



Test Equipment



*For the Best*

# FOR THE BEST IN COMMERCIAL TV RECEPTION SOLUTIONS!

Do you require a Digital TV reception system  
for your next project?

Matchmaster can supply "For The Best"

- Design and supply of the right equipment for the job
- System design catering for today and future technology
- Approved Foxtel design partner
- Exclusive Distribution of Products
- Field Strength Meters
- WISI, Terra and Matchmaster Headends
- 5 Wire Terra Multiswitches (Foxtel approved)
- PBN Fibre Optics and Scion Cat5 Audio Video Distribution System
- IPTV Solutions
- Test and Commissioning
- Field inspections and site surveys
- Guaranteed or Certified System
- The Best Engineers in the industry





## TEST EQUIPMENT

### COMBINED SATELLITE / TERRESTRIAL

I2MM-TDM5	I2.3
I2MM-ST-COMBO	I2.4
I2MM-ST-DIGITAL	I2.5
I2MM-ST-SAT-HD	I2.6
I2MM-H45	I2.7
I2MM-H60	I2.9

### LAN & POCKET TONERS

I2MM-NM01	I2.11
I2MM-PTNX8-LAN	I2.12
I2MM-PTNX8-AV-PRO	I2.13
I2MM-PTNX8-SAT	I2.14

### DIGITAL TV SIGNAL FINDERS

I2MM-DF02	I2.15
I2MM-DF03	I2.16



*For the Best*





# TEST EQUIPMENT

## ANALOGUE & DIGITAL TERRESTRIAL SIGNAL LEVEL METER WITH SPECTRUM ANALYSER

### I2MM-TDM5

#### Features

- Analogue/Digital C/N Measurement
- Channel/Freq. Spectrum Measurement
- Graphic Tilt Measurement (Max. 11)
- USB Interface
- Cable Loss Compensation
- Antenna Focusing with Beep Sound
- Editable Channel Plan
- Ultra Portable Type(400g)



#### Digital TV

Frequency Range	45~870MHz
Measurement Unit	dBuV, dBmV, dBm
Input Impedance	75Ω (F type connector)
Frequency Resolution	10KHz
Level Measurement Range	25dBuV ~ 120dBuV
Digital Channel Power Measurement Resolution	0.1dB
Digital Channel Power Measurement Accuracy	±2.0dB
C/N Measurement	- Range: 0~50dB - Bandwidth: 0.5MHz ~ 9MHz - Offset: 0.5MHz ~ 9MHz

#### Analogue TV

Frequency Range	45~870MHz
Measurement Unit	dBuV, dBmV, dBm
Input Impedance	75Ω (F type connector)
Frequency Resolution	10KHz
Level Measurement Range	25dBuV ~ 120dBuV
Level Measurement Resolution	0.1dB
Level Measurement Accuracy	±2.0dB
V/A Measurement C/N Measurement	- Range: 0~50dB - Bandwidth: 0.5MHz ~ 9MHz - Offset: 0.5MHz ~ 9MHz

#### Graphic Tilt Spectrum Measurement (Analogue/Digital Channels)

Range	45 ~ 870MHz
Indication	Tilt Slope, Video Level

#### Channel Spectrum Measurement (Analogue/Digital Channels)

Range	45~870MHz
Span	16CH/38CH/56CH/110Ch
Measurement Range	25dBmV ~ 120dBu
Reference Level Division	10dB
Marker Indication	Analog Channel(Video/Audio Level) - Digital Channel (Channel Power)

#### Frequency Spectrum Measurement (Analogue/Digital Channels)

Range	45~870MHz
Span	10/22/56/110MHz
Measurement Range	25dBuV ~ 120dBuV
Reference Level Division	10dB
Marker Indication	Carrier Level



## COMBINED SATELLITE /TERRESTRIAL

### TERRESTRIAL & SATELLITE FIELD STRENGTH METER

## I2MM-ST-COMBO

A flexible all-rounder for taking measurements of both Terrestrial and Satellite Television services. Light-weight construction makes this meter a perfect companion for any installer.

#### Features

- Watch digital TV directly on the colour LCD screen
- View Constellation Diagrams of Digital Channels
- 1GB of internal memory capable of storing thousands of channel and transponder plans

#### Accessories

- Case for meter with shoulder strap
- Sturdy aluminium carry case
- Quick Start Guide
- Lens Hood (for reflecting sunlight)
- User manual and software on CD-ROM
- Mains Powered Battery Charger and Power Supply
- 12 volt car charger
- USB-USB cable for PC connection



#### Terrestrial Digital (DVB-T)

Frequency Range	46 MHz - 862 MHz
Level Range	40 dBuV – 110 dBuV
Level Measurement Accuracy	2 dB
Measurement Resolution	0.1 dB
MER	19-35 dB
BER	1.0E-2 to 1.0E-8
FEC	1/2, 2/3, 3/4, 5/6, 7/8
Demodulation	QPSK, 16QAM, 64QAM

#### Terrestrial Analogue (PAL)

Frequency Range	46MHz-862 MHz
Level Range	30 dBuV - 120 dBuV
Input Impedance	75 Ohm
Level Measurement Accuracy	1.5 dB
Measurement Resolution	0.1 dB

#### Digital Satellite(DVB-S)

Frequency Range	950 MHz – 2,150 MHz
Level Range	45 dBuV – 125 dBuV
Level Measurement Accuracy	2 dB
Measurement Resolution	0.1 dB
Symbol Rates	2 – 45 Msps
LNB Voltage Supply	0V / 13V / 18V
FEC	1/2, 2/3, 3/4, 5/6, 7/8
Tone Generator	22kHz ON / OFF
Demodulation	QPSK, 8PSK

#### General Information

Dimensions	250 x 120 x 60mm
Net Weight	0.8 kg
Gross Weight	1.6 kg
Working Temperature	0°C ... +40°C
Display	3.5" Colour TFT LCD Screen
Audio Output	Built in speaker with volume control
Port	USB2
Screen Function	Super Spectrum Analyzer
Power Supply	Masthead / LNB Power Supply
DC Power	DC 8.4V chargeable battery
Power Adapter Input	AC 110V/60Hz - 220V/50Hz +/- 10%
Power Adapter Output	Power adapter output 9.6V DC 800 mA
Working Time	4 - 5 hours (full charge)
Charging Time	4 hours from flat
Car Charger	Supplied
Battery	4000mAh



# TEST EQUIPMENT

## DIGITAL TERRESTRIAL METER DVB-T/ DAB/ FM/ ANALOGUE TV

### I2MM-ST-DIGITAL

#### Features

- New super latest LCD included
- New style spectrum screen with fast reaction times
- Scan function
- Channel plan selection and easy edit
- Shows DVB-T channels directly on TV screen
- Mode of signal finding
- Audio beep and colour 3.5 inch TFT LCD TV

#### Watch the Digital TV Channel

- Interchangeable F type connector
- Working time 4-5 hours
- Output voltage selectable 5V or 12V 100mA selectable
- 24V output for spanish version only
- Connection: USB to USB, cable supplied
- Working temperature: 0 deg C. ~ 40 deg C
- Multiple plan storage, with full edit by hand
- 15 plans 500 entries



**NEW**

#### COFDM Demodulated

Frequency range	46MHz - 870 MHz
Level range	40dBuV - 110dBuV
Level measurement accuracy	2dB
Measurement resolution	0.1 dB
MER	19-35 dB
BER	10E-2 to 10E-8
VBER C/N and CBER readings	
FM test	
DAB test	
COFDM Constellation Diagrams (colour)	
Puncture codes	1/2, 2/3, 3/4, 5/6, 7/8
Demodulation	QPSK, 16 QAM, 64 QAM
Analogue level testing	
Digital TV pictures	
Frequency range	46MHz-870MHz
Level range	30 dBuV - 120 dBuV
Input impedance	75 Ohm
Level measurement accuracy	1.5 dB
Measurement resolution	0.1 dB

#### Product contents

- Meter DVB-T MAX
- Case for measuring instrument with shoulder strap and quick start guide
- Lens hood (for reflecting sunlight)
- User manual and software on CD-ROM
- External power supply
- 12-Volt Car charger
- USB-USB cable for the PC connection
- Sturdy aluminum case



## PROFESSIONAL SATELLITE METER

### I2MM-ST-SAT-HD

**NEW**

#### Features

- DVBS & DVBS2
- All LNB types supported
- Mk 4 NIT version
- New hardware
- Very sensitive new tuner
- Calibrated meter to industry standards
- Test :CBER ,VBER , C/N Signal Quality and strength
- New bag design
- New menu structure (Faster and Easier)
- Data Log Export to PC

#### Input frequency

Frequency Range	950~2150
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#### Signal Measure

Level range	-65dbm ~-25dbm
Input resistance	75 Ohm
Symbol rate	2Msps ~45Msps

#### Other

Dimension	250 x 120 x 60mm
Net weight:	0.8kg
Gross weight:	1.6Kg
Working temperature:	0°C. ~+40°C
Display	3.5 inch High Quality TFT LCD TV
New higher resolution LCD for MK4	
Audio output:	Built in speaker with volume control
Port:	Full USB 2 • Switch: 22KHz support
NEW SUPER FAST Spectrum Analyzer	

#### Power supply

LNB power supply:	H +18VV +13V 450mA
DC power supply	DC 8.4V chargeable battery
Power adapter input:	AC 110V/60Hz - 220V/50Hz +/- 10%
Power adapter output:	9.6 V DC 800 mA
Working time:	4~5 hours (full charge)
Charging time	4 hours from flat
Car charger	

#### Power supply

LNB power supply:	H +18VV +13V 450mA
DC power supply	DC 8.4V chargeable battery
Power adapter input:	AC 110V/60Hz - 220V/50Hz +/- 10%
Power adapter output:	9.6 V DC 800 mA
Working time:	4~5 hours (full charge)
Charging time	4 hours from flat
Car charger	

#### Switch function

DiSeqC switch	8 way
Motor control diseqc	1.0/1.2/USALS
Unicable standard	1.2.3.4. SCR 0, 1, 2, 3.



#### Product contents

- Meter DVB-EXCEL-TV MK4 NIT
- Case for measuring instrument with shoulder strap and quick start guide
- Lens hood (for reflecting sunlight)
- User manual and software on CD-ROM
- External power supply
- 12-Volt Auto chargers
- USB-USB cable for the
- PC connection
- Sturdy aluminum case



# TEST EQUIPMENT



## I2MM-H45

WITH DIGITAL PROCESSING



Professional  
Grade Spectrum  
Analyzer up to  
3.3GHz



Cable  
QAM for  
CATV



Full Optical  
Network  
RF Analysis



Satellite  
DVB-S,  
DVB-S2



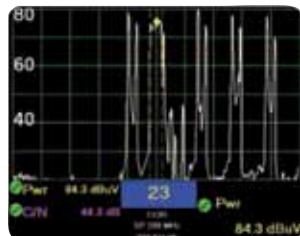
MPEG-4  
Full HD - 1080P



Off Air DTT  
DVB-T



**Combo Mode Display**  
Pictures, Spectrum and Measurements (with Quality Check Marks) in one screen. Signal information is updated real time. Everything you need regarding the signal measurements is displayed on the screen of the meter.



**Advanced Spectrum**  
Advanced Spectrum Analyzer with a wide dynamic margin, to measure spurious and very low noise levels.



**DVB-S2 HD identification**  
To watch digital signals transmitted via DVB-S2 (Full HD depending on the options)



**Optical Receiver**  
Full Optical Network RF analysis, including specific Fibre Optics power measurements



**Spectrum analyzer in optical mode**  
Represents the spectrum of the RF signal transmitted via Fibre Optics. A great help for accurate adjustment of optical links.



**Optical Attenuation Measurement**  
FCcombined with the triple light source OPS3L, the H45 with optical receiver allows to check the response of an optical distribution network. Simultaneous analysis in three windows: 1310, 1490 and 1550 nm.



**Full HD Pictures**  
MPEG4 H.264: 576i, 720p, 1080i, 1080p. For services up to 1080p. Compatible with all the digital audio standards: AAC, EAAC, AC3 and EAC3.

# TEST EQUIPMENT



## Spectrum Analyser

- Adjustable reference level
- Saturation alarms
- Max hold and marks
- Noise representation
- Automatic satellite identification
- Real time sweeping

## Measurements

- Level: from -15 to 130dBμV
- C/N (automatic and referenced)
- Link Margin in DVB-S2 measurements <sup>(\*)</sup>
- Service identification
- Echoes
- Automatic discovery of modulation type

## Video and Audio

- HD digital signals: MPEG-4 or MPEG-2 <sup>(\*)</sup>
- SD digital signals: MPEG-2
- Digital audio: AAC, EAAC, AC3 and EAC3 <sup>(\*)</sup>

## Logging Function

- Each data log can store results from many different wall plates from a particular project. Making it much easier to manage the data logging process.
- Quickly and easily download all data logs from the meter to your computer

## HSuite

- Programming Software for H45 meters.
- Never pay for interfacing software again: HSuite software provided free of charge.
- Firmware upgrades available free for the life of the meter

## Power

- More than 4 hours of operation
- Proprietary Firmware that manages optimum battery recharge
- Battery status indicator
- Supplies power to LNB or masthead amplifier

## I2MM-H45-CASE

Weatherproof case available for added protection from rain and general cosmetic wear. Included FREE with H45-Advance and H45-Complete options



	H45-Compact	H45-Advance	H45-Complete
DVB-T (COFDM)	✓	✓	✓
DVB-C (QAM)	✓	✓	✓
DVB-S (QPSK)	✓	✓	✓
DVB-S2 (8PSK)	✓	✓	✓
Display SD Pictures	✓	✓	✓
Display HD Pictures			✓
Constellation DVB-C, DVB-T, DVB-S/S2	✓	✓	✓
BER measurement in spectrum		✓	✓
COFDM Echo Identification	✓	✓	✓
Real-time sweep	< 250ms	< 10ms	< 10ms
Screen Refresh Time	< 250ms	< 100ms	< 100ms
Signal Measurement Logging	✓	✓	✓
Spectrum Logging		✓	✓
Transfer Logs to SD Card		✓	✓
Conditional Access Module (MPEG-2 only)			✓
In-built Optical Receiver			✓
Protective case included		✓	✓

Some features not available in all models. See features table for more details



# TEST EQUIPMENT

## H60

WITH DIGITAL PROCESSING

### I2MM-H60

NEW



## Mathematical Precision and Exclusive Functionalities

NOW WITH A HIGHER RESOLUTION AND CONTRAST SCREEN



**Expanded Spectrum Range  
Up to 3.3GHZ**  
That allows the detection of  
LTE interference



**Attenuation  
Measurement**  
In channel and  
frequency



**Selective Optical  
Interface**



**Remote Control  
of Measurement**  
Through an IP based  
network





## I2MM-H60

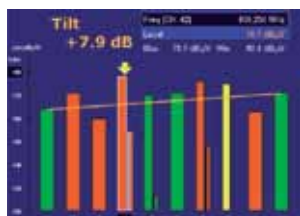
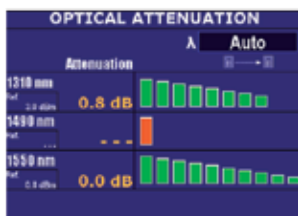
Unprecedented speed and mathematical precision in all your measurements...

... now clearer than ever before

Televes set a clear benchmark in the sector when it launched the first portable field spectrum analyser worldwide that incorporated digital Processing technology. This milestone set a before and after in certifying television services in buildings and homes because the professional installer could now utilise all the mathematical precision of an sophisticated laboratory equipment in a portable format of just 2Kg.

four years later, digital Processing keeps offering unprecedented functionality, and Televes has decided to launch its newest technological piece of art with great enhancements and features, presented in a larger and clearer screen.

## H60, getting the full potential of the Digital Processing technology... clearly



## Spectrum analyser extended to 3.3 GHz

Tilt function

Measures network attenuation in channel and frequency

MPEG4 with common interface video in HD

HDMI output

Selective optical interface

DVB-T2 demodulation

High resolution, high contrast screen

Digital Processing enhanced

## NEW FEATURE... Remote control of your H60 meter

Ideal for extended signal tests of head-end and broadband distribution networks.

Leave your H60 connected to any distribution network and manage the unit remotely.

Once finished, export the results to any PC using the HSuite software (included).



Some features not available in all models. See features table for more details



# TEST EQUIPMENT

## LAN & POCKET TONERS

### LAN SMART PRO NETWORK & COAXIAL CABLE TESTER

## I2MM-NM01

#### Description

The I2MM-NM01 Local Area Network Tester is a hand held multifunction cable map tester and cable length meter. It has an integrated analog and digital Tone Generator, Port Finder, and Quick Test. It displays cable map results in a pin-to-pin format including split pairs. By using TDR (Time Domain Reflect) technology, it provides a great deal of accuracy when measuring cable length and locating split pairs. It is suitable for professional technicians or installers.

#### Key Features and Benefits

All-in-one tester: wire map, twisted mapping, short location, quick test cable length test, tone generator and port finder

- Wire map for opened, short, reversed, crossed, split pairs, mis-wire, and shield continuity
- Wire map results are displayed in a pin-to-pin format
- Indicates the I.D. number of the remote identification
- Short Location: locates short position whether short is in the near or far end of the cable
- Measures twisted pairs, map and length of Cat5 Cat5E and Cat6 cable without remotes
- Measures 2/4/6 pins telephone cable length and faults
- Measures coax cables length and faults
- Self-calibrating function allows for increased measuring accuracy when testing length of non-standard cables
- Displays measurements in both meter and feet
- Quick Test function: memorizes a cable's pin out
- Port Finder function: locates corresponding socket on hub/switch
- With LCD and beeper indicator
- Its Analog Tone Generator sends 1K Hz tone on all pins or selected single pin conductors
- Its Digital Tone Generator sends Single Tone and Double Tone
- RJ45/ RJ11 port protection from damage due to high voltage from telephone line
- Replaceable battery, with low battery indicator
- Soft case

#### Product Specifications

- Display 128x64 Dot Matrix LCD
- Connector Type RJ45/RJ11/COAX (Main and Remote)
- Accuracy  $\pm 2m$  less than 10m  $\pm 5\%$  over 10m
- Test range for cable length 1.2-300m
- Split pairs detection minimum 1.2m
- Analog Tone Generator 1 KHz
- Digital Tone Generator Single Tone and Dual Tone
- Operating Temperature 0°C – 50°C
- Storage Temperature -30°C – 50°C
- Humidity 10%-90%
- Weight Main unit 120g. Remote unit 20g
- Dimensions Master 120x80x33mm / Remote 44x42x28.5mm
- Power source DC 6V ; 4 x AAA Alkaline batteries





## POCKET TONER LAN PROFESSIONAL KIT I2MM-PTNX8-LAN

### Description

I2MM-PTNX8-LAN is the best tone and tag tool for testing continuity, shorts, 50-75  $\Omega$  termination, and polarity—on eight cables at once! Simply place each of the numbered ID caps on the remote ends of the cables (Cat 3/5/6 or coaxial cable) to test, then connect the main unit to the other end of the test cables one at a time. If there is continuity, the green LED on the ID cap will light and the main unit will show the ID cap's number (1-8) on its digital display. In addition, the audible indicator in the main unit will emit a short tone. I2MM-PTNX8-LAN also tests for the presence of both AC and DC voltages from 6v-48v.

### Key Features and Benefits

- Low-voltage circuit protection (6v -48v) in main unit, toner unit & ID caps
- Patented adapters to test any Cat 3/5/6 or coaxial cable
- 8-Segment LED displays 5 different test results
- Audible indicators in both Main Unit & detachable Toner Unit
- LED indicators on all ID caps indicate continuity
- Main Unit “beeps” when line condition changes
- Test up to 8 cables at once
- Bi-gender Toner Unit w/removable Speed 81™ coupler
- Removable push-on F-type connector
- Nickel-plated brass connection fittings
- Lightweight and durable, anodized aluminum construction
- Push-button power switch w/dust seal
- Auto shut-off feature extends battery life
- Key high-wear parts are replaceable
- Uses 1 standard AAA battery

### Product Specifications

- Pocket Toner® NX8
- 8 ID caps
- 8F to RJ45
- F-female coupler (F-81)
- F-male coupler (F-71)
- F-female coupler (Speed 81™)
- F-male push-on adapter
- AAA battery
- Deluxe case with belt clip





# TEST EQUIPMENT

## POCKET TONER AUDIO /VIDEO PROFESSIONAL KIT

### I2MM-PTNX8-AV-PRO

#### Description

The I2MM-PTNX8-AV-PRO Pocket Toner Audio Video Kit is a hand held kit. Simply the best way to identify and test multiple speaker wires and video cables.

Testing a surround sound system for continuity and short circuits with speed and efficiency is a breeze with the I2MM-PTNX8-AV-PRO. The Audio /Video Pro has specially designed adapters for audio/video installations and troubleshooting is a breeze.

I2MM-PTNX8-AV-PRO is the best tone and tag tool for testing continuity, shorts, 50-75  $\Omega$  termination, and polarity—on eight cables at once! Simply place each of the numbered ID caps on the remote ends of the cables (either speaker wires or coaxial cable) to test, then connect the main unit to the other end of the test cables one at a time. If there is continuity, the green LED on the ID cap will light and the main unit will show the ID cap's number (1-8) on its digital display. In addition, the audible indicator in the main unit will emit a short tone. I2MM-PTNX8-AV-PRO also tests for the presence of both AC and DC voltages from 6v-48v.

#### Key Features and Benefits

- Low-voltage circuit protection (6v -48v) in main unit, toner unit & ID caps
- Patented adapters to test any wire or cable
- 8-Segment LED displays 5 different test results
- Audible indicators in both Main Unit & detachable Toner Unit
- LED indicators on all ID caps indicate continuity
- Main Unit "beeps" when line condition changes
- Test up to 8 cables at once
- Bi-gender Toner Unit w/removable Speed 81™ coupler
- Removable push-on F-type connector
- Nickel-plated brass connection fittings
- Lightweight and durable, anodized aluminum construction
- Push-button power switch w/dust seal
- Auto shut-off feature extends battery life
- Key high-wear parts are replaceable
- Uses 1 standard AAA battery

#### Product Specifications

- Pocket Toner® NX8
- 8 ID caps
- 8 2-wire clip adapters
- Alligator clips & RCA male adapter
- Alligator clips & RCA female adapter
- 8 RCA Male Adapters
- RCA female adapter
- F-female coupler (F-81)
- F-male coupler (F-71)
- F-female coupler (Speed 81™)
- F-male push-on adapter
- AAA battery
- Deluxe case with belt clip





## POCKET TONER ANTENNA / SATELLITE INSTALLER KIT

### I2MM-PTNX8-SAT

#### Description

The I2MM-PNX8-SAT Pocket Toner Antenna/Satellite Installers Kit is a hand held kit. The perfect tool for Satellite and Antenna Installers.

With the I2MM-PTNX8-SAT satellite installers and service technicians can perform system testing quickly and efficiently by using the 8 ID caps included in the kit. These ID caps have voltage protection (6v-48v) so you needn't worry about damaging your tool or ID caps with voltage. In fact when voltage is present, the patented ID caps have an LED that lights green if voltage is present from (6v-48v) providing valuable line testing information.

I2MM-PNX8-SAT is the best tone and tag tool for testing continuity, shorts, 50-75  $\Omega$  termination, and polarity—on eight cables at once! Simply place each of the numbered ID caps on the remote ends of the cables to test then connect the main unit to the other end of the test cables one at a time. If there is continuity, the green LED on the ID cap will light and the main unit will show the ID cap's number (1-8) on its digital display. In addition, the audible indicator in the main unit will emit a short tone.

I2MM-PNX8-SAT also tests for the presence of both AC and DC voltages from 6V-48V.

#### Key Features and Benefits

- Low-voltage circuit protection (6v -48v) in main unit, toner unit & ID caps
- 8-Segment LED displays 5 different test results
- Audible indicators in both Main Unit & detachable Toner Unit
- LED indicators on all ID caps indicate continuity
- Main Unit "beeps" when line condition changes
- Test up to 8 cables at once
- Bi-gender Toner Unit w/removable Speed 81™ coupler
- Removable push-on F-type connector
- Nickel-plated brass connection fittings
- Lightweight and durable, anodized aluminum construction
- Push-button power switch w/dust seal
- Auto shut-off feature extends battery life
- Uses 1 standard AAA battery

#### Product Specifications

- Pocket Toner® NX8
- 8 ID numbered caps
- RJ-11 adapter
- Dial Tone Detective™
- Alligator clips & RJ-11 adapter
- F-female coupler (F-81)
- F-male coupler (F-71)
- F-female coupler (Speed 81™)
- F-male push-on adapter
- AAA battery
- Deluxe case with belt clip





# TEST EQUIPMENT

## DIGITAL TV SIGNAL FINDERS



### DIGITAL TV SIGNAL FINDER

## 12MM-DF02

The Matchmaster Digital TV Signal Finder is designed to ensure that you position and angle your Digital TV Antenna in the correct direction for optimal reception results.

Most televisions are now using an internal digital tuner to look for and lock onto TV channels. A good quality signal is essential for high quality digital pictures and to achieve this the antenna must be pointed in the right direction and at the correct angle to maximise digital signal strength and quality. Quite often the channels are limited in number and are of poor picture quality, because the aerial is not tuned in accurately enough. At last a simple solution is available from Matchmaster, a smart pocket sized hand held Digital Signal Finder which simply plugs into your existing aerial system, in your home, caravan, motor home or boat, and with little effort indicates the best direction for the aerial to point. All this only takes a few seconds of your time and gives professional results.

#### Features

- Simple connection instructions
- Suitable for the Home, Caravan, Boating and Leisure enthusiast
- Simple connection instructions
- Easily locate the best Digital TV picture quality for your application
- Time saving
- Includes 9V battery

#### Application

- Connect the antenna cable to the port marked 'ANT'. Remove any external amplifiers that may be connected to the antenna.
- Turn the signal finders' power to on.
- Adjust the antenna to the best position by watching the LED lights. Higher up the scale gives a better signal. When in position, remove finder and replace any amplifiers that were disconnected.

#### Technical Data

Frequency Range TV	174 ~ 820 MHz / 500 ~ 690 MHz	
Input	1 ('F') Type Female Connector	
Return Loss	Input	10dB ≥ 8dB
Input Level	TV	50 ~ 80dBuV / 50 ~ 90dBuV / 10dB Step
Battery Used (TV)	50mA @ 9V	Power from B6F22 battery
Switching Buttons Power	Power	On/Off
Switching Buttons Signal	TV	1 x Red / 1 x Yellow / 2 x Green LED's
LED's Signal & Strength	1 x Red, 1 x Yellow, 2 x Green LED's	Red: Weak / Yellow: Medium / Green: Strong
LED's Power	1 x Red	Power Indicator



## DIGITAL SATELLITE & TERRESTRIAL SIGNAL FINDER

### 12MM-DF03

The TV & SAT Signal Finder is a highly sensitive and accurate combined UHF/VHF Antenna and Satellite signal finder. It incorporates both audio and visual signal indication and UHF/VHF signal finding has much improved sensitivity giving greater accuracy for aerial alignment in areas with poor signal strength.



#### Frequently Asked Questions:

- Q. I have lots of leds lit on the signal finder and yet my TV reception is not good on all channels.
- Try switching your booster to low/normal and continue to rotate the aerial until the next maximum peak. If you do not have the facility to switch your booster, try fitting the Signal Finder between the aerial and the booster.
  - If your aerial is horizontal, try adjusting so that it is vertically polarized.
- Q. How do I check the battery on my Signal Finder?
- As long as the green power LED shows brightly, the battery is good.
- Q. Can I use the TV & SAT Signal finder in line with my aerial and receiver?
- The TV & SAT Signal finder cannot be used in line, simply plug your TV aerial into the Signal Finder, align your aerial then re-fit the lead to the TV.
- Q. How can I find out the Elevation angle for my satellite dish for my location?
- The Internet is a good source of such information.
- Q. How do I adjust the elevation angle on my satellite dish?
- The elevation angle is how high into the sky, the dish is directed. All dishes are different, but most have some way of indicating the rough elevation angle and a means of screw/nut locking for the mechanism. There should be an indicated guide in degrees. Please remember that this relies on the dish being mounted either level or on a perfectly vertical pole.
- Q. My Signal Finder doesn't automatically power up when I connect it to my satellite dish/receiver.
- The automatic power function relies on a sound cable connection between the receiver, Signal Finder and LNB. Please check that the cable is not damaged or faulty and that the receiver is switched on and not in standby.

#### Technical Data

Power Requirement	9V Battery. Avg. 60mA. (or automatic power via Satellite Receiver connection 13-18VDC)
Battery Life	Zinc (6F22) better than 6Hrs continuous use. Alkaline (6LR61) better than 10 hours continuous use
Frequency Response	TV Antenna 40-860MHz SAT, 950-2150MHz

Sensitivity: ANT input, 4 channels/MUX's, +/-2dBuV, 75Ω (single channel sensitivity in square brackets)

LED	44 (63) dBuV	Low signal, not all TV services may be available
LED's	47 (66) dBuV	Minimum signal, not all TV services may be available
LED's	51 (69) dBuV	Minimum signal, not all TV services may be available
LED's	54 (72) dBuV	Optimum signal
LED's	59 (75) dBuV	Optimum signal
LED's	61 (78) dBuV	Optimum signal
LED's	64 (81) dBuV	Optimum signal
LED's	68 (84) dBuV	Optimum signal
LED's	71 (87) dBuV	Optimum signal
LED's	74 (90) dBuV	Optimum signal
LED's	78 (94) dBuV	Optimum signal
LED's	81 (98) dBuV	Strong signal, attenuation may be required

SAT input – Visual/Audio indication only

# Matchmaster TV Reception 2013 Product Catalogue

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