



Mercury
INTELLIGENT COMMUNICATION



trilogy

Trilogy is a name long associated with high quality, innovative solutions for the broadcast industry. The company designs and manufactures intercom and master timing solutions geared to the stringent requirements of live television and radio broadcasters. With customers in more than forty countries, Trilogy products ensure that programmes are put to air on time and provide seamless presentation.

The reliability and excellent functionality of Trilogy products are increasingly being recognised for other critical applications including Defence, Emergency Management, F1 motor racing and others around the world.

Mercury overview

Mercury is a flexible real-time voice communications platform built on core VOIP technology. The system provides all the operational features associated with conventional digital matrix intercom with the added benefits of easier, low cost networking of multiple systems over standard IP network architecture.

The Mercury system provides a modern, decentralised intercom solution for which the IP interface device serves both as the network link and as a routing matrix for up to 32 users. It does not require a separate digital matrix to operate, making the system very cost effective. However, where a digital matrix already exists (such as a Commander or Orator matrix) then this may be easily incorporated in an expanded system via a Mercury Interface Unit (MIU) as shown opposite. A wide range of interface boards is available for the MIU to connect control panels, 4-wire ccts, telephones, radios, in ear monitors etc..

Users can choose from a variety of deskmount and rackmount panels with up to 32 lever keys or virtual control panels which can be configured with up to 256 buttons. A Mercury Interface Unit may be used as a "host" to which multiple hardware or virtual control panels are connected. This can then be used as a standalone intercom system without any further equipment being required. This arrangement is

ideal for a single studio facility, OB vehicle or SNG truck. As the requirement grows, additional panels may be added up to a maximum of 32 on a single MIU. Multiple MIU's can then be linked via IP to form larger integrated systems. If the requirement is for only one or two panels / 4-wires at a given location, then a USB adaptor operating in conjunction with a laptop or standard PC can be used as an alternative to the MIU. For a single host, the configuration may be stored within the unit whilst for larger multi area systems a supervisory database server running the Mercury Configuration Editor is normally used. Administrators are given precise control over all relevant system and network parameters, including routing, audio levels, priorities etc..

All Mercury products are designed to operate with standards-based IT and network technologies - no special routers, switches or gateways are required. The system is scalable over LAN, WAN and broadband Internet using terrestrial or satellite-based IP network connectivity. Security and QoS is implemented at the network level and standards-based encryption devices including VPN can be used transparently. Mercury functions as a peer-to-peer run-time system and assures continuous operation in even the most challenging environments with no central servers or single points of failure.

- ▲ **Manages complex conference and private conversations simply and quickly**
- ▲ **Provides excellent audio quality – reducing errors and operator fatigue**
- ▲ **Works with existing communication assets**
- ▲ **Reduces costs for linking remote sites by using standard IP infrastructure**

Wherever the requirement for reliable communications exists, Mercury is a leap-ahead technology which operates in conjunction with existing communications infrastructure.

Broadcast

Trilogy is the leader in IP intercom with many years of experience serving the broadcast media sector. Mercury is a highly scalable IP intercom solution and is the logical choice for:

- ▲ Studio Centres
- ▲ Lines areas
- ▲ MCR
- ▲ Outside broadcast vehicles
- ▲ SNG trucks
- ▲ Satellite teleports
- ▲ Cross site links

Mercury IP intercom can operate over any standard IP network including LAN, WAN, internet and satellite links. A wide range of panels, telephony, wireless and other interfaces is available. A comprehensive Configuration Editor enables the excellent functionality to be easily deployed to every port on the system and facilities such as speak/listen, conferences, dial up IFBs, are easily configured.

Defense & Aerospace

Mercury is an enabling technology that provides communications for global information sharing networks across the military services and defense intelligence agencies. It is a Commercial Off-the-Shelf

(COTS) information technology capable of transforming the way the military communicates from its airborne, space-based, naval and ground platforms. This network-centric approach speeds the flow of information to units wherever deployed and improves situational awareness.

Emergency Management

Mercury is a powerful real-time voice communications and interoperability solution for all aspects of Emergency Management. It can be used across the network to link users, radios and telephones from participating agencies into a common "talk-group" system. This provides a unified communications platform for first responders and operation centers alike. Mercury can be used to deploy mobile incident communications packages with reach back to operation centers using IP over satellite connections. Mercury reduces noise levels in control rooms, improves efficiency and reduces operator fatigue.

Security

Mercury allows security operators anywhere in the world to monitor and control voice conversations at remote locations. This facilitates applications where IP connectivity is the required or preferred transmission medium. System configuration allows flexible responsibility assignment for single and multiple security operators. This allows fewer

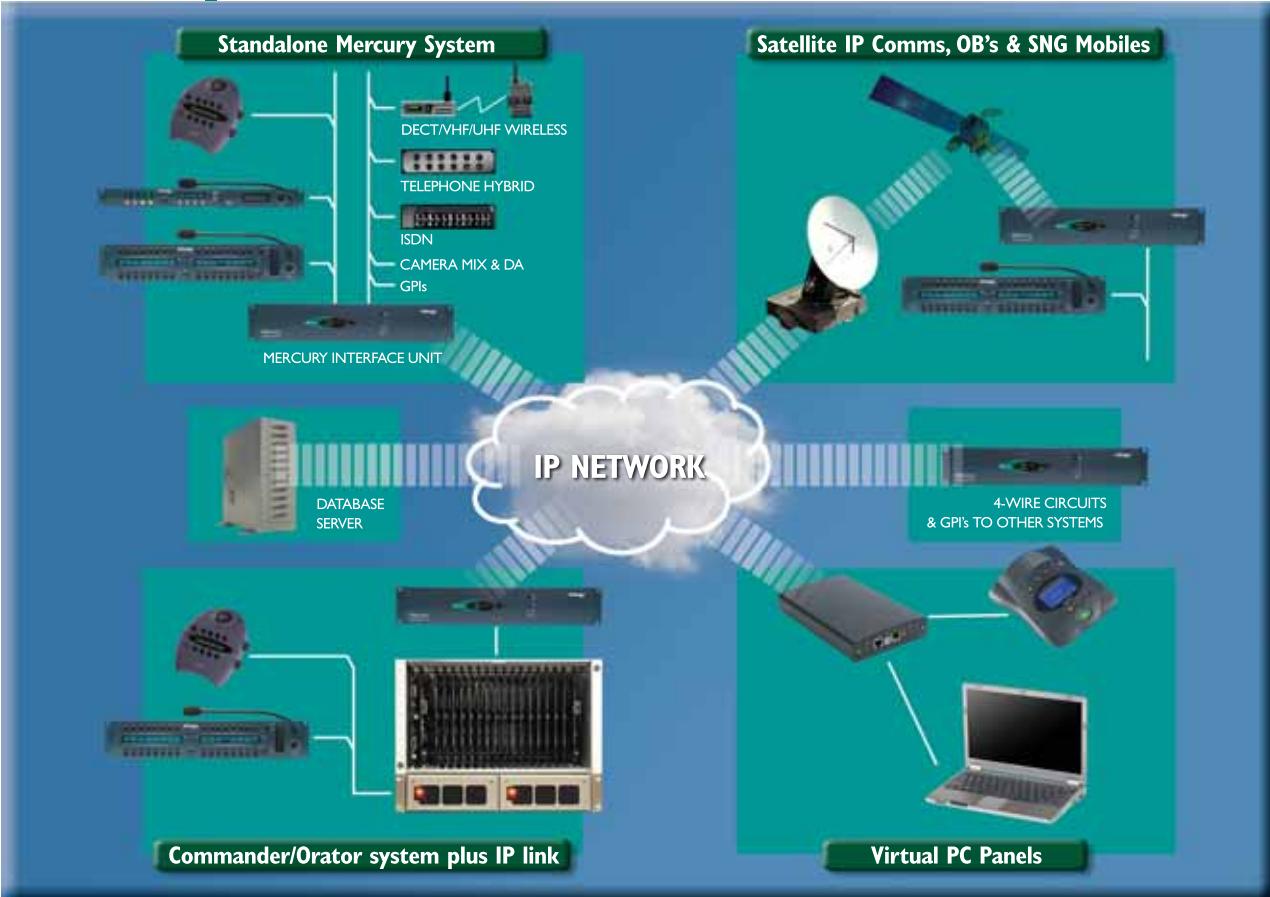
security operators to efficiently handle more remote locations. Security operators can also communicate with other security operators and support staff. Weather-proof and tamper-proof panels are available for outdoor drive-through and walk-up remote locations.

Training & Simulation

Mercury provides powerful solutions for training and simulation as well as classroom and instructional voice communications. Mercury can be configured to enforce a wide range of application specific business rules. Students, instructors and analyst workstations can communicate with actual or virtual radios and telephones to airborne, space-based, naval and ground platforms. Classroom assignments, monitoring, and talk back with instructors can be performed in real-time from a central location as well as in individual classrooms. Mercury integrates easily with third-party hardware and software to provide a consistent GUI and to support dynamic real-time changes.

Our customers continually discover new ways to improve performance, reduce operating costs and speed the flow of communications across their organizations using Mercury. Contact your nearest Trilogy office today for more information.

- ▲ Intercom system operating over LAN or WAN or Internet
- ▲ Works on any terrestrial or satellite-based network
- ▲ Virtual and hardware operator panels
- ▲ One touch operation for immediate communication
- ▲ Private one-to-one, group and conference calls
- ▲ Interfaces for radios, telephones, 4 wire and other audio devices



Panels, radios, telephone i/f's etc. connected as a standalone system using a Mercury Interface Unit (MIU) which may be interfaced to other devices over the IP network

Database server used to supervise multiple systems connected together over IP

Conventional Digital Matrix systems can be connected to other similar digital matrix or Mercury based systems over IP using the MIU

Standalone intercom systems in mobile OB units or SNG trucks connected back to studio centres using an IP satellite connection

Mercury Interface Unit used as a remote connection to 4-wire circuits, GPI's, telephony, remote IFB's etc.

Virtual (soft) panel connected to IP network via USB adaptor. Hardware panels may also be connected to the USB adaptor.



Mercury host options



Mercury interface unit
32 channel max capacity



USB adaptor
use with laptop PC



PCI card
fit inside standard PC

Examples from the extensive panel range



8 key Deskmount panel



1U 8 button panel



2U 32 lever key panel

Mercury

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For further information on the Mercury system and detailed specifications, application notes etc., please go to our website www.trilogys.com or contact your nearest sales office.

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