WORLDCAST SYSTEMS

POWERFUL PERFORMANCE CONTROL SAVINGS SERVICES

Audemat FM/HD Probe

Advanced FM & HD Radio Monitoring Solution

Building on the proven FM Probe platform, the Audemat FM/HD Probe delivers reliable, advanced monitoring for HD Radio broadcasts, ensuring compliance, quality, and operational peace of mind.

The Audemat FM/HD Probe offers outstanding capabilities that simplify HD Radio monitoring while preserving full FM and RDS monitoring capabilities. It includes advanced decoding, RDS analysis, FM signal measurements, and real-time streaming and recording, ensuring engineers can verify and troubleshoot remotely while maintaining complete oversight of their broadcast signals.

This robust, compact device is designed for demanding environments, providing intuitive remote access, advanced alarm management, and deep signal analytics to help broadcasters meet regulatory requirements and deliver the best quality of service to their audience.

HD Radio®

MONITORING ANALYSIS STREAMING RECORDING TELEMETRY

Key Benefits

Simultaneous HD1, HD2, HD3, FM and RDS monitoring

Real-time audio streaming, recording, and analysis

NRSC mask and FM spectrum monitoring

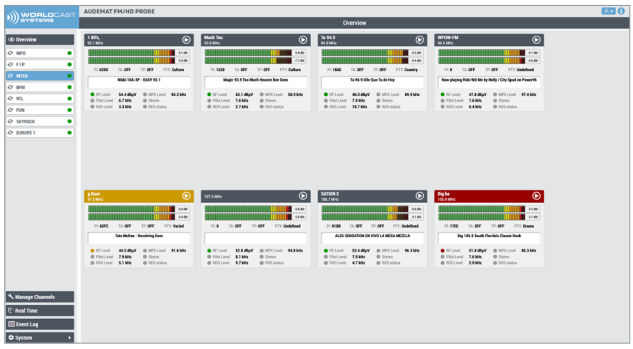
Advanced alarm management and SNMP notifications

Compact, robust design for studio or transmitter site deployment

Scalable monitoring and round-robin options for HD channels

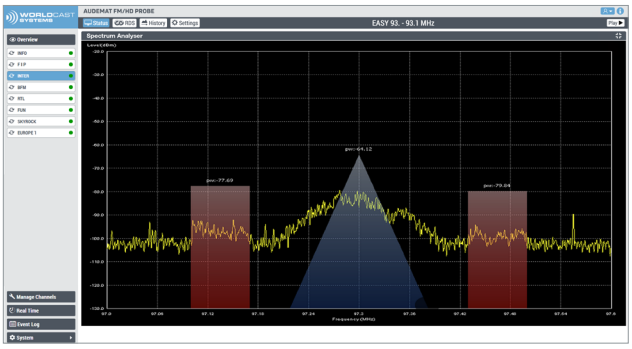
Continuous FM/HD Radio broadcast monitoring:

The fast FM band scanning allows visualizing the entire FM spectrum and identifies the channels you may like to monitor. 24/7 scan monitoring is also available and can inform you in case of missing or unauthorized FM stations.



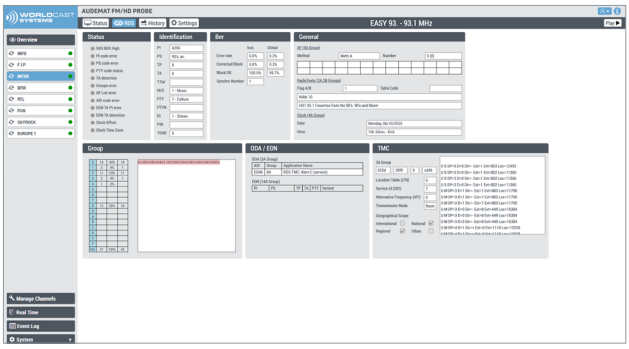
Regulatory compliance and NRSC mask checks:

The device automatically compares your on-air FM spectrum to an NRSC mask to verify compliance with broadcasting regulations. This allows you to easily demonstrate conformity to local and national authorities and avoid penalties.



FM/RDS data analysis and verification:

Engineers can perform deep RDS decoding and FM signal analysis to ensure metadata, such as station IDs, song titles, and service information, are transmitted correctly.
This helps maintain a professional image and a seamless listener experience.



Audio quality and signal alignment monitoring:

The unit measures and compares audio levels, timing, and phase between analog FM and HD signals. This ensures that digital and analog broadcasts are synchronized, preventing jarring differences in audio quality or delay when listeners switch between them.

Market and competition monitoring:

With its scanning capabilities, the Audemat FM/HD Probe can survey the entire FM band, detect HD services, and log new or changed stations. This gives broadcasters actionable insights into their market and competitors, enabling strategic programming and marketing decisions.

Alarm notification & user management:

Several user accounts can be created with personal access levels and rights. Depending on the user access level and rights configuration, an alarm notification can be sent to one or several users by email or SNMP to the network management system(s), ensuring fast response to issues.

Consult the trends:

The unit stores RF measurements over three sliding months in the standard µSD card. Graphical representations make it easy to identify trends. The last 10,000 events including alarms can be consulted and filtered to quickly locate relevant information, and the data can be exported in CSV format.

Stream the service / on-air verification:

Following an alarm, on-air verification is possible. Users can remotely stream the audio, in compressed or in native format, and view the associated DSL and slideshow, enabling instant verification of the on-air situation from anywhere.

AUDEMAT FM/HD PROBE
Key Applications

Content Providers

- Monitor the quality of the broadcast services
- Confirm the programs are ON-AIR 100% of the time
- Check the audio presence and level
- Verify the RDS information deeply

Service Operator

- Ensure the quality and the continuity of the RF signals
- Immediately notify a problem on the broadcasting network
- Remotely control the facility and do the first troubleshooting

Regulation authorities

- Ensure the conformity with the broadcasting rules
- Analyze the causes of possible disturbances
- Give a history of the situation over several weeks.

KYBIO Media

KYBIO Media is a centralized, vendor-agnostic M&C software for media and broadcast, serving markets such as IPTV, radio, TV, cable, and satellite. KYBIO simplifies the monitoring of even the most complex IP infrastructures and helps you ensure operational continuity across your end-to-end value chain from media acquisition, production, and distribution.

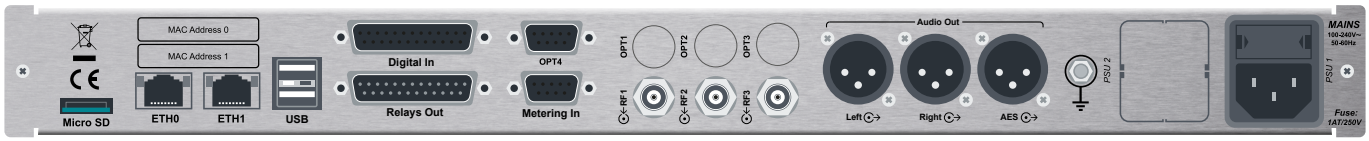
Thanks to its unique combination of monitoring, OSS, and control modules you benefit from improved uptime and performance of your equipment, efficient workflows, and powerful analytics. With its advanced auto-pilot configuration engine, KYBIO is fast and simple to deploy and can be run on-premises, in the cloud or in a hybrid environment.

- **Unified web interface & mobile-ready**
- **Vendor-agnostic monitoring**
- **Auto-discovery & network scanning**
- **Dynamic maps & displays**
- **Real-time monitoring & history tracking**
- **Alarm & notification management**
- **Ticket management for incident & tracking**
- **Analytics & reporting engine**

SCRIPTEASY

On-Site Facility Management & Advanced Telemetry

ScriptEasy is a revolutionary facility control software for connected devices, enabling the automatic correction of any critical errors that may occur. Across its intuitive web interface, ScriptEasy includes management of the GPIO, serial communications, SNMP, logic operators, live user inputs, timers, and more. This enables the "scripting" of site operations for evaluating multiple parameters and automatically engaging back up systems, while simultaneously alerting relevant technical personnel. **Integrated in the Audemat FM/HD Probe, ScriptEasy is the core technology used for the product's telemetry input-outputs.**



Rear panel

Features	Description
RF Receiver	1 RF receiver for FM, HD, and RDS monitoring
HD Decoding	HD1, HD2, HD3 decoding & monitoring
FM/RDS Monitoring	Full FM signal analysis with complete RDS decoding
HD Channel Capacity	Up to 3 HD channels simultaneously, scalable to 8 channels (evaluation phase)
Audio Monitoring	Real-time listening, recording, round-robin monitoring
Data Monitoring	PSD, RDS, service detection, stream mode monitoring
NRSC Mask Monitoring	Integrated FM spectrum analysis with NRSC mask comparison
Signal Quality	CNR/SNR monitoring, FM deviation and pilot measurements
HD Alignment	HD/FM alignment, delay and phase monitoring
Streaming	Remote audio streaming (FM, HD, RDS)
Recording	On-demand or alarm-triggered recording
Library Dependencies	Based on decoding library capabilities
Platform	Built on the FM Probe hardware platform
Control	Web interface, SNMP, telemetry, alarms

Hardware specification	
Features	Description
Dimensions	483mm (19") x 42mm (1U) x 180mm
Weight	2.35 kg
Power Supply	100-240VAC / 50-60 Hz, 25 VA
Operating Temperature	0°C to +50°C
Storage Temperature	-30°C to +80°C
Humidity	10-95% non-condensing
Interfaces	2 LAN ports (RJ45), 2 XLR analog audio outputs, 1 XLR AES output, headphone output, 8 relay outputs, 16 digital inputs, 4 metering inputs, µSD card slot, USB ports, OLED screen
RF Inputs	BNC type for FM, HD, and RDS monitoring

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
TF01271	Audemat FM/HD Probe
FORM-AUDEMAT	1-day training or technical assistance on product installation Audemat
SU-WCS-CPT	Yearly Premium support agreement for WCS compact products

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