

Recording Solutions

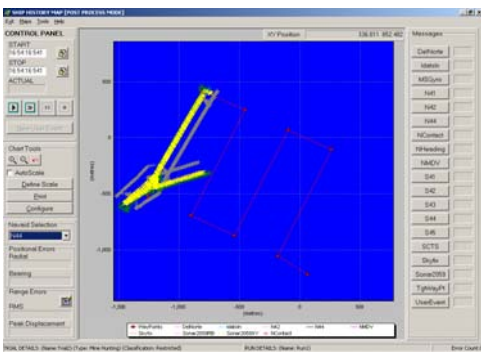


trusted to support secure operations

MASS has considerable experience in the development and delivery of recording solutions to fulfill defence, government agency and commercial organisation requirements. Our products span the range from low cost rugged PC based recording and analysis systems through to complex high speed, wide bandwidth recording systems.



The TRAP system, designed to record and analyse trials data, is hosted on a ruggedised laptop running MS Windows 2000 with six RS232 ports, two ethernet and one synchro-to-digital interface. A 1553B interface option is also available. A portable colour printer is provided with the system. Cabling from the system to other systems is accommodated using a combination of COTS and customised interface modules.



The user interface offers:

- Full recording control
- Graphical plots of predefined or selected parameters
- Automatic or manual scaling of plots
- Numerical grid display of user selected message
- Status monitoring and error reporting facilities

The following post processing facilities are offered:

- Replay control with selectable start and stop times and fast forward
- Same Graphical/Numerical displays as in data capture
- Colour print outs of graphical plots
- Predefined post processing calculations performed on captured data, e.g. range bearing, peak and RMS displacement errors
- Export of selected data in predefined formats

MASS has developed the ARROW product range to provide a powerful, integrated signal collection and analysis suite within a desktop or rack-mounted workstation. Digitizers within the workstation capture either one or two channels of IF sample data, saving the raw sample data to a circular memory buffer.



Real-time raster and pulse parameter representations of live signals are displayed simultaneously. The DASAS project covered the provision of four analogue systems, with MASS-developed synchronisation hardware, to the RAF. As well as product supply, the contract included the provision of product training and follow-on maintenance and support services.

MASS is an independent UK Systems House with a strong Defence & Aerospace market focus, offering specialist skills in:

- **Electronic Warfare**
- **Technology & Innovation**
- **Information Technology**

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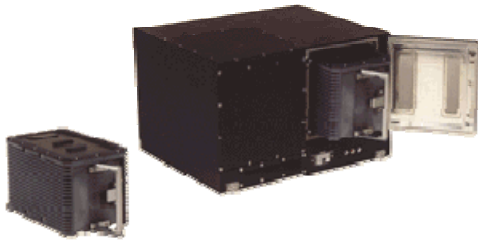
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MASS has a proven track record in the development of leading edge data recording solutions for high volume, high data rate SIGINT applications. MASS developed Command and Control software has been coupled with an off-the-shelf digital data recorder with a high speed wide bandwidth capability to meet the data recording requirement for in-service airborne SIGINT platforms. As well as the platform environment, MASS software tools have been developed for SIGINT ground support functions and operator training.

The key features of the system are as follows:

- Multi-platform applications
- High volume, high data rate recording capability
- High volume data storage
- Windows NT Workstation compatible
- Multi-user control and data access
- Simultaneous record, playback and analysis
- Data throughput rates up to a maximum of 480 Mbits/s
- Programmable high quality analogue input data interfaces
- Configurable recorder bandwidths
- Hot swap for additional recording



The Ground Replay System has the following features:

- Software configurable for a variety of IT platforms
- Client-server architecture
- Data handling, reduction and filtering tools
- Long term archiving
- Data restoration for reconstruction and replay
- Supports multiple simultaneous operators for data access, manipulation and control

In addition to the recording system hardware, MASS can also supply full system emulation software systems in order to provide the customer with the following benefits:

- Full system emulation
- Provides essential ground-based training
- Instructor control of system fault simulation
- Data recording mimics real world data

