

Kingray

The **PROFESSIONALS** choice

KDM401 - Quad AV to SD DVB-T modulator



**MAXIMUM
SPECTRUM
EFFICIENCY**



The KDM401 is a commercial quality quad AV standard definition modulator with integrated multiplexing to combine all four AV inputs in one RF channel, maximising spectrum efficiency.

Ideal for converting an analogue AV signal either from a satellite decoder, DVD, video surveillance camera or video door phone and modulating it into a digital format (DVB-T) for distribution in a TV cable network.

With intuitive, simple menus, the KDM401 allows quick and easy programming either by the front panel or a computer using the ethernet port. The housing design allows the unit to be professionally mounted in a 19" rack or on a shelf if required.

The latest software and hardware advances have been used to provide a product boasting the optimum performance and reliability required for use in a commercial installation.

KDM401

- > Quad input AV SD modulator multiplexed into one RF channel.
- > Easy to program basic and advanced menus.
- > Adjustable output level, frequency and offset.
- > Selectable 2K, 8K carrier.
- > Adjustable constellation, FEC and guard interval.
- > Adjustable colour, brightness, contrast and saturation.
- > Adjustable LCN, PID, NIT, PDS and TS ID.
- > Programmable channel name.
- > Variable video and audio bit rates.



Technical Specifications

VIDEO INPUT

| | |
|-------------------|-----------|
| Video input | CVBS |
| Video input level | 0.5–2 Vpp |
| Video mode | PAL |
| Input connector | RCA |

AUDIO INPUT

| | |
|-------------------|-------------|
| Audio input | Stereo |
| Audio input level | 0.4–2.5 Vpp |
| Input connectors | RCA L, R |

OUTPUT

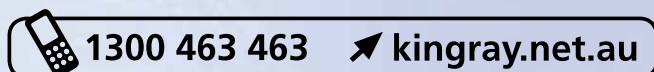
| | |
|-------------------------|---------------------------------------|
| Frequency range | 174–820 MHz (Aus) 470–862 MHz (NZ) |
| Output level | 80–95 dB μ V |
| Output impedance | 75 Ω |
| Channel bandwidth | 7, 8 MHz |
| Output level adjustment | up to 15 dB |
| MER | > 42 dB typ. |
| Fine tuning | +/- 125, 250, 375 kHz |
| Connector type | 'F' Female |

MODULATION

| | |
|-------------------|-------------------------|
| Video resolution | PAL 720 x 576 @ 25 fps |
| Video compression | MPEG2 MP@ML |
| Audio compression | MPEG1 Layer II |
| PSI/SI generation | PID, NIT, PDS and TS ID |
| LCN | Yes |
| Standard | ETSI EN 300 744 V1.5.1 |
| Carrier | 2K, 8K |
| Guard intervals | 1/4, 1/8, 1/16, 1/32 |
| Code rate | 1/2, 2/3, 3/4, 5/6, 7/8 |
| Constellations | 16 QAM, 64 QAM |

GENERAL

| | |
|-------------------|--------------|
| Power Supply | 110–240 V AC |
| Temperature Range | 0 ~ +45°C |



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