

# COMPUTERS

The ship's computer is now almost a standard feature on larger yachts, with an increasingly important role to play.

DIGITAL MULTISYSTEM TV **CNBC**

## NAVIGATION

instant access to the latest weather reports and satellite pictures

u d e

### world wide communication

...the excuse many owners needed to get afloat

D  
ATELLITE  
A  
R

SUPERYACHT INTEGRATED NETWORK SYSTEM



electrical and electronic engineering

# IIMS TRAINING SEMINAR

**Electronic Equipment: quality equipment and installation yardsticks**

**Identifying electronic equipment on today's advanced yachts?**

## **NAVIGATION EQUIPMENT non type approved**

### **39' Bavaria (Pleasure)**

- 1 x Raymarine GPS ant/head**
- 1 x Raymarine Fluxgate Compass**
- 1 x Raymarine ST60 instruments**
- 1 x Raymarine Autopilot**
- 1 x Raymarine C-Map Plotter**
- 1 x Raymarine Radar with MARPA**

### **90+m Oceanco (Pleasure)**

- 2 x Leica MX420 D/GPS & AIS**
- 1 x C Plath gyro and repeater**
- 10 x B&G Hydra 2000 FFDs**
- 1 x C-Plath Navigat Autopilot + bridge wings**
- 1 x Transas Navisailor ECS or ECDIS with:  
Interfaces for: AIS, ARPA, radar echo, tenders**
- 1 x S Band Furuno BB radar**
- 1 x X Band Furuno BB radar**

**ADVANCED  
YACHT  
ELECTRONICS**



# IIMS TRAINING SEMINAR

Electronic Equipment: quality equipment and installation yardsticks

NAVIGATION EQUIPMENT installation yardsticks

39' Bavaria (Pleasure)



90+m Oceanco (Pleasure)



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**Electronic Equipment: quality equipment and installation yardsticks**

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## **COMMUNICATIONS EQUIPMENT non type approved**

### **39' Bavaria (Pleasure)**

**1 x Raymarine VHF/DSC**

**Unlikely to have SSB**

**No Satcom C**

**No Inmarsat mini M**

**No Inmarsat A, B, or Fleet**

**No fixed installed GSM but  
owner/guest mobiles**

**No telephone exchange**

**1 x laptop with Vodafone 3G data**

### **90+m Oceanco (Pleasure)**

**2 x Skanti VHF/DSC**

**1 x Skanti SSB/DSC 250W**

**1 x Thrane & Thrane Satcom C and printer**

**2 x Nera mini M with voice, fax and 2.4k data**

**2 x Inmarsat B and/ or Fleet 77 with voice, fax  
and ISDN and MPDS data**

**4 x Nokia Premicell/Telular SX5  
installed GSM voice, fax and 9.6k  
data**

**1 x Panasonic telephone exchange  
24 incoming lines & 64 extensions**

**1 x Sea Tel 4003/6 VSAT dome plus  
laptops with Vodafone 3G/GPRS data**

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Electronic Equipment: quality equipment and installation yardsticks

**COMMUNICATIONS EQUIPMENT** installation yardsticks

39' Bavaria (Pleasure)

90+m Oceanco (Pleasure)



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**Electronic Equipment: quality equipment and installation yardsticks**

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## **Marine – Information Technology (IT)**

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**39' Bavaria (Pleasure)**

**1 x Dell/HP laptop**

**90+m Oceanco (Pleasure)**

**2 x HP Servers - mirroring**

**LAN & WLAN - security**

**15 x Fixed PC clients throughout yacht**

**4 x wireless laptops or Pocket PCs**

**Interface IT network with:**

**NMEA talkers**

**Comms equipment and routers**

**Monitoring equipment**

**Sat TV**

**Including firewalls, virus protection  
plan and disaster recover plan**

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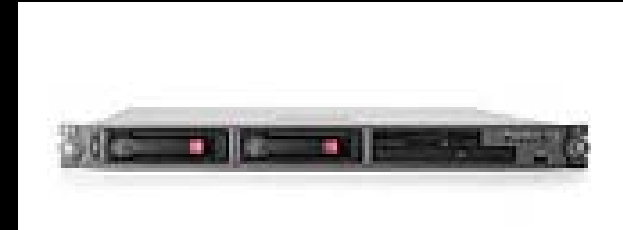
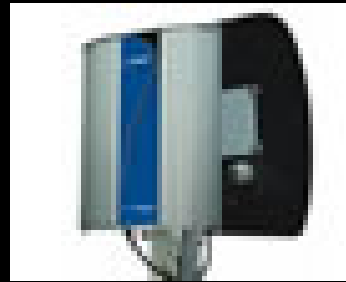
# IIMS TRAINING SEMINAR

**Electronic Equipment: quality equipment and installation yardsticks**

**Marine Information Technology installation yardsticks**

**39' Bavaria (Pleasure)**

**90+m Oceanco (Pleasure)**



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**UPS (Uninterruptable Power Supplies)**



# IIMS TRAINING SEMINAR

**Electronic Equipment: quality equipment and installation yardsticks**

**Identifying electronic equipment on today's advanced yachts?**

## ENTERTAINMENT

### 39' Bavaria (Pleasure)

- 1 x Sony Car Radio/CD
- 1 x pair Polyplanar cockpit speakers
- 1 x laptop with DVD player
- 1 x Sharp LCD/TV
- 1 x Glomex omni directional TV ant

### 90+m Oceanco (Pleasure)

- 1 x Kaleidescape DVD/CD server
- Cat5/6 distribution
- Local source, DVD & CD players
- LCD, TFT, Plasma, projector HD displays
- 2 x Sea Tel gyro stabilised sat TV antennas
- Touchscreen control, AMX, Crestron
- Sky decoders and cards plus UPS and alternate decoders
- Games room PCs, Xbox etc

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Electronic Equipment: quality equipment and installation yardsticks

**ENTERTAINMENT EQUIPMENT** installation yardsticks

39' Bavaria (Pleasure)

90+m Oceanco (Pleasure)



**UPS (Uninterruptable Power Supplies)**

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# IIMS TRAINING SEMINAR

**Electronic Equipment: quality equipment and installation yardsticks**

**Identifying electronic equipment on today's advanced yachts?**

## MONITORING

### 39' Bavaria (Pleasure)

- 1 x Volvo RPM
- 1 x Engine hours
- 1 x Fuel gauge
- 1 x Water gauge
- 1 x Battery volts
- 1 x Distribution panel & mimic

### 90+m Oceanco (Pleasure)

- 1 x Ethernet based monitoring/control system
- 15 x Data acquisition Units (DAU) 128 channels  
Located close to sensor groups. Inputs from current or voltage swing sensors
- 6 x Remote alarm & interrogation displays
- 1 x Alarm display
- 1 x Graphical software for monitoring & control  
Outputs to close valves, run pumps, switch on lights etc.  
Complete soft control.

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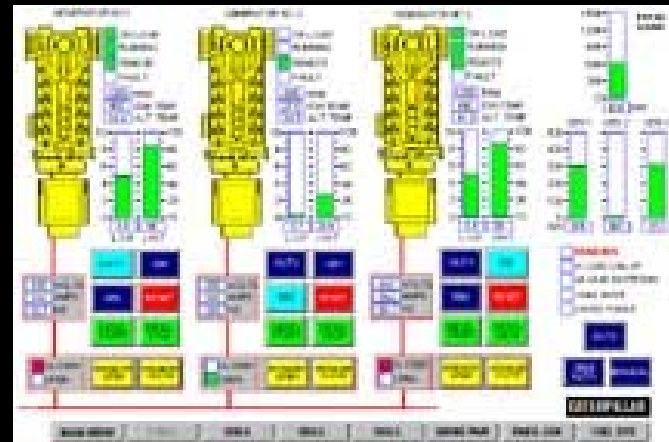
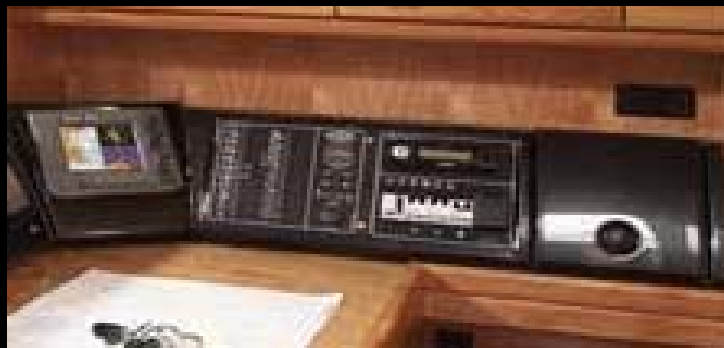
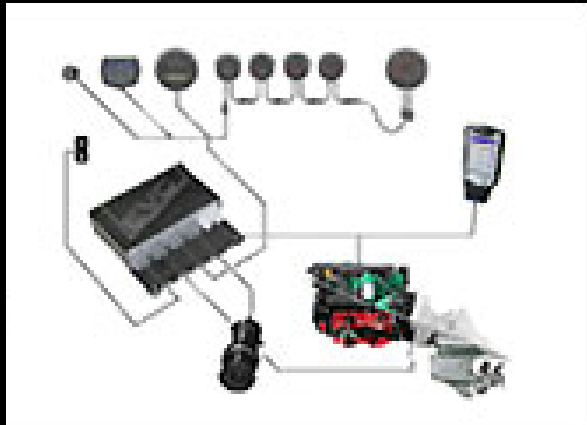
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Electronic Equipment: quality equipment and installation yardsticks

MONITORING SYSTEMS installation yardsticks

39' Bavaria (Pleasure)

90+m Oceanco (Pleasure)



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UPS (Uninterruptable Power Supplies)



# IIMS TRAINING SEMINAR

**Electronic Equipment: quality equipment and installation yardsticks**

**Identifying electronic equipment on today's advanced yachts?**

## **SAFETY & SECURITY**

### **39' Bavaria (Pleasure)**

**1 x VHF with DSC (A1) Class D**

### **90+m Oceanco (Pleasure)**

**2 x VHF/DSC (Class A) & SSB/DSC & sat C (A3)**

**2 x Radar, ARPA, AIS – anti collision CPA etc**

**1 x Automatic Identification Systems AIS**

**1 x Ship Security Alert Systems (SSAS) ISPS**

**1 x Seetrac/Transas Tender and Jet ski tracking**

**1 x Security systems – CCTV, pressure, etc**

**EPIRB/GPIRB, Mob alarm**

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# IIMS TRAINING SEMINAR

Electronic Equipment: quality equipment and installation yardsticks

**SAFETY/SECURITY installation yardsticks**

39' Bavaria (Pleasure)



90+m Oceanco (Pleasure)



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# IIMS TRAINING SEMINAR

**Electronic Equipment: quality equipment and installation yardsticks**

**THE END**

**Thank you for your attention**



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