

SEICAM® 5000 IP-based Digital Audio, Video and Data Distribution

SEICAM 5000

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Hear. See. Understand.



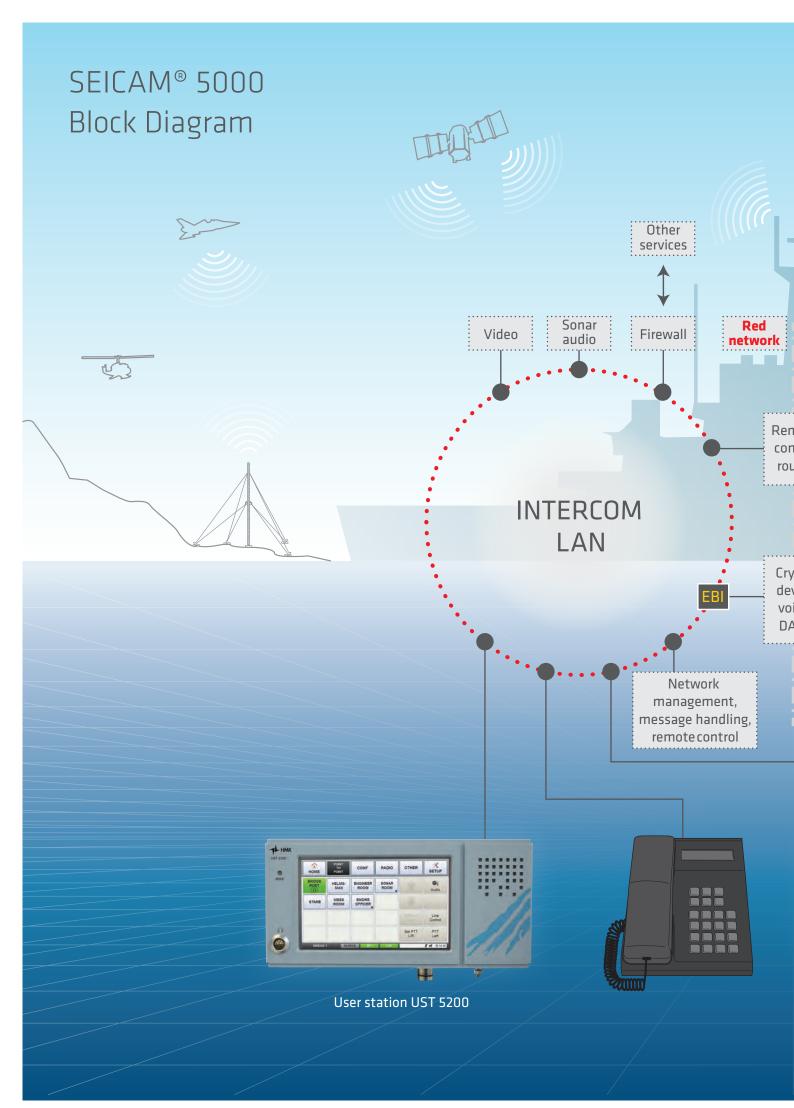
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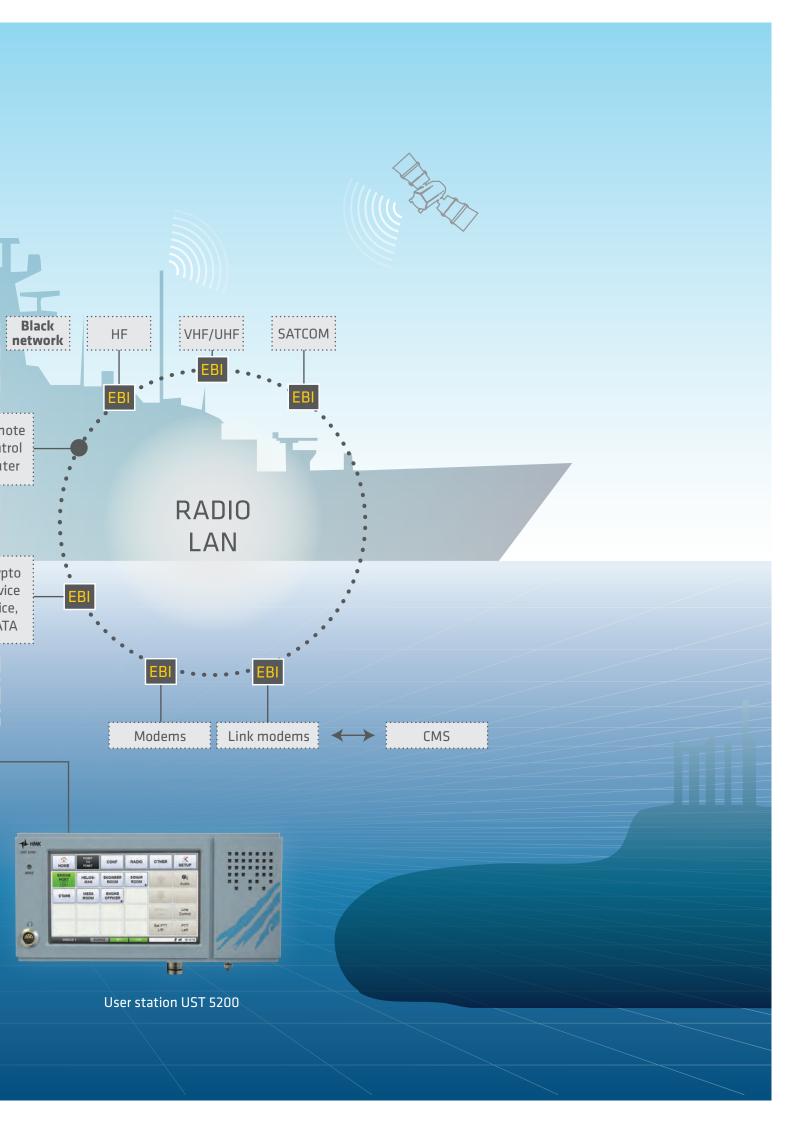
Next Generation Design

In response to customer requirements and stimulated by the progress in and the availability of broadband IP network technologies, Hagenuk Marinekommunikation presents SEICAM® 5000 – the next generation of advanced integrated communications distribution system. SEICAM® 5000 not only supports traditional services but also interfaces to other IP-based subsystems. It provides a generic decentralized broadband IP network infrastructure for external / internal communications for naval ships, supporting all kinds of concurrent digital audio and data distribution services.

Features

Intelligent and compact user station	 Touch screen operation with 6.5" colour TFT display Split mode for external / internal operation MMI with optional country specific 	Flexible and decentralised system architecture	 Radio Network for access to radio facilities Intercom LAN with interfaces to other ship subsystems Hierarchical security layers over firewall if required
	language incl. Asian and Arabic User specific desktop		 Network management system for configuration, monitoring and control
	Desktop available as application software for PCs		Utilisation of existing IP backbone systems
Reduction of cabling due to equipment-to-bus (EBI) concept	Distributed bus sockets for direct equipment access to radio network	Multi-services broadband IP infrastructure Based on standard protocols Capable of secure exchange of voice/ audio, data/multimedia and video	
	 No network interruption in case of equipment failure 		audio, data/multimedia and video
	Standard interfaces with ports for audio, data link, keying, equipment remote control, synchronous data and auxiliary functions		





Advantages for the Customer



In addition to traditional voice, audio and data distribution, SEICAM® 5000 is designed to integrate new IP-based services such as TV/video monitoring, video conferences and audio / video on demand as well as other multimedia services. The technological advantages of SEICAM® 5000 are based on its flexible IP/VoIP-capable infrastructure. Thus, the system easily can be extended to new and future IP services.

SEICAM® 5000 provides switching and transmission of all kinds of data. This includes asynchronous and synchronous data for tactical, administrative and entertainment communications, but also time-critical signals such as PTT for radio control.

Due to the intrinsic IP technologies, seamless interoperability with the ship's IP backbone net and IP environment is guaranteed. Thus, SEICAM® 5000 supports the ship's platform integration into the growing IP community which is considered a must for the scenarios emerging from various network centric warfare (NCW) / network enabled capabilities (NEC) concepts.

Using virtual private network (VPN) technology, each connected system will get dedicated data and services. Firewall technologies are applied to isolate SEICAM® 5000 IP domains or zones from unwanted data from other ship interfaces which may also be connected.

SEICAM® 5000 Technical Data

BROADBAND MULTI-SERVICES CAPABLE INFRASTRUCTURE

- VoIP-based tactical intercom (point-to-point and conferences)
- External radio communications (voice, data link, data, emission control, crypto and modem routing)
- Video conferencing
- Message handling
- Radio remote control
- Interfacing to optional subsystems such as:
 - Public address system
 - Sound powered system
 - Dialed telephone service (PABX)
 - Underwater telephone system (UT)
 - Wireless communication system for fire fighting and damage control e.g. TETRA or TETRAPOL
 - Closed circuit TV system (CCTV)
 - Voice recording system
 - Multimedia entertainment system (TV, video, audio)
 - Combat management system (CMS)
 - Standard interfaces with ports for audio, data link, keying, equipment remote control, synchronous data and auxiliary functions.

BRIEF TECHNICAL DATA

- Services: audio, TDL data, other data, video
- IT/COM-Security: physical red/black separation,
 VPN and firewall technologies
- Number of tactical user stations: more than 500
- Radio Network
 - Fast Ethernet technology with isochronous transfer
 - Radio bus data transfer rate: 100 Mbps
 - Number of equipment interfaces: up to 240 EBIs
- Intercom LAN
 - Technology: gigabit Ethernet
 - Medium: fibre optic or copper backbone
 - Multi-user audio conferencing: up to 128 participants in each conference
 - Multiple conferences: audio (standard), video optionally
- Environmental conditions
 - Shock: acc. to BV 0430
 - Vibrations: acc. to BV 0440
 - Operating temperature: -10°C to +55°C
 - Humidity: max 95% at 40°C
 - IP 56 housing for outdoor user stations
 - EMI / EMC acc. to MIL-STD-461E



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