



TRIAX

connecting the future



## TRIAX<sup>®</sup> Meters

Measurement instruments using the latest technology to make your installation perfect



[triax.com](http://triax.com)

# TRIAX<sup>®</sup> MCT Meters

the most innovative TV Meters for digital television

## Measuring up to all your needs

Whether it's terrestrial, cable or satellite TV, analogue or digital, TRIAX meters are your all-round, all-weather companion for the perfect installation.

Testing and measurement is an essential part of today's digital distribution of high quality television and data signals.

TRIAX's TV meters use the latest technology to analyse signals in exceptional detail, while the results are displayed clearly and with unrivalled accuracy.

- Fast startup
- Panoramic, high resolution screens
- Measures all standard signal formats
- Now including HEVC H.265 measurement plus decoding (2K resolution) on 10" models
- Exceptional reporting detail
- Easy to read, even in sunlight
- Easy to use touchpad
- Software & firmware upgradeable
- Data import & export via USB stick



The ideal companions for  
DVB T/T2/T2Lite ~ DVB-S/S2  
~ DVB-C in SD and HD Quality

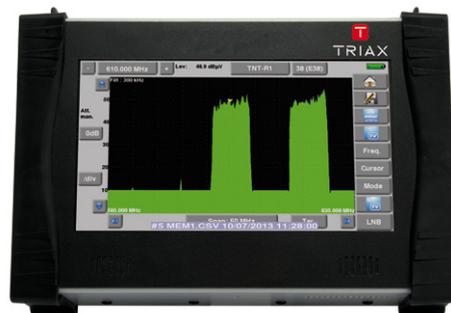


—All the information you need, at a glance.

# TRIAX® MCT Meters

measurement instruments

The 10" series ready for the 21st. century



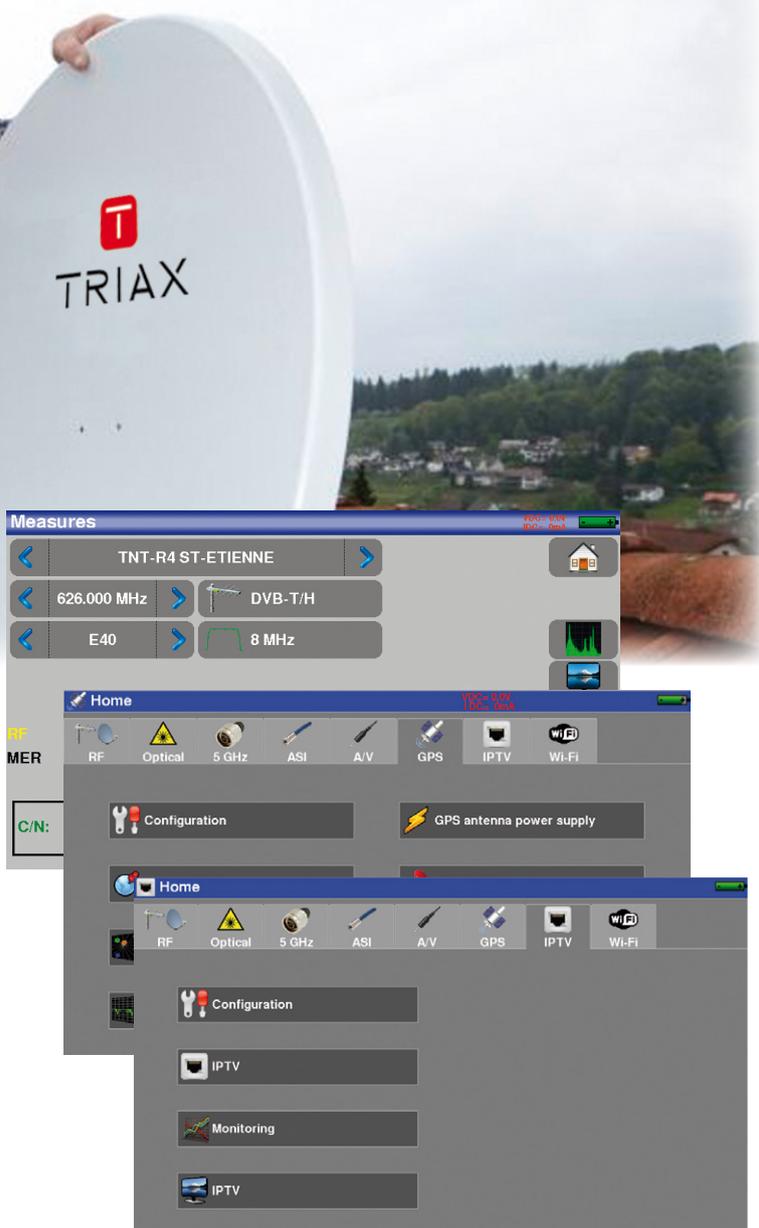
- The TRIAX MCT 10" series is a new generation of TV Meters / TV Analysers combining the best of technology and innovation. All instruments of this new family combine high end features, innovative design and powerful user interface.
- HEVC measurement and decoding (2K resolution)
- Includes sun & rain protector and belt hanger kit



The 7" series



- The TRIAX MCT 7" series combines the key features of the 10" series in a handy, compact package.
- HEVC measurement
- Includes sun & rain protector and belt hanger kit



—Easy to reach menu points for all networks

# TRIAX® MCT 080, 081, 082 & MCT 085

- measuring all kind of signals you need in your installation work

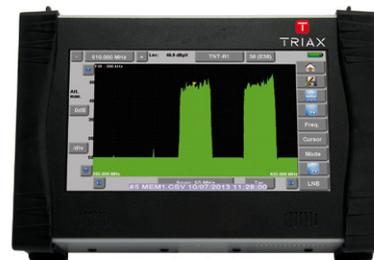
## The TRIAX 10" series



### MCT 080 - combi meter

DVB-T/T2/T2 lite, DVB-S/S2, DVB-C/C2, MPEG4-H264, HEVC-H.265, analogue TV, video in/Out, HDMI out and Wi-Fi 2.4 & 5GHz

Art. No. 812980 - EAN Number 5702668129806



### MCT 085 - combi meter

- as MCT 082 + Optical input, DAB, DAB+, FM RDS, GPS

Art. No. 812985 - EAN Number 5702668129851



### MCT 081 - combi meter

- as MCT 080 + Ethernet interface, CAM CI slot

Art. No. 812981 - EAN Number 5702668129813



### MCT 082 - combi meter

- as MCT 081 + ASI In/Out, IPTV

Art. No. 812982 - EAN Number 5702668129820

## MCT 08x - 10" Series - Common features:

- Panoramic LCD touch screen: 10 inches (16:9)
- Display free to air programs for digital terrestrial, cable and satellite
- Display High Definition TV programs MPEG4-H264 and HEVC (H265)
- Display analogue TV programs
- All measurements for DVB-T/T2/T2 lite, DVB-C/C2 (J83-A and B), DVB-S, DVB-S2, WiFi
- IPTV measurements and decoding
- Ultra fast spectrum analysis and expert spectrum analysis
- Constellation diagram
- Three in one display: measurement, TV picture, mini spectrum
- Analog input and output
- Memorize and export/import data with USB memory stick
- Battery with 1 hour charging time and 4 hours autonomy

## FEATURE COMPARISON CHART - TRIAX MCT 080 ~ 085 - 10" RANGE

Selection guide	MCT080	MCT081	MCT082	MCT085
Art. no.	812980	812981	812982	812985
Frequency range - VHF/UHF 5 - 1005 MHz	✓	✓	✓	✓
Frequency range - SAT 900 - 2200 MHz	✓	✓	✓	✓
HEVC H.265 decoding (2K resolution)	✓	✓	✓	✓
MPEG-2, MPEG-4, HEVC H.264 decoding	✓	✓	✓	✓
DVB-T/T2/T2Lite, DVB-C/C2, DVB-S/S2 (MS)	✓	✓	✓	✓
DVB-C/C2 : J83A, J83B	✓	✓	✓	✓
Fast spectrum analysis	✓	✓	✓	✓
Impulse response: echoes and pre-echoes in DVB-T/T2	✓	✓	✓	✓
Constellation diagram for all standards	✓	✓	✓	✓
dCSS and SatCR (EN50607)	✓	✓	✓	✓
External software compatibility (TR7837)	✓	✓	✓	✓
Expert spectrum analysis	✓	✓	✓	✓
Display free HD 2k digital programs for terrestrial, cable & satellite	✓	✓	✓	✓
Analog program decoding and display	✓	✓	✓	✓
Video I/O	✓	✓	✓	✓
MER per carrier	-	✓	✓	✓
Ethernet interface with webserver	-	✓	✓	✓
HDMI output	✓	✓	✓	✓
CAM common interface	-	✓	✓	✓
ASI I/O	-	-	✓	✓
IPTV decoding and analysis	-	-	✓	✓
Shoulder measurement	-	-	✓	✓
WiFi (2.4GHz & 5.3GHz)	✓	✓	✓	✓
MPEG TS analysis (ETR 101-290, bit rate)	-	-	-	✓
TV programs recording on SD memory card	-	-	-	✓
Optical input	-	-	-	✓
DAB, DAB+, FM RDS	-	-	-	✓
GPS	-	-	-	✓
Warranty	2 YEARS	2 YEARS	2 YEARS	2 YEARS
Carrying bag and protection pouch	○	○	○	○
Accessories - see next page				

Download datasheet from website  
- scan the QR-code



# TRIAX® MCT 080, 081, 082 & MCT 085

- technical data & accessories

## Technical specifications for the 10" series

Type:	MCT 080	MCT 081	MCT 082	MCT 085
Art. no.	812980	812981	812982	812985
<b>CHARACTERISTICS</b>				
Video decoding	PAL, SECAM, NTSC, MPEG-2/4, HEVC SD/HD (HEVC 2K resolution)			
MER	DVB-T/H/T2: 5...35 - DVB-S/S2: 0...20 - DVB-C/C2: 20...40 - J83B: 20...35dB			
Sound reproduction	MPEG-1, MPEG-2, AAC, HE AAC, Dolby Digital, & Dolby Digital Plus			
<b>FREQUENCY</b>				
Measurement Range A	DVB-T/H/T2/T2 Lite/J83B			
Measurement Range B	DVB-S/S2			
Measurement Range C	DVB-C/C2			
Measurement Range D	FM/DAB/DAB+			
Measurement Range E	Optical 1310-1490-1550 nm			
Frequency range	5 ... 2200MHz			
Measurement sensitivity VHF/UHF	20...120dB $\mu$ V			
Measurement sensitivity SAT	20...120dB $\mu$ V			
Measuring accuracy	$\pm$ 2dB +/- 0.05dB/°C			
<b>ELECTRICAL</b>				
Impedance	75 $\Omega$			
<b>OPERATIONAL</b>				
Battery	Lithium-Ion 100Wh			
Remote voltage - DVB-T/SAT	5/13/18/24V, 500 mA max (300mA max. for 24V)			
Remote voltage - SAT	13V/18V, 500mA max			
AC Supply voltage	110...230VAC			
DC Operating voltage	15VDC			
External PSU	Included			
Accessories included	Main wall plug adapter, user manual CD, carrying belt and carrying pouch, F/BNC adapter			
Temperature - operating	-5 ... +45°C			
Temperature - storage	-10 ... +60°C			
<b>CONNECTORS</b>				
Connector IN 2	Optical - FC/APC			
Connector LAN	RJ45 female			
Connector USB	USB female			
Connector IN	F-female / BNC			
HDMI out	Yes			
<b>MECHANICAL</b>				
Net Weight	2.800kg			
Packing QTY	1			
Display	10" color LCD 16:9 w/ backlight 1280x800, capacitive			
Dimensions product (H x D x W)	310x210x80mm			



## MCT 080/081/082/085 accessories



**Carrying Case MCT 08x**

Art. No. 812987

EAN Number  
5702668129875



**Transportation bag MCT 08X**

Art. No. 812986

EAN Number  
5702668129868



**Carrying Case MCT 08x**

- all types of MCT 08x



**Power Supply  
MCT 08x**

Art. No. 812962

EAN Number  
5702668129622



**AV Cable for MCT 08X**

Art. No. 812988

EAN Number  
5702668129882



**CAC 150  
Cigar cable power supply**

Art. No. 821912

EAN Number  
5702668219125



# TRIAX® MCT 048, MCT049 & MCT 059

for DVB-T/T2/T2Lite - DVB-S/S2 - DVB-C in SD and HD Quality

## The TRIAX 7" series



### MCT 048 combi meter

DVB-T/T2/T2 Lite - DVB-S/S2

Art. No. 812950

EAN Number 5702668129509

### MCT 048 & MCT 049 - Features and benefits

With its panoramic 7-inch display, you experience the full benefit of touch screen technology: intuitive access to functions, menus and measurements. The rugged new housing with protective bumpers is designed for extensive field use and protecting the sensitive parts of the instrument.

- Touch screen, compact, robust and easy to use
- All digital measurements in DVB-T/T2/T2Lite, DVB-S/S2, DVB-C (MCT 049 & MCT 059)
- Panoramic LCD, with display of MPEG2 and MPEG4 TV programmes
- Checksat and tool to align antennas
- USB and Ethernet interface



### MCT 049 combi meter

DVB-T/T2/T2 Lite - DVB-S/S2 - DVB-C/C2

Art. No. 812960

EAN Number 5702668129608



### MCT 059 combi meter

DVB-T/T2/T2 Lite - DVB-S/S2 - DVB-C/C2  
and Optical Measurement

Art. No. 812970

EAN Number 5702668129707

### MCT 059 - Features and benefits

The MCT 059 has the same features as the MCT 049, plus an optical input which can be used for measuring signals from fibre. The optical to RF converter allows all measurements and functions on the optical signal, just like the terrestrial or satellite regular signal.

- Optical input for terrestrial and satellite, including optical power measurement
- USB for data saving & export

## FEATURE COMPARISON CHART - TRIAX MCT 048 - 049 - 059 - 7" RANGE

Selection guide	MCT 048	MCT 049	MCT 059
Art. no.	812950	812960	812970
Frequency range 45 to 900 MHz	✓		
Frequency range 5 to 900 MHz		✓	✓
Frequency range 900 to 2200 MHz	✓	✓	✓
DVB-T, DVB-T2 measurements	✓	✓	✓
DVB-T2 Lite measurements	✓	✓	✓
DVB-S, DVB-S2	✓	✓	✓
DVB-C, DVB-C2 measurements		✓	✓
Real time echoes measurement with zoom	✓	✓	✓
SAT finder with SAT identification	✓	✓	✓
Optical power measurement			✓
Optical to RF conversion			✓
50 channels measurement, text or graphical mode		TXT	TXT
Constellation diagram		✓	✓
Measurement storage		✓	✓
Measurement location storage		✓	✓
Data export and saving on USB stick		✓	✓
Interface USB A, ETHERNET	✓	✓	✓
Warranty	2 YEARS	2 YEARS	2 YEARS
Steel housing	✓	✓	✓
Touch screen display 7" TFT	✓	✓	✓
Accessories - see next page			

Download datasheet from website  
- scan the QR-code



# TRIAX® MCT 048, MCT049 & MCT 059

for DVB-T/T2/T2Lite - DVB-S/S2 - DVB-C in SD and HD Quality

## Technical specifications for the 7" series

Type:	MCT 048	MCT 049	MCT 059
Art. no.	812950	812960	812970
<b>CHARACTERISTICS</b>			
Audio decoding	MPEG-1, MPEG-2, AAC, HE AAC, Dolby Digital, Dolby Digital Plus		
Video decoding	MPEG-2 SD & MPEG-4 HD (H264)		
MER	DVB-T: (5...35dB) DVB-T2: (5...35dB) DVB-S: (0...20dB) DVB-S2: (0...20dB)	DVB-T: (5...35dB) DVB-T2: (5...35dB) DVB-S: (0...20dB) DVB-S2: (0...20dB) DVB-C: (20...40dB) DVB-C2 (5...35dB)	DVB-T: (5...35dB) DVB-T2: (5...35dB) DVB-S: (0...20dB) DVB-S2: (0...20dB) DVB-C: (20...40dB) DVB-C2 (5...35dB)
Colour-TV standard	DVB-T/T2/T Lite, BG, I, L, M, N, Carrier, DVB-S/S2, DSS, PAL, SECAM, NTSC		DVB-T/T2/T2 lite/H, BG, D, K, I, L, M, N, FM, DVB-C/C2, PAL, SECAM, NTSC, DVB-S, DVB-S2, DSS
Sound reproduction	MPEG-1, MPEG-2, AAC, HE AAC, Dolby® Digital, Dolby® Digital Plus		
<b>FREQUENCY</b>			
Measurement Terrestrial	DVB-T/T2/T Lite		
Measurement Satellite	DVB-S/S2		
Frequency range	45-900 / 900-2200MHz	5 ... 2200MHz	
Measurement sensitivity VHF/UHF	20...120 (30...120 @5...45MHz)dBµV		
Measurement sensitivity SAT	30...110 dBµV		
Measuring accuracy	±2dB +/- 0.05dB/°C		
<b>OPERATIONAL</b>			
Battery	Lithium Ion (25W)		
Remote voltage - DVB-T/SAT	5/13/18/24V, 500 mA max (300mA max. for 24V)		
Remote voltage - SAT	13V/18V, 500mA max		
AC Supply voltage	100...240VAC		
DC Operating voltage	15VDC		
DC Current consumption (typ.)	1000mA		
External PSU	Included		
Temperature - operating	-5 ... +45°C		
Temperature - storage	-10 ..+60°C		
<b>CONNECTORS</b>			
Connector IN	F-female / BNC		
<b>MECHANICAL</b>			
Remarks	Delivered with carry bag		
Display	7" color LCD 16:9 with back light		
Dimensions product (H x D x W)	165 x 65 x 250mm		
Weight (including batterie and pouch)	1.35 Kg		
Accesories included	Main wall plug adapter, user manual CD, carrying belt and carrying pouch	Main wall plug adapter, user manual CD, carrying belt and carrying pouch, F/BNC adapter, F/F right angle cable, FC/FC optical cable, FC/SC optical cable, SC/SC to APC & FC/FC connectors	

## MCT 048/049/059 accessories



**Sun & rain protector + belt hanger kit for MCT 048/049/059 with S/N > 3000**

Art. No. 812957

EAN Number 5702668129578



**Transportation bag MCT 04X**

Art. No. 812954

EAN Number  
5702668129547



**Rain protector for MCT 048/049/059**

Art. No. 812952

EAN Number 5702668129523



**Carrying Case MCT 04x**

Art. No. 812961

EAN Number  
5702668129615



**Sun protector for MCT 048/049/059 with S/N < 3000**

Art. No. 812958

EAN Number 5702668129585



**Power Supply MCT 04x**

Art. No. 812989

EAN Number  
5702668129899



**Car cigar lighter adaptor**

Art. No. 812912

EAN Number 5702668129127





# TRIAX

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## Contact

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TRIAX is a global supplier of reliable, innovative products and solutions for the reception and distribution of video, audio and data signals.

Our Products are used in homes, businesses and operator networks by broadcasters, satellite, cable and telecom operators.

Our Solutions combine our hardware and software expertise to deliver value to hospitality and related markets, through a partner network of system integrators, large installers and operators.

TRIAX's headquarters, production and R&D base is in Denmark. With 9 international sales subsidiaries we operate in more than 60 distributor countries.

The TRIAX team consists of 300 employees and is owned by Polaris Private Equity.

See [www.triax.com](http://www.triax.com) for further info.

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