

VISION™

Powerful Products | Easy Installation | Excellent Value

XDA™ External Distribution Amplifier Kits

V21-1406 Kit	XDA4	1x 4-Way Distribution Amplifier and 12V 350mA Indoor PSU
V21-1806 Kit	XDA8	1x 8-Way Distribution Amplifier and 12V 350mA Indoor PSU
V21-2420 Kit	XDA4+	2x 4-Way Distribution Amplifier with Pre-amplifier and 12V 350mA Indoor PSU

What does the product do?

The Vision™ EXTERNAL DISTRIBUTION AMPLIFIER (XDA™) units are designed to distribute radio and television signals to several rooms of a household, for connection to separate TV or radio sets. XDA™ units also have a built-in facility to remotely control a BSkyB Digibox by using the consumers existing or additional Sky remote controls. Please note that a Visionlink™ "eye" needs to be added (optional extra) to each location that requires this facility.

Each XDA™ has enough signal gain to overcome normal household cable and component losses, to provide good signal levels to each outlet. V21-1406 and V21-1806 have one input connection suitable for digital and analogue TV and radio signals and the RF output from a Sky Digibox. A range of aerial combiners is available as an optional extra. The units have 4 and 8 room outputs respectively. The V21-2420 is also a 4 output XDA™ with the added benefit of a VHF (FM/DAB) and UHF (TV) aerial preamplifier with a UHF gain of 20dB for poor signal areas, thus avoiding the need to fit a separate masthead amplifier and power supply.

Main Product Benefits

1. Very low noise performance for greatly enhanced reception of digital and analogue TV and radio signals.
2. High quality screening; Helps prevent external interference from degrading reception quality. (Mobile phones, electrical noise etc.)
3. Gold plated connectors for improved low loss connectivity.
4. XDA™ units (BUT NOT THEIR POWER SUPPLIES) have a weatherproof, outdoor housing designed for indoor or outdoor installation.
5. XDA™ units can be mounted outdoors on a pole (mast) or wall/ fascia location, avoiding the need for attic or loft installation. This completely avoids the serious health and safety issues associated with loft work, such as inhalation of fibreglass, fragile ceilings etc. It is also easier to externally surface wire distribution cables than to install cables inside a dwelling where decoration and furnishings can be an obstacle to neat installation. Externally, cables can be hidden behind drain down-pipes or corners in brickwork enabling a discrete yet easy installation.
6. Often in roof spaces there is no suitable electricity supply and UK legislation states that only a qualified electrician can install a new mains supply. XDA™ units receive their DC power via the coax cable (line-powered) making mains powering easy from a normal 13amp socket in the main living room.
7. XDA™ kits include a 12V 350mA switch-mode power supply, specially designed to operate a XDA™ unit and a VISIONLINK™ "eye" per output. Use of any other power supply will invalidate the product warranty.
8. Full short circuit protection is provided by the power supply and additional protection is included for each output. In the event of a short circuit on one of the outputs, the remainder of the system will continue to operate normally.

Installation

For proper system operation it is strongly recommended that only high quality "F" connectors (such as V17-100 or V17-001 or V17-002) be used to connect to an approved copper double-screened 75-ohm coaxial cable.

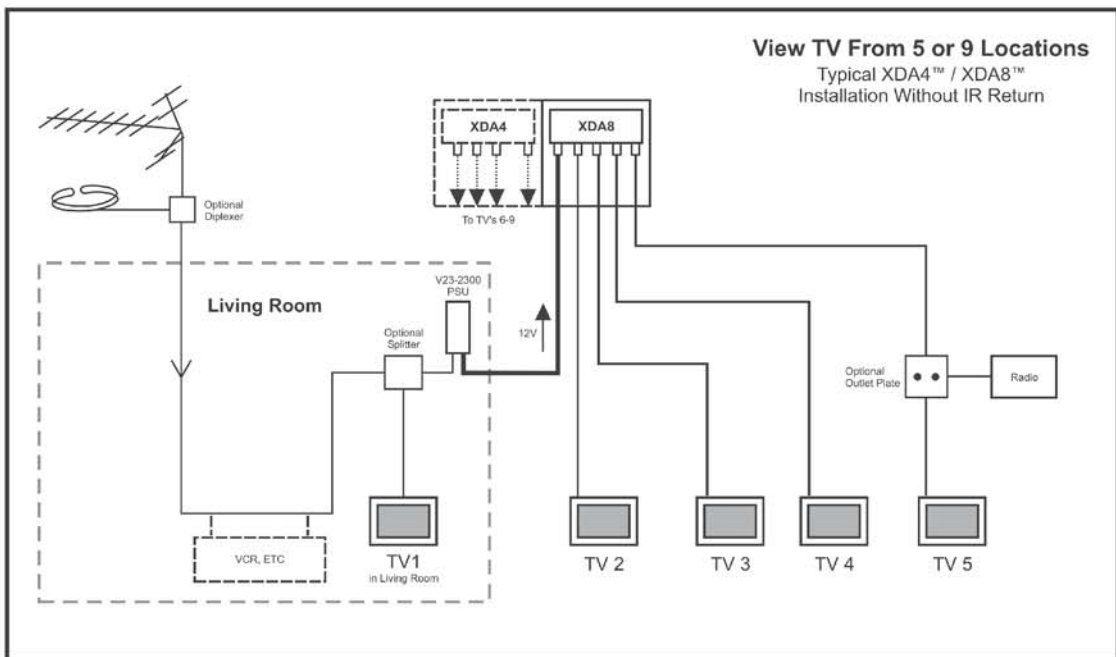
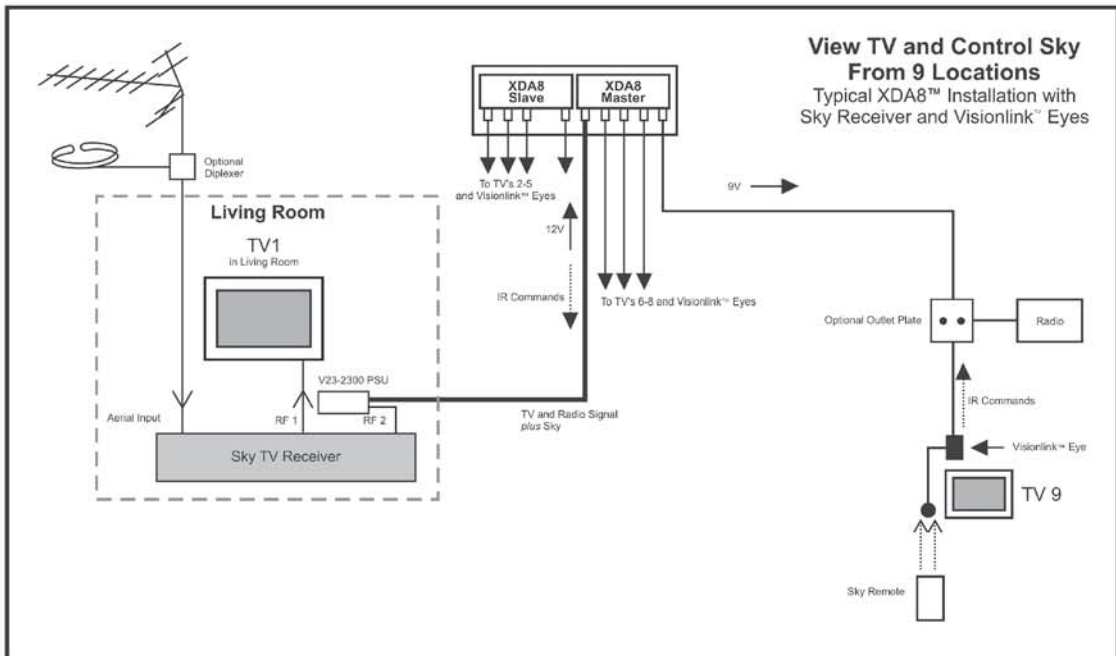
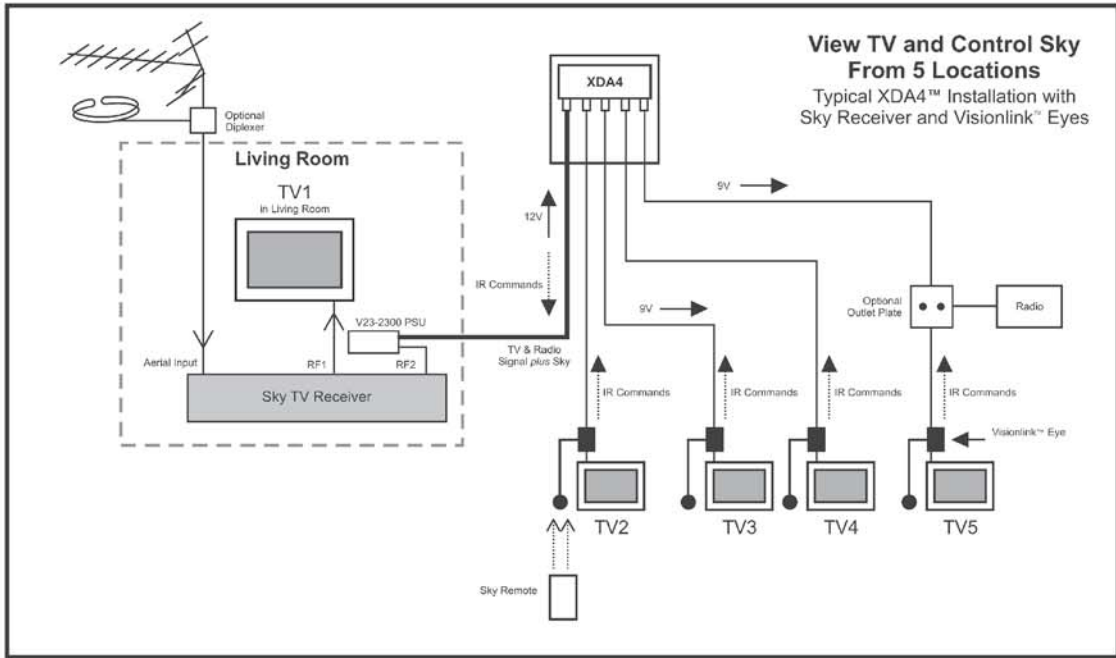
- Step 1 Mount the XDA™ on the aerial mast or in a convenient position at the gable or under the eaves of the roof. The XDA™ can also be mounted inside the loft or roof space. Connect the aerial downlead directly to the input of the Sky Digibox. NOTE: on V21-2420 the aerials are connected to the VHF and UHF inputs of the pre-amplifier respectively. On this model connect the pre-amplifier output marked "combined" to the 12v connection of the PSU and the output of the PSU to the aerial input of the Sky Digibox.
- Step 2 Run the output coaxial cables to each required outlet point. NOTE! Any wall outlet plate must be DC pass, not isolated or DC blocked. Use of an incorrect outlet plate will remove the DC power required for the Visionlink™ "eye". To see if power is passing through a particular wall plate (after the installation is complete and the power applied), the Visionlink™ has a "power on" LED on the body. If this is illuminated, the power is passing.
- Step 3 Connect the XDA™ input (return) using coaxial cable to the "signal output" (12V connection) of the power supply. NOTE The V21-2420 is powered via the pre-amplifier output marked "combined".
- Step 4 Connect the "signal input" of the power supply to the output "RF2" of a Sky receiver or where this is not installed directly to the incoming aerial signal. IMPORTANT! Do not power the XDA™ from the Sky receiver directly as this may overload the Sky Digibox.
- Step 5 Connect the power supply to the mains and switch on. At this point an LED's in the power supply and the XDA™ will illuminate to show that it is correctly connected and the power supply is on. If you have VISIONLINK™ "eyes" connected, their LED's should also illuminate.

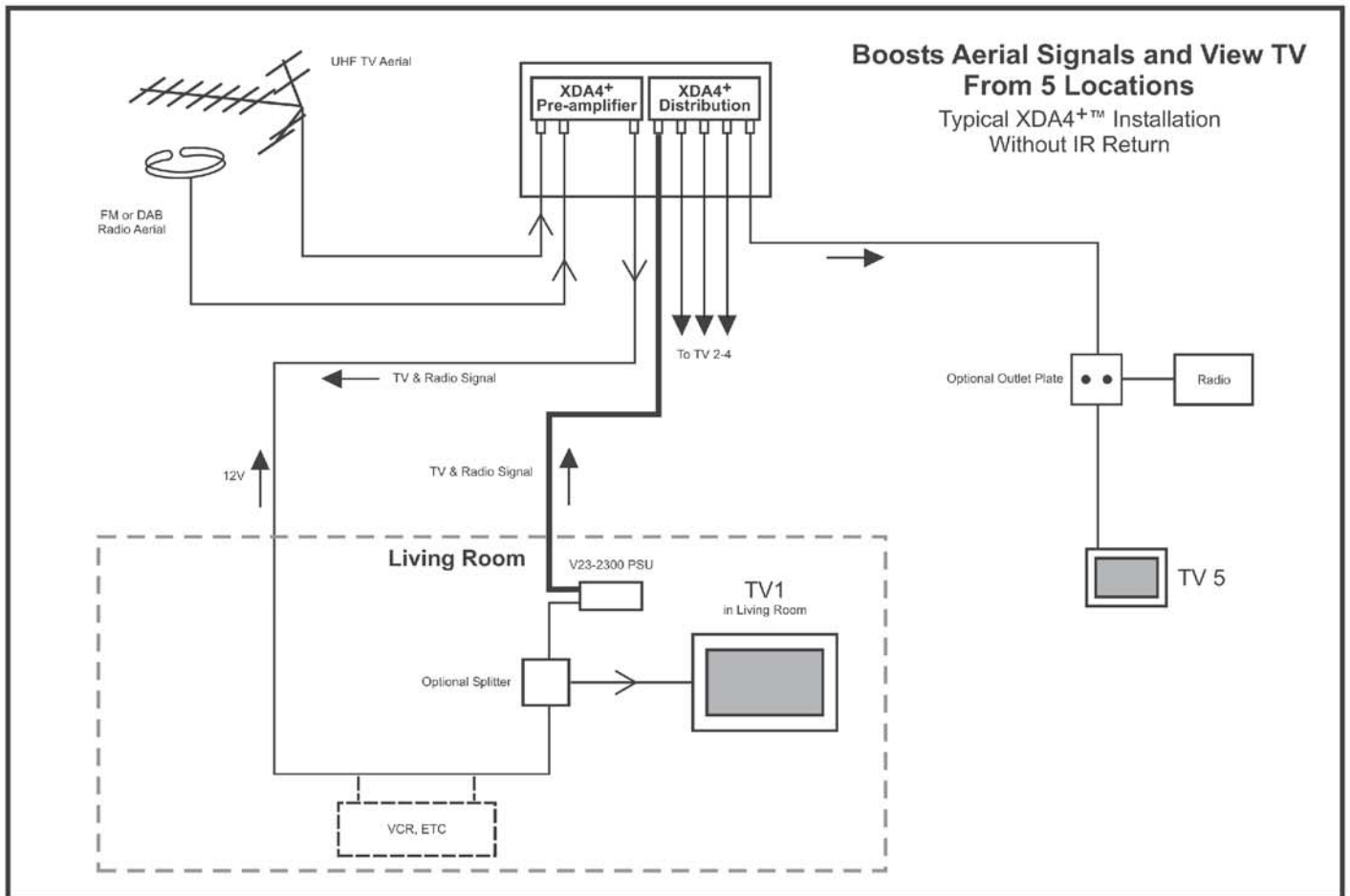
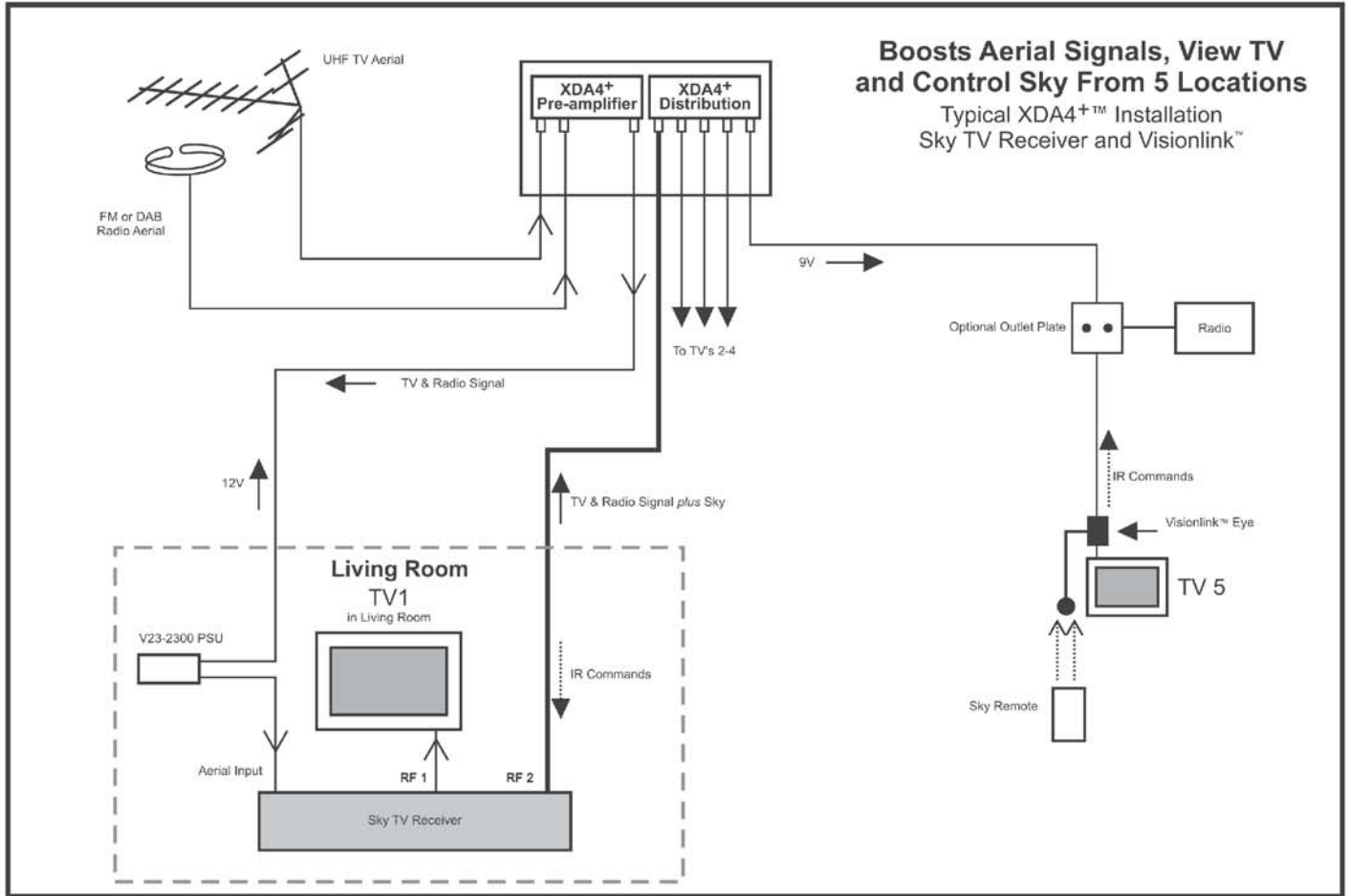
IMPORTANT SAFETY INFORMATION!

- ! XDA™ units are designed for outdoor or indoor installation but the power unit provided is intended only for indoor installation.
- ! Do not allow the power supply to be exposed to areas of high humidity or come into contact with moisture.
- ! Keep the power supply away from areas of heat such as central heating boilers or radiators.
- ! XDA™ units are designed to operate at 12V DC only. Use only the V23-2350 power supply provided with the kit.
- ! The power supply is fitted with a UK plug fitted with a 3A fuse. If this fuse needs to be replaced, ensure it is of the same type and rating. Do not cut off or damage the mains plug. Do not hard-wire to an electrical spur.
- ! Do not allow the power supply or XDA™ unit to hang on its coaxial cables as this may cause damage to the product and invalidate the warranty.
- ! Do not install any part near sources of heat such as a central heating system or boiler flue. When installing indoors, ensure adequate ventilation and make sure the unit is not covered.
- ! Ensure that the power supply is properly secured to a wall or skirting board using the fixing lugs provided. Do not allow the unit to lie on a carpet or be covered by soft furnishings and ensure adequate ventilation.
- ! Do not connect the power supply to the mains electricity until all coaxial cable connections are correctly completed.

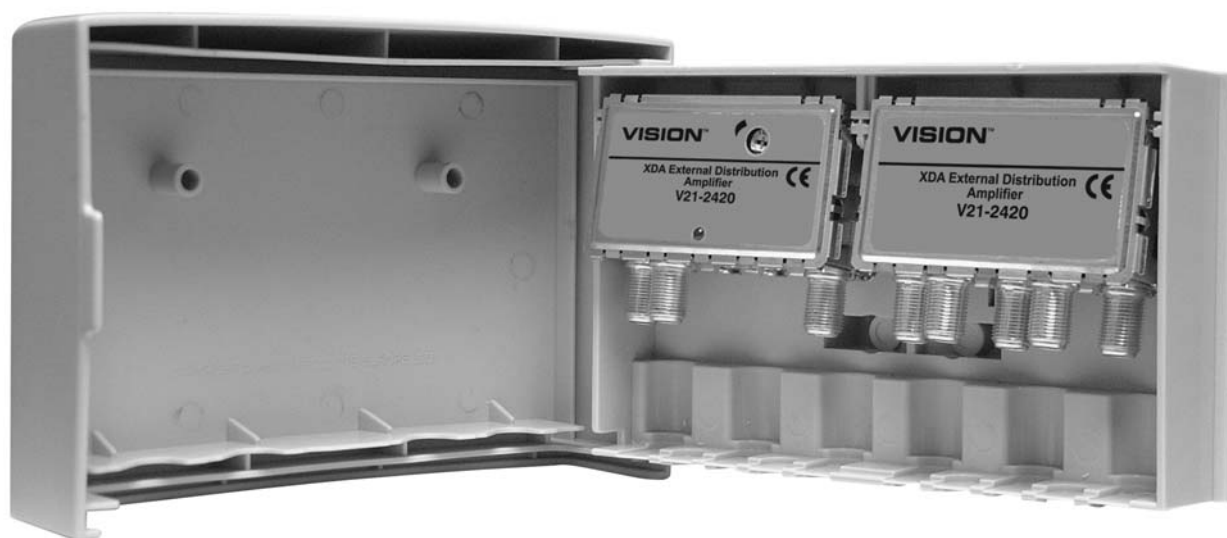
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XDA™ Technical Specification



Model	XDA4 V21-1406	XDA8 V21-1806	XDA4+ V21-2420
Dist Amplifier Input Frequency MHz	85-862	85-862	85-862
Pre-amplifier Input Frequency MHz	-	-	85-240, 470-862
No of distribution outputs	4	8	4
Dist Amplifier Gain	2 to 4dB (VHF), 6dB (UHF)	2 to 4dB (VHF), 6dB (UHF)	2 to 4dB (VHF), 6dB (UHF)
Pre-amplifier Gain	-	-	2 to 8dB (VHF), 10 to 20dB (UHF)
Dist Amplifier Maximum Input	85dB μ V	85dB μ V	85dB μ V
Pre-amplifier Maximum Input	-	-	80dB μ V
Dist Amplifier Noise Figure	4dB	4dB	4dB
Pre-amplifier Noise Figure	-	-	1.4dB
Gold plated Connectors	F-female	F-female	F-female
Power Consumption	12V 110mA	12V 185mA	12V 155mA

Model	V23-2350
Power Requirement	200-265V AC 50Hz
Output Voltage	12V 350mA
Gold plated Connectors	F-female



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