WORLDCAST SYSTEMS

POWERFUL PERFORMANCE CONTROL SAVINGS SERVICES

Audemat MC6

All-in-One DAB/FM Test & Measurement Device

AUDEMAT MC6 is the most comprehensive and versatile measurement platform available for DAB and/or FM in the world today.

Its main function is to help broadcasters, operators, and regulation authorities ensure the best radio service is being offered to listeners while respecting all DAB and FM regulations. This all-in-one system offers both mobile RF coverage measurement and extensive modulation analysis in a single comprehensive system.

Based on a fully digital technology, the Audemat MC6 offers exceptional test and measurement accuracy, as well as multiple receivers for DAB and/or FM.

Unique on the market, the Audemat MC6 offers an unmatched level of versatility and accuracy as well as a smart and practical design.

Fully portable and lightweight, it radically simplifies on-site commissioning and drive tests.

20 YEARS OF excellence

Fully Digital

Full Control

Time saving

ALL in 1

Audemat MC6 benefits:

All-In-One Equipment

DAB/FM drive tests, modulation analyzer, DAB/FM commissioning.

High Measurement Accuracy & Reproducibility

Fully digital, high-accuracy measurement, user-customizable measurement reports, market-leading reproducibility, unmatched levels of precision with its completely mathematical signal demodulation.

Time-Saving Built-In Tools

Intuitive and responsive web interface, automatic measurement reports, simultaneous measurement, multiple DAB and FM receivers.

www.worldcastsystems.com

Perfectly Engineered For Broadcasters and Regulators

Broadcasters & Operators

- Optimize the service to your listeners & customers
- Reduce costs for metering & commissioning

Regulation Authorities

- Optimize FM occupancy & deliver new frequencies
- Save time performing DAB and/or FM measurements
- Control DAB and FM signal without access to transmitter site

Scalable Solution. Powerful Features.

DAB/FM BAND SCANNER

- Identify FM programs and DAB multiplexes to launch a measurement
- Recognize unauthorized stations on the field

DAB ANALYZER

- Check the key parameters during DAB transmitter installations
- Ensure the highest broadcasting quality (MER, Constellation, SFN, TII…)
- Analyze all DAB services

FM ANALYZER

- Check the key parameters during FM transmitter installations
- Ensure a full compliance of the signals (frequency, deviation, MPX power, modulation, RDS…)
- Compare your program with the competition

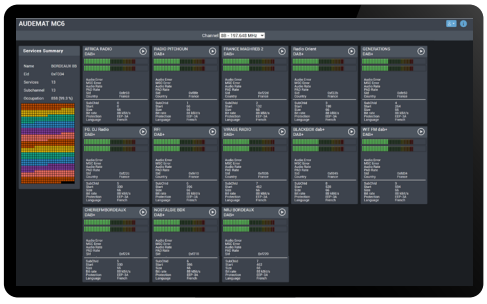
AUTOMATIC REPORTS

- Generate highly accurate and complete measurement report following DAB or FM transmitter installations and on a regular basis

DAB/FM DRIVE TESTER

- Analyze your real coverage
- Identify potential issues
- Generate in-depth reports for FM or DAB
- Reduce the drive time and costs thanks to multiple DAB and FM receivers on-board

DAB Module



DAB Services

FM Module

GoldenEAR SOFTWARE

Quality Reception Analysis

GoldenEar is an algorithm providing a mathematical & objective quality rating of the DAB and FM signals received during a drive test.

Used by major broadcasters and regulators for decades, this technology complements the drive test feature, simplifying the analysis and reporting.

A Wide Scope Of Services For Optimal Performance

To ensure you benefit from all the help, support, and information you need to make sure your system continues running at optimal performance and with all the latest upgrades, it is accompanied with a mandatory 3-year service agreement:

- Factory calibration every 3 years
- Software upgrade
- Priority support
- Free loan unit during repair
- Warranty with extension up to 10 years

> We proudly introduce the Audemat MC6, a culmination of invaluable user feedback, our company's expertise, and numerous technological advancements. The result is a multi-receiver and multi-standard solution, housed within a more powerful, compact, robust, and highly scalable platform, surpassing its predecessors in every aspect.

Gregory Mercier
Director of Product Marketing

Audemat MC6 **Technical Specifications (preliminary)**

DAB MODULE
Band scanner DAB, DAB+, DMB/Band III, Mode I
Reception level
Sync, CNR, SNR, MER
Freq offset (internal reference)
TII: Transmitter Identification Information
Transmitter SFN freq Peaks
Shoulders measurement, Link Margin
MSC errors, RS errors
Constellation, MER and QPSK per carrier
Mode, service mode
Protection info
CU and address
Ensemble label
Country, language
Service list & ID
Dynamic label, PTY
Bitrate
FIG Tables
Audio Mode and Level (L+R)
Audio and PAD bitrates
Audio streaming with Slide Show, DLS Native format or MP3 (8 to 320 kbps)
FM MODULE
Band scanner 87 - 108 MHz
Reception level
RF / MPX / Audio spectrum analyser
RF / Pilot / RDS / AF Frequency meter
MPX power meter
Deviation meter
RF, L & R, L+R, L-R Level measurement
RDS Analyser
REPORTS
DAB Automatic Reports
FM Automatic Reports

DRIVE TESTS	
DAB Drive Test	Up to 2 frequencies with ETI recording, or more wihout recording (round robin)
FM Drive Test	Up to 8 frequencies with audio recording, or more wihout recording (round robin)
DAB+FM Drive Test	Up to 8 FM + 1 DAB frequencies with recording, or more wihout recording (round robin)
INTERFACES	
RF	2 Inputs: N type, 50Ω
Analog MPX (future use)	Input & output: BNC type, unbalanced, 10kΩ
Digital MPX over AES or Digital Audio (future use)	1 Digital input & output: XLR type, balanced
Analog Audio (future use)	2 Analog inputs & outputs: XLR type, balanced
GPS input	Input: SMA type
AUX output (future use)	Output: BNC type, unbalanced
Headphone output	Jack 6.35mm female, Unbalanced (floating ground)
Ethernet	2 RJ45 ports and WiFi
Screen	For IP configuration, device information and status
µSD card slot	For additional storage
STANDARDS & RECOMMENDATIONS	
DAB Radio Broadcasting Systems	EN 300 401 version: 2.1.1, TS 101 756
Audio Encoding	TS 102 563, TS 103 466
Multimedia Object Transfer (MOT)	EN 301 234
ETI Distribution interfaces	ETS 300 799, ITU -T G.703, ITU-T G.704
Frequency deviation measurement	ITU-R SM.1268-5
FM Broadcasting measurement	ITU BS412-9
RDS	IEC 62106
PHYSICAL SPECIFICATIONS	
Dimensions (W x L x H)	33 x 27 x 9 cm - 13 x 10,6 x 4,5 in
Weight	< 4 kg / < 9 lbs
Power Supply	Dual DC inputs 12VDC. One 100-240 VAC adaptor
Operating temperature	0°C à 40°C / 32°F to 113°F
Storage Temperature	-20°C à 70°C / -4°F to 158°F
Humidity	10-95% non-condensing relative humidity

Technical specifications are subject to change without prior notice - On project, WorldCast Systems may offer distinct specifications. Spécifications on the offer prevail those in this document.

Order information

REF	DESCRIPTION
TF01251	AUDEMAT MC6
DAB Modules	
CD01050-DAB	DAB Module
CD01045	Drive Test DAB
CD01046	Drive Test DAB Dual Receivers
FM Modules	
CD01050-FM	FM Module
CD01043	Drive Test FM
CD01044	Drive Test FM Multiple Receivers
Software Options	
CD01042	Measurement Reports
CD01049	GoldenEar
CD01047	EDI and ETI inputs/outputs
CD01048	Reference clocks (10MHz, 1pps)
Services	
SU-MC6	Service contract

Delivery with flight case

1 External 200 V/12 V power supply
1 Cigarette lighter cable (Drive test modules)
1 Ethernet cable
1 Male/male BNC cable + 1 N/BNC adapter
1 FM and/or DAB Antenna (FM or DAB modules)
1 GPS antenna (Drive Test modules)

Headquarters
20 avenue Neil Armstrong
33700 Mérignac (Bordeaux) FRANCE
+33 (0)5 57 928 928
www.worldcastsystems.com/contact-us

US office
19595 NE 10th Avenue Suite A
Miami, FL 33179 USA
+1 305 249 3110
www.worldcastconnect.com/contact-us