAC, 50/60 Hz, 15 watts, internal, autoswitchable
All other models	. 16 . RS-232, 9-pin female D connector . 9600, 8 data bits, 1 stop bit, no parity . 2 = TX, 3 = RX, 5 = GND . 2 = TX, 3 = RX, 5 = GND, 9 = hardwired IR IR 501 remote control (optional) (all models except MAV 62 Series) Extron's control/configuration program for Windows® Extron's Simple Instruction Set (SIS™) 100 VAC to 240 VAC, 50/60 Hz, 15 watts, internal, autoswitchable Yes, with optional 1U rack shelf.
All other models	. 16 . RS-232, 9-pin female D connector . 9600, 8 data bits, 1 stop bit, no parity . 2 = TX, 3 = RX, 5 = GND . 2 = TX, 3 = RX, 5 = GND, 9 = hardwired IR IR 501 remote control (optional) (all models except MAV 62 Series) Extron's control/configuration program for Windows® Extron's Simple Instruction Set (SIS™) 100 VAC to 240 VAC, 50/60 Hz, 15 watts, internal, autoswitchable Yes, with optional 1U rack shelf,
All other models	. 16 . RS-232, 9-pin female D connector . 9600, 8 data bits, 1 stop bit, no parity . 2 = TX, 3 = RX, 5 = GND . 2 = TX, 3 = RX, 5 = GND, 9 = hardwired IR IR 501 remote control (optional) (all models except MAV 62 Series) Extron's control/configuration program for Windows® Extron's Simple Instruction Set (SIS™) 100 VAC to 240 VAC, 50/60 Hz, 15 watts, internal, autoswitchable Yes, with optional 1U rack shelf, part #60-190-01 or 60-604-01 Yes, with included brackets, part #70-077-03
All other models Serial control port	. 16 . RS-232, 9-pin female D connector . 9600, 8 data bits, 1 stop bit, no parity . 2 = TX, 3 = RX, 5 = GND . 2 = TX, 3 = RX, 5 = GND, 9 = hardwired IR IR 501 remote control (optional) (all models except MAV 62 Series) Extron's control/configuration program for Windows® Extron's Simple Instruction Set (SIS™) 100 VAC to 240 VAC, 50/60 Hz, 15 watts, internal, autoswitchable Yes, with optional 1U rack shelf, part #60-190-01 or 60-604-01 Yes, with included brackets, part #70-077-03 Also furniture mountable with an optional
All other models Serial control port	. 16 . RS-232, 9-pin female D connector . 9600, 8 data bits, 1 stop bit, no parity . 2 = TX, 3 = RX, 5 = GND . 2 = TX, 3 = RX, 5 = GND, 9 = hardwired IR IR 501 remote control (optional) (all models except MAV 62 Series) Extron's control/configuration program for Windows® Extron's Simple Instruction Set (SIS™) 100 VAC to 240 VAC, 50/60 Hz, 15 watts, internal, autoswitchable Yes, with optional 1U rack shelf, part #60-190-01 or 60-604-01 Yes, with included brackets, part #70-077-03 Also furniture mountable with an optional under-desk mounting kit. part #70-222-01
All other models	. 16 . RS-232, 9-pin female D connector . 9600, 8 data bits, 1 stop bit, no parity . 2 = TX, 3 = RX, 5 = GND . 2 = TX, 3 = RX, 5 = GND, 9 = hardwired IR IR 501 remote control (optional) (all models except MAV 62 Series) Extron's control/configuration program for Windows® Extron's Simple Instruction Set (SIS™) 100 VAC to 240 VAC, 50/60 Hz, 15 watts, internal, autoswitchable Yes, with optional 1U rack shelf, part #60-190-01 or 60-604-01 Yes, with included brackets, part #70-077-03 Also furniture mountable with an optional under-desk mounting kit. part #70-222-01
All other models Serial control port	. 16 . RS-232, 9-pin female D connector . 9600, 8 data bits, 1 stop bit, no parity . 2 = TX, 3 = RX, 5 = GND . 2 = TX, 3 = RX, 5 = GND, 9 = hardwired IR IR 501 remote control (optional) (all models except MAV 62 Series) Extron's control/configuration program for Windows® Extron's Simple Instruction Set (SIS™) 100 VAC to 240 VAC, 50/60 Hz, 15 watts, internal, autoswitchable Yes, with optional 1U rack shelf, part #60-190-01 or 60-604-01 Yes, with included brackets, part #70-077-03 Also furniture mountable with an optional under-desk mounting kit, part #70-222-01 Metal
All other models Serial control port	. 16 . RS-232, 9-pin female D connector . 9600, 8 data bits, 1 stop bit, no parity . 2 = TX, 3 = RX, 5 = GND . 2 = TX, 3 = RX, 5 = GND, 9 = hardwired IR IR 501 remote control (optional) (all models except MAV 62 Series) Extron's control/configuration program for Windows® Extron's Simple Instruction Set (SIS™) 100 VAC to 240 VAC, 50/60 Hz, 15 watts, internal, autoswitchable Yes, with optional 1U rack shelf, part #60-190-01 or 60-604-01 Yes, with included brackets, part #70-077-03 Also furniture mountable with an optional under-desk mounting kit, part #70-222-01 Metal
All other models Serial control port Baud rate and protocol Serial control pin configurations MAV 62 Series All other models IR controller module Program control Power Rack mount MAV 62 Series All other models Linclosure type Enclosure dimensions MAV 62 Series MAV 62 Series	. 16 . RS-232, 9-pin female D connector . 9600, 8 data bits, 1 stop bit, no parity . 2 = TX, 3 = RX, 5 = GND . 2 = TX, 3 = RX, 5 = GND, 9 = hardwired IR IR 501 remote control (optional) (all models except MAV 62 Series) Extron's control/configuration program for Windows® Extron's Simple Instruction Set (SIS™) 100 VAC to 240 VAC, 50/60 Hz, 15 watts, internal, autoswitchable Yes, with optional 1U rack shelf, part #60-190-01 or 60-604-01 Yes, with included brackets, part #70-077-03 Also furniture mountable with an optional under-desk mounting kit, part #70-222-01 Metal 1.75" H x 8.75" W x 9.5" D (1U high, half
All other models Serial control port	. 16 . RS-232, 9-pin female D connector . 9600, 8 data bits, 1 stop bit, no parity . 2 = TX, 3 = RX, 5 = GND . 2 = TX, 3 = RX, 5 = GND, 9 = hardwired IR IR 501 remote control (optional) (all models except MAV 62 Series) Extron's control/configuration program for Windows® Extron's Simple Instruction Set (SIS™) 100 VAC to 240 VAC, 50/60 Hz, 15 watts, internal, autoswitchable Yes, with optional 1U rack shelf, part #60-190-01 or 60-604-01 Yes, with included brackets, part #70-077-03 Also furniture mountable with an optional under-desk mounting kit, part #70-222-01 Metal 1.75" H x 8.75" W x 9.5" D (1U high, half rack wide) 4.4 cm H x 22.2 cm W x 24.1 cm D
All other models Serial control port	. 16 . RS-232, 9-pin female D connector . 9600, 8 data bits, 1 stop bit, no parity . 2 = TX, 3 = RX, 5 = GND . 2 = TX, 3 = RX, 5 = GND, 9 = hardwired IR IR 501 remote control (optional) (all models except MAV 62 Series) Extron's control/configuration program for Windows® Extron's Simple Instruction Set (SIS™) 100 VAC to 240 VAC, 50/60 Hz, 15 watts, internal, autoswitchable Yes, with optional 1U rack shelf, part #60-190-01 or 60-604-01 Yes, with included brackets, part #70-077-03 Also furniture mountable with an optional under-desk mounting kit, part #70-222-01 Metal 1.75" H x 8.75" W x 9.5" D (1U high, half rack wide) 4.4 cm H x 22.2 cm W x 24.1 cm D
All other models Serial control port	. 16 . RS-232, 9-pin female D connector . 9600, 8 data bits, 1 stop bit, no parity . 2 = TX, 3 = RX, 5 = GND . 2 = TX, 3 = RX, 5 = GND, 9 = hardwired IR IR 501 remote control (optional) (all models except MAV 62 Series) Extron's control/configuration program for Windows® Extron's Simple Instruction Set (SIS™) 100 VAC to 240 VAC, 50/60 Hz, 15 watts, internal, autoswitchable Yes, with optional 1U rack shelf, part #60-190-01 or 60-604-01 Yes, with included brackets, part #70-077-03 Also furniture mountable with an optional under-desk mounting kit, part #70-222-01 Metal 1.75" H x 8.75" W x 9.5" D (1U high, half rack wide) 4.4 cm H x 22.2 cm W x 24.1 cm D 1.75" H x 17.4" W x 8.5" D (1U high, full
All other models Serial control port	. 16 . RS-232, 9-pin female D connector . 9600, 8 data bits, 1 stop bit, no parity . 2 = TX, 3 = RX, 5 = GND . 2 = TX, 3 = RX, 5 = GND, 9 = hardwired IR IR 501 remote control (optional) (all models except MAV 62 Series) Extron's control/configuration program for Windows® Extron's Simple Instruction Set (SIS™) 100 VAC to 240 VAC, 50/60 Hz, 15 watts, internal, autoswitchable Yes, with optional 1U rack shelf, part #60-190-01 or 60-604-01 Yes, with included brackets, part #70-077-03 Also furniture mountable with an optional under-desk mounting kit, part #70-222-01 Metal 1.75" H x 8.75" W x 9.5" D (1U high, half rack wide) 4.4 cm H x 22.2 cm W x 24.1 cm D 1.75" H x 17.4" W x 8.5" D (1U high, full rack wide) 4.4 cm H x 44.2 cm W x 21.6
All other models Serial control port	. 16 . RS-232, 9-pin female D connector . 9600, 8 data bits, 1 stop bit, no parity . 2 = TX, 3 = RX, 5 = GND . 2 = TX, 3 = RX, 5 = GND, 9 = hardwired IR IR 501 remote control (optional) (all models except MAV 62 Series) Extron's control/configuration program for Windows® Extron's Simple Instruction Set (SIS™) 100 VAC to 240 VAC, 50/60 Hz, 15 watts, internal, autoswitchable Yes, with optional 1U rack shelf, part #60-190-01 or 60-604-01 Yes, with included brackets, part #70-077-03 Also furniture mountable with an optional under-desk mounting kit, part #70-222-01 Metal 1.75" H x 8.75" W x 9.5" D (1U high, half rack wide) 4.4 cm H x 22.2 cm W x 24.1 cm D 1.75" H x 17.4" W x 8.5" D (1U high, full rack wide) 4.4 cm H x 44.2 cm W x 21.6 cm D (Depth excludes connectors. Width
All other models Serial control port	. 16 . RS-232, 9-pin female D connector . 9600, 8 data bits, 1 stop bit, no parity . 2 = TX, 3 = RX, 5 = GND . 2 = TX, 3 = RX, 5 = GND, 9 = hardwired IR IR 501 remote control (optional) (all models except MAV 62 Series) Extron's control/configuration program for Windows® Extron's Simple Instruction Set (SIS™) 100 VAC to 240 VAC, 50/60 Hz, 15 watts, internal, autoswitchable Yes, with optional 1U rack shelf, part #60-190-01 or 60-604-01 Yes, with included brackets, part #70-077-03 Also furniture mountable with an optional under-desk mounting kit, part #70-222-01 Metal 1.75" H x 8.75" W x 9.5" D (1U high, half rack wide) 4.4 cm H x 22.2 cm W x 24.1 cm D 1.75" H x 17.4" W x 8.5" D (1U high, full rack wide) 4.4 cm H x 44.2 cm W x 21.6
All other models Serial control port	. 16 . RS-232, 9-pin female D connector . 9600, 8 data bits, 1 stop bit, no parity . 2 = TX, 3 = RX, 5 = GND . 2 = TX, 3 = RX, 5 = GND, 9 = hardwired IR IR 501 remote control (optional) (all models except MAV 62 Series) Extron's control/configuration program for Windows® Extron's Simple Instruction Set (SIS™) 100 VAC to 240 VAC, 50/60 Hz, 15 watts, internal, autoswitchable Yes, with optional 1U rack shelf, part #60-190-01 or 60-604-01 Yes, with included brackets, part #70-077-03 Also furniture mountable with an optional under-desk mounting kit, part #70-222-01 Metal 1.75" H x 8.75" W x 9.5" D (1U high, half rack wide) 4.4 cm H x 22.2 cm W x 24.1 cm D 1.75" H x 17.4" W x 8.5" D (1U high, full rack wide) 4.4 cm H x 44.2 cm W x 21.6 cm D (Depth excludes connectors. Width excludes rack ears.)
All other models Serial control port Baud rate and protocol Serial control pin configurations MAV 62 Series All other models IR controller module Program control Power Rack mount MAV 62 Series All other models Enclosure type Enclosure dimensions MAV 62 Series All other models All other models Product weight MAV 62 Series	. 16 . RS-232, 9-pin female D connector . 9600, 8 data bits, 1 stop bit, no parity . 2 = TX, 3 = RX, 5 = GND . 2 = TX, 3 = RX, 5 = GND, 9 = hardwired IR IR 501 remote control (optional) (all models except MAV 62 Series) Extron's control/configuration program for Windows® Extron's Simple Instruction Set (SIS™) 100 VAC to 240 VAC, 50/60 Hz, 15 watts, internal, autoswitchable Yes, with optional 1U rack shelf, part #60-190-01 or 60-604-01 Yes, with included brackets, part #70-077-03 Also furniture mountable with an optional under-desk mounting kit, part #70-222-01 Metal 1.75" H x 8.75" W x 9.5" D (1U high, half rack wide) 4.4 cm H x 22.2 cm W x 24.1 cm D 1.75" H x 17.4" W x 8.5" D (1U high, full rack wide) 4.4 cm H x 44.2 cm W x 21.6 cm D (Depth excludes connectors. Width excludes rack ears.) 3.3 lbs (1.5 kg)
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All other models Serial control port	. 16 . RS-232, 9-pin female D connector . 9600, 8 data bits, 1 stop bit, no parity . 2 = TX, 3 = RX, 5 = GND . 2 = TX, 3 = RX, 5 = GND, 9 = hardwired IR IR 501 remote control (optional) (all models except MAV 62 Series) Extron's control/configuration program for Windows® Extron's Simple Instruction Set (SIS™) 100 VAC to 240 VAC, 50/60 Hz, 15 watts, internal, autoswitchable Yes, with optional 1U rack shelf, part #60-190-01 or 60-604-01 Yes, with included brackets, part #70-077-03 Also furniture mountable with an optional under-desk mounting kit, part #70-222-01 Metal 1.75" H x 8.75" W x 9.5" D (1U high, half rack wide) 4.4 cm H x 22.2 cm W x 24.1 cm D 1.75" H x 17.4" W x 8.5" D (1U high, full rack wide) 4.4 cm H x 44.2 cm W x 21.6 cm D (Depth excludes connectors. Width excludes rack ears.) 3.3 lbs (1.5 kg) 7.0 lbs (3.2 kg) 6 lbs (3 kg)
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FSM/FPM WALL MOUNTS 02™ MOUNTING SYSTEM

the focus:

Chief's FSM 4000 Series Static Wall Mount holds Small Flat Panel Displays close to the wall for an exceptionally slim appearance at an attractive price. Chief's FPM 4000 Series Pitch-Adjustable Wall Mount provides rigid pitch adjustment to help you achieve the optimum viewing angle for your Small Flat Panel Display. The FSM and FPM use Chief's Q2™ Mounting System for easy installation, stable mounting, quick release and optional security.

FEATURES

- Quick installation
- . Non-VESA® Compliant interface brackets available
- Includes interface bracket
- Ships assembled
- Low profile
- Display installs in portrait/landscape views
- Touchscreen compatible
- Two mounting methods: Single wall stud Drywall mounting
- 1" vertical or lateral shift
- Exclusive Q2™ Mounting System secures Small Flat Panel Display with a lockable latch
- VESA® Compliant see below for details

FSM SPECIFICATIONS

- Depth from Wall: 7/8"
- Overall Dimensions: H x W x D 7 5/8" x 5 5/8" x 7/8" / 193.7mm x 142.9mm x 22.22mm on most models
- Interface brackets compatible with all other 4000 Series products
- · Color: Silver Metallic
- · Weight Capacity: 45 lbs. stud mounted 30 lbs. drywall mounted.

FPM SPECIFICATIONS

- Depth from Wall: 1 1/2"
- Overall Dimensions: H x W x D 6 7/8" x 5 5/8" x 1 1/2" 174.6mm x 142.9mm x 38.1mm on most models
- Pitch Adjustments: Loosen screws to adjust pitch then retighten to secure. Interface brackets compatible with all other 4000 Series products (5 degrees up, 18 degrees down and set pitch for touchscreen use).
- Color: Silver Metallic
- · Weight Capacity: 45 lbs. stud mounted 30 lbs. drywall mounted

FAQ

- Q. What if my display is not listed on the cross-reference?
 - A. Chief's Q2™ mounts fit 75mm x 75mm and 100mm x 100mm VESA® compliant displays. If the mounting hole pattern on the back of your display matches either of these dimensions, order the 4100 Series model of the mount you want: FSM-4100 or FPM-4100. If your hole pattern does not reflect either of these standards, please contact Chief Customer Service at 1.800.582.6480 (domestic) / 952.894.6918 (international) to determine if Chief has a model to fit your display. Chief is constantly designing brackets to fit new displays on the market.
- Q. What if my display weighs 45 lbs. or more?
 - A. Chief also provides mounts for Large Flat Panel Displays that are 45 lbs. and heavier. See pages 25-45 for a variety of mounting solutions.

ORDERING STEPS

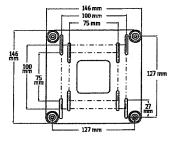
- 1. Determine the FSM/FPM model number you need by cross-referencing the manufacturer and model number of your Small Flat Panel Display. For the most recent cross-reference chart, visit www.chiefmfg.com or call Customer Service at 1.800.582.6480 (domestic) / 952.894.6280 (international).
- 2. Verify that your display meets the weight capacity.
- 3. Decide which accessories you need.

RECOMMENDED ACCESSORIES

Lockable latch with security flag and set screw......Page 23 FOR MORE ACCESSORIES SEE PAGES 17-24.

TECHNICAL INFORMATION

For product and technical information, visit www.chiefmfg.com.



VESA® is a Flat Panel Monitor **Physical Mounting Interface** (FPMPMI™)Standard. A VESA® hole pattern can be one of two sizes: 75mm x 75mm or 100mm x 100mm.

VESA®

Q2™ Mounting System

Quick, easy and versatile, Chief's exclusive Q2™ Mounting System is designed to make Small Flat Panel mounts exceptionally user-friendly. Q2^m uses self aligning mating components, a steel latching flag and an optional security accessory to help you easily guide, latch and lock your screen to the mount. Due to its universal mounting pattern, Q2™ allows you to install the display in either portrait or landscape mode, quickly and easily change out displays, or move a display between mounts.

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Technical Specifications

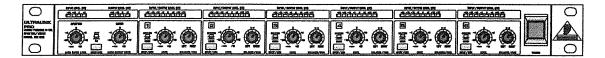
ENGLISH

Version 1.1 May 2000



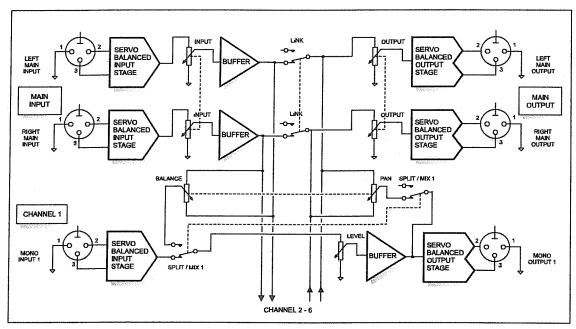
ULTRALINK PRO

Ultra-flexible, multi-purpose 8-channel Signal Router for stage and studio applications



- ▲ Use it as Effects Mixer, for P.A. Monitoring, Live Sound Systems, Theaters, Conference Rooms, Hotels, Churches, etc.
- Any channel can be selected either as Mixer or Splitter
- ▲ You can use it as 8-IN, 2-OUT Line Mixer
- ▲ You can use it as 2-IN, 8-OUT Line Splitter
- ▲ You can use it as 6-IN, 6-OUT Line Driver or DI-box
- ▲ You can use it as independent line driver to convert -10 dBV into +4 dBu or vice versa
- ▲ Extremely high headroom offering more dynamic range
- ▲ Ultra-wide bandwidth from 2 Hz to 200 kHz for "open" sound
- ▲ Offers you 6 mono inputs, 6 mono outputs, 2 main inputs and 2 main outputs
- ▲ Offers you 6 Input Level controls, 6 Balance/Pan controls, a Main Input and a Main Output control
- A Main Link switch allows you to route the Main Input to the Main Output to link several units
- ▲ Accurate 4 / 8-segment LED metering for each individual gain section
- ▲ Servo-balanced gold-plated XLR and 1/4" TRS inputs and outputs
- ▲ Completely versatile DI-Box due to servo-balanced inputs and outputs
- ▲ Ultra-low noise 4580 audio operational amplifiers for outstanding sound performance
- ▲ High-quality detented potentiometers and illuminated switches
- ▲ Manufactured under ISO9000 certified management system

BLOCK DIAGRAM



MAIN Section

Both main inputs interface via the MAIN INPUT LEVEL control with the input bus as well as with the main outputs. The MAIN OUTPUT LEVEL control determines the output level of the signals which are summed by the second bus (i.e., the output bus) and are subsequently routed to the main outputs.

SPLIT Mode

In SPLIT mode, the main input signal is sent via the BALANCE control to the output buffer amplifiers of the mono channels, with the LEVEL control determining the output level of the respective channel. The maximum gain is +15 dB.

MIX Mode

In MIX mode, the input signals of the mono channels are "collected" via the LEVEL and PAN controls and are routed to the output bus. In this mode, the LEVEL control determines the amount of each channel at the output bus, while the PAN control is responsible for the allocation of the input signal to the left and right main outputs.

Additionally, the input signal is routed to the respective mono outputs, i.e., the circuit acts as a matching amplifier. The LEVEL control allows for level compensation of up to +15 dB.

SPECIFICATIONS

AUDIO INPUTS

Connectors XLR and 1/4" jack

Type RF filtered, servo-balanced input

Impedance 50 kOhms balanced, 25 kOhms unbalanced

Nominal operating level -10 dBV to +4 dBu

Max. input level +21 dBu balanced and unbalanced CMRR Typ. 40 dB, > 55 dB @ 1 kHz

AUDIO OUTPUTS

Connectors XLR and 1/4" jack

Type electronically servo-balanced output stage Impedance 60 Ohms balanced, 30 Ohms unbalanced Max. output level +22 dBu balanced and unbalanced

SYSTEM SPECIFICATIONS

Frequency response 5 Hz to 200 kHz, +/- 3 dB

S/N ratio >95 dBu, unweighted, 22 Hz to 22 kHz THD 0.002 % typ. @ +4 dBu, 1kHz, gain 1

FUNCTION CONTROLS

Main input level variable
Main ouput level variable

Level variable for each channel Balance/pan placing in the stereo field

FUNCTION SWITCHES

Main Link links the main input signal to the main output Split/mix changeover from split to mix mode for each channel

INDICATORS

Input level (main) 4-digit LED display: -24/-12/0/+6 dB
Ouput level (main) 4-digit LED display: -24/-12/0/+6 dB

Input/output level 8-digit LED display: -24/-18/-12/-6/0/+6/+12/+18 dB

POWER SUPPLY

Mains Voltages USA/Canada 120 V ~, 60 Hz U.K./Australia 240 V ~, 50 Hz

Europe 230 V ~, 50 Hz
General export model 100 - 120 V ~, 200 - 240 V ~, 50 - 60 Hz

Power Consumption max. 35 Watts

Fuse 100 - 120 V ~: T 630 mA H

200 - 240 V ~: T 315 mA H

Mains Connection Standard IEC receptacle

PHYSICAL

Dimension app. 1 3/4" (44.5 mm) * 19" (482.6 mm) * 8.5" (217 mm)

Net Weight app. 3.0 kg Shipping Weight app. 3.8 kg

BEHRINGER is constantly striving to maintain the highest professional standards. As a result of these efforts, modifications may be made from time to time to existing products without prior notice. Specifications and appearance may differ from those listed or illustrated.



RK/BRK Wooden Studio Racks

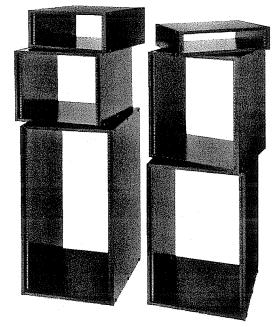
Middle Atlantic Products, Inc.

(EA) Compliant

The RK/BRK Series 19" Equipment Racks

Features

- High quality black laminate finish
- 5/8" furniture grade MDF board construction
- 11-gauge threaded rackrails, pre-installed
- · Assembles easily with included allen key
- Decorative screw caps and feet provided
- Available in 2 depths, 6 heights
- Caster kit available
- All assembly hardware included



RK/BRK's

Architects' and Engineers' Specification

- RK/BRK racks shall be MAP part # (B)RK-X (X=rack spaces required).
- The RK/BRK rack shall be constructed of the following materials:
 - 1.Rack rail shall be 11-gauge steel, with tapped 10-32 holes in universal E.I.A. spacing.
 - 2. Top, bottom & sides shall be 5/8" furniture grade MDF board.
 - 3. Assembly hardware shall be 2-1/4" joint connector screws.

- Black plastic screw caps shall snap in place, to cover the included hardware.
- · An allen key shall be included for assembly.

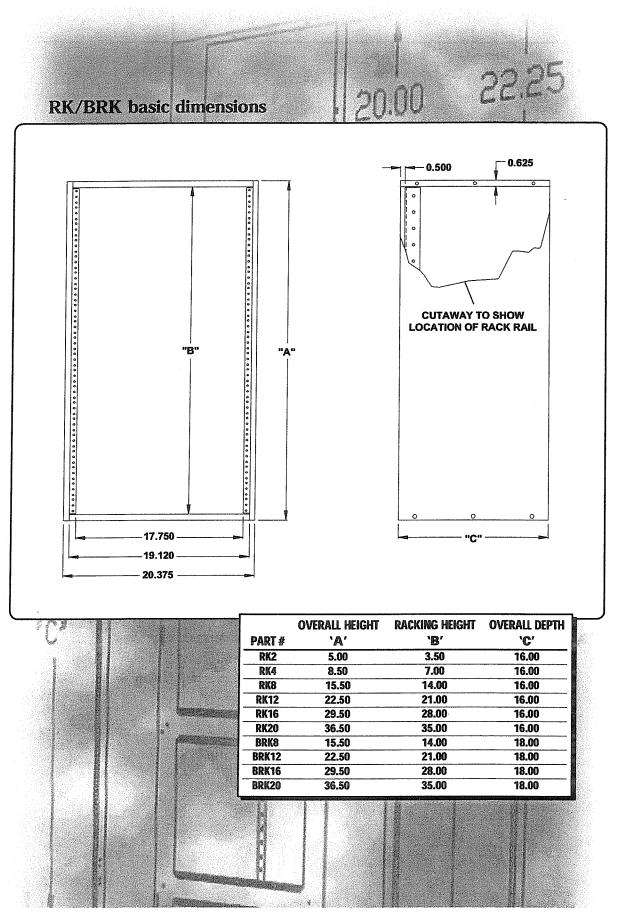
WEIGHT CAPACITY

Models are rated to 150 lb. weight capacity.

OPTIONS

· Casters, set of four, Part #RKW.

The RACK SYSTEM EXPERTS



North Corporate Drive, Riverdale, NJ 07457 • 420 Easy Street, Simi Valley, CA 93021 • 3802 West 128th Street, Alsip, IL 60803 Voice: 973-839-1011 Fax: 973-839-1976

96-976 / rev 3 / 12-12-03 / Slim Power Strips



www.middleatlantic.com

High density power strips feature a slim, low-profile design and staggered outlets to accommodate plug-in power supplies

Features

- UL and CSA listed
- Slim low-profile design requires less space
- Up to 24 outlets depending on model
- Outlets spaced to accommodate plug-in power supplies
- Light-weight anodized aluminum chassis
- (1) 15 amp circuit
- Circuit breaker or MOV surge & EMI filter & breaker protected, depending on model
- Mounting hardware included
- Includes 10' power cord terminated with NEMA 5-15P plug
- * For additional Vertical Power Strips, please see A&E Spec # 96-938



Architects' and Engineers' Specification

High density slim power strip shall be Middle Atlantic Products model #

PD-___ with __ outlets and 15 amps (refer to chart). Slim power strip shall be __" long x 1.25" deep x 1.6" wide and shall have __ NEMA 5-15R outlets in unique spacing pattern that allows up to __ plug-in power supplies (refer to chart). Slim power strip includes 15 amp __ protection and mounting hardware (refer to chart). Terminated with 10' power cord and NEMA 5-15P plug.

OPTIONS

Model # PB-XS, rackmounting bracket mounts any extra-short power strip (PD-815SC, PD-815SC-NS) between rackrail of any rack. Includes cable management tie points

electronic version available at www.middleatlantic.com

PD Series Slim power strips basic dimensions All dimensions in inches unless otherwise noted [All dimensions in brackets are millimeters] 1.44 [37] -1.25 [32] **TOP** 0 **VIEW** - 1.625 [41] 10' power cord with NEMA 5-15P plug **FRONT VIEW** 10 18.00 2.85 [457] [72] 1 1 accommodates plug-in power 1,1 ij supplies 1.82 [46] [: 1,1 l I 1,1 PD-815SC-NS, PD-815SC [] 7 2.85 [72] 60.00 accommodates [1524] plug-in power supplies 1,1 1 1 # OF PLUG-IN **OVERALL POWER SUPPLIES** 11 PART # CIRCUIT PROTECTION # OF OUTLETS LENGTH ACCOMMODATED PD-2415SC-NS 15 AMP (1) **CIRCUIT BREAKER** 60" [1524] 11 1 1 PD-2415SC 15 AMP (1) MOV SURGE + EMI FILTER + BREAKER 24 60" [1524] 11 PD-815SC-NS 8 15 AMP (1) CIRCUIT BREAKER 18" [457] 3 [] PD-815SC 15 AMP (1) 18" [457] MOV SURGE + EMI FILTER + BREAKER 3 l, PD-2415SC-NS, PD-2145SC