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<https://130.com.ua>



ProZ4-80
ProZ4-110
ProZ4-150
ProZ4-200

ProZ1-1000 AB
ProZ1-1500 AB
ProZ1-2000 D
ProZ1-3000 D

ProZ2-200
ProZ2-300

ProZ4-75.24V
ProZ4-300.24V

manufactured for



A Division of CHPW
Friedrich-Ebert-Str. 42
D-92637 Weiden / Germany

www.u-dimension.eu



INTRODUCTION

Amplifiers provide high-performance sound reinforcement for your mobile audio equipment. Its versatility enables compatibility with optional Equalizers, Frequency Dividing Network Crossovers, and other audio processors in a customized system. The Multi-Mode bridging capabilities allow flexibility in hosting several different speaker configurations.

To achieve optimum performance, We suggest that your stereo components are installed by an authorized dealer. It is highly recommended that you read this Owners Manual before beginning installation.

FEATURES - CLASS AB AMPLIFIER

- MOSFET POWER SUPPLY AMPLIFIER
- DOUBLE SIDED THROUGH HOLE EPOXY PCB
- GOLD PLATED BRASS SET SCREW TERMINALS
- 12dB/Oct. CROSSOVER
 - VARIABLE HIGH PASS CROSSOVER (30Hz-500Hz)
 - VARIABLE LOW PASS CROSSOVER (30Hz-500Hz)
- VARIABLE SUBSONIC FILTER 15Hz ~ 45Hz(2CH.)
- VARIABLE 0dB TO 12dB BASS BOOST AT 45Hz(2CH.)
- 18dB BASS BOOST ON/OFF SWITCH AT 45Hz(4CH.)
- 5 WAY PROTECTIONS
- DAISY CHAIN THROUGH OUTPUT RCA (2CH.)
- POWER AND PROTECTION LED
- 1 OHM STABLE CIRCUITS
- SOFT START / MUTE CIRCUIT
- TRIMODE OUTPUT CONFIGURATIONS

WARNNIG

High powered audio systems in a vehicle are capable of generating "Live Concert" high levels of sound pressure. Continued exposure to excessively high volume sound levels may cause hearing loss or damage. Also, operation of a motor vehicle while listening to audio equipment at high volume levels may impair your ability to hear external sounds such as; horns, warning signals, or emergency vehicles, thus constituting to a potential traffic hazard.

PLANNING YOUR SYSTEM

Before beginning the installation, consider the following:

- a. If you plan to expand your system by adding other components sometime in the future, ensure adequate space is left, and cooling requirements are met.
- b. Should you use high or low level inputs?

Your Amplifier has been designed to accept either High-Level (speaker outputs from your radio) or Low-Level (Pre-Amp outputs from your radio) signal source.

If your radio/source is equipped with Pre-Amp outputs, it is possible to utilize them to drive the Amplifier and connecting (*Amplifier*) to the 2 rear speakers. Then, use the built-in power of your radio to drive the 2 front speakers.
- c. Are your components matched? The peak power rating of your speakers must be equal or greater than the Amplifier's. They also must be 2 - 8 Ohms impedance. (*This information is normally printed on the speaker magnet*)
- d. Consider both the length of your leads, and routing when determining the mounting location. Pre-Amp input Jacks require a length (*depending on location*) of high quality shielded male to male RCA patch cord.

NOTE:

Distortion level is considerably lower from Pre-Amp (Low Level) outputs, than speaker(High Level) outputs.

MOUNTING YOUR AMPLIFIER

The mounting position of your Amplifier will have a great effect on its ability to dissipate the heat generated during normal operation. It has an ample heat sink for heat dissipation, and also designed with a thermal shut-down protection circuit, making it reasonably tolerant of mounting variations. Any configuration which allows moving air to be directed over the cooling fins will improve heat dissipation dramatically. DO NOT enclose the amplifier in a small box or cover it so that air cannot flow around fins.

Temperatures in car trunks have been measured as high as 175°F (80°C) in the summer time. Since the thermal shut-down point for the Amplifier is 185°F (85°C), it is easy to see that it must be mounted for maximum cooling capability. To achieve maximum advantage of convection air flow in an enclosed trunk, mount the amplifier in a vertical position, on a vertical surface.

MOUNTING SURFACE

Cooling requirements are considerably relaxed when mounting inside the passenger compartment since the driver will not often allow temperatures to reach a critical point. Floor mounting under the seat is usually satisfactory as long as there is at least 1 inch (2cm) above the Amplifier's fins for ventilation.

- Select a suitable location that is convenient for mounting, is accessible for wiring, and has ample room for air circulation and cooling.
- Use the amplifier as a template to mark the mounting holes. Remove the Amplifier and drill 6 holes. USE EXTREME CAUTION, INSPECT UNDERNEATH SURFACE BEFORE DRILLING.
- Secure the Amplifier using the screws provided.

CONNECTING THE POWER

CAUTION

AS A PRECAUTION, IT IS ADVISABLE TO DISCONNECT THE VEHICLE'S BATTERY BEFORE MAKING CONNECTION TO THE + 12 VOLT SUPPLY WIRING.

10 GAUGE (Thicker if planning for additional Amplifiers) wire is recommended for both the power and ground wires. 20 Gauge, for the remote turn-on wire. Both types available at most Mobile Audio Dealers or Installation Shops.

GROUND : To Vehicle Chassis

To avoid unwanted ignition noise caused by ground loops, it is essential that the Amplifier be grounded to a clean, bare, metal surface of the vehicle's chassis.

NOTE

GROUND WIRE SHOULD NOT BE EXTENDED MORE THAN 3 FT. (1 METER).
USING THIS METHOD CAN CAUSE TURN ON AND TURN OFF TRANSIENTS (NOISE)

+ 12 Volt(Fused) Constant Power to Battery (+)

Due to the power requirements of the Amplifier, this connection should be made directly to the positive (+) terminal of battery. For safety measures, install an in-line 50 Amp Fuse Holder (not included) as close to the battery positive (+) terminal as possible.

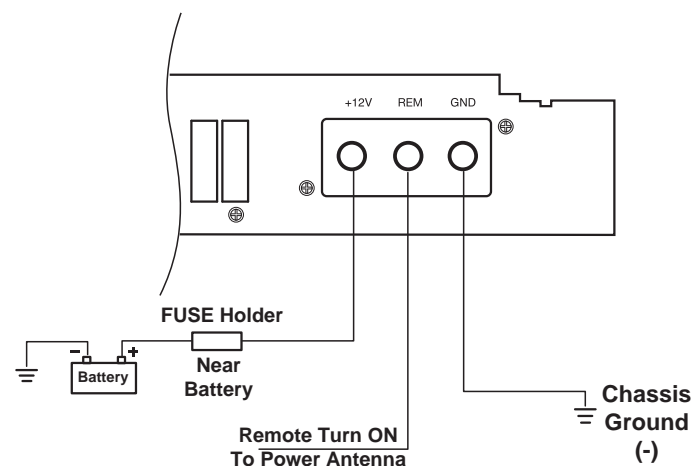
With an ampere rating not to exceed total value of fuses in amp.

Remote Turn-On Input To Power Antenna output of Car Stereo

This Amplifier is turned "ON" remotely when the vehicle's stereo is turned "ON".

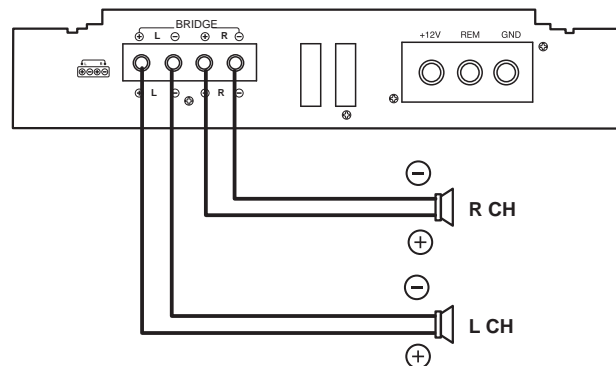
NOTE

IF YOUR RADIO DOES NOT HAVE A +12 VOLT OUTPUT LEAD WHEN THE RADIO IS TURNED ON, "RMT" TERMINAL ON THE AMPLIFIER CAN BE CONNECTED TO VEHICLE'S ACCESSORY CIRCUIT THAT IS LIVE WHEN THE KEY IS "ON".

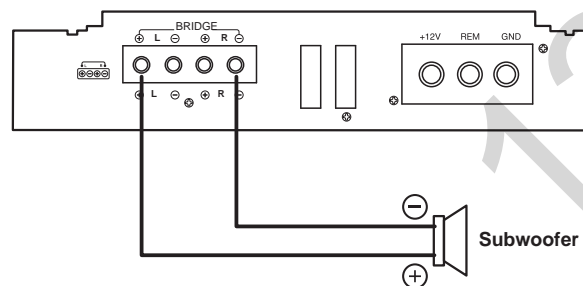


CONNECTING THE SPEAKERS

1. 2CH Amplifier
- a. 1 Subwoofer

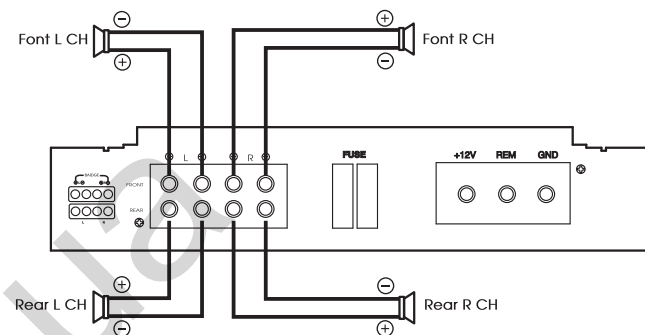


- b. Mono Mode

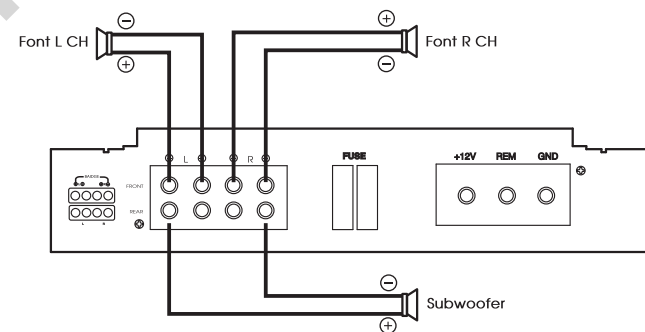


CONNECTING THE SPEAKERS

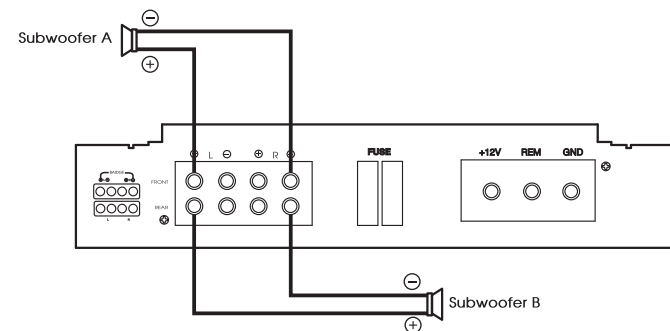
1. 4CH Amplifier
- a. 4CH Mode



- b. 3CH Mode

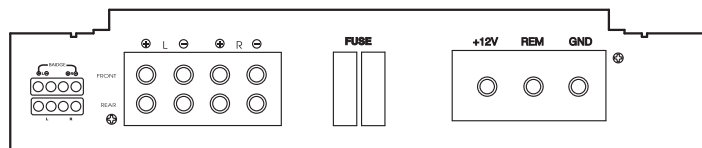
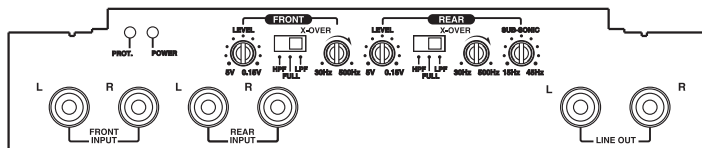


- c. 2CH Mode

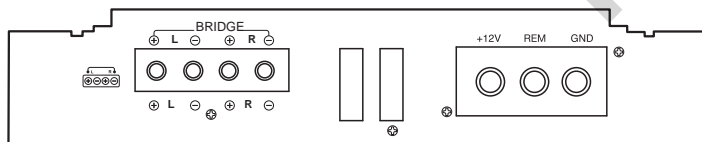
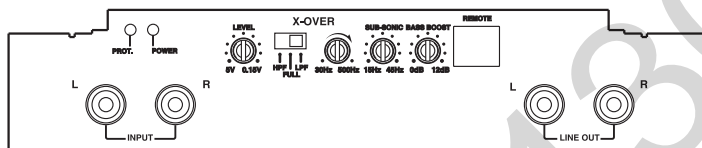


FEATURES AND CONTROLS

4 Channel



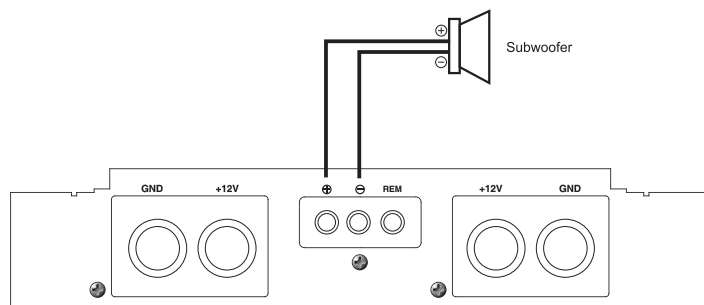
2 Channel



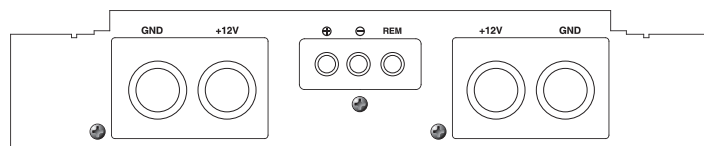
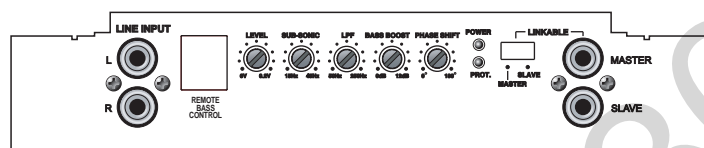
FEATURES AND CONTROLS

- RCA Low Level Input Jacks
It allows left and right inputs to be connected to the amplifier using RCA plugs.
- RCA Line Output Jacks
Full range output from channel L&R inputs is provided at Line Out Jacks.
- Input Level Control
It allows for the adjustment of the gain of both channels to match the output level of the source. In addition, it allows for detailed adjustment with L&R level control to be separated.
- Amplifier X-over switch / Line outs X-over switch
 - a) LPF : Allows for the control of the low pass frequency range (30Hz-500Hz) by using the Low Variable Control.
 - b) FULL : Allows for full range pass through.
 - c) HPF : Allows for the control of the high pass frequency range (30Hz-500Hz) by using the High Variable Control.
- Subsonic Filter
It admits of removing the frequency below 15Hz to 45Hz using the Subsonic Variable Control in order to protect subwoofer speaker or to produce powerful subwoofer sound.
- Bass EQ Boost
Adjust the sub boost level of the selected frequency output from 0dB to 12dB.
- Remote Gain Control
You can control remote gain, connecting the remote control to amplifier.
- Protection LED
It illuminates when fault condition exists, and amplifier immediately shuts down. If illuminated, turn amplifier off, check for shorted speaker leads and DC noise from RCA input and attempt to re-power amplifier. When amplifier overheats and thermal protection circuit shuts amplifier down, LED does not illuminate.
- Power LED
It indicates when amplifier is on and no fault existence.
- Speaker Terminal
It allows the connection of speakers to the amplifier.
- Fuse
It protects both the amplifier and automobile electrical system from fault conditions.
- Power connection
Connects +12VDC power wire from the battery.
- Remote connection
Connects the control wire which allows the amplifier to be turned on and off by the radio cassette player.
- Connects ground wire from a suitable ground point on the chassis.

CONNECTING THE SPEAKERS



FEATURES AND CONTROLS



FEATURES AND CONTROLS

- **RCA Low Level Input Jacks**
It allows left and right inputs to be connected to the amplifier using RCA plugs.
- **RCA Line Output Jacks**
Full range output from channel L&R inputs is provided at Line Out Jacks.
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- **Subsonic Filter**
It admits of removing the frequency below 15Hz to 45Hz using the Subsonic Variable Control in order to protect subwoofer speaker or to produce powerful subwoofer sound.
- **Bass Boost**
Adjust the sub boost level of the selected frequency output from 0dB to 12dB.
- **Variable Highpass controls**
Adjust the crossover frequency of the-High Pass output only, from 30Hz to 500Hz
- **Variable Lowpass controls**
 - 2Ch & 4Ch
Adjust the crossover frequency of the LOW Pass output only, from 30Hz to 500Hz.
 - Mono Ch
Adjust the crossover frequency of the LOW Pass from 50Hz to 250Hz.
- **Variable Phase shift**
Variable Phase shift 0° to 180°
- **Amplifier X-over switch / Line outs X-over switch for 2Ch & 4Ch**
 - a) LPF : Allows for the control of the low pass frequency range (30Hz-500Hz) by using the Low Variable Control.
 - b) FULL : Allows for full range pass through.
 - c) HPF : Allows for the control of the high pass frequency range (30Hz-500Hz) by using the High Variable Control.
- **LINKABLE OPERATION (MASTER / SLAVE MODE)**
You can bridge 2amp and make bigger output
 - a) Connect Master & Slave amp thru RCA (Master === Slave)
 - b) Master Amp : place the S/W to Master position
 - c) Slave Amp : place the S/W to Slave position
 - d) You can connect the speaker wire from Mster + (Speaker +) & Slave + (Speaker -)
- **Power LED**
It indicates when amplifier is on and no fault existence.
- **Protection LED**
It illuminates when fault condition exists, and amplifier immediately shuts down. If illuminated, turn amplifier off, check for shorted speaker leads and DC noise from RCA input and attempt to re-power amplifier.
- **Speaker Terminal**
It allows the connection of speakers to the amplifier.
- **Fuse**
It protects both the amplifier and automobile electrical system from fault conditions.
- **Power connection**
Connects +12VDC power wire from the battery.
- **Remote connection**
Connects the control wire which allows the amplifier to be turned on and off by the radio cassette player.
- Connects ground wire from a suitable ground point on the chassis.
- **Remote Gain Control**
you can control Remote Gain, connecting the Remote control to Amplifier.

TROUBLESHOOTING

Before removing your Amplifier, refer to list below and follow suggested procedure. Speakers and their wires should be tested first.

No Output:

- Confirm that all terminal strip connections are firmly connected.
- Check in-line and built-in fuses. Both "+12V" and "RMT" terminals must have +12 Volts to chassis ground.
- Confirm that signal source(*Car Radio/Deck, EQ, X-over etc*) is connected and is supplying output signal.
To confirm that Amplifier is working, connect an RCA patch cord to LEFT & RIGHT low-level inputs of Amplifier only(*Do not connect the other end of the patch cord*). Briefly tap the center pin of each(*disconnected*) RCA plug on the other(*disconnected*) end with your finger. This should produce a noise(*feedback*) in the speakers.

Only One Channel works:

- Confirm that speaker terminal strip connections are firmly connected.
- Check "BALANCE" control on Car Stereo(*or signal source*) to verify it is at mid-point.
- If using RCA Low-Level inputs, reverses the input plugs at the Amplifier(*right to left or vice versa*).

If the channel that is silent reverses position, the problem is in the Car Stereo (*EQ, X-over, or other signal source*) or connecting cable.

SPECIFICATIONS

SPEC.	MODEL	ProZ4-80	ProZ4-110	ProZ4-150	ProZ4-200
POWER OUTPUT (DC11.5V)					
RMS AT 4 Ohm , STEREO		80W X 4CH	110W X 4CH	150W X 4CH	200W X 4CH
RMS AT 2 Ohm , STEREO		110W X 4CH	150W X 4CH	200W X 4CH	250W X 4CH
RMS AT 1 Ohm , STEREO		150W X 4CH	200W X 4CH	250W X 4CH	300W X 4CH
RMS AT 4 Ohm , MONO		220W X 2CH	300W X 2CH	400W X 2CH	500W X 2CH
RMS AT 2 Ohm , MONO		300W X 2CH	400W X 2CH	500W X 2CH	600W X 2CH
S/N RATIO		> 100dB	> 100dB	> 100dB	> 100dB
THD (IHF-A)		0.03%	0.03%	0.03%	0.03%
CHANNEL SEPARATIONS		> 55dB	> 55dB	> 55dB	> 55dB
INPUT SENSITIVITY		0.15V - 5V	0.15V - 5V	0.15V - 5V	0.15V - 5V
INPUT IMPEDENCE		47 KOhm	47 KOhm	47 KOhm	47 KOhm
SLEW RATE		10V / USec	10V / USec	10V / USec	10V / USec
DAMPING FACTOR		200AT 4 Ohm	200AT 4 Ohm	200AT 4 Ohm	200AT 4 Ohm
FUSE RATING		30A x 2 EA	40A x 2 EA	40A x 3 EA	40A x 4 EA
DIMENSION(mm)					
• WIDTH		275.0mm	275.0mm	275.0mm	275.0mm
• HEIGHT		57.0mm	57.0mm	57.0mm	57.0mm
• LENGTH		350.0mm	450.0mm	500.0mm	600.0mm

SPECIFICATIONS

SPEC.	MODEL	ProZ2-200	ProZ2-300	ProZ4-75.24V	ProZ2-300.24V
POWER OUTPUT (DC11.5V)					
RMS AT 4 Ohm , STEREO		200W X 2CH	300W X 2CH	75W X 4CH	300W X 2CH
RMS AT 2 Ohm , STEREO		300W X 2CH	450W X 2CH	110W X 4CH	500W X 2CH
RMS AT 1 Ohm , STEREO		400W X 2CH	600W X 2CH	150W X 4CH	750W X 2CH
RMS AT 4 Ohm , MONO		600W X 1CH	900W X 1CH	220W X 2CH	1000W X 1CH
RMS AT 2 Ohm , MONO		800W X 1CH	1200W X 1CH	300W X 2CH	1500W X 1CH
S/N RATIO		> 100dB	> 100dB	> 100dB	> 100dB
THD (IHF-A)		0.03%	0.03%	0.03%	0.03%
CHANNEL SEPARATIONS		> 55dB	> 55dB	> 55dB	> 55dB
INPUT SENSITIVITY		0.15V - 5V	0.15V - 5V	0.15V - 5V	0.15V - 5V
INPUT IMPEDENCE		47 KOhm	47 KOhm	47 KOhm	47 KOhm
SLEW RATE		10V / USec	10V / USec	10V / USec	10V / USec
DAMPING FACTOR		200 @ 4 Ohm	200 @ 4 Ohm	200 @ 4 Ohm	200 @ 4 Ohm
FUSE RATING		30A x 2 EA	30A x 4 EA	15A x 2 EA	20A x 4 EA
• WIDTH		275.0mm	275.0mm	275.0mm	275.0mm
• HEIGHT		57.0mm	57.0mm	57.0mm	57.0mm
• LENGTH		450.0mm	600.0mm	350.0mm	600.0mm

SPEC.	MODEL	ProZ1-1000 AB	ProZ1-1500 AB	ProZ1-2000 D	ProZ1-3000 D
POWER OUTPUT (DC11.5V)					
RMS AT 4 Ohm , MONO		400W X 1CH	500W X 1CH	500W X 1CH	1000W X 1CH
RMS AT 2 Ohm , MONO		600W X 1CH	800W X 1CH	800W X 1CH	1500W X 1CH
RMS AT 1 Ohm , MONO		800W X 1CH	1200W X 1CH	1500W X 1CH	2500W X 1CH
S/N RATIO		> 105dB	> 105dB	> 100dB	> 100dB
THD (IHF-A)		0.03%	0.03%	0.03%	0.03%
CHANNEL SEPARATIONS		> 55dB	> 55dB	> 55dB	> 55dB
INPUT SENSITIVITY		0.15V - 5V	0.15V - 5V	0.15V - 5V	0.15V - 5V
INPUT IMPEDENCE		47 KOhm	47 KOhm	47 KOhm	47 KOhm
SLEW RATE		10V / USec	10V / USec	10V / USec	10V / USec
DAMPING FACTOR		300 AT 4 Ohm	300 AT 4 Ohm	200 AT 4 Ohm	300 AT 4 Ohm
FUSE RATING		30A x 2 EA	20A x 4 EA	30A x 4 EA	200A EXTERNAL
DIMENSION(mm)					
• WIDTH		275.0mm	275.0mm	275.0mm	275.0mm
• HEIGHT		57.0mm	57.0mm	57.0mm	57.0mm
• LENGTH		380.0mm	450.0mm	450.0mm	600.0mm
LINKABLE		N/A	N/A	N/A	YES
REMOTE CONTROLE		YES	YES	YES	YES