

Antiference®

by *Kingray*



Who is Kingray?

Kingray TV signal distribution products have been the unwavering choice of the TV installation industry virtually from the advent of television services in Australia. For over 50 years Kingray amplifiers, converters and modulators have consistently delivered crystal clear, interference free TV reception across the country and more recently across the Asia Pacific region.

Antiference by Kingray Professional Series

The Antiference by Kingray Professional Headend Series is now available in the United Kingdom.

Today as we witness a growing convergence of 'Free to Air' television, subscription services, 'pay per view' and Internet delivery techniques; Antiference remains at the forefront of this technological evolution with cost effective, pragmatic solutions to both terrestrial and satellite based signal distribution methodologies.

The new Antiference by Kingray Professional Series sets a new standard in headend equipment, engineered 'from the ground up' to meet the exacting demands of system designers, carriers and regulators in both Australia and around the world.

At the heart of an Antiference by Kingray Professional Series installation lies the KR-110 19" rack with its KLA-110 40 dB launch amplifier and low noise power supply; to ensure total system flexibility, up to ten KCC-110 channel converters/processors may be mounted.

Ease of installation, commissioning, and functionality were prime considerations during the development phase of the Antiference by Kingray Professional Series. Practical solutions like the simple daisy chain signal couplers, LED status indicators, upgradeable firmware and PC based calibration reflect the no-nonsense innovation incorporated in this remarkable product range.

A further advantage is flexibility, particularly in smaller systems where a 'stand alone' processor may be powered with a standard Kingray PSK24 power supply.

The Antiference by Kingray Professional Series is proudly manufactured in Australia and is accompanied by a comprehensive Antiference 3 year warranty.

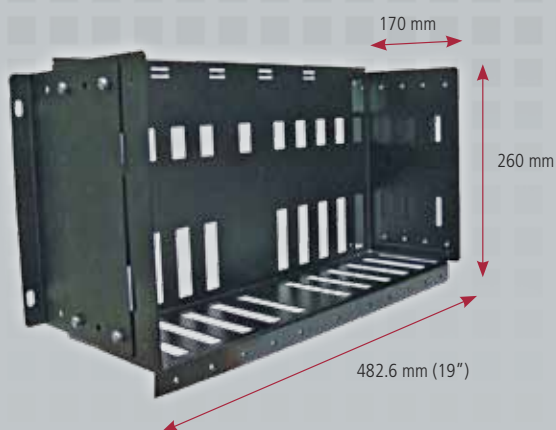


KR-110 Headend Rack

The KR-110 is a robust, dual purpose rack that will hold up to 10 modules and a KLA-110 launch amplifier/power supply. The rack can be wall mounted or installed in a 19" rack simply by reversing the side support brackets.

Features

- Strong press metal design
- Durable high quality powder coat finish
- Quick and easy to assemble



KCC-110 Channel Converter/Processor

The KCC-110 is the most advanced channel converter/processor available. Whether the KCC-110 is being used to output the same channel as its input channel (processing) or a different output channel to its input channel (converting), it is capable of adjacent channel operation on both input and output.

KCC-110 Features

- Superior adjacent channel performance due to double saw filtering.
- Very high MER level, up to 36 dB*
- Input AGC circuitry
- High linearity and low phase noise
- Adjustable output power level control
- Resolution 125 kHz steps
- Adjustable bandwidth
- Stand Alone or 19" rack mountable
- Programmable via any computer with an Ethernet connection.
- Programmable via USB when using as a 'stand alone' module.
- Remote control capability via KLA-110 with in a VPN
- Precision engineered die-cast housing



KCC-110 Specifications

Input frequency range	44 – 862 MHz
Output frequency range	44 – 862 MHz
Frequency resolution	0.125 MHz
Input / output channel naming	By frequency (software selectable)
Channel bandwidth	7/8 MHz
Output S/N and spurious	>55 dB
Input level range	65 – 95 dB μ V 80 dB μ V optimum analogue 60 dB μ V optimum digital
AGC range	30 dB Min. automatic
Output level adjustment	60-80 dB μ V
Phase noise	<-85 dBC/Hz at 10 kHz, <-103 dBC/Hz at 100 kHz
Monitor output	-30 dB
AGC LED	Green - Within range, Amber - Low level, Red - Excessive level
Supply voltage	24 V DC
Power consumption	12 W MAX
Operating temperature range	0 to 55° C
RF shielding	>70 dB

* Dependent on quality of the incoming signal

KLA-110 Launch Amplifier/Power Supply

The unique design of the KLA-110 incorporates a Launch Amplifier, Power Supply and Programming Interface. Designed to be mounted in the middle of the KR-110. The power supply is designed to power 10 modules, it can also provide external power to a masthead or preamp if required.

Features - Amplifier

- High output
- Low noise figure
- Low insertion loss, input separator / output combiner
- Adjustable output level
- Adjustable gain
- -30 dB test point
- Wide bandwidth 44 MHz to 862 MHz
- Embedded web based program
- Efficient low noise switch mode power supply



Accessories



KLA-110 power cord 240V
- **KLE02**



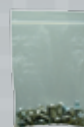
Power/data bus cable
- **KLE04**



RF links for modules
- **KLE03**



RF link support bracket
- **KSB01**



KR-110 Rack screw pack
- **SCREWPK**



USB connector label
- **KPLABEL**

KLA-110 Specifications - Distribution Amplifier

Input frequency range	44 – 862 MHz
Output frequency range	44 – 862 MHz
Output S/N and spurious	>55 dB
Maximum input level	95 dBμV
Maximum output level	118 dBμV* @ -60 dB IMR (DIN45004B)
Noise figure	<2 dB (After combiner)
Monitor output	-30 dB
RF Input / output level monitor	Via USB on power supply unit
Supply voltage	24 V DC
Power consumption	5 W MAX
Operating temperature range	0 to 55° C
RF shielding	>70 dB

* 2 channel input non adjacent

KLA-110 Specifications - Power Supply

Operating voltage	110 to 240 V AC, 50/60 Hz
Supply voltage	24 V DC
Stability	+/- 100 mV
Power capability	150 W MAX
Operating temperature range	0 to 55° C
RF shielding	>70 dB
Power lead	Standard 3 pin IEC power cable

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