

# MG-TU1

Digital Terrestrial Set-Top Box



## HUMAX ... Free-to-air Top Up TV Ready Set-Top Box

### Humax Digital TV receiver model MG-TU1

- Simple to set up and use
- Twin SCART sockets
- Works with any TV
- RF modulator with loopthrough (lead not included)
- Conditional Access slot
- 2-year manufacturers' warranty

### General Digital TV specification

#### Broadcast reception

- Free-to-air reception
- UHF/VHF input
- Full DVB-T compliant reception/decoding
- Automatic and manual tuning

### System features

- Interactive Digital Teletext
- Fast-view 8 Day Electronic Programme Guide
- Digital Video Broadcast subtitling
- Power and remote fascia lights

**Top  
Up TV  
Ready**

## Pack contents

### Front panel

- Green LED lights when Humax in use
- Red LED lights when Humax in standby.  
Also flashes when commands are received from the remote control

### Back panel

- SCART socket for connection to TV
- AUX SCART socket for connection external devices, such as DVD, VCR
- When in standby mode, signals from AUX SCART are routed via the TV SCART to the TV
- DC power connector for external PSU
- RF in: Female IEC for aerial
- Incoming RF signals are also looped through to RF-out connector
- RF out: Male IEC carries signals from RF-in and modulated picture and sound output from box

### Remote control handset

- Controls all functions; uses two AA(IECR06) batteries, supplied

### Mechanical: case dimensions

- Width x depth x height: 235mm x 200mm x 38mm approx.

### Safety

- The product will be approved to EN60950-1:2001

### EMC

- EN55020:2002 (Immunity)
- EN55013:2001 (emissions)

### Technical details

- Operating temp: 0°C to +40°C
- 196V-264V AC. 47-53 Hz
- Power consumption: 5W approx.

### RF section

- Input freq range: 474-858 MHz
- Input channel spacing: 8MHz
- Loophrough gain: 3dB
- Loophrough range: Channels E2 to E69
- Modulator output format: PAL I
- Modulator range: Channels E21 to E69

### Demodulator

- Transmission scheme: 2K and 8K COFDM
- Supports all DVB-T compliant modulation schemes

### Video Decoder

- MPEG-2: Main Profile @ Main Level(MP@ML)
- Data rates: up to 15 Mbits/s
- Video formats: 4:3, 16:9
- Video format conversions: Pan & Scan, Letterbox, Centre cut-out
- Video resizing: full or 1/4 screen for digital text support

### Audio Decoder

- MPEG-2 layers 1 & 2
- Modes: Mono, Dual channel, Stereo

### Output levels

- Video outputs: 1V p-p into 75 Ohms
- Audio outputs 2V p-p maximum

### Technical details

- Processor: IBM Power PC, 350 MIPS
- Memory: 2Mbytes of reprogrammable Flash ROM, 16Mbytes of SDRAM
- PSU: External regulated PSU. Output: 5V 1A. Thermal overload protection. Fitted with UK 13A mains plug

## System features

- System capabilities - fully DVB compatible
- Input frequency spans existing and planned digital channels
- Demodulator - OFDM waveform. 2k/8k modes.  
DVB-T ETSI 300 744. Guards intervals: 1/4, 1/8, 1/16, 1/32
- Video output - RGB, Composite, S-VHS
- Multilingual Graphic User Interface
- 'Hot Upgrade' software - downloadable
- Power consumption - ultra-low consumption in operation, sub-5W.



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