

## Datasheet

### Vision Gold Masthead Amplifiers

### Single Input / Single Output

- V20-1360L 13dB Fixed Gain - Ultra Low Noise Masthead Amplifier Ch21-60**
- V20-2760L 27dB Variable Gain - High Gain Masthead Amplifier Ch21-60**



- Ultra low noise figure <1.2dB & super flat gain response ±0.5dB
- Low power consumption, 5V to 12V DC working
- Fully screened with gold F-connectors for superior connectivity
- SMD technology with compartmentalised screening for high performance
- Accepts "type 125" coaxial cables and connectors for extra long cable runs
- High quality ventilated weatherproof PE housing (IP53 rated)
- Designed and manufactured in the UK
- Masthead amplifier and PSU kits available



Vision New Gold masthead amplifiers are industry leading designs for amplifying very weak digital TV signals. Models V20-1360L and 2760L have additional filtering to minimise the effects of 4G-LTE interference where this would cause overload in traditional masthead amplifiers.

V201360L, V20-2760L and V20-4260L are designed and built by Vision in the UK, for UK conditions and frequencies.

When amplifying weak digital signals, the amplifier noise figure (N/F) is critical. The noise of the amplifier will be added to the noise in the incoming weak signal. The lower the amplifier Noise Figure, the weaker the digital signal that can be reliably amplified. So these very low noise amplifiers will work where others fail. Vision designed these amplifiers using the latest semiconductors and SMD technology for industry leading low noise figures and reliability.

Model	V20-1360L	V20-2760L
Input Frequency	470-790MHz	
Gain	13.5dB	27.5dB (15-27.5dB)
Gain Flatness	±0.5dB	±1.0dB
Interstage Level Adjustment	Fixed	0-12dB
Maximum Output Level*	101dBµV	94dBµV
Maximum Input Level	91dBµV	86dBµV**
Noise Figure	<1.2dB	<1.4dB
Filter Rejection	400MHz -34dB / 820MHz -26dB	400MHz -47dB / 820MHz -29dB
DC Power	5 - 12v DC	
Power Consumption	55mA	65mA
Connector	Gold plated F-female	
Fixing	Nylon-tie up to 60mm masts / or bulkhead screw fixing	
Dimension Housing / Weight	100mm x 84mm x 56mm / 154g	
Bulk Packing / weight	Packs of 10 shrink-wrapped 1.58kg	
DC Power Supply when purchased as a kit	V23-2102 / V23-2110 12V 100mA with short circuit and overload protection	
RoHS Compliance	RoHS compliant. Intended for professional fixed installation only	
*Maximum Output EN50083-3 (IMD <sub>3</sub> -60)	**Maximum input level quoted with attenuator set to maximum -12dB attenuation on V20-2760	

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