

EZ-SERIES AMPLIFIERS

Easy for customer use and fast for installation or portability



- Connectorized inputs
- Front panel controls
- Compressor / Limiter
- Includes power supply



EZ AMPLIFIER AND MIXER AMP



EZ-PA20

- 10 Watts per channel into 8 Ω
- RCA unbalanced input
- Selectable mono or stereo mode
- Compressor / Limiter included



EZ-MXA20

- 10 Watts per channel into 8 Ω
- 3 input channels
 - One XLR - mic level
 - Two stereo RCA - line level
- Bass and treble EQ
- Compressor / Limiter included

FLAT-PAK AMPLIFIERS



- All metal construction
- Mount anywhere with 4 screws
- Additional mounting options available
- 3 ½ inch / 8.89cm height (2RU)
- Various lengths



FP-PA18 SERIES



FP-PA18

- 18 Watts mono output into 8 Ω
- Includes sleep timer for standby mode:
 - Absence of audio signal starts timer
 - Timer settings: 5, 15, 25 minutes or off
 - Audio restores full power in 135 ms
- Line level input with adjustable gain
- Compressor / Limiter included
- Includes power supply



FP-PA18H

- High temperature power amplifier
- Operates in temperatures to 70°C /158°F
- Same features as FP-PA18 above except:
 - Full time operation / no sleep timer

FP-PA20 SERIES



FP-PA20

- 20 Watts mono output into 8 Ω
- Class AB amplifier
- Line level input with adjustable gain
- Compressor included
- VERY popular series



FP-PA20A

- 20 Watts mono output into 70 and 100 V
- Same features as FP-PA20



FP-PA20B

- 20 Watts mono output into 25 V
- Same features as FP-PA20

FP-PA35A



FP-PA35A

- 35 Watts mono output into 25/70/100 V
- Includes sleep timer for standby mode:
 - Absence of audio signal starts timer
 - Timer settings: 5, 15, 25 minutes or off
 - Audio restores full power in 135 ms
- Line level input with adjustable gain
- Compressor / Limiter included
- Includes power supply

HD SERIES

MEETS ENERGY STAR STANDARDS



Common Features – All Models

- Audio Power Amplifiers and Mixer Amplifiers
- All are 35 Watt in either 8 Ω or 25/70/100V (A models)
- VCA built in for remote volume control
- All have compressor/limiter for higher sound output
- Base and treble tone control
- Includes power supply

Common Features – Ultra Models

- Sleep Delay / Standby Timer
 - Timer activates with absence of any audio signal
 - Select in 10 minute increments up to 2 hours or off
 - Restores < 2 seconds when audio is detected

Energy Comparison

- Maximum power draw is 55 W versus industry standard of 90 W
- 1/3 Average power is 21 W versus industry standard of 55 W
- Idle mode is 4 W versus industry standard of 11 W
- Ultra models standby mode is .85 W versus NONE
- Cool operation – no ventilation or special cooling required

HD CALCULATOR

Available on www.rdlnet.com Product Page

ENERGY EFFICIENCY CALCULATOR

[Methodology](#)

Enter Parameters

Hours Per Day the Amplifier will be in Use:	24
kWH Demand Rate (including taxes/fees):	\$0.18
How many amplifiers will be installed?	1

Cost Savings	Per Amplifier	For QTY Installed
Annual Cost of Operation of a Standard Amplifier:	\$86.87	\$86.87
Annual Cost of Operation of HD-MA35A:	\$33.38	\$33.38
Annual Savings:	\$53.49	\$53.49
5 Year Savings:	\$267.43	\$267.43
10 Year Savings:	\$534.85	\$534.85
Reduction in Energy Usage:	62%	62%

Environmental Benefits

Annual CO2 Emissions Reduction (lbs.):	404	404
5 Year CO2 Emissions Reduction (lbs.):	2022	2022
10 Year CO2 Emissions Reduction (lbs.):	4043	4043

POWER AMPLIFIERS

Efficient and Ultra Efficient Single Channel Amplifiers



HD-PA35U / HD-PA35UA

- Non “A” model is 4 Ω or 8 Ω output
- “A” model is 25/70/100V output
- Sleep Delay / Standby Timer
- Unbalanced summed stereo line input
- Signal Presence LED Indicator



HD-PA35 / HD-PA35A

- Non “A” model is 4 Ω or 8 Ω output
- “A” model is 25/70/100V output
- Unbalanced summed stereo line input
- Alternate balanced mono input
- Signal Presence LED Indicator



Many optional remote level controls are available

EFFICIENT MIXER AMPLIFIERS

3 Channel Energy Efficient Models



HD-MA35 / HD-MA35A

- Input 1 is mic or line level
- Inputs 2 and 3 are summed stereo
- Input 1 is primary paging input
- Selectable ducking on channels 2 and 3
- Selectable 24V phantom power for mic
- Master volume control with optional remote
- Dual mono Zone 1 line level output

Separate Zone 2 output

- Independent 3 channel mixer
- 2 Watt 8 Ω amplified output
- 600 Ω transformer-isolated output



Many optional remote volume controls are available

ULTRA MIXER AMPLIFIERS

Ultra Efficient 4 Channel Models with Sleep Delay Timers



HD-MA35U / HD-MA35UA

- Inputs 1 and 2 are mic or line level
- Inputs 3 and 4 are summed stereo
- Input 1 is primary paging input
- Selectable ducking on channels 2,3 and 4
- Selectable 24V phantom power to each mic
- Master volume control with optional remote
- Dual mono Zone 1 line level output

Separate Zone 2 output

- Independent 4 channel mixer
- 4 Watt 8 Ω amplified output
- 600 Ω transformer-isolated output
- Balanced line level output



Many optional remote volume controls are available

REMOTE MIXER AMPLIFIERS

Ultra Efficient 4 Channel Models with Sleep Delay Timers



HD-RA35U / HD-RA35UA

- Channel 1 volume control on front panel
- Channels 2,3,4 remotely controlled - only
- Inputs 1 and 2 are mic or line level
- Inputs 3 and 4 are summed stereo
- Input 1 is primary paging input
- Selectable ducking on channels 2,3 and 4
- Selectable 24V phantom power to each mic
- Dual mono Zone 1 line level output

Separate Zone 2 output

- Independent 4 channel mixer
- 4 Watt 8 Ω amplified output
- 600 Ω transformer-isolated output
- Balanced line level output



Multi-channel optional remote volume controls are available

RACK-UP AMPLIFIERS



- 1/3 standard rack width
- One rack unit (RU) height
- Rack and other mounting options available



RACK-UP AMPLIFIERS



RU-PA518

- 5 Watts per channel output into 8 Ω
- 9 Watts per channel output into 4 Ω
- 18 Watts into 8 Ω bridged mono
- Built-In peak limiter
- Front adjustable gain controls



RU-PA40D

- 20 Watts per channel output into 8 Ω
- Stereo or mono operation
- Unbalanced and balanced line level inputs
- Individual adjustable gain controls
- Compressor/Limiter included
- VCA level control, requires optional remote
- Power supply included

STICK-ON AMPLIFIERS



- Small power amplifiers for multiple uses
- Great for single speaker applications
- Smaller than a business card, ½ inch thick
- Mounts anywhere
- “STICK-ON” with Velcro



STICK-ON AMPLIFIERS



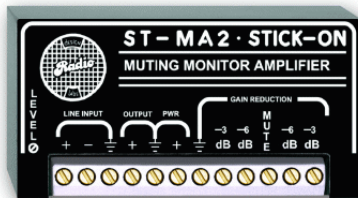
ST-PA2

- 2 Watts mono into 8 Ω and 600 Ω output simultaneously
- Adjustable gain control
- Unbalanced input
- Use for intercom or music-on-hold



ST-PA6

- 6 Watts mono into 8 Ω output
- Adjustable gain control
- Two balanced or unbalanced summing inputs
- Bass boost EQ



ST-MA2

- Single speaker monitor amplifier
- Externally controlled muting or level reduction
- 2 Watts mono into 8 Ω
- Adjustable gain control
- Balanced line input
- Used for automatic mixing systems

STICK-ON AMPLIFIER



ST-IC1

- Intercom amplifier
- Use two units for two way communication
- 1 Watt into 8 Ω or 45 Ω speaker
- Microphone input, phantom power option
- Push to talk operation
- Adjustable gain control



ST-PA18

- 18 Watts into 8 Ω
- Adjustable gain control
- Balanced or unbalanced line level input
- Compressor included
- Line level Loop Out to connect to additional amplifiers or other products

TX AMPLIFIERS



- Small power amplifiers
- Small form factor
- Mounts anywhere



TX-1W AMPLIFIER

1 Watt Amplifier



TX-1W

- Telephone System Music-on-Hold amplifier
- EQ specially designed for MOH
- Unbalanced line input
- Adjustable gain / attenuation (-10 to +25 dB)
- Balanced output at 600 Ω
- Unbalanced output adjustable up to 1 W

TX-PA40D AMPLIFIER

40 Watt Amplifier

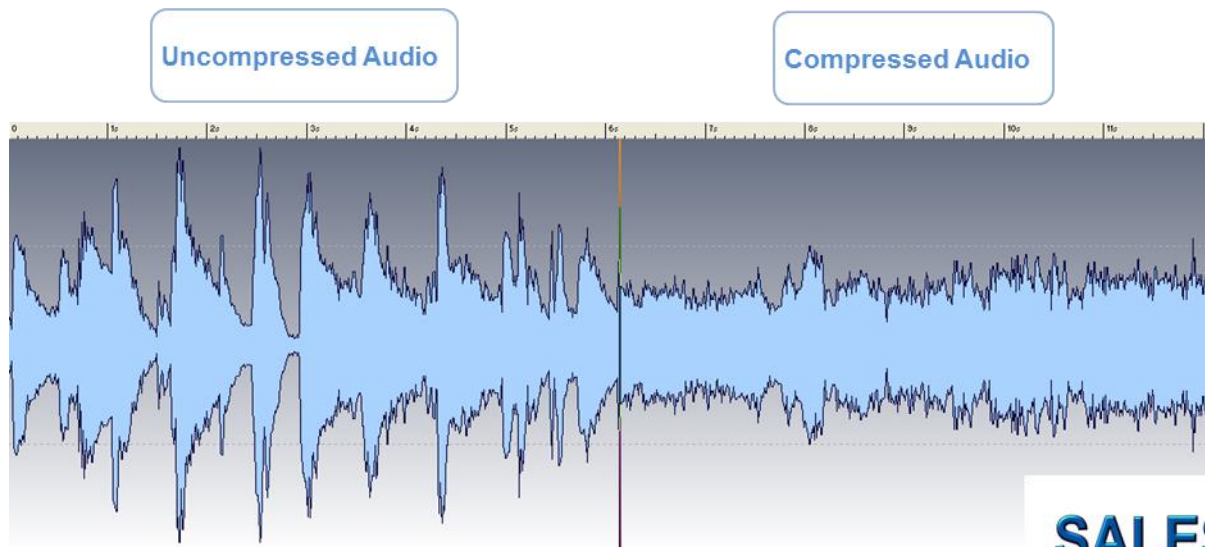


TX-PA40D

- 20 Watts per channel output into 8 Ω
- Stereo or mono operation
- Unbalanced line level inputs
- Individual adjustable gain controls
- Compressor / Limiter included
- Power supply included

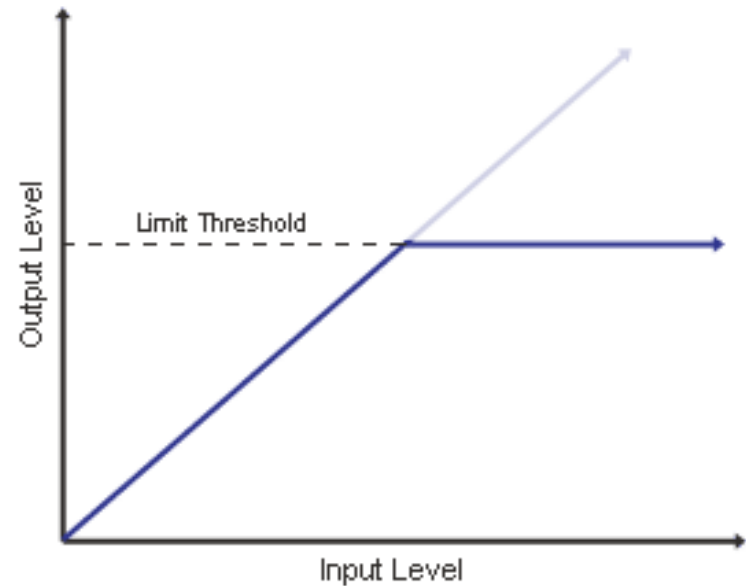
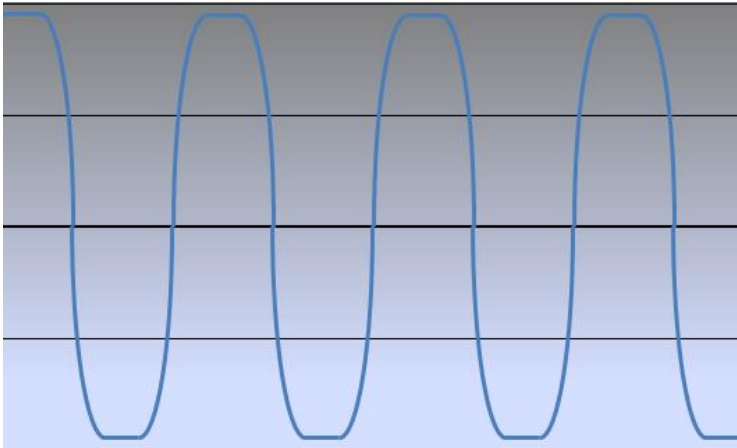
COMPRESSORS

- Prevents clipping or audio distortion
- Protects loudspeakers and amplifiers
- Reduces audio peaks to a lower level and boosts low levels
- Average volume levels can be increased without clipping



LIMITER

- Used for protection rather than audio processing
- Provides a hard limit for high level audio signals
- Protects electronic equipment
- Prevents damage to loudspeakers



STAND-ALONE COMPRESSORS



ST-CL2

- Mono line level compressor / limiter
- Fully automatic operation; adjusts threshold, compression ratio, attack and release
- Limiter and compressor work together
- Adjustable gain on input and output
- Two units can be coupled for stereo signals



EZ-MCP1

- Microphone level compressor
- Microphone level output
- Compatible with hard wired or wireless mics
- Prevents distortion from overly loud signals
- Improves low level pickup
- Resists feedback
- 24 V phantom power as required

HALF RACK SERIES

Studio Quality Microphone Pre-amplifier with COMPRESSOR



HR-MPC2

- Adjustable mic compressor to 25dB
- Inputs on XLR
- Outputs on XLR and/or terminal block
- Mic or line level out
- Selectable 48 Vdc phantom power
- Adjustable 20 to 60 dB gain control
- 15 dB pad (reduction) option
- 7 LED gain reduction meter per channel
- Single LED clip indicator per channel
- Low cut filter

The HR-MCP2 Dual Microphone Compressor...

- Provides Consistent Mic Levels Regardless of Speech Levels
- Prevents Distortion Prior to Mixer / Mic-preamp
- Improves Low-level Speech Intelligibility
- Provides the Clarity of RDL's Flagship Preamplifiers and the Control of a World Class Microphone Compressor
- Winner of Radio Magazines "PICK" Award at NAB 2012

PRODUCTS WITH COMPRESSORS

Integrated and fully automatic operation

Mixer Amplifiers and Amplifiers

EZ-MXA20

EZ-PA20

FP-PA18 / FP-PA18H

FP-PA20 Series (ALL)

FP-PA35A

HD-Series (ALL)

RU-PA40D

ST-PA18

TX-PA40D

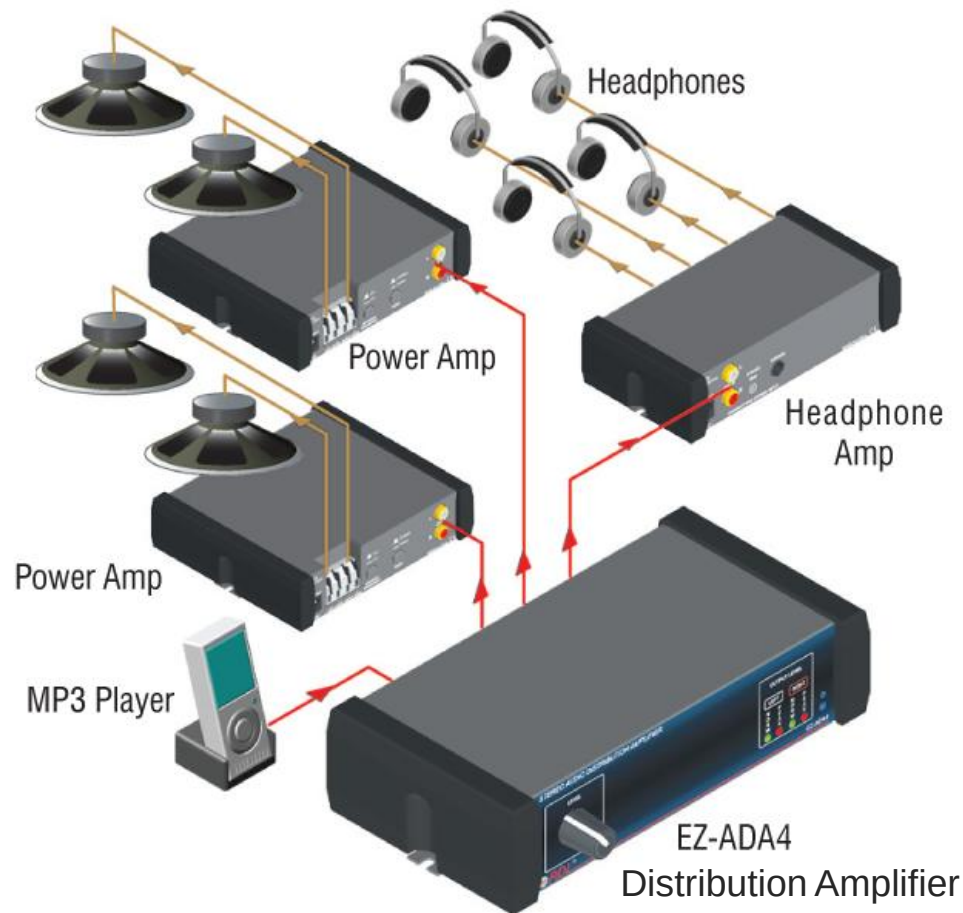
Standalone Mixers

RU-MX4 / RU-MX4T



DISTRIBUTION AMPLIFIERS

Duplicate Audio Signals to Multiple Outputs



RACK-UP DISTRIBUTION AMPS

Stereo or Mono Operation



RU-ADA4D



RU-ADA8D

- Stereo 1 x 4 or mono 1 x 8 DA
- Input gain adjust with Dual LED VU meter
- Individual output level adjustments
- Balanced or unbalanced line level signals
- Inputs and outputs on rear panel
- Audio isolated outputs prevent sharing of receiver generated noise

- Stereo 1 x 8 or mono 1 x 16 DA
- Same as RU-ADA4D above

RACK-UP DISTRIBUTION AMPS



RU-MLD4 / RU-MLD4T

- Mono 1 x 4 DA
- Microphone or line level input
- Each output can be mic or line level
- XLR or terminal block inputs and outputs
- Selectable phantom power
- Dual LED VU meter and input gain adjust
- T model adds studio quality output transformer for hum removal



RU-UDA4

- Stereo 1 x 4 DA
- Stereo input and outputs on RCA jacks
- Outputs match input level gain

EZ AUDIO DISTRIBUTION AMP



EZ-ADA4

- Stereo 1 x 4 DA
- Input is mini or RCA jacks
- Unbalanced outputs on RCA jacks
- Dual LED VU meter with level control
- Power supply included

STICK-ON DISTRIBUTION AMPS



ST-DA3

- Mono 1 x 3 DA
- Balanced or unbalanced line level signals
- Adjustable gain or attenuation
- RF protection on all lines
- THD+N less than .002%



STM-DA3

- Microphone level 1 x 3 studio quality DA
- Adjust gain with LED VU meter
- 24 V phantom power available
- Audio isolated outputs prevent sharing of receiver generated noise



STM-LDA3

- Mic pre-amplifier with 3 line level outputs
- Adjustable 40 to 60 dB gain
- LED VU meter for accurate +4 dBu adjustment
- Balanced or unbalanced outputs
- 24 V phantom power available

PASSIVE DISTRIBUTORS

Microphone, Consumer and Professional Line Level Divider / Combiners



STD-10K



STD-600



STD-150

STD Series Common Features:

- Divider / Combiners are used to distribute or mix audio signals
- Use any combination of up to four total inputs or outputs
- Balanced or unbalanced conversion
- RF filtering on each channel
- Passive – no power required

Typical use:

- STD-10K - consumer line level; -10 dBV
- STD-600 - professional line level; +4 dBu
- STD-150 - microphone level; -65 to -35 dBu

AV PAK AND TX DISTRIBUTORS



AV-DC4

- Divider / Combiner is used to distribute or mix line level signals
- Balanced XLR inputs and outputs
- Use any combination of up to four total inputs or outputs
- RF filtering on each channel
- Passive – no power required
- Selectable hum removal per channel



TX-MX2R

- Audio distributor / mixer
- Stereo or two mono unbalanced inputs
- 2 mono unbalanced outputs
- Individual input gain adjustments

HEADPHONE DISTRIBUTORS



EZ-HDA4A

- Stereo 1 x 4 headphone DA
- Mini headphone outputs on front
- Separate volume controls for each headset
- Inputs are mini, 1/4 inch (6.3 mm) or RCA
- Power supply included



EZ-HDA4B

- Same features as EZ-HDA4A except:
- Mini headphone outputs on rear

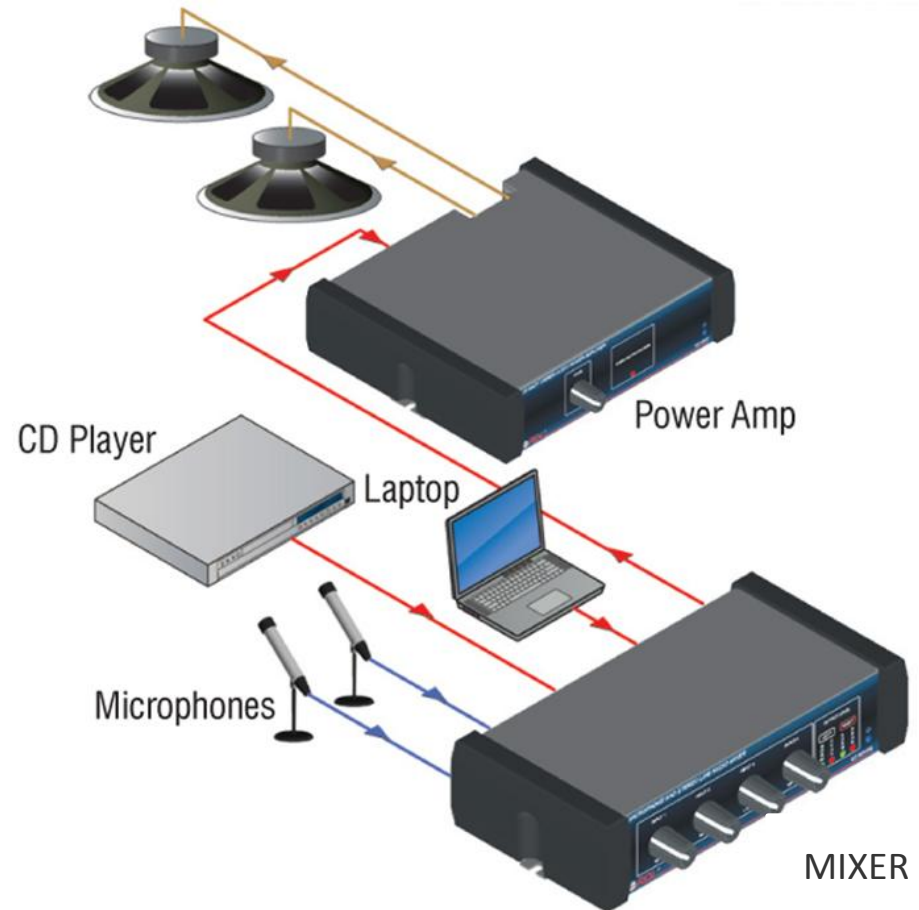


EZ-HDA6

- Stereo 1 x 6 headphone DA
- 1/4 inch (6.3 mm) headphone outputs on rear
- Separate volume controls for each headset
- Inputs are mini, 1/4 inch (6.3 mm) or RCA
- 1/4 inch (6.3 mm) loop out for expansion
- Power supply included

MIXERS

- Mixers combine audio signals from multiple sources
- Provide a volume level control for each source
- Some mixers are designed to be frequently adjusted, others are simply adjusted and set
- Outputs typically feed the inputs of power amplifiers, recording devices or broadcast equipment



MIXER FORM FACTORS

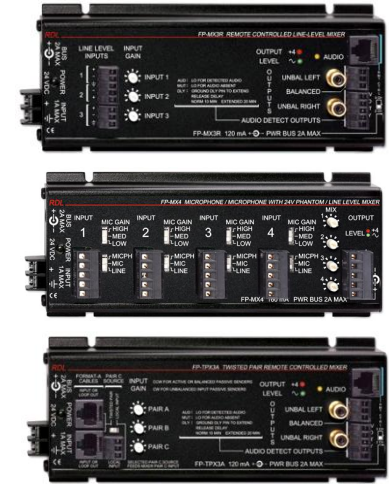
RACK-UP



EZ Series



FLAT-PAK



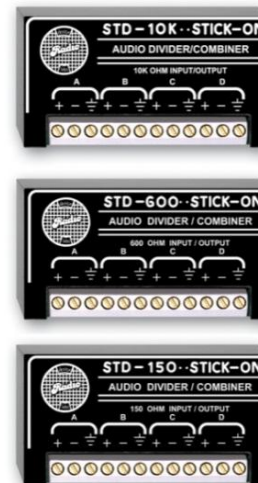
TX Series



STICK-ON Active



STICK-ON Passive



AV-PAK



RACK-UP



RU-MX4 / RU-MX4T

- 4 channel studio quality mixer
- Microphone or line level inputs, RCA or XLR
- Selectable phantom power per channel
- Switchable Compressor / Limiter
- Mic or line level output
- Dedicated direct input; links multiple mixers



RU-MX4L / RU-MX4LT

- 4 channel studio quality mixer
- Line level inputs only, RCA or XLR
- Mic or line level output
- Dedicated direct input; links multiple mixers

T models add a transformer for hum elimination



RU-MX5ML

- 5 channel mixer
- 4 microphone or line level inputs
- 1 additional line level input
- Selectable phantom power per mic channel
- Mic or line level output
- Detachable terminal blocks for all connections

EZ SERIES

Front panel controls for individual channel volume adjustment



EZ-MX4L

- 4 channel stereo mixer
- Unbalanced stereo inputs and outputs
- RCA inputs on channels 1 - 3
- Mini or RCA input on channel 4
- Mini or RCA outputs



EZ-MX4ML

- 4 channel mixer
- 2 microphone inputs
- 2 unbalanced stereo inputs on RCAs
- Mini or RCA input on channel 4
- RCA stereo outputs

FLAT-PAK



FP-MX3R

- 3 channel remote controlled mono mixer
- Balanced or unbalanced inputs
- Adjustable gain controls
- Requires a 2 or 3 channel VCA remote control
- 1 balanced and 2 unbalanced outputs



FP-TPX3A

- 3 channel Format-A Twisted Pair remote controlled mixer
- Same features as the FP-MX3R except:
 - Receives audio from Format-A Twisted Pair senders
 - RJ-45 loop through for expansion



FP-MX4

- 4 channel studio quality mixer
- Mic or line level inputs
- Adjustable gain controls
- Both mic and line level outputs

TX MIXER/COMBINERS



TX-J2



TX-LC2



TX-MX2R

- Two channel mixer
 - Combine single stereo input to mono
 - Convert unbalanced to balanced
 - Adjustable output gain
 - Active; requires power
-
- Combine stereo to mono
 - Convert unbalanced to balanced
 - Passive; no power required
-
- Two channel mixer
 - Gain control for each input
 - Two unbalanced mono outputs
 - Active; requires power

STICK-ON ACTIVE



ST-MX2

- Two channel mic or line level mixer
- Adjustable gain on each input
- Use mic and line outputs simultaneously
- Dual LED VU output meter



ST-MX3

- Three channel line level mixer
- Adjustable gain on each input
- Combine unbalanced or balanced signals



ST-UMX3

- Three channel mixer
- Selectable mic or line inputs and outputs
- Adjustable gain on each input
- Dual LED VU output meter

STICK-ON PASSIVE



STD-10K



STD-600



STD-150

STD Series Common Features:

- Combiner / Divider
- Mixes and / or distributes signals
- Use any combination of up to four total inputs or outputs
- Balanced or unbalanced inputs and outputs
- RF filtering on each input
- Passive – no power required

Typically used for:

- STD-10K - consumer line level; -10 dBV
- STD-600 - professional line level; +4 dBu
- STD-150 - mic level; -65 to -35 dBu

AV-PAK



AV-DC4

- Divider / Combiner
- Distributes and / or mixes line level signals
- Balanced XLR inputs and outputs
- Use up to four connectors at one time
- RF filtering on each input
- Passive – no power required
- Selectable hum removal per channel

MONITORING & METERING



MONITOR

Rack Mount Audio Monitor Panel



RM-MP12A

- Listen to single or multiple input sources
- 12 individual line or speaker level inputs; +4 dBu, -10 dBV, 25/70/100 V, 8 or 4 Ohms
- Signal presence LED per input
- LED indicator identifies selected source(s)
- Master LED VU meter
- Built-in amplifier and speaker
- Front panel headphone jack

METERING



RU-SM16

- Two channel precision audio level metering
- Each meter can independently display either peak hold signals or average level signals
- Feed a mono source to both meters
- Individual calibration on each meter

AUDIO TEST SIGNAL GENERATORS



PT-AMG2

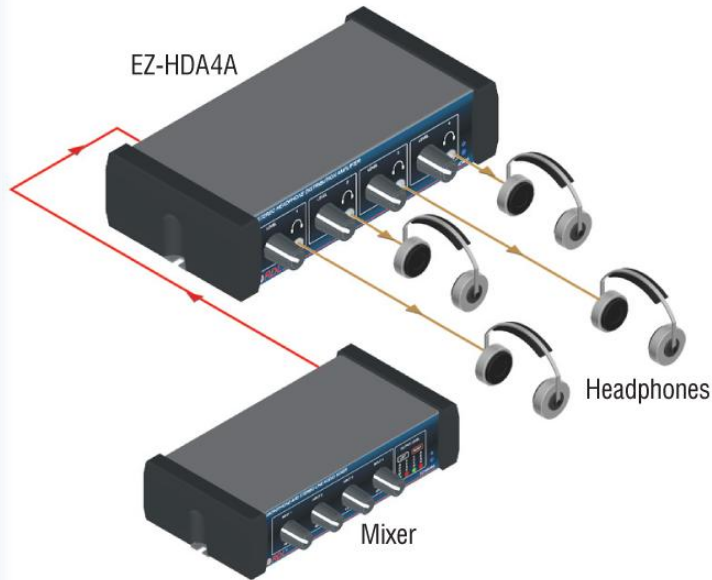


PT-ASG1

- Portable audio signal generator, meter and speaker
- Selectable mic or line inputs and outputs
- Generates a 700 Hz tone
- Balanced and unbalanced inputs / outputs
- Meter to +4dBu or -10dBV
- Phase indicator LED to confirm correct wiring
- 9 V battery operation or optional power supply
- Includes base / wall mount and test leads

- Signal Generator
- 700 Hz tone
- Balanced and unbalanced outputs
- 9 V battery operation or optional power supply
- Includes base / wall mount and test leads
- Ideal companion to the PT-AMG2

HEADPHONE AMPLIFIERS



- Adjusts audio levels for headphones
- Frequently used by:
 - Broadcast and recording professionals
 - Language lab students
 - Translators
 - Transcribers
 - Anywhere headphones are used



DECORA

Wall or Desktop Mount



D-SH1

- 1/4 inch (6.3mm) TRS headphone jack
- Balanced or unbalanced inputs
- Mono or stereo operation
- High or low input gain selector
- VCA volume control; long life, no noise



D-SH1M

- Stereo mini headphone jack
- Same features as D-SH1

APPFLEX



AF-SH1

- RDL exclusive form factor
- 1/4 inch (6.3mm) TRS headphone jack
- Mono or stereo operation
- Balanced or unbalanced inputs
- High or low input gain selector
- VCA volume control; long life, no noise
- Desktop, wall, rack mounting and additional accessories available

EZ SERIES



EZ-HDA4A

- 1 x 4 stereo headphone distribution amp
- Mini headphone outputs on front
- Inputs are mini, 1/4 inch (6.3 mm) or RCA
- Separate volume controls for each headset
- Power supply included



EZ-HDA4B

- Same features as EZ-HDA4A except:
- Mini headphone outputs on rear



EZ-HDA6

- 1 x 6 stereo headphone distribution amp
- 1/4 inch (6.3 mm) headphone outputs on rear
- Inputs are mini, 1/4 inch (6.3 mm) or RCA
- 1/4 inch (6.3 mm) loop out for expansion
- Separate volume controls for each headset
- Power supply included

RACK-UP HEADPHONE AMPLIFIER



RU-SH1

- 1/4 inch (6.3mm) TRS headphone jack
- Mono or stereo operation
- 1/3 rack mount form factor
- Balanced or unbalanced inputs
- High or low input gain selector
- VCA volume control; long life, no noise



Table Mount

STICK-ON



ST-SH2

- Stereo headphone amplifier
- Balanced or unbalanced line inputs
- Drives high or low impedance headsets
- Can be hard wired to a headphone jack
- L and R independent gain control
- External volume control capability

RDL FORM FACTORS

SPECIFIC SHAPES DESIGNED FOR COMMERCIAL A/V INSTALLATION REQUIREMENTS

- RDL products are offered in several form factors
 - Some are rack mountable
 - Some will mount to any flat surface
 - Some are portable
 - Some can be easily hidden
- Multiple mounting options available for all form factors



RACK-UP



DECORA



HD SERIES



STICK-ON



FLAT-PAK



TX



HALF RACK

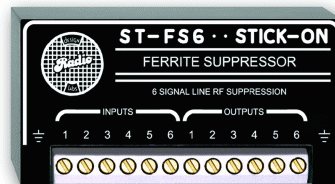


EZ SERIES



STICK-ON

- Most recognized small and unique RDL module format
- “Stick-On” any surface such as wall, podium or to other equipment
- Ships with Dual-Lock (industrial velcro)
- Mostly installed and adjusted without further handling
- Low power or passive (no power required) modules
- Optional detachable terminal block (DTB) for installation convenience



TX SERIES

- Rugged construction, compact size
- Maximum one rack unit (RU) high
- Two mounting screws on rear for TX mounting options
- Typically adjusted and set during installation
- Some are passive, others require power



RACK UP

- 1/3 rack width, one standard rack unit (RU) high
- Typically rack mounted, wall, surface and DIN rail adaptors available
- Studio, broadcast and commercial products



FLAT-PAK

- Install on any flat surface, din rail or rack mount
- Two standard rack units (RU) high
- Length and depth vary
- Rugged all metal construction



EZ SERIES

- Connectorized products
- Easy for customer use and fast for installation
- Tabletop, direct surface mount or rack mounting
- One standard rack unit (RU) high, 1/3 or 1/6 rack width
- Light weight aluminum chassis, gold plated connectors
- Power supplies included



HD SERIES

- HD = Half rack width, Double rack unit (RU) height, two depths
- Newest form factor for mixer amplifiers and amplifiers
- Exceeds Energy Star standards



HALF RACK

- Half rack width, one rack unit (RU) high
- Studio and broadcast quality products



MISCELLANEOUS

- Decora sized products - conform to industry standard installation specifications
- APPFLEX Series - fit single gang wall mount boxes or RDL desktop chassis
- AV-PAK Series - product sizes vary, typically all aluminum construction
- AMS - Accessory Mounting System for custom configurable panels
- Various desktop chassis, surface mount boxes and cover plates available

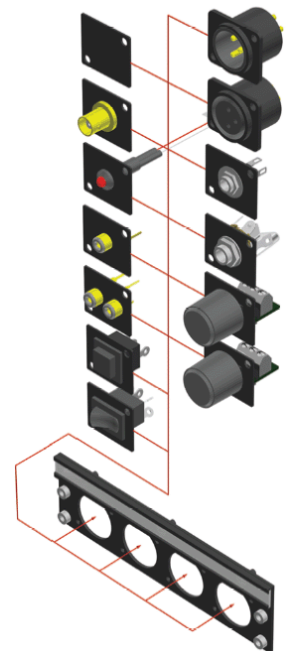
Decora



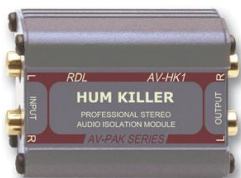
APPFLEX



AMS



AV-PAK



Desktop Chassis



New RDL Website

Highlighted Features



RDL[®]
Radio Design Labs

http://www.rdltest.com/ RDL Homepage

RDL
Radio Design Labs

Products Applications Company Reference Tech Tips Contact

Language Sales Reps International Distributors Products A-Z Login Search

Featured Products

EZ-MCP1



HD-MA35UA



HR-MP2



PT-AMG2



PT-AMG2

Portable Audio Signal Generator & Monitor



learn more

SOURCEFLEX
AUDIO SYSTEM

more

RCX
ROOM COMBINING

more

2011-2012
Catalog

view

HD SERIES
The Amplifier that
Pays for Itself

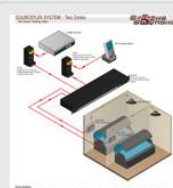
calculate your savings

A/V System Applications

Sourceflex System - Two Zones
Two Room Tanning Salon

Prioritized Paging
Paging from Multiple Locations

Intercom using single remote speaker
Speaker Serves Dual Duty as Microphone and Speaker



View Diagram

Latest News

RDL Blog

Control One Audio Level From Multiple Locations

More Phantom Power to You

RDL's Secret Test Arsenal

Systems and Interactive Digital Catalog

Newsletter and Articles of Interest

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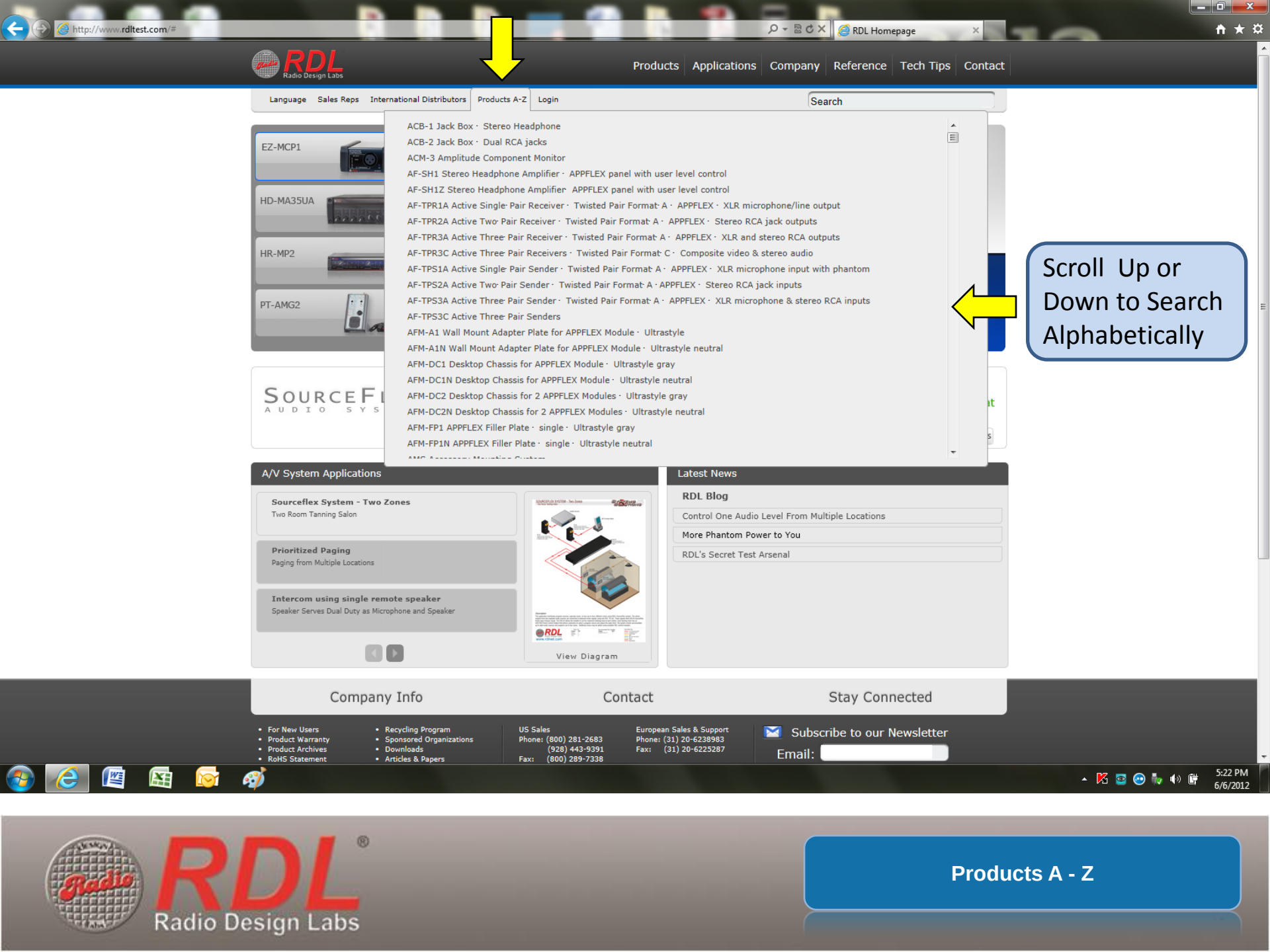
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- ACB-1 Jack Box · Stereo Headphone
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- ACM-3 Amplitude Component Monitor
- AF-SH1 Stereo Headphone Amplifier · APPFLEX panel with user level control
- AF-SH1Z Stereo Headphone Amplifier · APPFLEX panel with user level control
- AF-TPR1A Active Single Pair Receiver · Twisted Pair Format: A · APPFLEX · XLR microphone/line output
- AF-TPR2A Active Two Pair Receiver · Twisted Pair Format: A · APPFLEX · Stereo RCA jack outputs
- AF-TPR3A Active Three Pair Receiver · Twisted Pair Format: A · APPFLEX · XLR and stereo RCA outputs
- AF-TPR3C Active Three Pair Receivers · Twisted Pair Format: C · Composite video & stereo audio
- AF-TPS1A Active Single Pair Sender · Twisted Pair Format: A · APPFLEX · XLR microphone input with phantom
- AF-TPS2A Active Two Pair Sender · Twisted Pair Format: A · APPFLEX · Stereo RCA jack inputs
- AF-TPS3A Active Three Pair Sender · Twisted Pair Format: A · APPFLEX · XLR microphone & stereo RCA inputs
- AF-TPS3C Active Three Pair Senders
- AFM-A1 Wall Mount Adapter Plate for APPFLEX Module · Ultrastyle
- AFM-A1N Wall Mount Adapter Plate for APPFLEX Module · Ultrastyle neutral
- AFM-DC1 Desktop Chassis for APPFLEX Module · Ultrastyle gray
- AFM-DC1N Desktop Chassis for APPFLEX Module · Ultrastyle neutral
- AFM-DC2 Desktop Chassis for 2 APPFLEX Modules · Ultrastyle gray
- AFM-DC2N Desktop Chassis for 2 APPFLEX Modules · Ultrastyle neutral
- AFM-FP1 APPFLEX Filler Plate · single · Ultrastyle gray
- AFM-FP1N APPFLEX Filler Plate · single · Ultrastyle neutral
- AMP-1 Active Monitor System



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New Products

Accessories

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General Wiring Accessories
Half-Rack Mounting Accessories
HD Series Mounting Accessories
Pole Mounting Accessories
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Broadcast-Specific
General Purpose

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Chime generator, message repeater and paging modules

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Audio attenuators

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Line-level crossover, subwoofer crossover and audio filters

Distribution



Balanced and unbalanced line-level audio and microphone-level distribution amplifiers

EMC



Transient suppressor, RF filter and copper grounding bar

Line Amplifiers / Interface



Unbalanced to balanced converters, balanced to unbalanced converters, audio line amplifiers and telephone system coupler

Meters



Precision audio level meter

Microphone Products



Microphone preamplifiers, phantom power adapters, microphone-level / line-level distribution amplifiers

Mixing



Microphone-level and line-level audio mixers and passive audio divider / combiner products

Phono



Stereo phonograph preamplifier

Power Amplifiers



Mono and stereo audio power amplifiers ranging from 2 Watts to 40 Watts, headphone amplifiers, intercom amplifier and music on hold amplifier

Processing



Equalizers, automatic level control modules, audio delay, compressor / limiter, gain control amplifier and gated speech preamplifier

Program Monitoring



12 channel line-level or speaker-level audio monitor panel

Signal Generators



White and pink noise generator and audio oscillators

Speakers



2 Watt rack-mount speaker

Switching & Control



Line-level and microphone-level audio switchers and audio controlled relays

SYSTEM 84



8 x 4 audio mixing matrix and associated status monitor and control interface

Transformer Products



Isolation transformers, input transformers, balanced to unbalanced transformers, unbalanced to balanced

Audio Products Sub-Category Page Shown

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HD-MA35UA - 35 Watt Mix...

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Home > Product Categories > Audio > Power Amplifiers

HD-MA35UA 35 Watt Mixer Amplifier - 25, 70, 100 V, with Power Supply



Features:

- Four inputs with individual front-panel volume controls
- Bass and Treble tone controls
- Designed for background music with paging and music-on-hold
- Master volume VCA controlled with remote adjustment capability
- Manual or automatic (VOX) priority ducking
- Balanced inputs and amplified outputs on detachable terminal blocks
- Unbalanced inputs and outputs on RCA jacks
- Includes power supply
- Automatic sleep mode meets strictest energy saving standards

Product Resources

Power Supply Included

- PS-24V2A (USA)
- PS-24V2 (International)

Model numbers:

- HD-MA35UA includes power supply with North American plug
- HD-MA35UAX includes worldwide power supply (no power cord)

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The HD-MA35UA is a four input audio mixer amplifier for systems demanding the broadest range of features and the highest energy efficiency. Two output power amplifier zones, 35 watts (Zone 1) and 4 watts (Zone 2), are driven from high-efficiency Class D amplifier stages. The mixer and amplifier sections all normally shut down (standby "sleep" mode) when audio is absent and automatically turn on when needed. The Zone 1 amplifier output level may be VCA controlled using various optional RDL remote controls, or by industry standard 0 to 10 Vdc or 0 to 10k ohm controls. This output provides a constant voltage output (25 V, 70 V or 100 V). The Zone 2 amplifier output drives an 8 ohm speaker and/or 600 ohm telephone equipment.

The HD-MA35UA is engineered, tested and manufactured in the U.S.A. to strict energy conservation standards. The unit consumes less than 1 watt of mains power in standby mode, and meets power amplifier efficiency specifications with analog-filtered Class-D digital output stages for both power amplifier output zones and for the 600 ohm output.

The HD-MA35UA features two mixers. The Zone 1 mixer is located on the front-panel providing user level and tone controls for the 35 watt amplifier output. The tone controls adjust the equalization at the Zone 1 amplifier output and can be switch selected on the rear panel to also adjust the equalization at the line-level output. The Zone 2 mixer on the rear panel provides level trimmers normally set by the installer to provide music-on-hold and/or for background music in a small zone equipped with an 8 ohm speaker. The Zone 2 section includes a 4 watt amplifier, a 600 ohm transformer-balanced MOH output, and an active balanced line-level output that may be used to feed another audio power amplifier.

The HD-MA35UA has four inputs that are common to both mixers. Inputs 1 and 2 accept balanced mic or line level sources. Inputs 3 and 4 accept unbalanced mono or stereo line-level sources.

- Input 1 is switch-selectable MIC or LINE. Phantom voltage (IEC standard 24 Vdc) is switch-selectable for the microphone input. The line input is transformer isolated and accepts balanced or unbalanced, high or low impedance audio sources. A gain trimmer is provided to set the input preamplifier to the optimum gain for the installation.
- A paging source is normally connected to Input 1. This input is equipped with push-to-talk terminals and with an adjustable threshold VOX circuit with LED threshold indicator, either (or both) of which may be set to duck ("fade down" or "mute") inputs 2, 3 and/or 4 by 25 dB when a paging signal is active on Input 1. The attenuated inputs fade up to normal volume when the paging message is finished. A rear-panel trimmer allows the start of the fade-up to be delayed from 2 to 6 seconds.
- Input 2 is switch-selectable MIC or LINE. Phantom voltage (IEC standard 24 Vdc) is switch-selectable for the microphone input. The line input is active balanced and accepts balanced or unbalanced, high or low impedance sources. A gain trimmer is provided to set the input preamplifier to the optimum gain for the installation.
- An RDL Dual-LED VU meter is provided on the rear panel to indicate proper gain adjustment for Inputs 1 and 2. Correct input gain adjustment insures adequate mixer

Power Supply Information

"All" Information About the Current Product is Offered on This Page



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HD-MA35UA - 35 Watt Mix...

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HD-MA35UA 35 Watt Mixer Amplifier - 25, 70, 100 V, with Power Supply



Features:

- Four inputs with individual front-panel volume controls
- Bass and Treble tone controls
- Designed for background music with paging and music-on-hold
- Master volume VCA controlled with remote adjustment capability
- Manual or automatic (VOX) priority ducking
- Balanced inputs and amplified outputs on detachable terminal blocks
- Unbalanced inputs and outputs on RCA jacks
- Includes power supply
- Automatic sleep mode meets strictest energy saving standards

Product Resources

Power Supply Included

- PS-24V2A (USA)
- PS-24V2 (International)

Model numbers:

- HD-MA35UA includes power supply with North American plug
- HD-MA35UAX includes worldwide power supply (no power cord)

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The HD-MA35UA is a four input audio mixer amplifier for systems demanding the broadest range of features and the highest energy efficiency. Two output power amplifier zones, 35 watts (Zone 1) and 4 watts (Zone 2), are driven from high-efficiency Class D amplifier stages. The mixer and amplifier sections all normally shut down (standby "sleep" mode) when audio is absent and automatically turn on when needed. The Zone 1 amplifier output level may be VCA controlled using various optional RDL remote controls, or by industry standard 0 to 10 Vdc or 0 to 10k ohm controls. This output provides a constant voltage output (25 V, 70 V or 100 V). The Zone 2 amplifier output drives an 8 ohm speaker and/or 600 ohm telephone equipment.

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- Input 2 is switch-selectable MIC or LINE. Phantom voltage (IEC standard 24 Vdc) is switch-selectable for the microphone input. The line input is active balanced and accepts balanced or unbalanced, high or low impedance sources. A gain trimmer is provided to set the input preamplifier to the optimum gain for the installation.
- An RDL Dual-LED VU meter is provided on the rear panel to indicate proper gain adjustment for Inputs 1 and 2. Correct input gain adjustment insures adequate mixer

Highlights
Product's
Features and
Typical Use



Home > Product Categories > Audio > Power Amplifiers

HD-MA35UA 35 Watt Mixer Amplifier - 25, 70, 100 V, with Power Supply



Features:

- Four inputs with individual front-panel volume controls
- Bass and Treble tone controls
- Designed for background music with paging and music-on-hold
- Master volume VCA controlled with remote adjustment capability
- Manual or automatic (VOX) priority ducking
- Balanced inputs and amplified outputs on detachable terminal blocks
- Unbalanced inputs and outputs on RCA jacks
- Includes power supply
- Automatic sleep mode meets strictest energy saving standards

360° View | View



Product Resources

Power Supply Included

- PS-24V2A (USA)
- PS-24V2 (International)

Model numbers:

- HD-MA35UA includes power supply with North American plug
- HD-MA35UAX includes worldwide power supply (no power cord)

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Amplifier Zones (2):	Zone 1 (Main): 35 W RMS, front-panel mixer (user controls); Zone 2: 4 W RMS (8 Ohms), rear-panel mixer (trimmers)
Audio Inputs (5):	2, balanced, mic or line switch selectable on terminal blocks; 2, unbalanced stereo summing inputs on RCA jacks; 1, unbalanced amp in on RCA jack
Gain Adjustments (2):	Inputs 1 and 2: Rear-panel single-turn trimmer
Maximum Input Level:	Mic Inputs: -9 dBu; Balanced line inputs: + 20 dBu; Unbalanced Inputs: + 5 dBV (+11 dBV, one input); (for 1% THD+N at output)
Phantom Voltage:	24 Vdc (IEC 1938: 1996-12), switch-selectable for each mic input
Ducking/Muting Actuation:	Automatic (Input 1 VOX: rear-panel adjustable signal threshold with LED indicator) or Manual (contact closure to ground)
Ducking/Muting Release Delay:	Rear-panel single-turn trimmer, adjustable 2 to 6 seconds
Ducking/Muting:	Switch-selectable for inputs 2, 3 and/or 4, 25 dB ducking attenuation, nominal
Effects Loop:	Unbalanced RCA jacks (preamp output from main mixer, input to power amplifier)
External RDL Module Power Output:	24 Vdc, 100 mA maximum, ground-referenced
Input level (to cross compressor threshold equaling 23 W amplified output):	Mic Inputs: -50 dBu (2.5 mV), (front panel and rear trimmer at max.) Balanced line inputs: -21 dBu (70 mV), (front panel and rear trimmer at max.) Unbalanced Inputs: -15 dBV (180 mV), (front panel and rear trimmer at max., both inputs driven)
Noise (line or amplified outputs):	Mic or Balanced line inputs: -70 dB (below compressor threshold at max gain); Unbalanced Inputs: <-75 dB (max gain)
THD+N:	< 0.5% (1 kHz at compressor threshold, main amp output); < 0.1% (line output, main)
CMRR:	Mic inputs: > 50 dB (50 Hz to 120 Hz); Balanced line inputs: > 80 dB (50 Hz to 120 Hz, transformer-coupled input)
Compressor:	Threshold 2 dB below rated output, automatically adjusting attack and release times

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HD-MA35UA 35 Watt Mixer Amplifier - 25, 70, 100 V, with Power Supply



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Product Resources

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FP-PA35A

35 W Mono Audio Amplifier · 25 V, 70 V or 100 V, with Power Supply



HD-MA35

35 Watt Mixer Amplifier with Power Supply · Low Impedance Output 4 Ohm or 8 Ohm



HD-MA35A

35 Watt Mixer Amplifier with Power Supply · Constant Voltage Output 25 V, 70 V or 100 V



HD-MA35U

35 Watt Mixer Amplifier- 4 Ohm / 8 Ohm, with Power Supply



HD-PA35

35 Watt Power Amplifier with Power Supply · Low Impedance Output 4 Ohm or 8 Ohm



HD-PA35A

35 Watt Power Amplifier with Power Supply · Constant Voltage Output 25 V, 70 V or 100 V



HD-PA35U

35 Watt Power Amplifier · 4 Ohm / 8 Ohm, with Power Supply



HD-PA35UA

35 Watt Power Amplifier · 25, 70, 100 V, with Power Supply

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HD-MA35UA 35 Watt Mixer Amplifier - 25, 70, 100 V, with Power Supply



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HD Series Mounting Accessories



HD-ASC1
Amplifier Security Cover



HD-BP1
BACK- PACK Rear Cover



HD-FP1
Filler Panel



HD-FP2L
Filler Panel with Lens



HD-RA2
Rack Adapter



HD-WM1
HD Series Wall Mount Bracket

Product Resources

Power Supply Included

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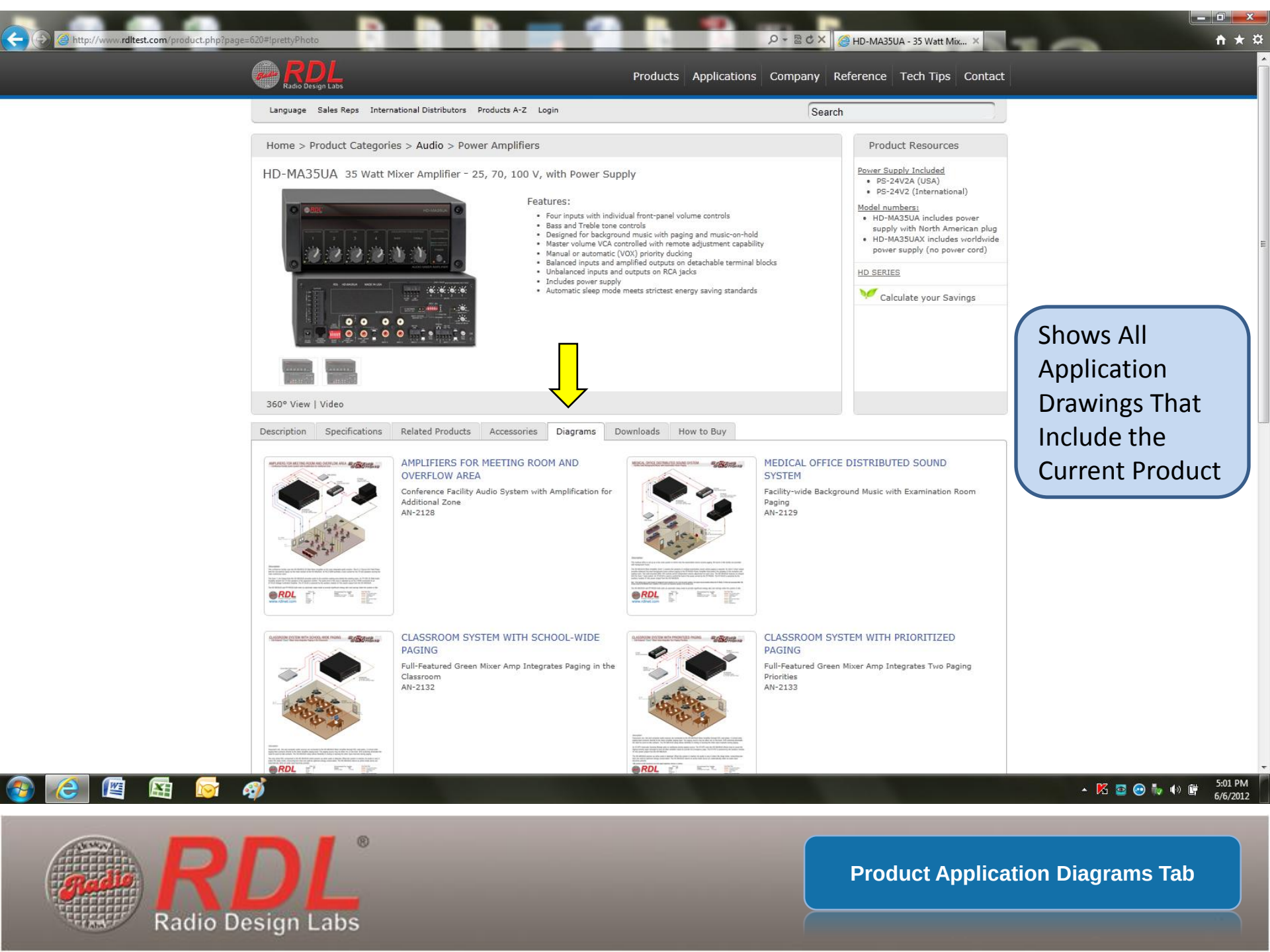
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Product Application Diagrams Tab



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HD-MA35UA 35 Watt Mixer Amplifier - 25, 70, 100 V, with Power Supply



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Manual		1.01 Mb	PDF
CAD Files		Size	Format
Engineering Functional Block	Units	12.86 Kb	DXF
Panel Diagram - Front	American	75.25 Kb	DXF
Panel Diagram - Rear	American	107.89 Kb	DXF
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Power Supply Included

- PS-24V2A (USA)
- PS-24V2 (International)

Model numbers:

- HD-MA35UA includes power supply with North American plug
- HD-MA35UAX includes worldwide power supply (no power cord)

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HD-MA35UA 35 Watt Mixer Amplifier - 25, 70, 100 V, with Power Supply



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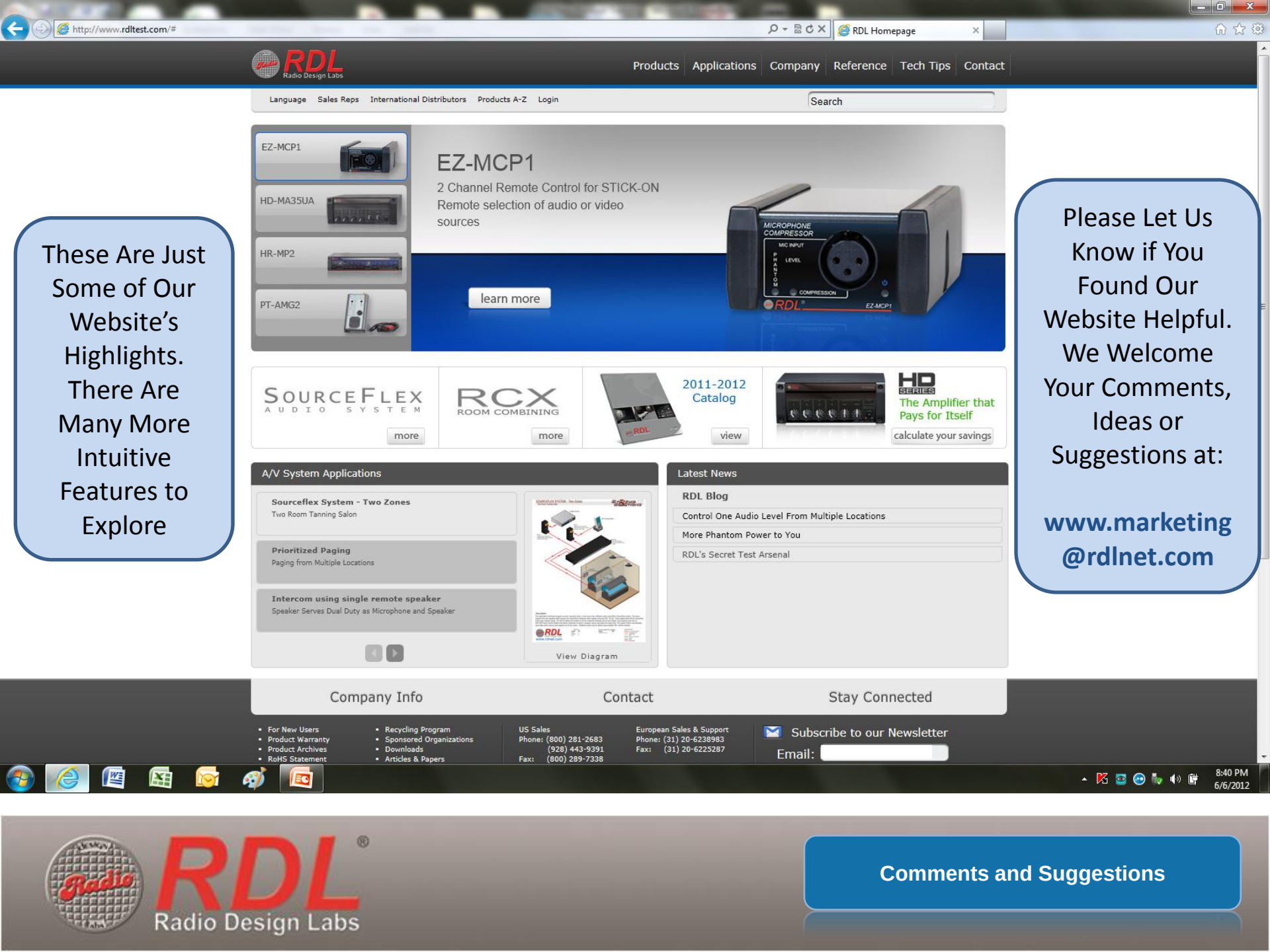
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LINE AMPLIFIERS

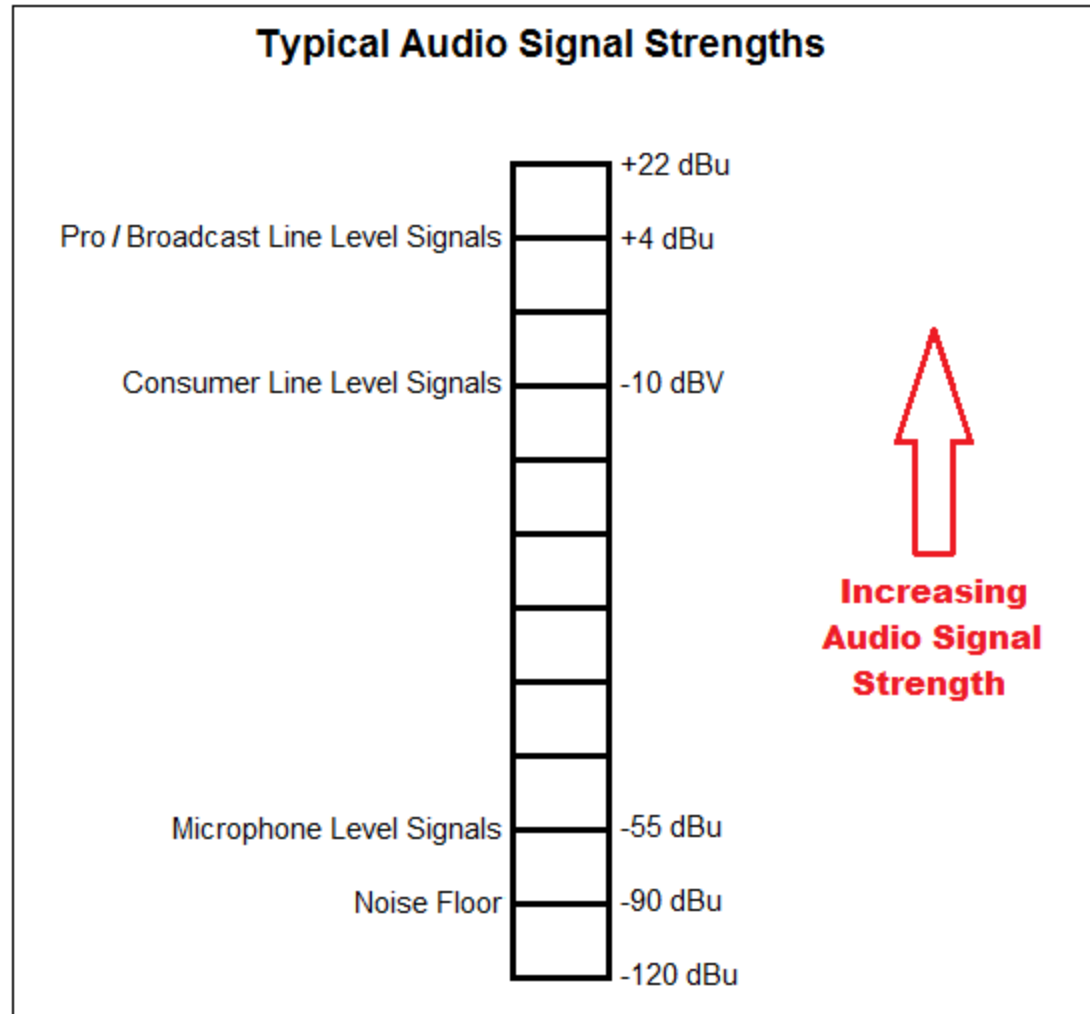
Increase or Decrease Line Level Signal Strength

- Amplify signals for long cable runs
- Increase / decrease levels for signal conversion
- Convert unbalanced to balanced signals
- Convert balanced to unbalanced signals



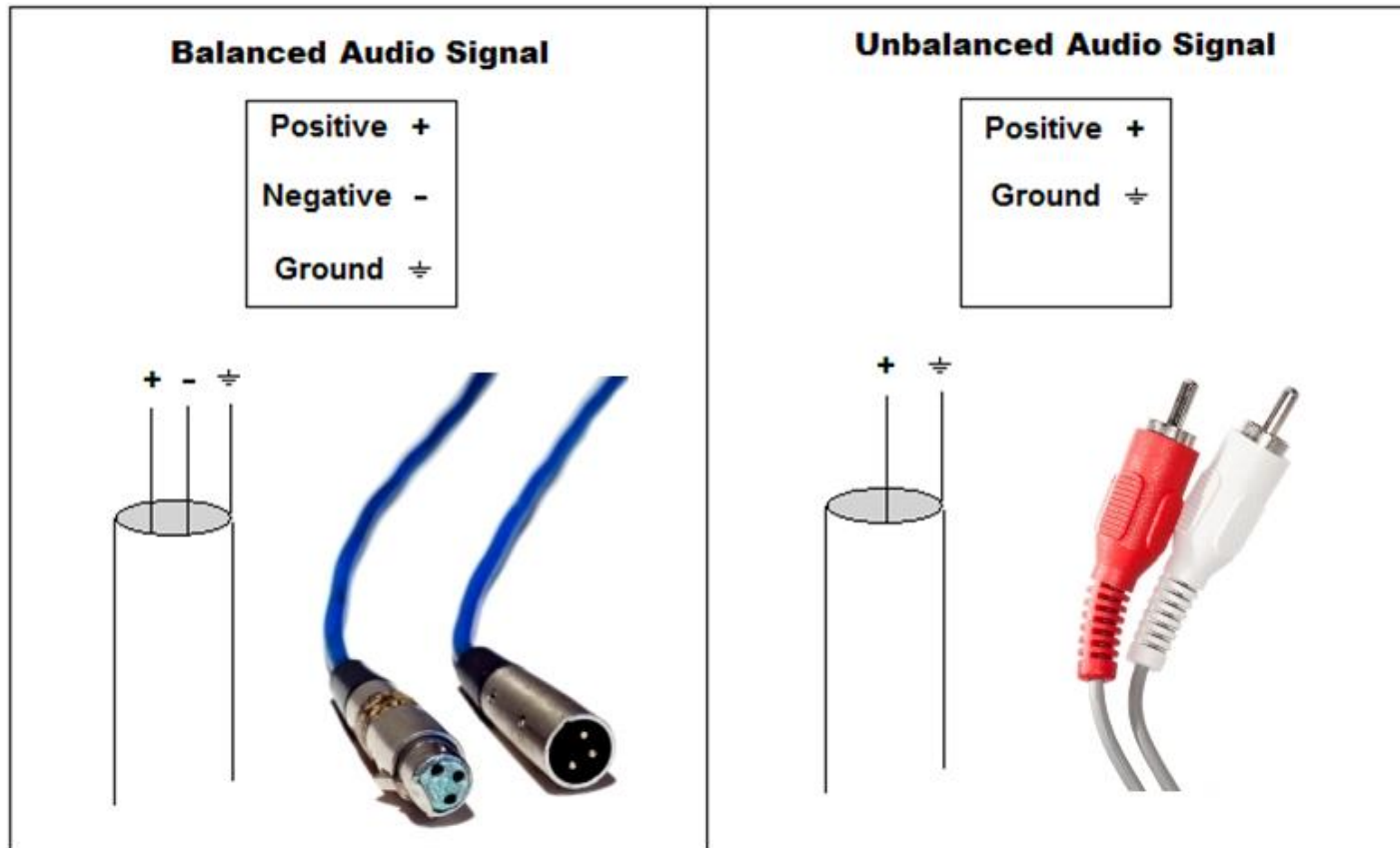
LINE AMPLIFIERS

UNDERSTANDING AUDIO SIGNAL STRENGTH



LINE AMPLIFIERS

COMMON AUDIO SIGNAL TYPES AND WIRING (MANY VARIATIONS EXIST)



Professional / Broadcast

Consumer

LINE AMPLIFIERS

Balanced to Unbalanced or Unbalanced to Balanced Conversion
Adjust Signals from -10 dBV to +4 dBu or +4 dBu to -10 dBV



STA-1

- Two channel amplifier
- Adjustable Gain -12 to +20 dB
- Requires dedicated power supply



STA-2A

- Two channel amplifier
- Adjustable Gain -14 to +24 dB



STA-1M

- One channel (mono) amplifier
- Adjustable Gain -14 to +14 dB

LINE AMPLIFIERS

Connectorized for Easy Conversion



FP-BUC2

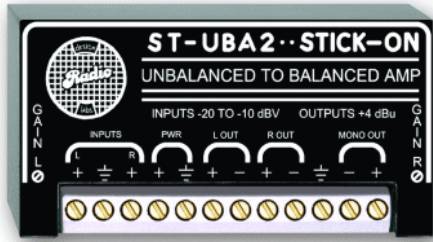
- Converts two balanced lines to unbalanced
- Decrease from +4 dBu to -10 dBV
- -10 dBV output with -6 to +6 dB adjustment
- Dual XLR inputs to RCA outputs



FP-UBC2

- Converts two unbalanced lines to balanced
- Increase from -10 dBV to +4 dBu
- +4 dBu output with -5 to +10 dB adjustment
- Dual RCA inputs to XLR outputs

LINE AMPLIFIERS



ST-UBA2

- Stereo unbalanced to balanced conversion
- Adjustable +2 to +22 dB Gain
- Dual LED VU for precision calibration
- Stereo outputs plus summed mono output



FP-UBC6

- Convert six unbalanced lines to balanced
- Increases -10 dBV to +4 dBu
- Adjustable -5 to +10 dB Gain
- Great for “surround sound” applications

LINE AMPLIFIERS

Stereo Audio Format Converters with Concurrent Bi-directional Operation



RU-AFC2



EZ-AFC2

Unbalanced lines to balanced line section

- Increase -10 dBV to +4 dBu
- +4 dBu output with -25 to +9 dB adjustment
- RCA inputs to XLR or terminal block outputs
- Summed mono output on terminal block

Balanced lines to unbalanced line section

- Decrease +4 dBu to -10 dBV
- -10 dBV output with -25 to +5 dB adjustment
- XLR or terminal block inputs to RCA

Dual LED VU meters for each output

- Same features as above except:
- Off to +12 dB adjustment for both converters
- No terminal blocks

LINE AMPLIFIERS

Telephone Line Simulator

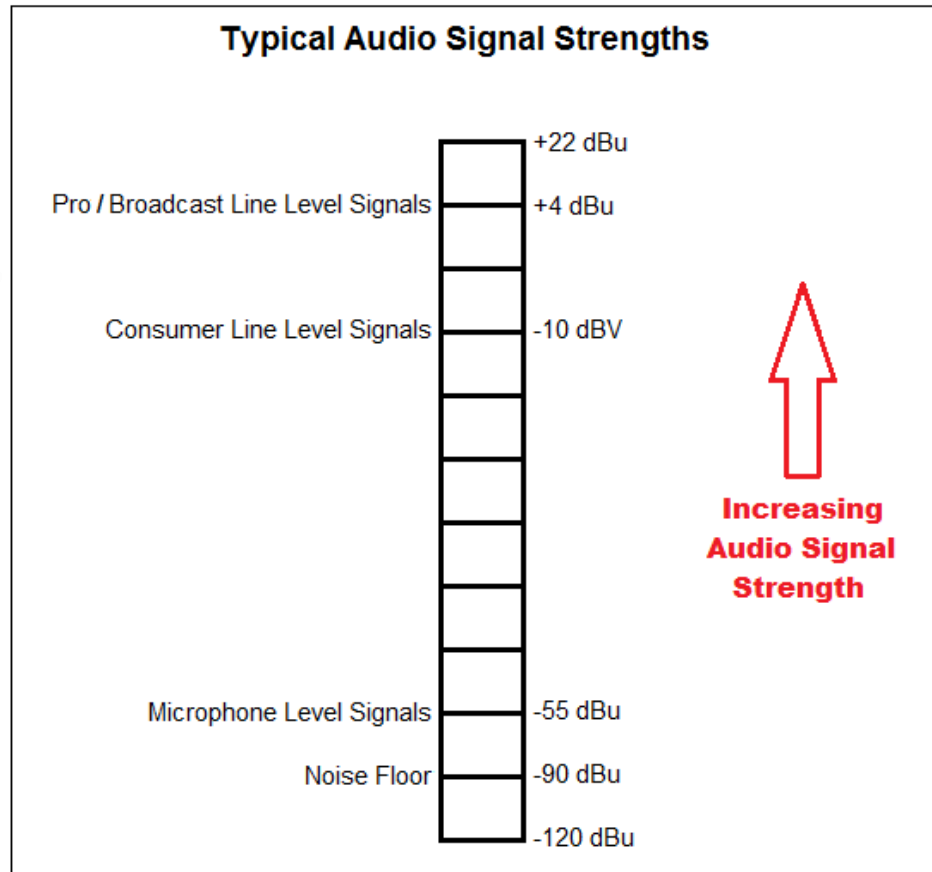


ST-TC1

- Used for older style key telephone systems
- Interfaces paging or radio systems
- Simulates an incoming TELCO line
- Often used for special applications

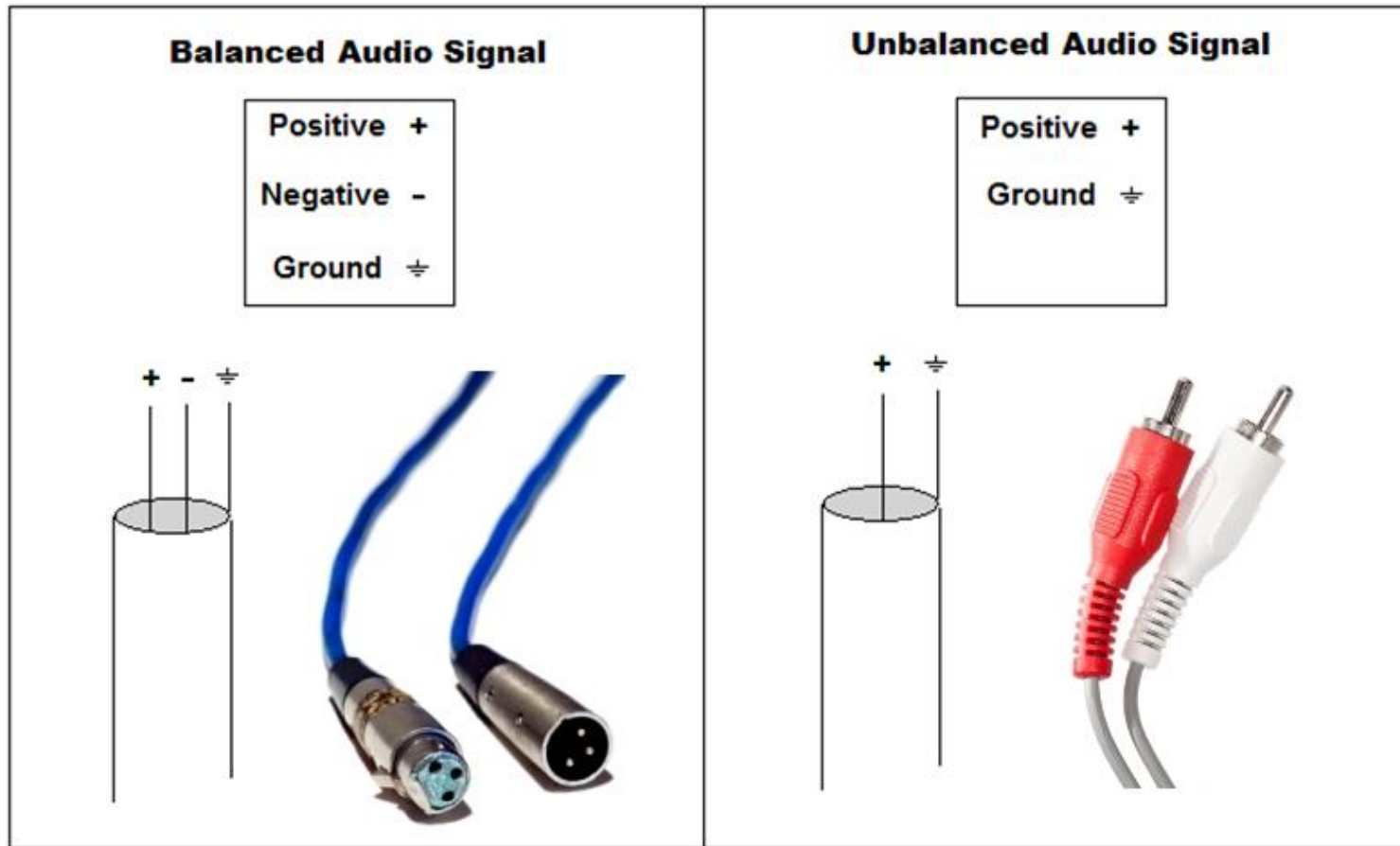
MICROPHONE PREAMPLIFIERS

AMPLIFY MIC LEVEL SIGNALS UP TO LINE LEVEL SIGNALS



MICROPHONE PRE-AMPLIFIERS

COMMON AUDIO SIGNAL TYPES AND WIRING (MANY VARIATIONS EXIST)



Professional / Broadcast

Consumer

STICK-ON SERIES



STM-1

- Fixed 50 dB of gain
- Balanced +4 dBu output
- Unbalanced -10 dBV output
- RF filtered input and outputs
- 24 V phantom power



STM-2

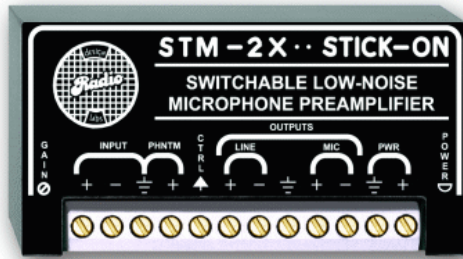
- Adjustable 35 to 65 dB gain
- Two balanced or unbalanced outputs
- RF filtered inputs
- 24 V phantom power



STM-3

- Same features as STM-2 except
- Adjustable 45 to 75 dB gain

STICK-ON SERIES



STM-2X

- Switchable / push-to-talk mic pre-amplifier
- Quiet switching of condenser microphone
- Adjustable 35 to 65 dB gain
- Two balanced or unbalanced outputs
- 24 V phantom power



ST-GSP1

- Speech activated pre-amplifier
- Unmutes when audio is detected
- Mutes in 2 seconds after audio stops
- Adjustable 45 to 65 dB gain
- Passes external phantom power up to 48 Vdc



STM-LDA3

- Mic pre-amplifier with 3 line level outputs
- Adjustable 40 to 60 dB gain
- LED VU meter for accurate +4 dBu adjustment
- Balanced or unbalanced outputs
- 24 V phantom power

EZ SERIES



EZ-MPA1

- One balanced XLR input
- Adjustable gain from Off to 50 dB
- Gain knob can be used to adjust volume
- -10 dBV output on RCA or mini jacks
- LED VU meter for accurate -10 dBV settings
- Dual mono output to mini or RCA jacks
- Selectable compressor
- Switch selectable 24 V phantom power

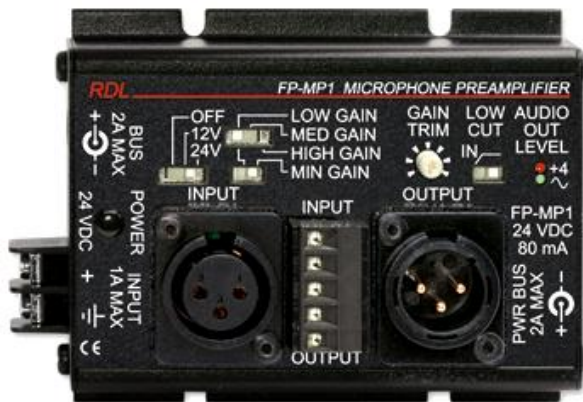


EZ-MPA2

Same features as EZ-MPA1 except

- Two balanced XLR inputs; right and left
- Stereo unbalanced outputs; right and left

FLAT-PAK



FP-MP1

- Studio or broadcast quality preamplifier
- Single XLR or terminal block input and output
- Adjustable gain from 19 to 65 dB
- Selectable off, 12 or 24 V phantom power
- LED VU meter for accurate output

RACK-UP



RU-MLA2 / RU-MLA2T

- Two channel microphone or line pre-amplifier
- XLR or terminal blocks for inputs and outputs
- Each output is switch selectable mic or line
- All outputs can be used simultaneously
- Microphone adjustable gain from Off to 69 dB
- Line adjustable gain from Off to 20 dB
- Selectable 24 V phantom power per channel

T model adds a transformer for hum elimination

HALF RACK SERIES

Studio Quality Two Channel Microphone Pre-amplifier



HR-MP2A

- Inputs on XLR
- Outputs on 1/4 inch TRS and terminal block
- Summed output on terminal block
- Selectable 48 Vdc phantom power
- Adjustable 20 to 60 dB gain control
- 15 dB pad (reduction) option, polarity reversal (2 mics on a podium) and LED clip indicators



HR-MP2

Same features as the HR-MP2A PLUS

- Individual outputs on XLR
- Selectable 24 or 48 V phantom power
- Two dual LED VU meters
- Low cut filters

HALF RACK SERIES

Studio Quality Microphone Pre-amplifier with COMPRESSOR



HR-MPC2

- Adjustable mic compressor to 25dB
- Inputs on XLR
- Outputs on XLR and/or terminal block
- Mic or line level out
- Selectable 48 Vdc phantom power
- Adjustable 20 to 60 dB gain control
- 15 dB pad (reduction) option
- 7 LED gain reduction meter per channel
- Single LED clip indicator per channel
- Low cut filter

The HR-MCP2 Dual Microphone Compressor...

- Provides Consistent Mic Levels Regardless of Speech Levels
- Prevents Distortion Prior to Mixer / Mic-preamp
- Improves Low-level Speech Intelligibility
- Provides the Clarity of RDL's Flagship Preamplifiers and the Control of a World Class Microphone Compressor
- Winner of Radio Magazines "PICK" Award at NAB 2012

PHONO PREAMPLIFIERS



- Phono (turntable) preamplifiers for consumer or professional use
- Equalized to the RIAA curve

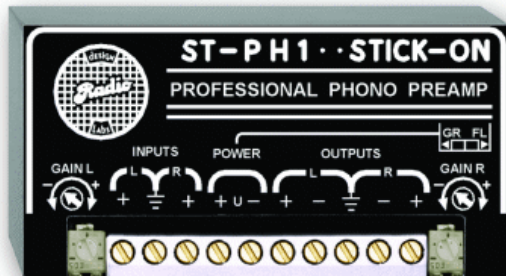


PHONO PREAMPLIFIERS



EZ-PH1

- Stereo Phono preamplifier
- RCA inputs and outputs
- Individual gain control on each channel
- Dual LED VU meters



ST-PH1

- Professional Phono preamplifier
- Stereo or mono operation
- Ultra low distortion and low noise
- Outputs are balanced or unbalanced
- Adjustable gain on each channel

SIGNAL GENERATORS



- Produces audio signals to be used as a tool or aid in any audio system
- Pink or white noise
 - Used to mask or cover unwanted background noise
 - Helps limit intelligibility and level of nearby conversations
 - Source for equalizing or calibrating sound systems
- Tones are used to check connectivity or calibrate equipment
- Chimes typically used to alert people
- Some units are portable, some are permanently installed

NOISE GENERATOR



ST-NG1

- Produces both pink and white noise signals
- Adjustable mic and line level signal outputs
- All outputs can be used simultaneously
- Generated signals are completely random
 - Ideal for secure sound masking
 - Masking can't be decoded and removed

OSCILLATORS

Produce specific tones / frequencies



ST-OSC2A



ST-OSC2B

- ST-OSC2A generates 1kHz and 10kHz tones
- ST-OSC2B generates 100Hz and 400Hz tones
- Stereo outputs for each frequency
- Balanced and Unbalanced line level outputs
- Output gain adjustments



RU-OSC4A

- Auto-cycle tones in 3 to 30 second intervals
- 100Hz, 1kHz, 7.5kHz, 15kHz tones and silent
- Manually hold a selected tone
- Output gain adjustment for each tone

CHIME GENERATOR



FP-CH8

- Generates 8 individual and selectable chimes
- Single or continuous chimes
- Can use with background music or paging
- Automatically ducks music if present
- Can be used as an audible security alert

AUDIO TEST SIGNAL GENERATORS



PT-AMG2



PT-ASG1

- Portable audio signal generator, meter and speaker
- Selectable mic or line inputs and outputs
- Generates a 700 Hz tone
- Balanced and unbalanced connectivity
- Meter to +4dBu or -10dBV
- Phase indicator LED to confirm correct wiring
- 9 V battery operation or optional power supply
- Includes base / wall mount and test leads

- Signal Generator
- 700 Hz tone
- Balanced and unbalanced connectivity
- 9 V battery operation or optional power supply
- Includes base / wall mount and test leads
- Ideal companion to the PT-AMG2