Other Ranges of Products & Services from Blake UK, PROception & CappSure...

• TV, Wi-Fi & 4G Aerials	**www.blake-uk.com/aerials**
• Brackets & Installation Equipment	**www.blake-uk.com/bracketspoles**
• AV TV Wall Mounts	**www.blake-uk.com/tvbrackets**
• CappSure Wi-Fi IP Cameras	**www.blake-uk.com/cappsure**
• Coaxial Connectors & Adaptors	**www.blake-uk.com/procon**
• RF Signal Distribution	**www.blake-uk.com/rfsignal**
• HDMI Signal Distribution	**www.blake-uk.com/hdmi**
• LTE Filtering Products	**www.blake-uk.com/lte**
• Satellite Mounts	**www.blake-uk.com/satmount**
• Bespoke Manufacturing	**www.blake-uk.com/bespoke**
• UK R&D	**www.blake-uk.com/researchdevelop**

EU Declaration of Conformity

Blake UK hereby declares that the radio equipment type PROAMP11, PROAMP12 and PROAMP12R are in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: www.blake-uk.com/DoC

2 Year Guarantee

This guarantee covers failure of your PROception product resulting from manufacturing defect within a period of 2 years from the date of supply to the end-user. This guarantee does not cover damage to the product caused by abuse, tampering, defective installation or natural causes such as lightning discharge. Repair or attempted repair, other than by the manufacturer, will render this guarantee void. This guarantee does not affect a consumer's statutory rights.

Performance data given are typical unless otherwise stated. We reserve the right to change product designs and specifications without prior notice.

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Sheffield, United Kingdom, S3 9PT

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Email: support@proception.co.uk

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PD2011-9002-05

VHF/UHF Set-Back Amplifiers Instruction Manual

PROAMP11 & PROAMP12 www.blake-uk.com/amp
PROAMP12R www.blake-uk.com/amp12r

These general-purpose amplifiers have a wide range of uses in small domestic reception and distribution systems. The PROAMP11 and PROAMP12 are traditional 1- and 2-way aerial signal amplifiers. The PROAMP12R is a 2-way amplifier with a 7MHz return path, for use with infrared remote control extender systems of the type which connect to the RF OUT-2 output of a Sky* Digibox.

All these amplifiers are compliant with the Radio Equipment Directive 2014/53/EU and meet the harmonised standard EN 303 354 for Class 0. As such they work on ALL current UK DTT channels including channel 60, are resilient to interference and overloading, and cope with multiple carriers. In cases of strong LTE interference a separate 4G filter should be fitted. These are supplied free by at800, or ***higher performance models*** can be purchased from www.blake-uk.com. (To ***pass*** channels ***up to and including channel*** 59 use proLTE1/59, or ***if*** channels ***58 and 59 are not required, use*** proLTE1/57).

Features:

- Frequency range 88 - 862 MHz (PROAMP11 & PROAMP12) or 470 - 862 MHz (PROAMP12R).
- One-way signal booster / line-extender amplifier (PROAMP11).
- Two-way aerial distribution amplifier (PROAMP12).
- Two-way return path distribution amplifier for Sky* IR remote control (PROAMP12R).
- Very high output capability.
- Built-in power for two IR eyes (PROAMP12R).
- Channels 61-68 can be used for locally modulated signals.

Fixing:

Fix the amplifier to a sound vertical surface such as a wall, skirting board or equipment mounting board. Ventilation gaps of at least 50 mm should be left around the front and sides of the unit. More clearance will be required below the unit to allow access for the signal cables.

Being fully screened, the amplifier will not be affected by proximity to an antenna. However clearance of not less than 300 mm from the nearest part of the antenna should be observed to avoid degrading the antenna's performance. Manufacturer's instructions regarding routing of the cable from the antenna terminal box must be followed if provided.

Do not leave the amplifier resting on a carpet or install it where it may become smothered with curtains or other soft furnishing fabrics. When installing the amplifier unit in a roof space ensure that it will not come into contact with thermal insulation material.

Signal Connections:

To preserve RF screening integrity the signal connections to the amplifier should be made using good quality coaxial cable and connectors. This is particularly important with digital terrestrial TV (DTT) to minimise the ingress of impulsive electrical interference from home appliances.

- The use of cable benchmarked under the CAI scheme is recommended.
- Amplifiers PROAMP11 and PROAMP12 require IEC connectors (IEC 60169-2).
- Amplifier PROAMP12R requires Type-F connectors (IEC 60169-24).

For both connector types the use of crimp connectors, used in accordance with the manufacturers instructions will give the best results. The importance of achieving sound braid connections cannot be over-stressed. F connectors should be tightened with a spanner, not left finger tight.

Fig.1 - Simple distribution system feeding two TVs from one antenna.

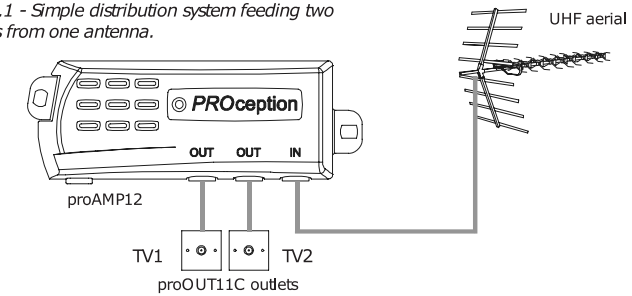


Fig.2 - TV and FM radio distribution to two rooms.

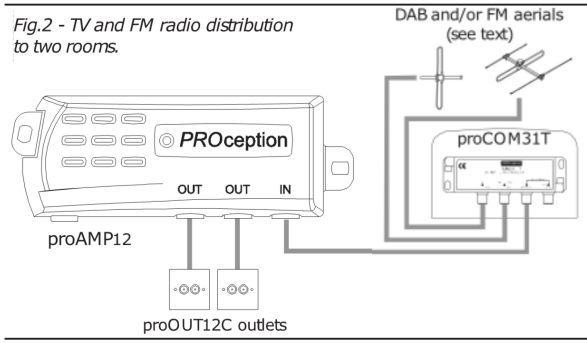
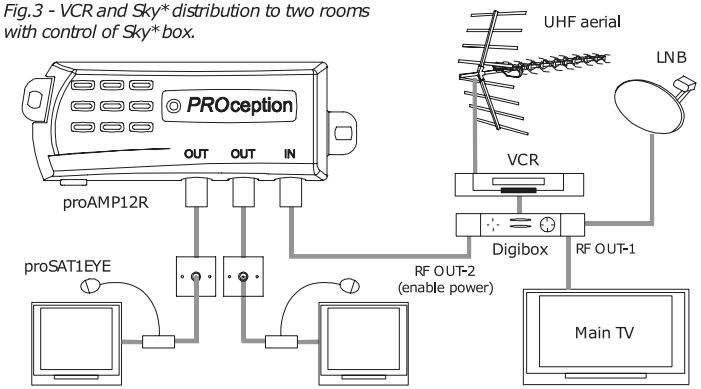


Fig.3 - VCR and Sky distribution to two rooms with control of Sky* box.*



Note: SCART cables have been omitted for clarity.

Features	PROAMP11	PROAMP12	PROAMP12R
Number of outputs	1	2	2
Signal frequency range (fwd)	87.5-862MHz	87.5-862MHz	470-862MHz
Noise figure	2.5dB	3dB	3dB
Gain to each output	12dB	4dB	4dB
Output capability (see note below)	100dBµV	100dBµV	100dBµV
IR receiver ('eye') line-power	-	-	9V@15mA (protected)
Signal connector type	'IEC'(IEC 60169-2)	'IEC'(IEC 60169-2)	'F'(IEC 60169-24)
Mains power requirement	230V 50Hz@2W (4 VA)		
Operating temperature range	-10 - +40 °C		

Note: Output capability is given for 5 analogue TV channels up to 6 DTT multiplexes at -10 dB relative level.

Using remote control:

The PROAMP12R is compatible with the PROception PROSAT1EYE and other Sky* remote control extenders. To use the remote control feature it is essential that the amplifier input is fed directly from the RF OUT-2 connector of the Sky receiver. The amplifier provides 9 V DC power for up to two remote receiver eyes. Note that some Sky receivers require their RFOUT-2 power option to be enabled in order for remote control extension to work. On the Sky handset press SERVICES, 4, 0, 1, SELECT, then select the SECOND OUTLET POWER SUPPLY option. Set this to be ON, SAVE SETTINGS and BACK UP out of the menu.

As always with wired remote extender systems, it is essential to maintain DC continuity through the coaxial cabling between the amplifier output(s) and the IR receiver equipment in the remote room(s). For this reason isolated outlet plates cannot be used in the remote rooms and all connections must be securely clamped, crimped or soldered. When troubleshooting remote control problems, the first step should be to check for the presence of approximately 9 V DC on the cable in the remote room.

Safety Instructions

Overheating:

These amplifiers are intended for use in moderate climates only. They should not be used in tropical regions. The recommended ventilation clearances and other precautions given in the relevant section of this instruction leaflet should be observed to prevent overheating. No unit should be fixed where it is likely to become smothered by soft furnishing fabrics such as curtains, or by thermal insulation material in a roof space or building void. Mains powered equipment should not be left resting on a carpet

Water and fire risks:

The appliance is not waterproof. It is intended for indoor use only and must not be fixed where it could be exposed to dripping or splashing water. Objects containing liquids should not be placed on or near the appliance. To prevent risk of fire, no object with a naked flame should be placed on or near the appliance, or its associated wiring.

Mains plug and disconnection from the supply:

The appliance is supplied with a standard fused plug fitted. If this is unsuitable, refer to the instructions below. If you need to change the fuse in the fitted plug, a 3 Amp fuse to BS 1362 carrying the ASTA or BSI approval mark must be used. Always replace the plastic fuse carrier when renewing the fuse. The plug (or other means of disconnection from the supply, if used) should remain readily accessible for operation when necessary. The LED power indicator on this equipment should not be regarded as providing reliable indication of supply disconnection.

Changing the plug:

If the fitted mains plug is not suitable for the socket-outlets in use, it should be cut off and a new plug fitted...

Wiring the new plug: Instructions supplied with the new plug should be followed. The brown wire must be connected to the live (L) terminal of the plug and the blue wire to the neutral (N) terminal. Neither wire should be connected to the earth (E) terminal of a 3-pin plug (the appliance does not require an earth connection). Ensure that the cord grip in the plug is correctly used and clamps the sheath of the cord firmly.

Fuse Rating: If the new plug is a fused type, the fuse fitted should be rated at not more than 3 Amp.

Caution: The old plug should be destroyed immediately since it would be dangerous if plugged into a live socket.

Related Products:	Link to Website:
Distribution Amplifiers: 4, 6 & 8-Way FM/DAB/UHF Distribution Amplifiers	www.blake-uk.com/proamp24-28
PROSAT1EYE: IR Control Eye 'Magic Eye	www.blake-uk.com/eye
PROLINK22: Flexible 'I/O Link' RF Modulator for Sky	www.blake-uk.com/prolink22
PROCON01: F Male Twist-On +O-Ring - RG6/100	www.blake-uk.com/procon01
PROCON02: F Male Twist-On +O-Ring Black - RG6/100	www.blake-uk.com/procon02
PROCON12: F Male Crimp-On Black - RG6/100	www.blake-uk.com/procon12
PROCON22: F Male Snap Seal / Compression - RG6/100	www.blake-uk.com/procon22