Audio Codecs & Secured Transport

**APT IP SILVER**
- Low-cost, reliable Audio over IP
- Separate encoder & decoder units
- Linear audio, aptX® Enhanced, AAC & HE-AAC
- Professional XLR connectors
- SureStream, ScriptEasy & WorldCast Manager

**APT MOBILE SURESTREAMER**
- Mobile network access for remotes & OBs
- Rock-solid remote connection over 3G/4G networks
- No field configuration for high ease of use; simply turn on for immediate broadcasting
- Compatible with any existing codec
- Direct connection to any SureStream-enabled decoder
- Transmission path benefits from the same latency with SureStream technology
- 2 mobile network routers (supplied) connect each venue to the broadcast center and redundantly stream any data (UDP/IP)
- 4.5 hour battery life

**APT IP CODEC**
- Dual port IP codec for duplex stereo links
- Many audio formats implemented as standard
- Reliable DSP-based platform
- Supports Digital MPX over IP with 128kHz & 192kHz sampling
- Front Panel Display as standard
- SureStream, ScriptEasy & WorldCast Manager

**MULTICHANNEL AUDIO OVER E1/T1 CODEC**
- Multi-channel audio over E1/T1 links
- Up to 12 channels in compact 1RU box
- Simplex/duplex and analog/digital options
- DSP-based with hot-swapable modules
- Connects with WorldCast Manager

**MULTICHANNEL AUDIO OVER IP CODEC**
- Multi-channel codec for Audio & MPX over IP
- Many audio formats implemented as standard
- Up to 16 audio channels in 1RU
- Supports 128kHz and 192kHz sampling for digital or analog MPX signals
- Better connectivity with the optional 16x16 Dante/AES67 network module
- SureStream, ScriptEasy & WorldCast Manager

**APT SURESTREAMER**
- SureStream technology in add-on device
- Data-agnostic - streams any data (UDP/IP)
- Add SureStream technology to existing codecs
- SureStream technology maintains the same latency to the transmission path
- Relocate Multicast node to reduce telco costs
- Reliable EDI Distribution for DAB
- 4 universal Ethernet to connect to any type of network access, e.g., xDSL, WiFi router, 3G/4G Router, Cable modem, Satellite terminal, IP Radio link and any other Enterprise network
ECRESO FM 3kW
- High reliability & easy maintenance
- Built-in 5-Band sound processor
- Hot-swappable power supplies
- New planar design
- Highly efficient - up to 76% overall
- Up to 10 years’ warranty
- Connects with WorldCast Manager
- Compatible with SmartFM

ECRESO FM 100W-2000W
- Digital FM exciter
- Up to 72% efficiency
- Full SNMP management
- Advanced Measurement Interface (AMI)
- Export Maintenance Reporting
- Full VSWR, temperature & voltage protection
- Up to 10 Years’ warranty
- Connects with WorldCast Manager
- Compatible with SmartFM

ECRESO FM 5kW /10 kW
- Available as 5kW and 10kW FM transmitters
- As solid as 1+1
- Innovative design for reliability & easy maintenance
- Hot-swappable amplifiers, PSU & fans
- New planar design
- Highly efficient - up to 76% overall
- Up to 10 years’ warranty
- Connects with WorldCast Manager
- Compatible with SmartFM

Built-in features included on all ECRESO FM transmitters
- Direct to Frequency Digital Modulator
- 5-Band sound processor
- Dynamic RDS Encoder
- Advanced Measurement Interface (AMI)
- 24h graphical logs
- Digital stereo encoder
- MPX over AES Input
- Audio Backup on μSD card
- Silence detection and automatic switching
- Internal surge protector
- SFN support

ECRESO FM 3500W/5000W
- Modular design
- With two or three 2000W amplifiers
- Up to 70% efficiency
- Full VSWR, temperature & voltage protection
- Connects with WorldCast Manager

SOLAR FM
- Outdoor use
- Up to 10km coverage
- Built-In FM & DVB-S/S2 Satellite receiver
- Analog & AES audio inputs
- Hybrid Solar/AC power
- Smart energy management
- Resists harsh weather conditions

WE ALSO OFFER
- Built-in 1+1 redundancy (cf. ECRESO FM 5kW / 10kW)
- Turnkey 1+1 and N+1 Systems
- Combiners, racks, antennas & energy solutions
- FM Receiver Silver rebroadcasting platform

Compatible with 5-Band Sound Processor interface
Signal Generation, Analysis, Monitoring & Control

Verify your broadcast chain at anytime

AUDEMAT FM MC5
- Complete FM test & measurement platform
- Highly accurate & reproducible measurements
- FM band scanning
- Drive testing with GoldenEar: Objective signal quality indicator
- Generate Reference signals for Audio, MPX and FM
- Modulation analysis for FM, MPX, audio signals
- Customized test and measurement sequences
- Automatic customized reports

GoldenEars

HQSound® Processor
- Professional sound processor available in 1, 2 & 4 bands
- High quality stereo encoder with 1.5MHz FM limiter
- Powerful 2.8 giga-flops processing
- MPX power limiter
- Full RDS encoding capabilities
- Advanced audio backup
- Connects with WorldCast Manager

AUDEMAT DVB-T/T2 MONITOR
- DVB monitoring, analysis & telemetry in one
- Monitor RF signal levels: DVB-T, T2, T2 lite
- Monitor full TR290: T2MI or MPEG2-TS
- Analyze, record and stream content
- Auto-band scanning for variations/ intrusions
- Separate DVB-T and DVB-T2 units available
- Connects with WorldCast Manager

AUDEMAT DAB PROBE
- DAB, DAB+ DMB / Band III, Mode I
- Compatible with MFN and SFN broadcasts
- Monitoring of RF parameters & audio levels
- Content analyzing with DLS and slide show
- Remote audio streaming (DAB, DAB+)
- Alarm notification by email or SNMP
- Includes ScriptEasy & web page customization
- Connects with WorldCast Manager

AUDEMAT CONTROL SILVER
- Professional remote control for smaller sites
- Compact DIN-Rail mountable
- SNMP monitoring from 2-12 devices
- 8 metering inputs, 8 status inputs, 8 relay, 1 PT100 input
- Included: audio silence detection & audio backup
- Connects with WorldCast Manager

AUDEMAT RDS ENCODER
- Market-leading RDS encoder
- High signal quality & spectral purity
- MPX over AES
- RDS2 Ready
- Full ODA capability
- Dynamic PS, RT and RT+ data
- Enhanced SNMP MIB allow to monitor with WorldCast Manager

AUDEMAT FM MONITOR
- Monitor and analyze up to 40 FM programs
- 3 receivers for simultaneous multi-task operations
- Monitor signal level, RDS, MPX power & content
- Real time audio streaming & recording
- Recorded measurements & events over 30 days
- Auto-band scanning for variations / intrusions
- FM MONITOR Silver for smaller networks
- Connects with WorldCast Manager

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AUDEMAT CONTROL
- Powerful remote site control unit
- Connect to multiple devices from any brand
- Up to 64 digital inputs, 64 digital outputs, 24 analog inputs
- Dedicated DOM for system operation
- Connect via GPIO, IP/SNMP, serial & audio
- Audio streaming & audio backup
- Extractible SSD & memory for easy maintenance
- Delivered with screw terminal panels (32/32/24)
- Connects with WorldCast Manager

AUDEMAT FM MONITOR
- Monitor and analyze up to 40 FM programs
- 3 receivers for simultaneous multi-task operations
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Welcome to a simpler, more efficient way to monitor and manage your network!

The WorldCast Manager NMS &OSS software centralizes and unifies the monitoring and management of all your connected devices, locally and across multiple locations.

Multi-faceted and scalable, it enables you to maximize the uptime and performance of your broadcast equipment.

Leveraging its powerful auto-discovery feature and self-configuration engine coupled with a large library of built-in drivers, the WorldCast Manager is the fastest network monitoring solution to deploy.

Centralized 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 & Resolution Tracking
Analytics & Reporting Engine

Monitor & Manage ALL your Devices on ALL your Sites with our unified NMS/OSS software

SmartFM is a worldwide patented technology for FM transmitters which revolutionizes FM radio broadcasting and brings massive benefits to broadcasters, radios, and their audience of listeners.

Enhances the listening experience for the most sensitive program content

Lowers energy costs by 10 to 40% thanks to electricity savings and reduced cooling

Reduces CO₂ emissions for a cleaner, more sustainable environment

The 1st Patented Artificial Intelligence for FM Radio

SmartFM is the result of WorldCast Systems expertise in signal processing, FM broadcasting and field measurement. It improves the Total Cost of Ownership of FM broadcasters and elevates FM to an unprecedented level of performance and efficiency.

HOW TO BENEFIT FROM SMARTFM?

SmartFM is available on new WorldCast Systems’ FM devices as well as thousands of Ecreso FM transmitters already deployed worldwide, through a simple software upgrade.

SMARTFM IS ALSO COMPATIBLE WITH WORLDCAST SYSTEMS’ FM RANGE, INCLUDING:

• Test & Measurement
• Monitoring
• Network Management Solutions
WorldCast Systems offers a wide range of innovative devices to ensure that your broadcast chain operates efficiently and reliably in the studio, at the transmitter site and right through to the reception area.

**Services & Turnkey Solutions**

In addition to designing equipment for specific broadcast applications, WorldCast Systems also offers a series of turnkey solutions, providing you with a fully integrated system with guaranteed interconnectivity.

We provide our turnkey solutions in fully customizable professional racks, available in different heights with an air cooling system and built-in energy management such as circuit breakers, lightning protection, power consumption meter, multiple power sockets, UPS, etc...

We can also provide a full range of complementary services, providing the necessary knowledge and experience to ensure your network is on-the-air in time and on budget.

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