

Helping you look to God, Daily...

That's the dream *Vision Christian Media* and thousands of supporters around the country share and are working towards.

Reaching into big cities, rural towns & isolated communities.

Vision provides Christian radio programming via relay to hundreds of transmitters across the country. The service is prized in many places varying from remote outback towns to major cities and from medium security prisons to popular tourist destinations.

We are a not-for-profit charity serving the community through a range of broadcasting and publishing activities. We're non-denominational and seek to promote unity through love and encouragement to listeners.

A lifeline to Aussies, every day.

Every year, thousands of listeners tell us how *Vision* is impacting their lives and strengthening their faith. Only 20% of Australians attend a church once a month or more, but 70% claim to hold a Christian worldview.

Vision reaches out to these people through an upbeat mix of contemporary Christian music, top-of-the-hour news viewed through a Christian perspective, positive and practical teaching such as *Focus on the Family*, the lively *Kids' Stuff* segment each afternoon and the live interactive breakfast show, *Rise & Shine*.



Stories of what God is doing in the lives of people through *Vision*

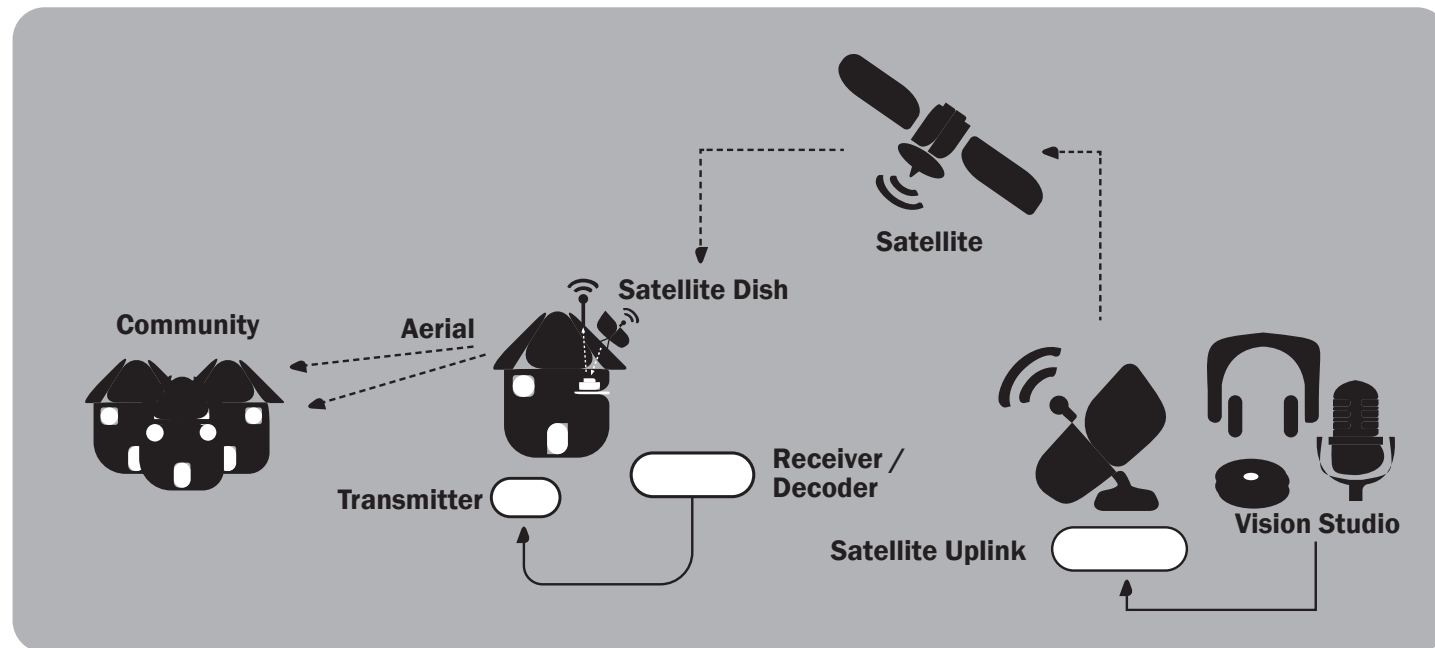
'I am wheelchair bound and I'm just calling to say how much I love Vision. It's not a radio station, it's a lifeline.'
Eunice

'On behalf of many listeners here in this correctional facility and I'm sure in many others, I want to thank Vision for your amazing ministry.'
Brad

'We live in a small remote community and we are blessed daily by the contents of Vision. It does make a difference in such an isolated place. We truly hope many others will be blessed by your ministry.'
Fiona

'I cannot tell you of the countless number of times that the Lord has used your words, or the music that you have selected to speak words of encouragement and motivation to my heart... it is so refreshing to be able to have your station as a haven.'
MZ

How does the Network Operate?



From Studios to Satellite

Programmes are broadcast from the *Vision* studios in Springwood, Brisbane QLD. The signal is transmitted to the Optus 10 satellite above the equator; from there, the signal covers the entire Australian continent.

With a suitable VAST satellite receiver and satellite dish pointed at the satellite, anyone can listen to digital quality *Vision* programmes direct from the satellite.

Internet users

The signal is also streamed over the internet for the convenience of those with broadband access and available from our free app. To fulfil our vision (to be a leader in communicating the Gospel message in Australia) *Vision* has facilitated the development of a network of radio relay stations across the nation.

Local FM & AM users

In partnership with many local church communities, *Vision*

has established over 700 relay stations since 1999. Many more potential stations are at various stages prior to activation. These stations receive the radio signal by satellite and rebroadcast it to local communities on the FM or AM radio band. The majority of these stations are 1 watt Low Power Open Narrowcast (LPON) licences but we also operate a significant number of High Power Open Narrowcast (HPON) services which have a larger broadcast radius.

Radio Reception

A 1 watt FM relay station (FM frequencies of either 87.6 MHz, 87.8 MHz or 88.0 MHz) located in a suitable position can potentially be heard on car radios at a distance of 5km from the broadcast site in reasonably flat terrain. Reception inside buildings is more restricted and difficult to predict because it is affected by factors such as the type of radio receiver and aerial used, the topography of the terrain, the type of building

construction material used and the distance from the broadcast site.

Licences for high power transmitters are rare but may still be available in some areas. This type of licence is subject to more stringent government regulations and is more expensive to purchase, establish and maintain; however they can be very cost effective and efficient due to the larger coverage area they offer.

Advantages of LPON

Although we are also keen to meet the demand for our service in larger cities, our main focus is the regional towns where Christian radio is not readily available. A *Vision Christian Radio* LPON relay station established near the centre of a town can provide constant access to high quality Christian radio programming without the ongoing expense and organisational responsibility of establishing a conventional community radio station.

The Relay Station

The broadcast system consists of the following items:



1. Satellite Dish

We use a domestic offset satellite dish. It can be mounted on a roof, or almost anywhere on the broadcast site, providing it is safe from vandals and there are no obstructions between the satellite (in the northern sky) and the receiving dish. It would be positioned, in consultation with the host, to minimise visual impact and preserve the aesthetic qualities of the building.



2. Antenna & Mount Bracket

We use a vertical antenna fixed to a steel tube mast and secured by light steel stay tubes. The mast is a single section tube of 35 mm diameter. The transmitting antenna is totally encased in fibreglass. Care is taken, to design and place the antenna, so that visual impact is minimised and the aesthetics of the building are preserved.



3. Satellite Receiver

The satellite receiver (or decoder) is smaller in size than a DVD unit and should be positioned near a power point. It can be located together with the transmitter, ideally in an enclosure provided by *Vision* on a shelf.



4. Transmitter

The transmitter is similar in size to a large DVD unit and broadcasts at less than 10 watts on a FM frequency in the range of 87.6-88.0MHz (the very bottom of the FM radio dial). Because this is a low-power system, it is very unlikely to cause any interference with other electrical equipment on site. However, if this were to occur, it would be shut down until a solution to the interference was found.



5. Cables

We use:

- RG6 quadshield coaxial cable (8mm diameter) — satellite dish to decoder.
- RG213 radio transmitter feeder cable (12mm diameter) — transmitter to antenna
- Lightning Arrestor



6. Electricity

A 240 volt general purpose electrical outlet is required at the site. Any necessary electrical work would be carried out at the expense of *Vision Christian Media* by qualified technicians, in accordance with industry standards. The operational power consumption of the equipment is usually less than \$150 per year. Many hosts of our equipment are happy to absorb this cost as a service to their community. However, we would be happy to discuss this with you.

In Summary

To achieve the best possible outcome for a *Vision Christian Radio* relay station, the following are needed:

- A reliable 240 volt (mains) power supply.
- A clear northerly aspect to receive the satellite signal.
- An elevated location for the antenna.
- The receiver/decoder and the broadcast transmitter need to be housed close to the power supply in a cool environment in an enclosure or on a shelf which protects them from the weather, tampering and insect or rodent damage.

Vision Christian Radio has hundreds of installations across Australia. We are confident that any impact on your daily operations will be minimal. However, if any conflicts do occur, we will immediately shut down the transmitter until the problem is rectified.

If you would like to know more about *Vision Christian Media*, visit our website; **vision.org.au**

VISION

christian media

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