

Ashly 4.8SP

Ashly Protea 4.8SP 4 x 8 Loudspeaker System Processor User Manual

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Ashly Protea 4.8SP Loudspeaker System Processor. The Protea 4.8SP is a professional-grade digital signal processor designed for live sound environments and fixed installations, offering advanced audio processing capabilities for loudspeaker management.

2. SAFETY INFORMATION

Please read and understand all safety instructions before operating this device. Failure to do so may result in injury or damage to the equipment.

- **Power Source:** Connect the unit only to the specified AC power source (100-240VAC, 50-60Hz).
- **Ventilation:** Ensure adequate ventilation. Do not block ventilation openings.
- **Moisture:** Do not expose the unit to rain or moisture.
- **Servicing:** Refer all servicing to qualified service personnel.
- **Grounding:** Always ensure proper grounding to prevent electric shock.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Ashly Protea 4.8SP Loudspeaker System Processor
- Power Cord
- USB Cable
- User Manual (this document)

4. PRODUCT OVERVIEW

4.1 Front Panel

The front panel provides access to all essential controls and indicators for real-time monitoring and adjustments.



Figure 1: Front view of the Ashly Protea 4.8SP, showing the LCD display, input/output meters, navigation buttons, and USB port.

- **LCD Screen:** Displays current settings, menus, and parameters.
- **Input/Output Meters:** LED indicators for signal levels.
- **Navigation Buttons:** For menu navigation and parameter adjustment (Esc, Enter, Gain, EQ, Delay, Xover, Mute, Link).
- **USB Port:** For connecting to a computer for software control.
- **Input/Output Select Buttons:** To select specific channels for adjustment.

4.2 Rear Panel

The rear panel houses all audio input and output connectors, as well as power and communication ports.



Figure 2: Rear view of the Ashly Protea 4.8SP, showing balanced XLR inputs (A, B, C, D), balanced XLR outputs (1-8), USB port, RS-232 port, and AC power inlet.

- **Inputs (A, B, C, D):** Four balanced XLR input connectors.
- **Outputs (1-8):** Eight balanced XLR output connectors.
- **USB Port:** For connecting to a computer for software control.
- **RS-232 Port:** For serial communication and control.
- **AC Power Inlet:** For connecting the power cord.

5. SETUP

5.1 Physical Installation

The Protea 4.8SP is designed for standard 19-inch rack mounting. Ensure sufficient space for ventilation around the unit.

1. Mount the unit securely in a standard equipment rack using appropriate rack screws.
2. Allow at least 1U of space above and below the unit for proper airflow, especially in enclosed racks.

5.2 Audio Connections

Use high-quality balanced XLR cables for all audio connections.

1. Connect your audio source(s) (e.g., mixing console) to the **INPUTS (A, B, C, D)** on the rear panel.
2. Connect the **OUTPUTS (1-8)** on the rear panel to your power amplifiers or other audio destinations.

5.3 Power Connection

1. Ensure the unit's power switch is in the OFF position.
2. Connect the supplied power cord to the **AC Power Inlet** on the rear panel and then to a grounded AC outlet.

5.4 Software Installation (Optional)

For advanced control and programming, install the Ashly Protea software on your computer.

1. Download the latest Protea software from the official Ashly website: ashly.com/software-downloads/
2. Install the software following the on-screen instructions.
3. Connect your computer to the Protea 4.8SP using the supplied USB cable (either front or rear panel USB port).
4. Launch the Protea software to establish communication with the device.

6. OPERATING INSTRUCTIONS

6.1 Powering On/Off

- To power on, flip the power switch on the rear panel to the ON position.
- To power off, flip the power switch to the OFF position.

6.2 Front Panel Control

The LCD screen and navigation buttons allow direct control over all processing parameters.

- Use the **Input Select** buttons (A, B, C, D) to choose the input channel you wish to configure.
- Use the **Output Select** buttons (1-8) to choose the output channel.
- Press the dedicated function buttons (**Gain, EQ, Delay, Xover, Mute, Link**) to access specific processing blocks.
- Use the rotary encoder and **Enter/Esc** buttons to navigate menus and adjust parameter values displayed on the LCD.
- The **Recall** button allows loading saved presets, and **Save** allows storing current settings.

6.3 Software Control (Protea Software)

The Protea software offers a graphical user interface for intuitive and detailed control of all system parameters.

- Once connected via USB, the software will detect the 4.8SP.
- The software provides visual representations of crossovers, EQs, compressors, and delays, making configuration easier.
- You can create, save, and recall complex system configurations.
- **Password Protection:** The software allows you to set a password to protect your settings from unauthorized tampering.

6.4 Key Processing Features

- **Crossover:** Configure frequency division for multi-way loudspeaker systems.
- **EQ (Equalization):** Parametric and graphic EQ options for precise tonal shaping.
- **Compression/Limiting:** Dynamic range control to protect loudspeakers and maintain consistent levels.

- **Delay:** Time alignment for loudspeakers, crucial for phase coherence in complex systems.

7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Do not use liquid cleaners or solvents.
- **Ventilation:** Periodically check that ventilation openings are clear of dust and debris.
- **Cable Connections:** Ensure all audio and power cables are securely connected and free from damage.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No Power	Power cord disconnected; Power switch off; Blown fuse.	Check power cord connection; Ensure power switch is ON; Consult qualified technician for fuse replacement.
No Audio Output	Incorrect input/output routing; Mute engaged; Gain set too low; Faulty cables.	Verify routing in software or front panel; Check mute status; Increase gain; Test/replace cables.
Software Not Connecting	USB cable issue; Driver not installed; Software version mismatch.	Try a different USB port/cable; Reinstall Protea software and drivers; Ensure software is up-to-date.
Distorted Audio	Input/output levels too high (clipping); Incorrect processing settings.	Reduce input/output gain to prevent clipping (monitor meters); Review EQ, compression, and crossover settings.

9. SPECIFICATIONS

- **Model Name:** 4.8SP
- **Speaker Type:** Processor
- **Product Dimensions:** 8.5"D x 19"W x 3.5"H
- **Item Weight:** 9.39 Pounds
- **Connectivity Technology:** USB
- **Audio Output Mode:** Balanced Stereo
- **Mounting Type:** Rack Mount
- **Power Source:** Corded Electric
- **Audio Latency:** 682 Milliseconds
- **Processor Count:** 1
- **Manufacturer:** Ashly

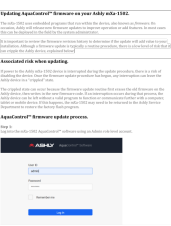
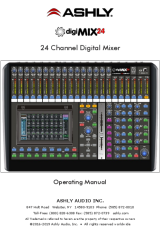
10. WARRANTY AND SUPPORT

The Ashly Protea 4.8SP comes with a Limited Warranty. For detailed warranty information, please refer to the warranty card included with your product or visit the official Ashly website.

For technical support, service, or further inquiries, please contact Ashly Audio directly:

- **Ashly Audio Website:** ashly.com/support/
- Refer to the website for contact information and the latest support resources.

Related Documents - 4.8SP

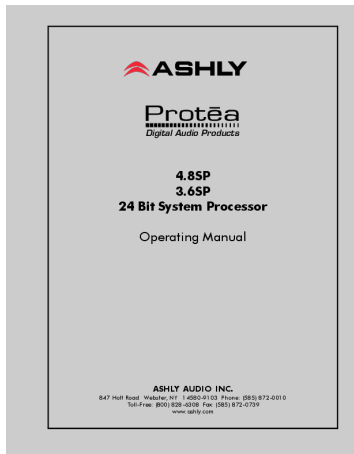
	Ashly Protea 4.8SP and 3.6SP DSP Loudspeaker System Processors Operating Manual Operating manual for the Ashly Protea 4.8SP and 3.6SP Digital Crossover/System Processors, detailing audio features, user interface, power requirements, front panel controls, interconnect features, software, troubleshooting, specifications, and warranty information.
	Ashly AQZ32 Audio Mixer Operating Manual Comprehensive operating manual for the Ashly AQZ32 16x16 Audio Mixer with Dante, detailing installation, software control, DSP functions, remote control options, and troubleshooting.
	Ashly mXa-1502 AquaControl™ Firmware Update Guide Detailed instructions for updating the AquaControl™ firmware on the Ashly mXa-1502 audio processor. Covers potential risks, backup procedures, and the step-by-step update process via the AquaControl™ software.
	AquaControl Simple Control Integration Guide A guide to integrating AquaControl systems using the Simple Control HTTP API, detailing endpoints, parameters, and usage examples for developers and AV integrators.
	Ashly FX Series Amplifier Firmware Update Guide A comprehensive guide on how to update the firmware for Ashly FX Series Amplifiers, including steps, risks, and best practices for a smooth update process.
	Ashly digiMIX24 Digital Mixer Operating Manual This operating manual provides comprehensive instructions for the Ashly digiMIX24 Digital Mixer, covering its features, controls, setup, and troubleshooting. It details standard and optional features, including digital audio options and iPad remote control.



[Ashly Protea 4.8SP and 3.6SP DSP Loudspeaker System Processors Operating Manual](#)

Operating manual for the Ashly Protea 4.8SP and 3.6SP Digital Crossover/System Processors, detailing audio features, user interface, power requirements, front panel controls, interconnect features, software, troubleshooting, specifications, and warranty information.

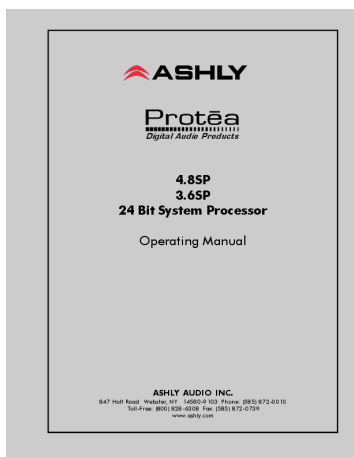
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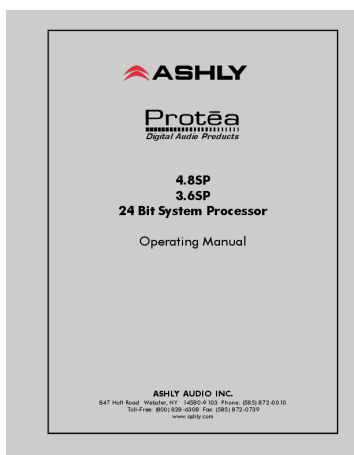
4.8SP 3.6SP 24-bitov digitln signlov procesor Nvod k obsluze Obsah 1. VOD

..... 4 1.1 Zpracovn signlu

..... 4 1.2 Uzivatelsk rozhran

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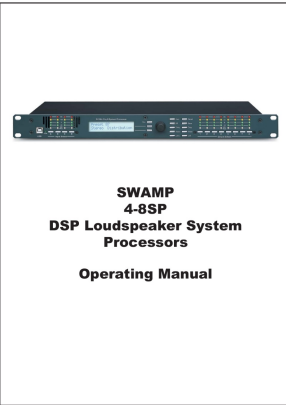
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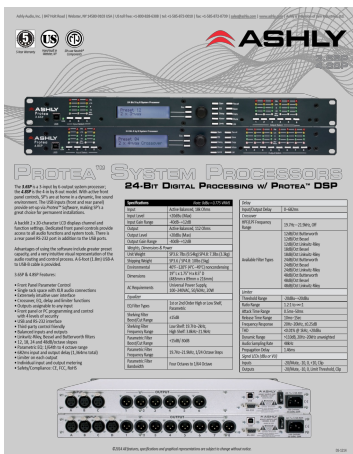
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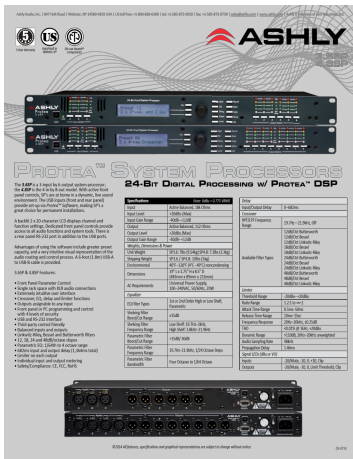
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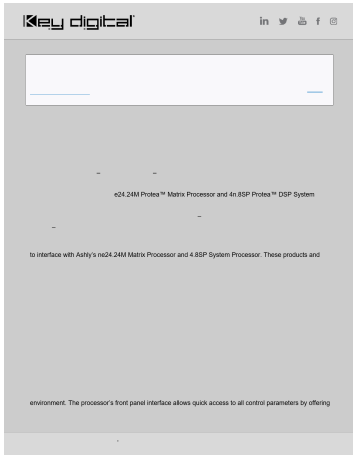


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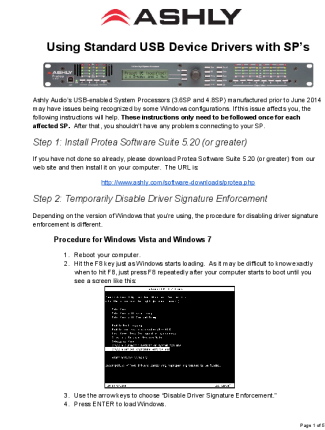
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Processors 3.6SP and **4.8SP** manufactured prior to June 2014 may have issues
being recognized by some Windows configurations. If this issue affects you, the
following instructions will help. These instructions only need to b...
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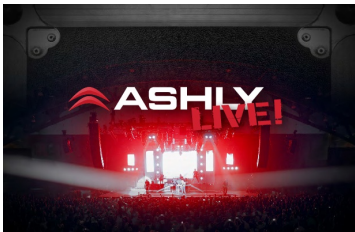
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Control system provides Protea™ users with multi-zone control via R...
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AQM408 Next generation speaker processor/ zone mixer INTUITIVE
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4.8SP and 3.6SP processors with the powerful DSP toolbox from the AQM1208
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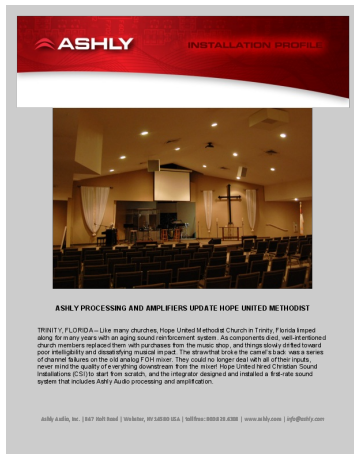


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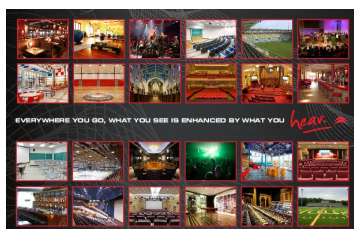


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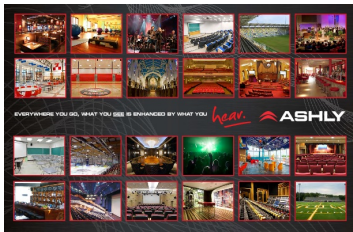


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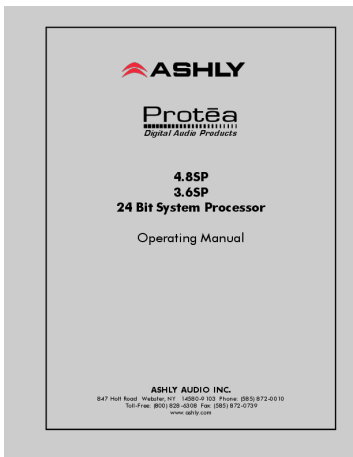
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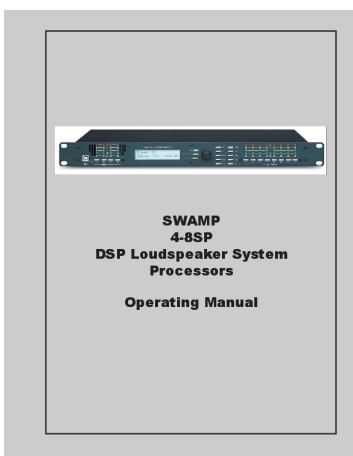
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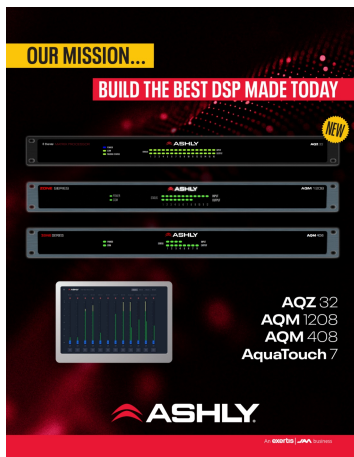
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Toll-Free: 800 828-6308 Fax: 585 872-0739 ashly.com Operating Manual -

PROTEATM **4.8SP** and 3.6SP System Processors Important Safety Instruction...

lang:en score:22 filesize: 1.89 M page_count: 16 document date: 2014-02-04



[\[pdf\]](#) Borchure

OUR MISSION 3 map 2025 r — the web no cloud account needed! to ensure everything runs smoothly Its 4 x 8 I O compliment and powerful DSP toolbox are 01 brochure app disp V07B ashly 03 |||

OUR MISSION... BUILD THE BEST DSP MADE TODAY NEW AQZ 32 AQM 1208 AQM 408 AquaTouch 7 AQZ 32 Matrix ... cision. AQM 408 Speaker Processor/Zone Mixer NEW Taking everything we learned from the historic **4.8SP** and 3.6SP Processors, mixed with the highly intuitive AquaControlTM software, the AQM408 is th...

lang:en score:22 filesize: 14.2 M page_count: 4 document date: 2025-01-31



[\[pdf\]](#) Troubleshooting Guide Datasheet

AQM408 DataSheet 06 24 appAshly DSP Prozessor für Installationen Pro Audio Technik400830

approaudio technik de media b7 c5 ba 400830 app herunterladenDSP Ashly ASAQM408Ashly

Technikmm audiotchnik 27 c6 1742809167 ts 1742809167proaudio ||| ||| AQM408 Next generation

speaker processor/ zone mixer INTUITIVE AQUACONTROL™ SOFTWARE REMOTE ACCESS

ANYWHERE The AQM408 is designed as an advanced, stand-alone speaker processor/zone mixer to be used with external amplification, offering th

AQM408 Next generation speaker processor/ zone mixer INTUITIVE

AQUACONTROL™ SOFTWARE REMOTE ACCES ... mote is the perfect

compliment to AquaControl products Next Generation DSP Combining the historic

4.8SP and 3.6SP processors with the powerful DSP toolbox from the AQM1208

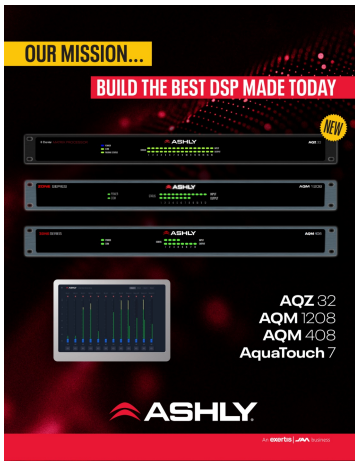
creates the best speaker p...

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 ASHLY 4SP, 3SP Control Panel		
Notes:		
1) 702-232 contacts : 1 Start BA, 2 Stop BA, 3 Stop BA, No Fault, 90000ms on, Cable length max 1.000 km (0.62 mi).		
2) 702-232 contacts (702, 1, 2, 3, 2, 2, 2, 2) are monitored, 1 is checked back from the Unit, 4 is earth connection.		
3) All "Report" messages come from the Unit to indicate a corresponding error message.		
4) Message types 15 to 20 are not supported. All local change requests via the 4's Unit are processed. However, local update messages are inhibited until a valid "Report" message is received, since the Unit has not been powered on.		
5) Message type 16 is the printing request (type 15, "Report"), and "Report" is ignored/pending by the ASHLY.		
Message Types		
ASHLY		
0 = Motor Request	10 = Limitin Message	20 = Power Recall
1 = Stop Request	11 = Stop Request	21 = Stop Request
2 = Stop Request	12 = Power Loss Message	22 = Device Name Request
3 = Stop Request	13 = New Working Power Name	23 = Group Name Request
4 = Power Name Request	14 = Data Point Data Request	24 = Group Name Download
5 = Power Name Response	15 = Local Limit Change Update	25 = Group Name Download
6 = Power Download	16 = Local Limit Change Update	26 = Group Name Download
7 = Power Download	17 = Local Limit Change Update	27 = Group Name Download
8 = HZ/F Request	18 = Local Limit Change Update	28 = Change Motor Message
9 = HZ/F Response	19 = Local Limit Change Update	29 = Change Motor Message
10 = Crossed or Filter Message	20 = Local Status Change Update	30 = Source Selection Message
		31 = BkUp Power Data

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[pdf] Datasheet Borchure

DatasheetAshly Audio AQZ 322025 01 DSP brochure app disp V07Bnoretroncommunication fi 2025 05 V07B |||

OUR MISSION... BUILD THE BEST DSP MADE TODAY NEW AQZ 32 AQM 1208 AQM 408 AquaTouch 7 AQZ 32 Matrix ... cision. AQM 408 Speaker Processor/Zone Mixer NEW Taking everything we learned from the historic **4.8SP** and 3.6SP Processors, mixed with the highly intuitive AquaControl software, the AQM408 is t... lang:en score:17 filesize: 14.2 M page_count: 4 document date: 2025-01-31

[pdf] Dimension Guide

Product Unit Weight -lbs -kg Ship Box Length -In ASHLY WEIGHTS DIMENSIONS CHART 1216 ashly 2016 12

Product CLX--52U digiMIX digiMIX Dante--32 option digiMIX USB--32 option FR--16 FR--8 GQX--3 ... nXp8002 nXe nXp8004 Pema 4125 Pema 4250 Pema 8125 Pema 8250 Protea 3.6SP Protea **4.8SP** rd--8c INA--1 RS 232 adaptor rw--8c sra--2075 sra--2150 sra--4075 sra--4150 TM--335E TM--...

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Product	Weight (lbs)	Weight (kg)	Box Length (in)
CLX--52U digiMIX	15.0	6.8	17.0
digiMIX Dante--32	15.0	6.8	17.0
option digiMIX USB--32	15.0	6.8	17.0
option FR--16	15.0	6.8	17.0
FR--8 GQX--3	15.0	6.8	17.0
nXp8002	15.0	6.8	17.0
nXe	15.0	6.8	17.0
nXp8004	15.0	6.8	17.0
Pema 4125	15.0	6.8	17.0
Pema 4250	15.0	6.8	17.0
Pema 8125	15.0	6.8	17.0
Pema 8250	15.0	6.8	17.0
Protea 3.6SP	15.0	6.8	17.0
Protea 4.8SP	15.0	6.8	17.0
rd--8c	15.0	6.8	17.0
INA--1	15.0	6.8	17.0
RS 232 adaptor	15.0	6.8	17.0
rw--8c	15.0	6.8	17.0
sra--2075	15.0	6.8	17.0
sra--2150	15.0	6.8	17.0
sra--4075	15.0	6.8	17.0
sra--4150	15.0	6.8	17.0
TM--335E	15.0	6.8	17.0
TM--	15.0	6.8	17.0



[pdf] Catalog

sig proc2 spk control fullcompass s catalog fw14 |||

crossovers speaker process controllers CX310 ART CX310/CX311 Crossovers These crossovers employ 2 ... Stereo 2- or 3-way/mono 4- or 5-way..... 499.00 3.6SP **4.8SP** ASHLY ProteaTM Digital SPEAKER PROCESSORS These easy-to-use, yet powerful processors offer su... lang:en score:16 filesize: 2.13 M page_count: 5 document date: 2014-09-04

Model	Description	MSRP
AQZ 32	32-Channel DSP Processor	1,200.00
AQM 1208	1208-Channel DSP Processor	1,200.00
AQM 408	408-Channel DSP Processor	1,200.00
AquaTouch 7	7-Channel DSP Processor	1,200.00
AW2.1P	2.1-Channel DSP Processor	1,200.00
AW3.2P	3.2-Channel DSP Processor	1,200.00
AW5.2T	5.2-Channel DSP Processor	1,200.00
AW5.2T W	5.2-Channel DSP Processor with Water	1,200.00
AW8.2T	8.2-Channel DSP Processor	1,200.00
CA1.02	1.02-Channel DSP Processor	1,200.00
CA1.04	1.04-Channel DSP Processor	1,200.00
CA1.52	1.52-Channel DSP Processor	1,200.00
CA1.54	1.54-Channel DSP Processor	1,200.00
CA502	502-Channel DSP Processor	1,200.00
CA504	504-Channel DSP Processor	1,200.00
FA1.2RM	1.2RM-Channel DSP Processor	1,200.00
FA125.2	125.2-Channel DSP Processor	1,200.00

[pdf] Price List

TIPS AV Price Lists IES COMMUNICATIONSAshly MSRP List Aug 2023iescomm files ugd 6a4d6f 63feaa8d89df41eaa12041f8e5c2b61a |||

Manufacturer Model Ashly 3.6SP Ashly **4.8SP** Ashly AQM-1208 Ashly AquaTouch 7 Ashly AW2.1P Ashly AW3.2P Ashly AW5.2T Ashly AW5.2T W Ashly AW8.2T Ashly AW8.2T W Ashly CA1.02 Ashly CA1.04 Ashly CA1.52 Ashly CA1.54 Ashly CA502 Ashly CA504 Ashly FA1.2RM Ashly FA125.2 ...

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