



## DTT INFORMATION SHEET

7<sup>th</sup> December 2007

### PURPOSE OF DOCUMENT

To provide information to TV installers regarding NZ Digital Terrestrial Television (DTT) service.

### INTRODUCTION

Kordia™ is currently installing 18 DTT broadcast sites around New Zealand which when completed will provide coverage to  $\frac{3}{4}$  of NZ's population. The DTT service will be available in early 2008. In order for viewers to receive DTT, they will need to have a suitable MPEG-4 set-top-box (STB) or integrated receiver and a UHF aerial that can receive the DTT signal from one of the 18 broadcast sites (refer to below for site and coverage information)

### ABOUT DTT

The DTT service is based on New Zealand DVB-T specification (NZS 6610:2001) and has the following key transmission parameters:

**Video encoding:** H.264 AVC (MPEG-4)

**Modulation Scheme:** COFDM 64-QAM

**FEC Code Rate:** 3/4

**Guard Interval:** 1/16

**Number of Carriers:** 8K

The DVB-T specification is part of the internationally recognised DVB family of standards with appropriate parameters for NZ. NZ uses the UHF band and is one of the first to adopt the MPEG-4 video encoding standard. For this reason it is important to ensure that the equipment is compatible with the NZ signal.

Kordia™ Ltd. is responsible for the transmission of the Broadcasters' signal to the coverage areas. The respective Broadcasters are responsible for the programming content and any queries regarding programming should be directed to the appropriate Broadcaster.

The viewer is responsible for their own UHF TV aerial installation. In many cases existing UHF aerial installation will be adequate.

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The DTT platform can support both standard-definition (SD) and high-definition (HD). To ensure the viewer can enjoy the full HD experience, viewers should ensure that their receiver and TV display is capable of HD and is HDMI HDCP compatible.

## SITE AND CHANNEL INFORMATION

Area	Site Name	Polarisation	UHF Channel #		
			Channel A	Channel B	Channel C
Auckland	Waiatarua	Horizontal	29	33	45
	Pinehill	Horizontal	28	32	40
	Remuera	Vertical	28	32	40
	Sky Tower	Vertical	28	32	40
	Auckland Infill	Vertical	28	32	40
Waikato/ Tauranga	Te Aroha	Horizontal	46	48	50
	Hamilton infill	Vertical	49	51	47
	Kopukairua	Vertical	49	51	42
Hawkes Bay	Mt Erin	Vertical	27	31	43
	Napier infill	Vertical	48	50	59
Manawatu	Wharite	Vertical	48	50	59
Wellington	Kaukau	Horizontal	48	50	59
	Baxters Knob	Horizontal	51	53	57
	Fitzherbert	Vertical	51	53	57
	Wellington infill	Vertical	51	53	57
	Ngarara	Vertical	45	53	57
Christchurch	Sugarloaf	Horizontal	47	49	50
Dunedin	Mt Cargill	Horizontal	43	45	53

Note: The 4 infill Transposer sites, one each in Auckland, Hamilton, Napier and Wellington that are yet to be finalised. These are small additional sites to fill in localised coverage gaps in the urban areas.

## COVERAGE INFORMATION

Refer to the Freeview site - [http://freeviewnz.tv/index.php?section\\_id=3](http://freeviewnz.tv/index.php?section_id=3)



## OTHER CONTACTS

For more information about Kordia™'s DTT transmission network, please refer to:

[www.kordiasolutions.com](http://www.kordiasolutions.com)

For more information about the Freeview Aerial service and STB, please contact:

Freeview

0800 FREEVIEW (0800 373384)

<http://www.freeviewnz.tv>

For more information about the programming that will be carried on the DTT platform, including video and audio encoding, please contact your local Broadcaster or Freeview.