

## VINGTOR ACM-E Supplementary applications

| Application Description  | Standard System | Advanced System | Stand Alone |
|--|-----------------|-----------------|-------------|
| Structured cabling system (CAT7) for high speed data communications.   |                 | X               |             |
| Data network (LAN) for the integration of PC, IP cameras, servers, IP telephony, IP DECT, IP-TV.   |                 | X               |             |
| External communications via Satellite, V-Sat and GSM.  | X               | X               |             |
| Billing administration for call restriction, invoicing of external calls and creation of usage reports.  | X               | X               |             |
| Music entertainment system.  | X               | X               |             |
| General PBXs functions (call transfer, call forwarding, ringing groups, etc).  | X               | X               |             |
| IP DECT telephone functions the same as any intercom station or IP telephone integrated into the system.   | X               | X               |             |
| Wireless paging system to increase the accessibility and security of the crew who frequently move around at work.  | X               | X               |             |
| CCTV, access control and security management easily integrated into the VINGTOR ACM-E system sharing the same infrastructure.  |                 | X               |             |
| System management and operation, as well as equipment (intercom, PA units, communication servers etc) supervision, performed remotely through the IP network and via AlphaPro. | X               | X               |             |
| IP-TV entertainment system.  |                 | X               | X           |
| Master clock system for distribution of both Local and UTC time on board ships, as well as distribution of time to computers and other equipment requiring the correct time.   |                 |                 | X           |

**Zenitel Marine**  
– serving the maritime  
business since 1946

### Main system functions

- Combined PA, GA, telephones and talkback units
- Advanced bridge panel for PA, telephony and talkback
- Two way communication (up to 2,000 terminals)
- Public Address and General Alarm
- Talk-Back
- Structured cabling system (CAT7)
- All above systems are type approved according to Marine Standards
- Wide range of traditional, IP and wireless communication terminals made for ship environments
- External communications (Satellite, VSAT, GSM)
- Billing administration
- Data network infrastructure (up to 1,000 data outlets)
- Master clock system
- IP TV entertainment
- IP CCTV surveillance solution
- Remote system management and supervision



IP TV  
IP CCTV  
General Alarm  
Public Address  
Data Networking  
External Communication  
IP & Wireless Communication



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VINGTOR products are developed and marketed by ZENITEL Norway AS. The company's Quality Assurance System is certified to meet the requirements in NS-EN ISO 9001:2000. ZENITEL Norway AS reserves the right to modify designs and specifications without prior notice, in pursuance of a policy of continuous improvement.

A100K 10386

## How to improve a safety system using VINGTOR IP security solutions



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whencommunicationiscritical

# A new generation of solutions

...all in one cable

“ Works most of the time is never good enough in a crisis ”

“ All critical communication services provided through only one user interface with the VINGTOR IP Bridge Panel ”

## The VINGTOR IP Communication System

Using VINGTOR ACM-E as the back-bone, Zenitel Marine offers a complete integrated system for Communication, Data, Safety and Entertainment. Based on IP technology, VINGTOR ACM-E unites and strengthens a vessel's safety system. With the VINGTOR solution, reduced cost in infrastructure, more efficient operation, improved user experience and the confidence of type approved and certified systems are achieved.

### External interface and billing solution

The VINGTOR ACM E solution is cost effective and flexible with a wide range of external interface options ranging from ISDN, analogue, IP, VSAT and GSM.

The VINGTOR Billing solution allows for easy management and administration of external telephone calls. Via an intuitive Web interface, access is given to set credit limits, restrictions, calling fees and to create invoices for external telephone calls.

### IP-TV Entertainment

Entertainment on board ships is an essential factor for the enjoyment of the people working there. With IP TV installed, ships crews will be able to watch TV 24 hours a day. This not only means added enjoyment, but also a satisfied crew.

As an additional security measure, the IP CCTV can also be integrated with the IP TV for surveillance while in the cabin.

### Integrated Public Address and General Alarm Solution

The VINGTOR Integrated PA and GA solution utilizes both VINGTOR's unique SPA technology with 100V speaker loops, as well as advanced VINGTOR ACM-E audio and communication technology.

The ACM-E solution provides combined low- and loud speaking communication terminals for wheelhouse, control rooms, cabins, outdoor deck, and the engine room. The solution is also type approved as integrated telephony, PA and GA units. Together, the solutions are extremely cost effective, especially where traditional 100V speaker loops are used together with the integrated ACM units to cover areas where PA and GA is required onboard the ship.

### Surveillance at sea with IP CCTV

By fully integrating with CCTV systems, ACM-E provides complete video and audio surveillance on every part of the ship as required. CCTV cameras at a specific point can be automatically triggered to provide both audio and video communication between caller and operator.

## 10 Reasons why you should trust Zenitel Marine:

1. World wide network
2. Know-how and experience
3. Service and maintenance
4. Wide product portfolio
5. Cutting edge solutions
6. Excellent audio quality
7. Scalability and modularity
8. Always operational
9. Backwards compatible
10. Compliance with all major marine classification societies

### Wireless IP DECT Communication

The ACM-E system supports a wide range of traditional, IP and wireless communication terminals made for the ship environment. IP DECT base stations connect directly to the ACM-E exchange over IP providing a very cost efficient solution to deploy a wireless network onboard.

The DECT telephones, IP telephones and intercom terminals have all access to the same set of ACM-E features. Users will be able to enjoy the benefits of one user experience and seamless mobility as they will always be contactable regardless where they are on the ship.

### Remote Functions

VINGTOR ACM E's advanced network monitoring and supervision function allows onshore IT personnel to get real time status information about the onboard communications system.

System status, user actions and faults are logged and information can be distributed via open IP protocols such as SNMP, Syslog, e-mail, or SMS. Onshore IT personnel can log-on to the vessels communications system to do remote service on our systems.

See more: VINGTOR ACM-E Supplementary applications