

Vehicle Intercom Systems (VIS)

COBHAM

ROVIS (AN/VIC-3)

The most important thing we build is trust





Cobham's family of VIS is designed to provide effective and reliable Command and Control solutions for a wide spectrum of platforms and configurations, including command centres and HQs.

Cobham's family of VIS includes ROVIS (AN/VIC-3), LV2 and the new TacG2 providing clear, reliable communications in any combat environment

Cobham is the world's leading manufacturer of Vehicle Intercom Systems (VIS), with over 120,000 systems in service around the world.

Cobham has developed a family approach to VIS that provides the customer with a complete capability across a wide spectrum of platform types and functions, ranging from light vehicles to heavy armour and command centres. Reflecting the increased emphasis users are placing on data, Cobham's new software defined VIS, known as the TacG2, provides significantly increased capability and functionality with data as standard.

Cobham's success is based upon a clear understanding of customer needs and requirements, supported by the development of a highly flexible range of products. It is this strength of understanding that enables the company to offer solutions that can be tailored to fit specific platform configurations. With a high degree of interoperability between all Cobham's VIS, the family concept allows 'fitting for role' to provide cost effective solutions to meet current and future operational requirements.

Cobham's VIS have been proven in battle to reduce stress and increase combat efficiency

The family concept, adopted by Cobham, is one of a modular system. When additional functionality and capability is required, modules can be replaced or added to any system to increase capability and functionality, without the need for system replacement. The interoperability across the range of Cobham's VIS, includes the ROVIS (AN/VIC-3), LV2 and the new TacG2*.

No other system provides Cobham's flexibility to 'mix and match' modules to produce tailored functionality with a consequential reduction in capital expenditure.

*See TacG2 brochure for compatibility of TacG2 modules

The Professional System of Choice – Proven in Combat

ROVIS (AN/VIC-3)

Designed to the highest of military standards, ROVIS (AN/VIC-3) is the workhorse of the Cobham family of intercoms. ROVIS (AN/VIC-3) is the standard fit to all US Army medium and heavy armoured vehicles.

With simple installation and setup procedures, Cobham's most popular intercom, the ROVIS (AN/VIC-3), offers crew members full control of all aspects of their communications environment, including:

- Continuous fault monitoring and warning
- Individual control over working radio selection
- Individual control over monitor radio selection
- Individual control over intercom access (VOX, Live Mic, PTT)
- Individual volume controls

Battle Proven Reliability

Mission critical platforms require a VIS that provides high reliability to allow the crew to fight their platform under all circumstances, even after battle damage has been sustained. ROVIS (AN/VIC-3) is the most reliable, military grade VIS available providing the three key functions to its users:

- The ability to fight the platform
- High quality external communications over Combat Net Radio (CNR)
- A high level of battle damage resilience

Cobham's ROVIS (AN/VIC3) more than meets these key requirements, and does so under all operational environments. Reports obtained from user groups involved in active combat show that ROVIS (AN/VIC-3) far exceeds expectations for reliability and availability.



“The quality of the products under this contract have exceeded all expectations. Reliability and availability data is estimated to be among the highest of any this office has seen for this type of system. Grading:- Exceptional.”

Quote from US DoD



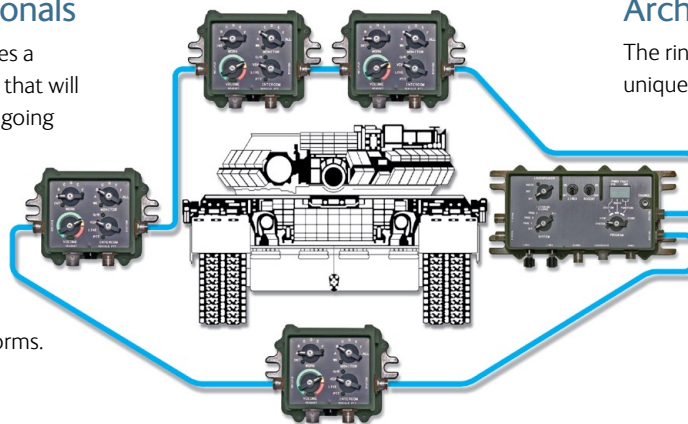
- Ease-of-Use
- Simplified Training

- High Reliability
- High Availability

- Low Life Cycle Costs
- Automatic Fault Monitoring

The Choice of Professionals

Cobham's ROVIS (AN/VIC-3) provides a user friendly, highly reliable system that will remain operational even when the going gets tough. With ease-of-use a key feature and a very high battle proven reliability, it is little wonder that the ROVIS (AN/VIC-3) is the first choice of professionals all around the world for medium and heavy platforms.



Architecture

The ring architecture of Cobham's VIS is unique and provides dual paths for both signal data and power. With dual redundancy in every unit, extra reliability is built into the system in the unlikely event of electronic or battle damage being sustained. Re-routing of power and data is fully automated and requires no user intervention.



The Master Control Station (MCS)

The MCS provides protected and conditioned power to all modules within the system from a single 24V supply. Main features of the MCS include:

- Separate protected power for both system modules and ANR headsets
- Alarm Inputs
- Two wire field telephone connection
- Loudspeaker connection with volume control
- Three programmable modes for different operational scenarios
- Ability to allow or deny access levels to external CNR
- Two external radio ports
- Comprehensive BIT and fault monitoring
- Ring highway connection
- Display for programming and BIT

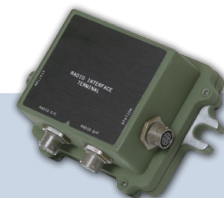


Full Function Crew Station (FFCS)

Designed for simplicity of use under all environmental conditions, the FFCS provides one user per crew station with the following key functions:

- Selection of working radio
- Selection of monitor radio
- Volume control
- Selection of intercom access
 - PTT operation
 - Live Microphone
 - Noise following dynamic VOX
 - Emergency override

The preferred method of intercom access is VOX. With the highly successful adaptive noise tracking algorithm, used in all Cobham's VIS, the intercom is only activated when the crew member speaks.



Radio Interface Terminal (RIT)

- Provides two additional Radio Ports per RIT

Key Features of ROVIS (AN/VIC-3)

- Full control of internal and external communications via the FFCS
- Up to six radios per system
- Up to six users per system
- Ring cable connection for alternative routing of signal data and power
- Built to full military specifications
- Key features de-centralised for improved reliability
- Modules can be combined with Cobham's other VIS
- Full wireless integration for dismounted crews using Cobham's Eagle Radio

Family Concept – Common Modules

To meet current and future operational requirements, Cobham provide cost effective enhancements and increased capability through modular expansion and technology insertion.

ROVIS (AN/VIC-3)



The Master Control Station (MCS). This provides central power and system control. Incorporates BIT and programmable control over user access to external radios.



Full Function Crew Station (FFCS). The FFCS provides a single user with full control over working and monitor radios, volume control and intercom access.



Radio Interface Terminal (RIT). The RIT enables an additional two radios to be added to the system.



Dual Monitor Only Station (MOS2). The MOS2 allows up to two additional personnel to monitor communication on the platform.



Full Function Crew Station Telephone (FFCS/T). The FFCS/T uses the same functionality as the FFCS with the addition of an interface for an externally mounted Tank Telephone.



Infantry Telephone Station (ITS/R). Provides external infantry personnel with access to the intercom and CNR on the platform.



Remote Access Field Telephone (RAFT). Allows the full capability of an FFCS to be removed over the field cable.



Radio Rebroadcast Unit (RRU). The RRU allows any two radios on the platform to be configured for Rebroadcast/Retrans.



Master Control Station Light (MCS/L). The MCS/L provides similar functionality as the MCS in a small footprint.



Full Function Crew Station Light (FFCS/L). The FFCS/L provides similar functionality to the FFCS with a dual user capability.



Eagle CCR. Cobham's Eagle CCR radio has been designed to integrate with its family of VIS.



DACs with Wireless Expanders. Full wireless integration of Eagle CCR.



Full Function Crew Station Data (FFCS/D). The FFCS/D provides the same functionality as the FFCS with the addition of an RS232 Data Port for data communication of up to 64 Kb/s.



Radio Interface Terminal Data (RIT/D). The RIT/D enables an additional two data radios to be added to the system and is used in conjunction with the FFCS/D for data communication up to 64 Kb/s.



Crew Chest Unit (CCU). The CCU allows crew to operate 'Head-out' in a turreted platform and have control over the working radio and volume. The CCU has two PTTs for intercom and radio access.



User choice of audio ancillaries with/without ANR

Trusted Tactical Communications Over 120,000 Vehicle Intercom Systems Delivered



Cobham Defence Communications.
Haslingden Road, Blackburn, Lancashire, United Kingdom, BB1 2EE
T: +44 (0)1254 292 010 F: +44 (0)1254 292 035
defencecommunications.sales@cobham.com

www.cobham.com/defencecommunications