

Product Range Summary



DAB DAB+ DAB

Content Delivery

- Audio Encoders
- Data Encoders
- Video Encoders
- Visual Radio Encoders
- Data Content Managers



Multiplexing

- All-in-one Multiplexer
- DAB, DAB+ and DMB
- Audio, Video and Data Services
- Virtual Service Multiplexer option
- ETI and EDI support



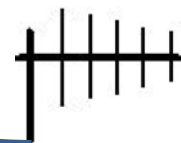
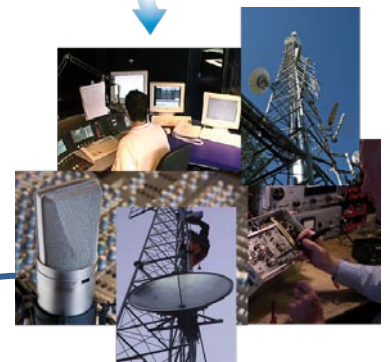
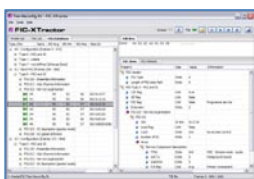
Ensemble Distribution

- GPS Clock
- ETI Switch
- ETI Splitter
- ETI Router
- ETI-EDI Gateway



Monitoring and Analysis

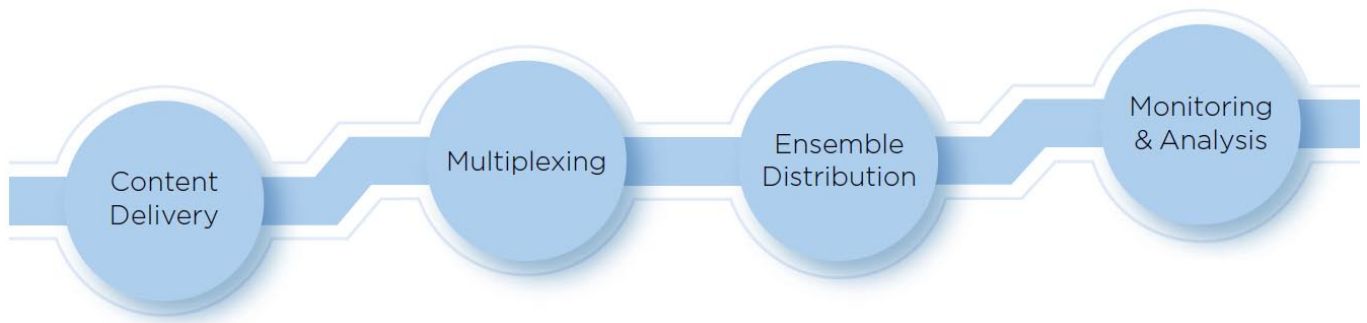
- Ensemble Logger/Recorder/Replayer
- Ensemble Service Publisher/Subscriber
- Ensemble Analyser
- Field Monitoring Receivers
- SFN Synchronisation Monitor





About VDL

VDL are an international Group of companies that delivers broadcasting technologies for Radio, Mobile TV and Network Providers. The Group is in the unique position to offer innovative solutions to its customers as both an experienced broadcaster and an equipment manufacturer.



VDL Products

For the complete broadcast chain

VDL products provide a complete solution covering the whole digital broadcast signal chain from audio, video and data encoding, multiplexing, logging and signal monitoring & analysis.

The VDL Group are acknowledged experts in the development of broadcasting products. We offer product evolution and enhancement from our in-house team of engineering experts and partners. End-to-end systems are configured to meet our individual customer requirements and we monitor technological developments so that our customers benefit from the latest innovations.

Up-to-date, comprehensive and easy-to-use products provide the maximum benefit to our customers. Reliable, stable and proven software and hardware platforms maximise our customer's efficiency and make us the obvious provider for all equipment in the broadcast chain. Products are available for purchase or rental.

VDL provide friendly and efficient after-sales support, either directly, or via our international sales and support partners.



VDL Commitment

VDL are committed to quality, service, innovation and putting our customers at the heart of our business. Our experience and proven expertise allows us to tailor solutions to meet our customer's individual needs.

Content Delivery

Audio Encoders

D-AUDIENCE

- DAB Encoder for MPEG Layer II
- Audio monitoring
- IP connection to VDL D-VAUDAX
- PAD insertion via IP
- Remote monitoring software
- SNMP

D-AUDIENCE+

- DAB+ Encoder for HE-AAC-V2
- Audio monitoring
- IP connection to VDL D-VAUDAX
- PAD insertion via IP
- Remote monitoring software
- SNMP



D-AUDIENCE+S

- DAB+ Encoder for HE-AAC-V2
- IP connection

- Available in 2, 3 and 4 channel configurations
- PAD insertion via IP

Video and Visual Radio Encoders

D-EVIDENCE

- DMB Video Encoder
- IP connection
- BIFS option
- Composite, S-Video or SDI input
- ETI output option

D-EVIDENCE VR

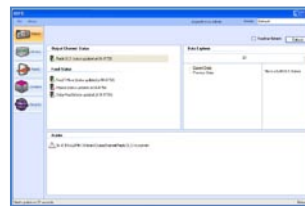
- DMB Visual Radio Encoder
- IP connection
- PAD (Programme Associated Data) insertion via IP
- Supports still image files (slideshow)
- BIFS option



Data Content Managers

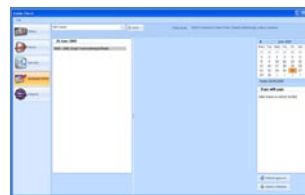
PAD Manager

- Content manager for DLS (Dynamic Label System) and SLS (Slideshow)
- IP Output to VDL D-VAUDAX multiplexer, or external PAD-Server FTP folders



EPG-Manager

- Content manager for Electronic Programme Guide
- IP output to VDL D-VAUDAX multiplexer FTP folder

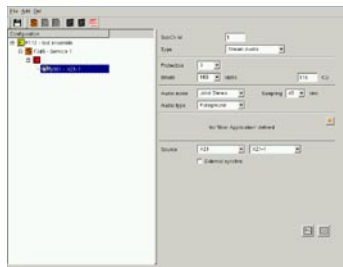
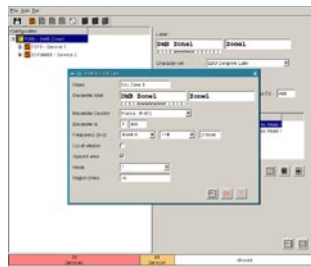


Audio, Video and Data Multiplexing

All-in-one Ensemble Multiplexer

D-VAUDAX

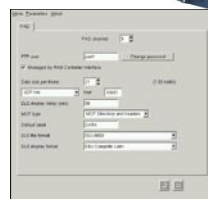
- Integral Manager and Scheduler
- Operator-friendly local and remote graphical user interface
- Web server
- ETI and EDI input/output options
- ETI recording
- SNMP
- API
- Internal PAD Inserter
- Internal NPAD Inserter
- External PAD Inserter option (PAD-Server)
- FTP or UECP Data input
- IP Tunnelling
- FIG Inserter
- Virtual Service Multiplexer option
- Remote Service Provider Configuration Management with Scheduling
- Multiplexer Redundancy Management
- 1+1 and Spare Pool Encoder redundancy options
- Event logging with viewing filters
- Remote maintenance and upgrade



PAD Inserter

PAD-Server

- Inserts Programme Associated Data into VDL D-AUDIENCE DAB and DAB+ Audio Encoders
- FTP folders for content input
- IP output to local or remote Audio Encoders
- Available for 2, 4, 8 or 20 PAD channels
- UECP and API options



Monitoring and Analysis – ETI Streams

ETI Monitor

DABSTOR-E

- ETI-NA or ETI-NI input (G.703/G.704)
- Integrated DAB & DAB+ Audio monitoring decoder
- Simultaneous monitoring of all Audio sub channels
- Audio signal output
- Control via LAN
- SNMP and alarms



ETI Logger – Replayer – Recorder – Monitor - Analyser

DABSTOR

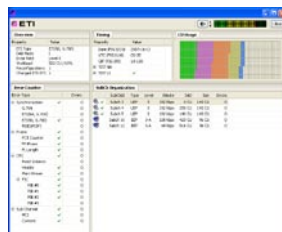
- ETI Logger with up to 180-days endless-loop sequential-file recording capacity
- Choice of ETI Monitoring and analysis applications
- ETI Recorder and Replayer applications
- Ensemble Publisher for service viewing on one by more remote Subscribers



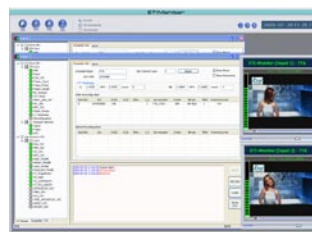
Application Software



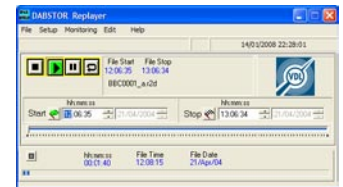
ETI Logger



ETI and FIC Analyser



ETI Monitor



ETI Replayer

Portable ETI Recorder - Replayer - Analyser

DAB-XPlorer

- USB 2 interface between ETI or RDI and PC
- Recording and replaying ETI/RDI data streams
- Structural analysis of DAB/DAB+/DMB multiplex
- Conversion of RDI into ETI
- FIC Analysis
- Bit error analysis with PRBS sequence



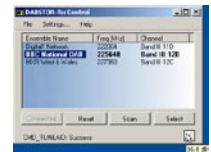


Monitoring and Analysis – Monitoring Receivers

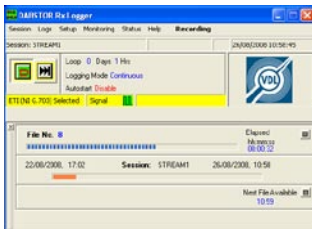
Ensemble Logger, Analyser, Subscriber

DABSTOR-Rx

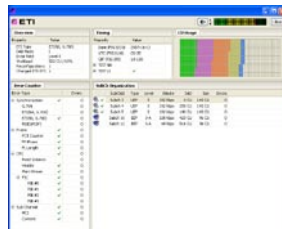
- Band-III and L-Band Receiver
- Logger with up to 90-days reconstructed ETI stream
- Endless-loop sequential-file recording to disk
- ETI and FIC Analyser
- Ensemble Publisher for service viewing on one by more remote Subscribers
- Local or remote control of frequency selection



Application Software



Ensemble Logger



Ensemble and FIC Analyser



Ensemble Subscriber



Service Viewers

SFN Synchronisation Monitoring Receiver

DAB Monitor SFN

- Monitors timing offsets of each SFN transmitter
- Single and dual-Ensemble options
- Ensemble configuration monitoring
- Touch-screen front panel and remote control/status
- Audio monitoring headphone socket
- SNMP and relay alarms



Monitoring and Analysis – Field Monitoring Receivers

Portable Receiver – Ensemble Recorder - Analyser



UEB400 DXP

- USB 2 interface to PC
- Recording of DAB data streams recovered from an RF signal
- Structural analysis of DAB/DAB+/DMB multiplexes
- Conversion to ETI
- FIC analysis
- Bit error analysis with PRBS sequences
- Measuring of temporal variation of a received signal

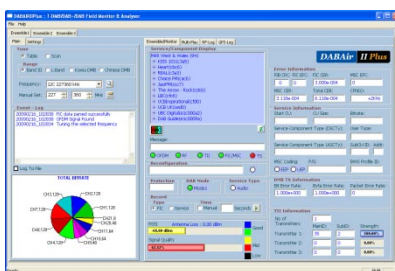


Field Monitoring Receiver

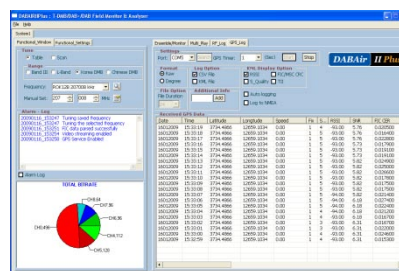


DABAIR-II Plus

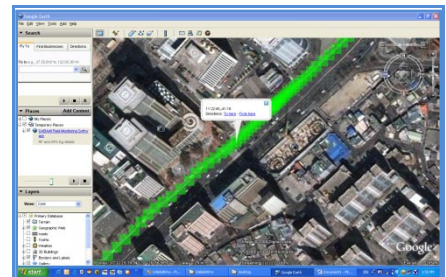
- USB powered portable receiver
- Band-III, L-Band
- RF signal level (RSSI), SNR, FIC CER, MSC CER and TII status
- GPS option with Google Maps and Google Earth compatibility
- RF and GPS logging
- Multiple ensemble option
- Remote Monitoring and SNMP options
- Media Player and Monitor for audio, video and data services



Ensemble and Service status



RF and GPS logging



GPS Tracking with RF status

Ensemble Distribution

ETI Switch

D-SWITCHER



- Automatic switching between 2 ETI streams
- Signal status indicators
- Input priority selection
- Digital (G.703/G.704) inputs and outputs
- Input bypass on power-loss

ETI Splitter

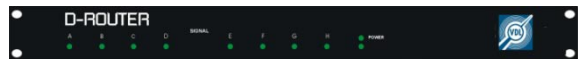
D-SPLITTER



- 1 ETI input to 8 ETI outputs
- Input bypass
- Signal status indicator
- Digital (G.703/G.704) input and outputs

ETI Router

D-ROUTER



- 8 inputs: 4 outputs
- Programmable via LAN
- Graphical stream mapping software
- Input bypass (stream 1)
- Digital (G.703/G.704) input and outputs

GPS Clock

SecureSync



- Internal precision OCXO oscillator
- Modular configuration supports:
 - 1PPS
 - Frequency (2.048MHz, 10 MHz)
 - PTP Grandmaster (or slave)
- High bandwidth NTP performance
- Ethernet 10/100 Base-T (Gigabit Ethernet optional)

Due to continuing development, specifications may subject to change without notice

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