

## IP SERIES

The Pascal IP series is a series of multi-purpose installation amplifiers. The amplifiers have built in Wireless-Access-Point (WAP) for the simple connection and configuration via WiFi.



- ✓ **DSP** – full matrix DSP embedded and controlled via TCP/IP
- ✓ **Targeted Constant Voltage** – Optimal hybrid of Lo & Hi-Z performance
- ✓ **Master / Slave functionality** – S/PDIF link to multiple amps
- ✓ **Power share** – Support power sharing
- ✓ **Reduce time to market** - MP delivered 3-months from project start
- ✓ **Reduced NRE cost** - Pay only NRE fees for required certification
- ✓ **Certified** - Safety approved, EMC & EuP compliant & Energy Star\*
- ✓ **Market proven reliability** - Based on Pascal's proven technologies

## Applications

### Bars, Cafes & Restaurants

The combination of small size and high power per channel flexibility makes IP series especially good for installing in Bars, Cafés, and restaurants. Easy to set up system with 2-4 channels in either Hi-Z or Low-Z and power to cover any room size.

### Restaurants

Restaurant's use sound as part of the dining experience, and many have dynamic needs for the sound level. Some have bar areas where they need more sound pressure, and then have cosy eating areas where they need less. IP is ideal – as it delivers the power required, with 2-4 channels in Hi-Z or Low-Z to cover any room size.

### Retail stores

Retail stores have background sound (or sound branding) where music is matched to the profile of store. This leads to a wide range of sound demand – a furniture store with cool background sound, a stylish clothes shop with medium pressure or a trendy juice bar with need for more power! IP fits all these needs as the required power can be utilised where needed – with both Hi-Z and Low-Z simultaneously.

### Fitness Centres

Fitness locations demand excellent sound with great system flexibility. Background tracks play in a gym & workout area, soft sounds in yoga classes – then heart racing power in the spinning & CrossFit classes!

### Hotels & Education Sites

For hotels and education sites that have auditoriums, theatres, large dining spaces, and multiple large meeting rooms - complete flexibility of available power is needed.

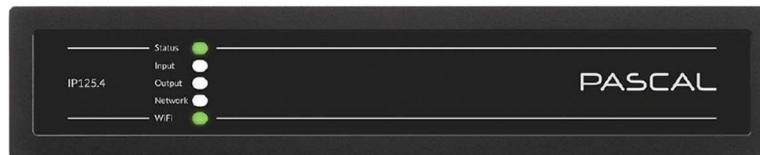
### Corporate

The corporate space has many different applications – open office spaces, sound for board & conference rooms, meeting areas of any size – plus warehouses, cafeteria & break areas. IP an ideal choice as one amplifier can cover all these needs.

### House of Worship

House of Worship needs reliable, high-quality amplification of voice, and at the same time the amplifier should cover a large distribution area with many specialized speakers. IP is perfect for house of worship sites – due to the high quality of amplification at medium power levels, delivering superior speech intelligibility

## IP60.2, IP60.4, IP125.2 and IP125.4



Model	IP60.2	IP125.2	IP60.4	IP125.4
Channels	2 LoZ / 1 HiZ	2 LoZ / 1 HiZ	4 LoZ / 2 HiZ	4 LoZ / 2 HiZ
Output power @ 4Ω/8Ω/70V/100V* All channels driven	60W LoZ / 120W HiZ	125W LoZ / 250W HiZ	60W LoZ / 125W HiZ	125W LoZ / 250W HiZ
Output power @ 4Ω/8Ω/70V/100V* Single channel driven	120W**	250W**	250W**	250W**
Output Power @ 16Ω*** All channels driven	120W	125W	125W	125W
Power Consumption	75W	75W	75W	150W
Dimensions	44.5 x 220 x 208 mm (1.75 x 8.66 x 8.19 in)	44.5 x 220 x 208 mm (1.75 x 8.66 x 8.19 in)	44.5 x 220 x 296 mm (1.75 x 8.66 x 11.65 in)	44.5 x 220 x 296 mm (1.75 x 8.66 x 11.65 in)
Weight	2kg (4.4 lbs)	2kg (4.4 lbs)	2.8kg (6.2 lbs)	2.8kg (6.2 lbs)
Output Circuitry	UMAC™ Class D - full bandwidth PWM modulator with ultra-low distortion			
Output Voltage	70Vp / 140Vpp (unloaded) // Bridged 140Vp / 280 Vpp (unloaded)			
Signal To Noise-Ratio	>106dB (A-weighted, 20Hz-20kHz, 8Ω load)			
THD+N (typical)	< 0.05% (20Hz-20kHz, 8Ω load, 3dB below rated power)			
Frequency Response	20Hz-20kHz (+0/-0.25dB (8Ω load, 3dB below rated power)			
Protection Circuits	Short circuit -, DC -, Undervoltage -, Temperature - and Overload protection			
Power Supply	UREC™ universal mains switch mode power supply with Power Factor Correction (PFC) and standby converter			
Operating temperature	0-40C			
Operating Voltage/Frequency	Universal Mains, 100V-240V, 50Hz-60Hz			
Standby Consumption	TBD			
Accessories	Rack mount kit Wall/desktop mount kit			
Power Ratings	1% THD @ 120Vac and 230Vac			

\*100V line mode operates at 90V (~-1dB)

\*\* Power sharing operational

\*\*\* 16Ω power output is limited by maximum voltage swing available in LoZ mode.

## IP500.2, IP800.2, IP500.4 and IP800.4



Model	IP500.2	IP800.2	IP500.4	IP800.4
Channels	2 LoZ / 1 HiZ	2 LoZ / 1 HiZ	4 LoZ / 2 HiZ	4 LoZ / 2 HiZ
Output power @ 2.7Ω	2x 500W SE N/A BTL	1x 1200W SE 2x 750W SE N/A BTL	4x 500W SE N/A BTL	2x 1200W SE 4x 750W SE N/A BTL
Output power @ 4Ω	2x 500W SE 1x 1000W BTL	2x 750W SE 1x 2500W* BTL	4x 500W SE 2x 1000W BTL	4x 750W SE 2x 2500W* BTL
Output power @ 8Ω	2x 400W SE 1x 1000W BTL	2x 400W SE 1x 1500W* BTL	4x 400W SE 2x 1000W BTL	4x 400W SE 2x 1500W* BTL
Output power @ 16Ω	2x 200W SE 1x 800W BTL	2x 200W SE 1x 800W BTL	4x 200W SE 2x 800W BTL	4x 200W SE 2x 800W BTL
Output power @ 70V	1x 1000W BTL	1x 1200W BTL	2x 1000W BTL	2x 1200W BTL
Output power @ 100V	1x 1000W BTL	1x 1500W BTL	2x 1000W BTL	2x 1500W BTL
Maximum total output power All channels driven	1000W	1500W	2000W	3000W
Power Consumption	TBD	550W	TBD	1100W
Dimensions	TBD	TBD	TBD	TBD
Weight	TBD	TBD	TBD	TBD
Output Circuitry	UMAC™ Class D - full bandwidth PWM modulator with ultra-low distortion			
Output Voltage	85Vp / 170Vpp (unloaded) // Bridged 170Vp / 340Vpp (unloaded)			
Signal To Noise-Ratio	>106dB (A-weighted, 20Hz-20kHz, 8Ω load)			
THD+N (typical)	< 0.05% (20Hz-20kHz, 8Ω load, 3dB below rated power)			
Frequency Response	20Hz-20kHz (+0/-0.25dB (8Ω load, 3dB below rated power)			
Protection Circuits	Short circuit -, DC -, Undervoltage -, Temperature - and Overload protection			
Power Supply	UREC™ universal mains switch mode power supply with Power Factor Correction (PFC) and standby converter			
Operating Temperature	0-40C			
Operating Voltage/Frequency	Universal Mains, 100V-240V, 50Hz-60Hz			
Standby Consumption	TBD			
Accessories	2x rack ears 1x 1/2 rack plate extension for full rack mounting 2x 1/2 rack mounting into a full rack space 2x rear support			
Power Ratings	1% THD @ 120Vac and 230Vac			

IP125.2  
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