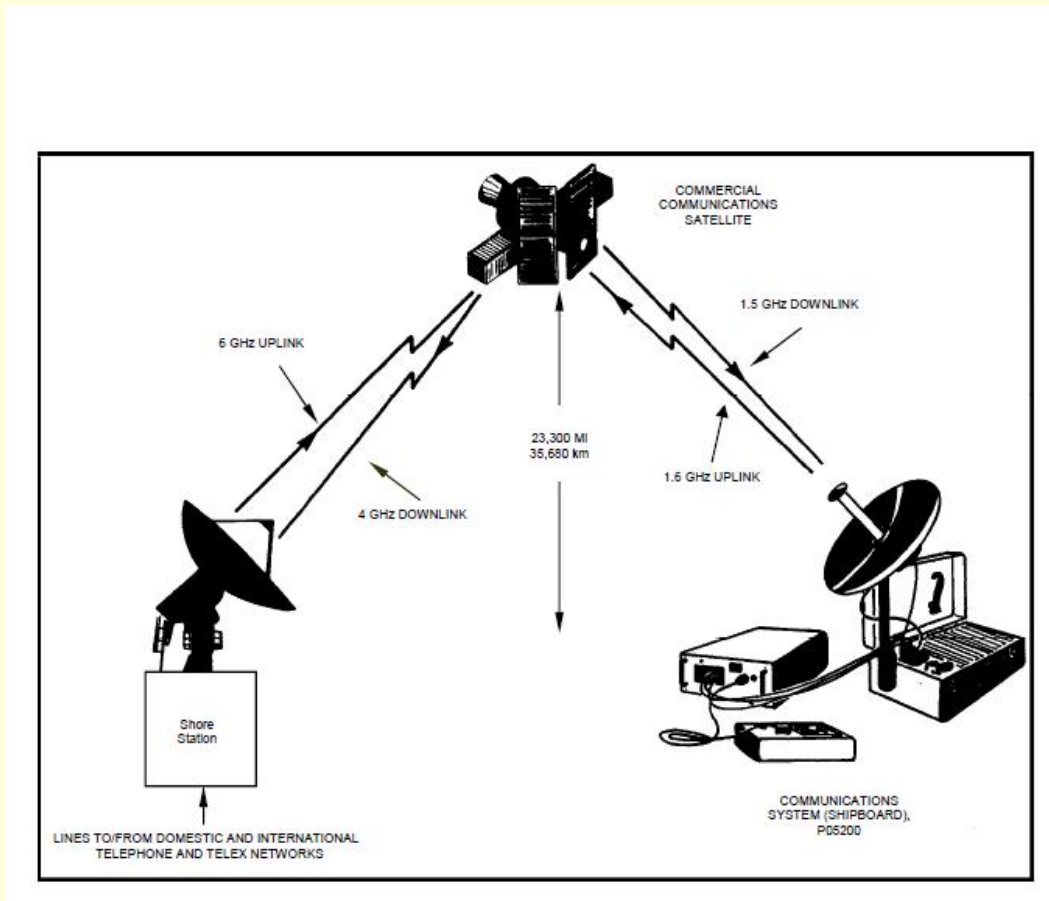


S0300-BV-CAT-020

COMMUNICATIONS SYSTEM (SHIPBOARD)

System - P05200



Communications System (Shipboard) P05200

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COMMUNICATIONS SYSTEM (SHIPBOARD)

System - P05200

The Shipboard Communications System P05200 is a shipboard container (VA0901) housing a PH1820 high-quality terminal used for voice or data communications. The system uses either a geostationary International Maritime Satellite Organization (INMARSAT) satellite as a repeater or the Broadband Global Area Network (BGAN) to one or more shore stations. The shore stations connect the shipboard communications system into the domestic and international telephone and Telex circuits. This operation makes a worldwide communications network via satellite available to vessels at sea.

The containerized system once set up, provides an environmentally friendly workspace and communications room. The container provides shelter from the elements and is air conditioned and heated.

System Components for P05200

Alternates

| ESSM No | Nomenclature | Type | Qty | NS | Cont |
|---------------|---|----------|-----|----|------|
| PH1820 | PHONE, INTERNET SATELLITE, WORLDWIDE | BL | 1 | | |
| PH1821 | ANCILLARY SET, FOR PH1820 PHONE | BL | 1 | | |
| VA0901 | VAN, SHIPBOARD COMMUNICATIONS SYSTEM, 8' X 10 | BL OPTL | 1 | | Y |
| RA1831A | RADIO, VHF, MARINE MOBILE, MULTI-CHANNEL | Contents | 1 | | |
| RA1830 | RADIO, VHF, MARINE MOBILE, VOYAGER (76-CHAN | ALTN | | | |
| RA1830A | RADIO, VHF, MARINE MOBILE, VOYAGER (76-CHAN | ALTN | | | |

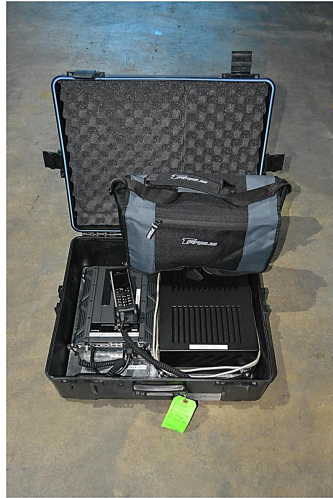
Baseline verified on 5/3/2018, * Not shown in catalog.

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COMMUNICATIONS SYSTEM (SHIPBOARD)

System - P05200

ESSM - PH1820 PHONE, INTERNET SATELLITE, WORLDWIDE



Worldwide Satellite Internet Phone PH1820

The Worldwide Satellite Internet Phone PH1820 is a packaged satellite voice and data communication system ready for quick dispatch during remote operations and operations at sea. The system is shipped with the Ancillary Set for PH1820 PH1821 which contains the antenna mount, antenna, and all necessary cables.

The system contains the commercial Thrane and Thrane Sailor 150 FleetBroadband terminal that provides simultaneous high-speed data and voice communication via satellite through the BGAN (Broadband Global Area Network).

Applications include:

- Internet browsing
- E-mail
- Phone services

Specifications

| Type | Description | Qty |
|--------------------------|---------------------------|-----|
| Manufacture | Thrane & Thrane | |
| Model | TT3607A | |
| Transmit frequency range | 1626.5 MHz to 1660.5 MHz | |
| Receive frequency range | 1525.0 MHz to 1559.0 MHz | |
| Ambient temperature | -25°C to +55°C operating; | |

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COMMUNICATIONS SYSTEM (SHIPBOARD)

System - P05200

Specifications

| Type | Description | Qty |
|-------------------|--|-----|
| | -40°C to +80°C storage | |
| Relative humidity | 95% non-condensing at +40°C | |
| Power | 10.5 - 32.0 V dc floating, $\pm 0.3\%$, | |

Physical Characteristics

| Type | Descriptions | | |
|------------|--------------------|--|--|
| | Shipping | | |
| Length | 1 ft, 8 in | | |
| Width | 2 ft, 1 in | | |
| Height | 0 ft, 9 in | | |
| Cube | 3 cu ft | | |
| Footprint | 4 sq ft | | |
| Weight | 40 lb | | |

References

| Ref No | Reference |
|--------|--------------------------------|
| 1 | MANUAL, TT-3607A |
| 2 | MANUAL, USER'S, SAILOR 500/250 |

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COMMUNICATIONS SYSTEM (SHIPBOARD)

System - P05200

ESSM - PH1821 ANCILLARY SET, FOR PH1820 PHONE



Ancillary Set for PH1820 PH1821

The Ancillary Set for PH1820 PH1821 which contains the antenna mount, antenna, and all necessary cables.

Specifications

| Type | Description | Qty |
|--------------|---------------|-----|
| Manufacturer | ESSM Facility | |
| Model | PH1821 | |

Physical Characteristics

| Type | Descriptions | | |
|------------|--------------------|--|--|
| | Shipping | | |
| Length | 2 ft, 6 in | | |
| Width | 2 ft, 7 in | | |
| Height | 2 ft, 7 in | | |
| Cube | 17 cu ft | | |
| Footprint | 7 sq ft | | |
| Weight | 100 lb | | |

References

| Ref No | Reference |
|--------|-----------|
| 1 | None |

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COMMUNICATIONS SYSTEM (SHIPBOARD)

System - P05200

ESSM - VA0901 VAN, SHIPBOARD COMMUNICATIONS SYSTEM, 8' X 10'



Shipboard Communications System, Van VA0901



Shipboard Communications System, Van VA0901 Interior

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COMMUNICATIONS SYSTEM (SHIPBOARD)

System - P05200

The Shipboard Communications System Van VA0901 is a shipboard container housing a PH1820 high-quality terminal used for voice or data communications. The system uses either a geostationary International Maritime Satellite Organization (INMARSAT) satellite as a repeater or the Broadband Global Area Network (BGAN) to one or more shore stations. The shore stations connect the shipboard communications system into the domestic and international telephone and Telex circuits. This operation makes a worldwide communications network via satellite available to vessels at sea.

The containerized systems once set up, provide an environmentally friendly workspace and communications room. The container provides shelter from the elements and is air conditioned and heated.

TS 041014 PRELIMINARY

Specifications

| Type | Description | Qty |
|--------------|---------------|-----|
| Manufacturer | ESSM Facility | |
| Model | VA0901 | |

Physical Characteristics

| Type | Descriptions | | |
|-------------|--------------------|-------------|--|
| | Shipping | Operating | |
| Length | 10 ft, 0 in | 10 ft, 0 in | |
| Width | 8 ft, 0 in | 8 ft, 0 in | |
| Height | 8 ft, 0 in | 8 ft, 0 in | |
| Cube | 640 cu ft | 640 cu ft | |
| Footprint | 80 sq ft | 80 sq ft | |
| Weight (lb) | 6880 lb | 6880 | |

References

| Ref No | Reference |
|--------|-----------|
| 1 | None |

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COMMUNICATIONS SYSTEM (SHIPBOARD)

System - P05200

ESSM - RA1831A RADIO, VHF, MARINE MOBILE, MULTI-CHANNEL



VHF Marine Mobile Radio RA1831A

The Icom VHF Marine Mobile Radio RA1831A is a marine VHF/FM transceiver with intercom features and a public address system in a moisture-resistant console. The radio requires a supply voltage of 13.8-volt dc negative ground and operates in the frequency range of 156-163 MHz. The radio has 58 programmed marine transmit/receiver channels and 10 weather channels.

The radio has the following advanced features: voltage source deviation indicator; 25W of high transmission output power; dual watch and a variety of scans; 20 user-programmed memory channels; momentary high power on Channels 13 and 67; single-tone, double high-tone, and double low-tone beeps; high sensitivity and strong intermodulation rejection; and a built-in lithium battery to retain the information programmed into the memory channels. The life of the lithium battery is approximately 5 years. The Icom radio models IC-M56, IC-M58, and IC-M402S are currently in use in the ESSMIS system with appropriate instruction manuals. All models are functionally equivalent.

Specifications

| Type | Description | Qty |
|--------------------------|------------------------------|-----|
| Manufacturer | Icom | |
| Model(s) | IC-M412 | |
| Usable temperature range | -20° to +60°C (-4 to +140°F) | |
| Power supply voltage | 13.8 V dc negative ground | |
| Channels: | | |
| Transmit | 58 | |

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COMMUNICATIONS SYSTEM (SHIPBOARD)

System - P05200

Specifications

| Type | Description | Qty |
|------------------------|-----------------------------|-----|
| Weather | 10 | |
| Receiver: | | |
| Frequency range | 156 to 163 MHz | |
| Sensitivity | .3 micro V for 12 dB SINAD | |
| Audio output power | 4W with a 4-ohm load | |
| Intermediate frequency | 1st: 21.8 MHz; 2nd: 455 kHz | |
| Transmitter: | | |
| Frequency range | 156 to 157.5 MHz | |
| Output power | 25 W high; 1 W low | |

Physical Characteristics

| Type | Descriptions | | |
|------------|--------------------|------------|--|
| | Shipping | Operating | |
| Length | 0 ft, 8 in | 0 ft, 8 in | |
| Width | 0 ft, 7 in | 0 ft, 7 in | |
| Height | 0 ft, 2 in | 0 ft, 2 in | |
| Cube | 1 cu ft | 1 cu ft | |
| Footprint | 1 sq ft | 1 sq ft | |
| Weight | 3 lbs | 3 lbs | |

References

| Ref No | Reference |
|--------|----------------------------------|
| 1 | Instruction Manual, Icom IC-M412 |

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COMMUNICATIONS SYSTEM (SHIPBOARD)

System - P05200

ESSM - RA1830 RADIO, VHF, MARINE MOBILE, VOYAGER (76-CHANNEL)



76-Channel Voyager Marine Mobile VHF Radio RA1830

The 76-Channel Voyager Marine Mobile VHF Radio RA1830 is a marine VHF/FM transceiver with public address system and intercom features in a single moisture-resistant console. The Horizon Voyager requires 13.8 V dc for operation, can develop a switchable RF output power of 1 watt or 25 watts, and operates in the frequency range of 156.050 to 163.275 MHz.

The Horizon Voyager has a capacity of 76 channels: 55 programmed marine transmit/receive channels, 6 weather channels, and 15 transmit/receive expansion channels. The 55 marine channels are switchable for use with USA, international, or Canadian regulations. Should the FCC increase the number of marine channels, the Voyager may be programmed by qualified dealers for 15 new transmit and receive frequencies. The one-touch Channel 16 access allows immediate selection of emergency Channel 16.

Specifications

| Type | Description | Qty |
|-----------------------|--|-----|
| Manufacturer | Standard | |
| Model | Horizon Voyager GX2200S | |
| Channels | 76 total: 55 marine, 6 weather, and 15 expansion | |
| Input voltage | 13.8 V dc \pm 20% | |
| Frequency range | 156.050 to 163.275 MHz | |
| Transmitter RF output | 25 W high, 1 W low | |

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COMMUNICATIONS SYSTEM (SHIPBOARD)

System - P05200

Physical Characteristics

| Type | Descriptions | | |
|------------|--------------------|------------|--|
| | Shipping | Operating | |
| Length | 0 ft, 9 in | 0 ft, 9 in | |
| Width | 0 ft, 8 in | 0 ft, 8 in | |
| Height | 0 ft, 2 in | 0 ft, 2 in | |
| Cube | 1 cu ft | 1 cu ft | |
| Footprint | 1 sq ft | 1 sq ft | |
| Weight | 5 lbs | 5 lbs | |

References

| Ref No | Reference |
|--------|--|
| 1 | Horizon Voyager GX2200S Owner's Manual |

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COMMUNICATIONS SYSTEM (SHIPBOARD)

System - P05200

ESSM - RA1830A RADIO, VHF, MARINE MOBILE, VOYAGER (76-CHANNEL)



76-Channel Voyager Marine Mobile VHF Radio RA1830A

The 76-Channel Voyager Marine Mobile VHF Radio RA1830 is a marine VHF/FM transceiver with public address system and intercom features in a single moisture-resistant console. The Horizon Voyager requires 13.8 V dc for operation, can develop a switchable RF output power of 1 watt or 25 watts, and operates in the frequency range of 156.050 to 163.275 MHz.

The Horizon Voyager has a capacity of 76 channels: 55 programmed marine transmit/receive channels, 6 weather channels, and 15 transmit/receive expansion channels. The 55 marine channels are switchable for use with USA, international, or Canadian regulations. Should the FCC increase the number of marine channels, the Voyager may be programmed by qualified dealers for 15 new transmit and receive frequencies. The one-touch Channel 16 access allows immediate selection of emergency Channel 16.

| Specifications | | |
|-----------------------|--|-----|
| Type | Description | Qty |
| Manufacturer | Standard | |
| Model | Horizon Voyager GX2200S | |
| Channels | 76 total: 55 marine, 6 weather, and 15 expansion | |
| Input voltage | 13.8 V dc \pm 20% | |
| Frequency range | 156.050 to 163.275 MHz | |
| Transmitter RF output | 25 W high, 1 W low | |

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COMMUNICATIONS SYSTEM (SHIPBOARD)

System - P05200

Physical Characteristics

| Type | Descriptions | | |
|------------|--------------------|-------------|--|
| | Shipping | Operating | |
| Length | 1 ft, 8 in | 1 ft, 8 in | |
| Width | 0 ft, 10 in | 0 ft, 10 in | |
| Height | 0 ft, 9 in | 0 ft, 9 in | |
| Cube | 2 cu ft | 2 cu ft | |
| Footprint | 2 sq ft | 2 sq ft | |
| Weight | 20 lb | 20 lbs | |

References

| Ref No | Reference |
|--------|--|
| 1 | Horizon Voyager GX2200S Owner's Manual |