Blake RF Range
Distribution Amplifiers

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Blake RF Range
Amplifiers

A distribution amplifier is a device designed to boost and redistribute television signals received from aerials to multiple television sets or devices within a building or facility.

In essence, it takes the incoming signals used for over-the-air television broadcasting and amplifies them to ensure that they are strong and clear when distributed to various TV sets. This is particularly important in areas with weak signal reception or when splitting the signal to multiple TVs, as it helps maintain picture and sound quality.

The distribution amplifier typically has multiple output ports, allowing you to connect several televisions or devices simultaneously, without significant signal loss. This ensures that viewers can enjoy reliable and high-quality TV reception across multiple screens within the premises.

Applications

Distribution amplifiers are handy devices used in many places to help spread TV signals to lots of TVs or screens. People use them at home to make sure all their TVs can watch the same channels from one aerial or cable connection. They're also used in places like hotels, bars, schools, and hospitals to make sure people can watch TVs in different rooms. Cable companies use them in their systems, and they're great for big events too, making sure everyone can see what's happening on big screens. So, distribution amplifiers help make TV signals go to lots of TVs or screens in different places.

Amplifiers & Features

2-Way

2-Way Class 1 Distribution Amplifier
BLAAMP12

Compact 4-Way

Compact 4-Way Class 1 Distribution Amplifier
BLAAMP24C

4-Way

4-Way Class 1 Distribution Amplifier
BLAAMP24

8-Way

8-Way Class 1 Distribution Amplifier
BLAAMP28

All of these products include:

- Triple Filtered: 4G, 5G, TETRA
- MULTIBAND 2-way UHF/DAB/FM Input
- MULTIBAND 4 & 8 way: 2 inputs UHF and DAB/FM
- Smaller compact 4-way version also available
- Linear 8dB gain Ch 21-48
- Unparalleled low noise figures (2.2dB typical)
- Linear power supply for lower noise and improved reliability (not SMPS, switch mode)
- Dual colour LED short circuit protection indicator with auto reset
- FULL output (16dB) on 8-way model allows daisy chain to other amplifiers
- FULL output can be split to extend the amplifier to 10 ways
- Protected 12V line out on TV input for masthead amplifier
- Enhanced internal shielding providing EMC immunity protection
- Earth Bonding point
- Secure F type connectors
- Wall mounting tags
- Lifetime Guarantee

What customers are saying:

> Blake's lifetime guarantee gives me confidence, a testament to their belief in the quality that they offer.
>
> K Barber - TV Aerial Installer

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Amplifiers

blake UK

Specification

	BLAAMP12	BLAAMP24C	BLAAMP24	BLAAMP28
Inputs	1	2	2	2
Outputs	2	4	4	8 + Full
Signal Frequency Range VHF	87.5-230Mhz	87.5-108MHz 174-230MHz	87.5-108MHz 174-230MHz	87.5-108MHz 174-230MHz
Signal Frequency Range UHF	470-694MHz	470-694MHz	470-694MHz	470-694MHz
Noise Figure	2.5dB (typ) / 4.0dB (max)	2.5dB (typ) / 4.0dB (max)	2.5dB (typ) / 4.0dB (max)	2.5dB (typ) / 4.0dB (max)
Gain	8dB	8dB	8dB	8dB
Output Capability	102dBuV	86dBuV	86dBuV	82dBuV
Max. Recommended Input	80dBuV	77dBuV	77dBuV	77dBuV
Isolation Between Output	>20 dB	>20 dB	>20 dB	>20 dB
DC Power Requirement	12V@50mA	12V@50mA	12V@50mA	12V@50mA
UHF Output Rating	100mA max	100mA max	100mA max	100mA max

Specification CTD

	BLAAMP12	BLAAMP24C	BLAAMP24	BLAAMP28
Input Filter Characteristic	TETRA: > 30dB rejection. LTE (5G/4G) > 45 dB rejection	TETRA: > 30dB rejection. LTE (5G/4G) > 45 dB rejection	TETRA: > 30dB rejection. LTE (5G/4G) > 45 dB rejection	TETRA: > 30dB rejection. LTE (5G/4G) > 45 dB rejection
5G LTE Filtered	Accord with EN 303 354: Class 1	Accord with EN 303 354: Class 1	Accord with EN 303 354: Class 1	Accord with EN 303 354: Class 1
Mains Power Requirement	230V 50Hz at 6W	230V 50Hz at 6W	230V 50Hz at 6W	230V 50Hz at 6W
Operating Temperature Range	-20 -- +50°C	-20 -- +50°C	-20 -- +50°C	-20 -- +50°C

Our range of triple-filtered products also includes:

- Mastheads splitters
- Masthead amplifiers
- Masthead filters
- Masthead triplexer
- Power supplies (with additional LTE filtering)
- Terrestrial Launch Amp