



## VINGTOR IP SECURITY SOLUTIONS

- EXTERNAL INTERFACE AND BILLING - IP-TV ENTERTAINMENT - REMOTE FUNCTIONS
- SURVEILLANCE AT SEA WITH CCTV / IP-CCTV - WIRELESS IP DECT COMMUNICATION
- INTEGRATED PUBLIC ADDRESS AND GENERAL ALARM SOLUTION

A NEW GENERATION OF SOLUTIONS

# ALL IN ONE CABLE

## THE VINGTOR IP COMMUNICATION SYSTEM

Using VINGTOR ACM-E as the backbone, 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 security system. The VINGTOR solution comes with benefits such as reduced cost in infrastructure, higher operational efficiency, improved user experience and the confidence of type approved and certified systems.



EXTERNAL INTERFACE  
AND BILLING



IP-TV ENTERTAINMENT



INTEGRATED PUBLIC ADDRESS AND  
GENERAL ALARM SOLUTION



SURVEILLANCE AT SEA  
WITH CCTV / IP-CCTV



WIRELESS IP DECT  
COMMUNICATION



REMOTE FUNCTIONS



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

#### **EXTERNAL INTERFACE AND BILLING**

The VINGTORACM-E solution is cost effective and flexible with a wide range of external interface options such as ISDN, analog, IP and GSM. The VINGTOR Billing solution allows for easy management and administration of external telephone calls. Via an intuitive Web interface, the administrator is able to set credit limits, restrictions, calling fees, and to create invoices for external telephone calls.

#### **IP-TV ENTERTAINMENT**

Entertainment on board ship is essential to the welfare of the crew. With IP-TV installed, the crew is able to watch TV or surf the net when off-duty, thus enhancing their welfare on board ships. 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 the wheelhouse, control rooms, cabins, outdoor deck, and the engine room. The solution is also type approved as integrated telephony and PA and GA units. 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 are required onboard ship.

The ACM-E also includes enhanced audio messaging functions such as delayed PA broadcast with recall functionality, broadcast of pre-stored PA messages and voice menus with auto-attendant.

#### **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.

#### **WIRELESS IP DECT COMMUNICATION**

The ACM-E system supports a wide range of analog, 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 effective solution for deploying a wireless network onboard.

The DECT telephones, IP telephones and intercom stations all have 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 of 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 vessel's communications system to carry out remote service on the onboard systems.

#### **MAIN SYSTEM FUNCTIONS**

- Combined PA, GA, telephone and talkback units
- Advanced bridge panel for PA, telephony and talkback
- Two way communication (up to 2,000 terminals)
- Structured cabling system (CAT7)
- Wide range of analog, 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

