

# Apparatus Licence

Issued by Delegate of the Australian Communications and Media Authority



## Licensee details

Customer ID	159310
Licensee	THE WIRELESS INSTITUTE OF AUSTRALIA VICTORIAN DIVISION
Trading name	The Wireless Institute of Australia Victorian Division
Licensee address	9 Carrington Street, SYDENHAM, VIC 3037

## Licence details

Licence service	Amateur
Licence subservice	Amateur Repeater
Licence number	213159/9
Callsign	VK3RBA
Date of issue	16/02/2024
Date of effect	16/02/2024
Date of expiry	25/03/2025

## Licence conditions

Your licence is subject to conditions set out in the *Radiocommunications Act 1992*. Your licence may also be subject to such other licence conditions as determined by the ACMA (in licence condition determinations) from time to time, and is also subject to special conditions as detailed on this licence.

The conditions that are imposed on a licence vary according to the type of licence issued, the service being operated and the section of the *Radiocommunications Act 1992* under which the licence has been issued. For further information about the conditions that apply to your licence, please contact the ACMA (see contact details below).

### **Rights of appeal**

A decision by the ACMA to impose further conditions or revoke or vary the conditions of your licence may be reviewable. If you are affected by, and dissatisfied with, such a decision you may apply to the ACMA to have the ACMA reconsider the decision under section 288 of the *Radiocommunications Act 1992*.

An application for reconsideration must state the reasons for the request, and should be sent to the Customer Service Centre, Australian Communications and Media Authority, PO Box 78, Belconnen, ACT, 2616. Applications for review of decisions can be made using the R051 - Application for review of Decision form, available on the ACMA website.

### **Important**

An application for the ACMA to reconsider a decision to impose or vary licence conditions must be made to the ACMA within 28 days of the day on which you are informed of the decision. An application for reconsideration made after that time may not be accepted.

## ACMA contact details

Customer Service Centre  
PO Box 78  
BELCONNEN ACT 2616

Telephone: 1300 850 115  
Email: [info@acma.gov.au](mailto:info@acma.gov.au)

ACMA website: [www.acma.gov.au](http://www.acma.gov.au)

## **Advisory Notes applying to licence no.: 213159/9**

Conditions applicable to the operation of Amateur Repeater station(s) authorised under this licence can be found in the Radiocommunications Licence Conditions (Apparatus Licence) Determination and the Radiocommunications Licence Conditions (Amateur Licence) Determination. Copies of these determinations are available from the ACMA and from the ACMA home page ([www.acma.gov.au](http://www.acma.gov.au)).

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 1:

#### Site details

Site ID	11716
Site address	Police & Ambulance Site, 12 km SE of Ballarat, MT BUNINYONG VIC 3352
Co-ordinates (GDA94)	Latitude: -37.654816 Longitude: 143.924895

#### Transmitter details

Assigned frequency	29.670000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0004351339
Transmitter power	50.00 W
EIRP	83.00 W
Emission designator	16K0F9W

#### Antenna details

Antenna ID	90782
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	30
Antenna type	CoaxialDipole

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 2:

#### Site details

Site ID	11719
Site address	WIN-TV Lookout Site, 12 km SE of Ballarat, MT BUNINYONG VIC 3352
Co-ordinates (GDA94)	Latitude: -37.65293 Longitude: 143.926465

#### Receiver details

Assigned frequency	29.570000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0004351340
Transmitter power	N/A
EIRP	N/A
Emission designator	16K0F9W

#### Antenna details

Antenna ID	90782
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	30
Antenna type	CoaxialDipole

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 3:

#### Site details

Site ID	11719
Site address	WIN-TV Lookout Site, 12 km SE of Ballarat, MT BUNINYONG VIC 3352
Co-ordinates (GDA94)	Latitude: -37.65293 Longitude: 143.926465

#### Transmitter details

Assigned frequency	430.750000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0004351341
Transmitter power	1.00 W
EIRP	7.95 W
Emission designator	16K0F9W

#### Antenna details

Antenna ID	84183
Antenna polarisation	H - Horizontal linear
Antenna azimuth	213.50
Antenna height (m)	20
Antenna type	Yagi (Horizontal Polarisation)-Y

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 4:

#### Site details

Site ID	11716
Site address	Police & Ambulance Site, 12 km SE of Ballarat, MT BUNINYONG VIC 3352
Co-ordinates (GDA94)	Latitude: -37.654816 Longitude: 143.924895

#### Receiver details

Assigned frequency	430.750000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0004351342
Transmitter power	N/A
EIRP	N/A
Emission designator	16K0F9W

#### Antenna details

Antenna ID	84183
Antenna polarisation	H - Horizontal linear
Antenna azimuth	33.50
Antenna height (m)	5
Antenna type	Yagi (Horizontal Polarisation)-Y

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 5:

#### Site details

Site ID	11716
Site address	Police & Ambulance Site, 12 km SE of Ballarat, MT BUNINYONG VIC 3352
Co-ordinates (GDA94)	Latitude: -37.654816 Longitude: 143.924895

#### Transmitter details

Assigned frequency	439.987500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0004351343
Transmitter power	50.00 W
EIRP	83.00 W
Emission designator	10K1F9W

#### Antenna details

Antenna ID	60290
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	20
Antenna type	Dipole-D

#### Receiver details

Assigned frequency	432.987500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0004351344
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1F9W

#### Antenna details

Antenna ID	60290
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	20
Antenna type	Dipole-D

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 6:

#### Site details

Site ID	11719
Site address	WIN-TV Lookout Site, 12 km SE of Ballarat, MT BUNINYONG VIC 3352
Co-ordinates (GDA94)	Latitude: -37.65293 Longitude: 143.926465

#### Transmitter details

Assigned frequency	439.675000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0003867988
Transmitter power	50.00 W
EIRP	83.00 W
Emission designator	16K0F9W

#### Antenna details

Antenna ID	80442
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	30
Antenna type	Dipole-D

#### Receiver details

Assigned frequency	432.675000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0003867989
Transmitter power	N/A
EIRP	N/A
Emission designator	16K0F9W

#### Antenna details

Antenna ID	80442
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	30
Antenna type	Dipole-D

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 7:

#### Site details

Site ID	10020333
Site address	St John Ambulance Site, 3 Endeavour Way, Alfredton VIC
Co-ordinates (GDA94)	Latitude: -37.543551 Longitude: 143.794313

#### Transmitter details

Assigned frequency	449.050000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0002822951
Transmitter power	10.00 W
EIRP	165.90 W
Emission designator	16K0F9W

#### Antenna details

Antenna ID	20131
Antenna polarisation	V - Vertical linear
Antenna azimuth	136.10
Antenna height (m)	10
Antenna type	Yagi (Vertical Polarisation)-Y

#### Receiver details

Assigned frequency	430.550000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0002822952
Transmitter power	N/A
EIRP	N/A
Emission designator	16K0F9W

#### Antenna details

Antenna ID	20131
Antenna polarisation	V - Vertical linear
Antenna azimuth	136.10
Antenna height (m)	10
Antenna type	Yagi (Vertical Polarisation)-Y

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 8:

#### Site details

Site ID	11649
Site address	26 Thornton Crescent, MITCHAM VIC 3132
Co-ordinates (GDA94)	Latitude: -37.820773 Longitude: 145.188383

#### Transmitter details

Assigned frequency	449.050000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0002287422
Transmitter power	10.00 W
EIRP	10.00 W
Emission designator	16K0F9W

#### Antenna details

Antenna ID	80442
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	15
Antenna type	Dipole-D

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 9:

#### Site details

Site ID	11719
Site address	WIN-TV Lookout Site, 12 km SE of Ballarat, MT BUNINYONG VIC 3352
Co-ordinates (GDA94)	Latitude: -37.65293 Longitude: 143.926465

#### Receiver details

Assigned frequency	449.050000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0002287423
Transmitter power	N/A
EIRP	N/A
Emission designator	16K0F9W

#### Antenna details

Antenna ID	80442
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	15
Antenna type	Dipole-D

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 10:

#### Site details

Site ID	11751
Site address	Vic-TV Site, 34 km S of Wedderburn, MOUNT MOLIAGUL VIC 3472
Co-ordinates (GDA94)	Latitude: -36.723195 Longitude: 143.646951

#### Transmitter details

Assigned frequency	449.050000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0002287515
Transmitter power	10.00 W
EIRP	10.00 W
Emission designator	16K0F9W

#### Antenna details

Antenna ID	80442
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	15
Antenna type	Dipole-D

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 11:

#### Site details

Site ID	11719
Site address	WIN-TV Lookout Site, 12 km SE of Ballarat, MT BUNINYONG VIC 3352
Co-ordinates (GDA94)	Latitude: -37.65293 Longitude: 143.926465

#### Receiver details

Assigned frequency	449.050000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0002287516
Transmitter power	N/A
EIRP	N/A
Emission designator	16K0F9W

#### Antenna details

Antenna ID	80442
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	15
Antenna type	Dipole-D

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 12:

#### Site details

Site ID	11733
Site address	Education Department Site, 29 km W of Ararat, MT WILLIAM VIC 3381
Co-ordinates (GDA94)	Latitude: -37.294985 Longitude: 142.603725

#### Transmitter details

Assigned frequency	449.050000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0002287600
Transmitter power	10.00 W
EIRP	10.00 W
Emission designator	16K0F9W

#### Antenna details

Antenna ID	80442
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	15
Antenna type	Dipole-D

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 13:

#### Site details

Site ID	11719
Site address	WIN-TV Lookout Site, 12 km SE of Ballarat, MT BUNINYONG VIC 3352
Co-ordinates (GDA94)	Latitude: -37.65293 Longitude: 143.926465

#### Receiver details

Assigned frequency	449.050000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0002287601
Transmitter power	N/A
EIRP	N/A
Emission designator	16K0F9W

#### Antenna details

Antenna ID	80442
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	15
Antenna type	Dipole-D

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 14:

#### Site details

Site ID	42000
Site address	Hospital, 281 Ryrie Street, GEELONG VIC 3220
Co-ordinates (GDA94)	Latitude: -38.152056 Longitude: 144.365668

#### Transmitter details

Assigned frequency	449.050000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0002287656
Transmitter power	10.00 W
EIRP	10.00 W
Emission designator	16K0F9W

#### Antenna details

Antenna ID	80442
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	15
Antenna type	Dipole-D

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 15:

#### Site details

Site ID	11719
Site address	WIN-TV Lookout Site, 12 km SE of Ballarat, MT BUNINYONG VIC 3352
Co-ordinates (GDA94)	Latitude: -37.65293 Longitude: 143.926465

#### Receiver details

Assigned frequency	449.050000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0002287657
Transmitter power	N/A
EIRP	N/A
Emission designator	16K0F9W

#### Antenna details

Antenna ID	80442
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	15
Antenna type	Dipole-D

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 16:

#### Site details

Site ID	11649
Site address	26 Thornton Crescent, MITCHAM VIC 3132
Co-ordinates (GDA94)	Latitude: -37.820773 Longitude: 145.188383

#### Transmitter details

Assigned frequency	442.550000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0001992168
Transmitter power	10.00 W
EIRP	16.00 W
Emission designator	16K0F9W

#### Antenna details

Antenna ID	80442
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	20
Antenna type	Dipole-D

#### Receiver details

Assigned frequency	430.550000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0001992169
Transmitter power	N/A
EIRP	N/A
Emission designator	16K0F9W

#### Antenna details

Antenna ID	80442
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	20
Antenna type	Dipole-D

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 17:

#### Site details

Site ID	11719
Site address	WIN-TV Lookout Site, 12 km SE of Ballarat, MT BUNINYONG VIC 3352
Co-ordinates (GDA94)	Latitude: -37.65293 Longitude: 143.926465

#### Transmitter details

Assigned frequency	430.550000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0001925535
Transmitter power	10.00 W
EIRP	10.00 W
Emission designator	16K0F9W

#### Antenna details

Antenna ID	80442
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	30
Antenna type	Dipole-D

#### Receiver details

Assigned frequency	442.550000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0001925536
Transmitter power	N/A
EIRP	N/A
Emission designator	16K0F9W

#### Antenna details

Antenna ID	80442
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	30
Antenna type	Dipole-D

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 18:

#### Site details

Site ID	11751
Site address	Vic-TV Site, 34 km S of Wedderburn, MOUNT MOLIAGUL VIC 3472
Co-ordinates (GDA94)	Latitude: -36.723195 Longitude: 143.646951

#### Transmitter details

Assigned frequency	442.550000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0001925537
Transmitter power	10.00 W
EIRP	10.00 W
Emission designator	16K0F9W

#### Antenna details

Antenna ID	80442
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	15
Antenna type	Dipole-D

#### Receiver details

Assigned frequency	430.550000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0001925538
Transmitter power	N/A
EIRP	N/A
Emission designator	16K0F9W

#### Antenna details

Antenna ID	80442
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	15
Antenna type	Dipole-D

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 19:

#### Site details

Site ID	42000
Site address	Hospital, 281 Ryrie Street, GEELONG VIC 3220
Co-ordinates (GDA94)	Latitude: -38.152056 Longitude: 144.365668

#### Transmitter details

Assigned frequency	442.550000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0001925539
Transmitter power	10.00 W
EIRP	10.00 W
Emission designator	16K0F9W

#### Antenna details

Antenna ID	80442
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	20
Antenna type	Dipole-D

#### Receiver details

Assigned frequency	430.550000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0001925540
Transmitter power	N/A
EIRP	N/A
Emission designator	16K0F9W

#### Antenna details

Antenna ID	80442
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	20
Antenna type	Dipole-D

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 20:

#### Site details

Site ID	11733
Site address	Education Department Site, 29 km W of Ararat, MT WILLIAM VIC 3381
Co-ordinates (GDA94)	Latitude: -37.294985 Longitude: 142.603725

#### Transmitter details

Assigned frequency	442.550000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0001925541
Transmitter power	10.00 W
EIRP	10.00 W
Emission designator	16K0F9W

#### Antenna details

Antenna ID	80442
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	20
Antenna type	Dipole-D

#### Receiver details

Assigned frequency	430.550000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0001925542
Transmitter power	N/A
EIRP	N/A
Emission designator	16K0F9W

#### Antenna details

Antenna ID	80442
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	20
Antenna type	Dipole-D

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 21:

#### Site details

Site ID	11719
Site address	WIN-TV Lookout Site, 12 km SE of Ballarat, MT BUNINYONG VIC 3352
Co-ordinates (GDA94)	Latitude: -37.65293 Longitude: 143.926465

#### Transmitter details

Assigned frequency	146.750000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0000515900
Transmitter power	120.00 W
EIRP	
Emission designator	16K0F3E

#### Antenna details

Antenna ID	1
Antenna polarisation	
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

#### Receiver details

Assigned frequency	146.150000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0000515901
Transmitter power	N/A
EIRP	N/A
Emission designator	16K0F3E

#### Antenna details

Antenna ID	1
Antenna polarisation	
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 22:

#### Site details

Site ID	11719
Site address	WIN-TV Lookout Site, 12 km SE of Ballarat, MT BUNINYONG VIC 3352
Co-ordinates (GDA94)	Latitude: -37.65293 Longitude: 143.926465

#### Transmitter details

Assigned frequency	145.200000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0000515902
Transmitter power	120.00 W
EIRP	
Emission designator	16K0F3E

#### Antenna details

Antenna ID	60132
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Dipole-D

#### Receiver details

Assigned frequency	145.200000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0000515903
Transmitter power	N/A
EIRP	N/A
Emission designator	16K0F3E

#### Antenna details

Antenna ID	60132
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Dipole-D

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 23:

#### Site details

Site ID	11719
Site address	WIN-TV Lookout Site, 12 km SE of Ballarat, MT BUNINYONG VIC 3352
Co-ordinates (GDA94)	Latitude: -37.65293 Longitude: 143.926465

#### Transmitter details

Assigned frequency	441.850000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0000515908
Transmitter power	120.00 W
EIRP	
Emission designator	16K0F3E

#### Antenna details

Antenna ID	20131
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	10
Antenna type	Yagi (Vertical Polarisation)-Y

#### Receiver details

Assigned frequency	420.850000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0000515909
Transmitter power	N/A
EIRP	N/A
Emission designator	16K0F3E

#### Antenna details

Antenna ID	20131
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	10
Antenna type	Yagi (Vertical Polarisation)-Y

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 24:

#### Site details

Site ID	11719
Site address	WIN-TV Lookout Site, 12 km SE of Ballarat, MT BUNINYONG VIC 3352
Co-ordinates (GDA94)	Latitude: -37.65293 Longitude: 143.926465

#### Transmitter details

Assigned frequency	1.29870000 GHz
Bandwidth	200.0000 kHz
Freq. assign. ID	0000515910
Transmitter power	50.00 W
EIRP	
Emission designator	128KW7W

#### Antenna details

Antenna ID	70030
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	20
Antenna type	Colinear Vertical-U

#### Receiver details

Assigned frequency	1.29870000 GHz
Bandwidth	200.0000 kHz
Freq. assign. ID	0000515911
Transmitter power	N/A
EIRP	N/A
Emission designator	128KW7W

#### Antenna details

Antenna ID	70030
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	20
Antenna type	Colinear Vertical-U

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 25:

#### Site details

Site ID	11719
Site address	WIN-TV Lookout Site, 12 km SE of Ballarat, MT BUNINYONG VIC 3352
Co-ordinates (GDA94)	Latitude: -37.65293 Longitude: 143.926465

#### Receiver details

Assigned frequency	430.850000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0000515912
Transmitter power	N/A
EIRP	N/A
Emission designator	16K0F3E

#### Antenna details

Antenna ID	80375
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	20
Antenna type	Yagi (Horizontal Polarisation)-Y

### Advisory Notes applying to Station 25

This frequency band is currently under review to accommodate changes in technology. This review may lead to a requirement to change frequency or to cease transmission.

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 26:

#### Site details

Site ID	11719
Site address	WIN-TV Lookout Site, 12 km SE of Ballarat, MT BUNINYONG VIC 3352
Co-ordinates (GDA94)	Latitude: -37.65293 Longitude: 143.926465

#### Transmitter details

Assigned frequency	1.27392500 GHz
Bandwidth	24.0000 kHz
Freq. assign. ID	0000515913
Transmitter power	50.00 W
EIRP	
Emission designator	16K0F9W

#### Antenna details

Antenna ID	1
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	30
Antenna type	Unknown antenna type, size or specifications-

#### Receiver details

Assigned frequency	1.29392500 GHz
Bandwidth	24.0000 kHz
Freq. assign. ID	0000515914
Transmitter power	N/A
EIRP	N/A
Emission designator	16K0F9W

#### Antenna details

Antenna ID	1
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	30
Antenna type	Unknown antenna type, size or specifications-