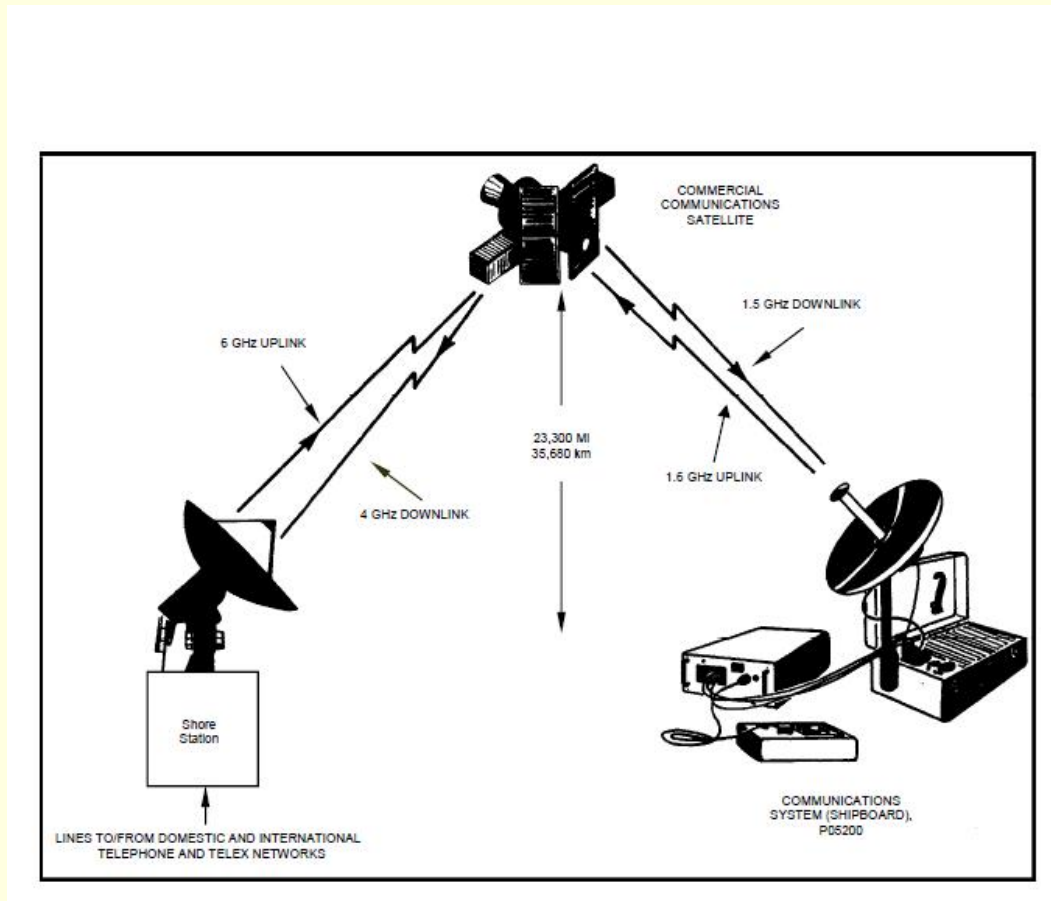


# S0300-BV-CAT-020

COMMUNICATIONS SYSTEM (SHIPBOARD)

System - P05200



## Communications System (Shipboard) P05200

# S0300-BV-CAT-020

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

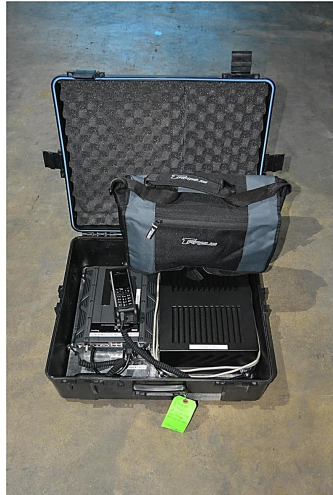
Baseline verified on 5/3/2018, \* Not shown in catalog.

# S0300-BV-CAT-020

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;	

# S0300-BV-CAT-020

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

# S0300-BV-CAT-020

## 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	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	
<b>Receiver:</b>		
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	
<b>Transmitter:</b>		
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 lb	3 lb	

## References

Ref No	Reference
1	Instruction Manual, Icom IC-M412

# S0300-BV-CAT-020

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

# S0300-BV-CAT-020

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	

# S0300-BV-CAT-020

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