



STANDARD HORIZON **GX2355S SPECTRUM+** VHF Marine Transceiver

- Dual Station Capability (Optional RAM Mic)**
- Integrated 20-Watt Hailer/P.A. with Fog Signals**
- Digital Selective Calling (RTCM SC-101)**
- MariTEL DSC Telephone**
- Noise Canceling Clear Voice Technology**
- Huge Backlit Keys and Display that Indicates Date/Time, Vessel Position, SOG and COG**
- Channel Name Capability**
- NOAA Weather Alert**



Optional RAM Mic
Available in white



Available in White

GX2355S SPECTRUM+ 25 Watt VHF FM Marine Transceiver



Nothing takes to water like Horizon!

STANDARD HORIZON

SPECTRUM+, The Most Technologically Adv

You've never seen a marine VHF like this! The STANDARD HORIZON SPECTRUM+ introduces a whole new level of innovative Features, Safety and Flexibility.



EVERYTHING YOU EXPECT IN A STANDARD HORIZON VHF AND MORE

Producing the full legal limit of 25 watts the SPECTRUM+ has all available U.S., Canadian and International marine Channels plus 10 dedicated weather channels. Each channel group is separated to avoid the possibility of inadvertent channel selection.

For mariners that require secure communications, the the SPECTRUM+ can be fitted with an optional voice scrambler.

SPECTRUM+ has multiple scanning capabilities that are simple to program via its dedicated MEM key. You can scan any number or combination of channels with or without a priority channel of choice. In addition to conventional scanning the SPECTRUM+ can scan the active weather channel for NOAA weather alerts, informing the user of impending foul weather conditions. Finally, SPECTRUM+ displays all of its functions including channel names, on an enormous backlit LCD that can be adjusted to customize viewing to your specific installation.

DUAL STATION CAPABILITY WITH OPTIONAL RAM MIC

The SPECTRUM+ has the capability of being connected to a submersible full-featured Remote Access Microphone (RAM Mic). This advanced remote operates as a full second station to the SPECTRUM+ at the flybridge, cockpit, tower or location of your choice. The RAM incorporates a remarkably large LCD with a speaker microphone that allows the user to remotely access all of the VHF functions of the SPECTRUM+. A 23-foot routing cable (extendable to 43-feet with optional CAW-23 10-foot extension

cable) and waterproof bulkhead mounting connector insure a clean professional-looking installation. RAM's coiled cable connector attaches at the bulkhead mounting plate, allowing quick removal for easy, secure stowage.



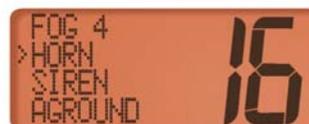
The RAM Mic and SPECTRUM+ also have intercom capabilities giving you two-way communications between the radio and the remote.



RAM Mic also available in black

INTEGRATED 20-WATT HAILER/P.A. WITH PREPROGRAMMED FOG SIGNALS

Foul weather can lead to unsafe boating conditions. The SPECTRUM+ features a built in 20-watt Loud Hailer/P.A. with 4-selectable, preprogrammed foghorn signals. In addition to broadcasting the appropriate fog signal for your vessel, the listen back feature receives and amplifies a return horn, further reducing the possibility of a collision. The hailer software in the SPECTRUM+ also includes a horn, siren, aground, yelp signals and bells.



Advanced, Feature Rich VHF Available Today!



ACTUAL SIZE Also available in white.

DSC (DIGITAL SELECTIVE CALLING) CAPABILITIES

The most important reason to have a VHF radio on board your vessel is safety. The U.S. Coast Guard will soon have national coverage for DSC reception. The SPECTRUM+ features the official U.S. Coast Guard recognized version of this technology. In an emergency the SPECTRUM+ is capable of sending an automated, unattended, continuous, digital **MAYDAY** message that includes current vessel position, time/date and a FCC assigned vessel identification. By design, the DSC **MAYDAY** will be digitally received by the Coast Guard, all commercial vessels and any other vessel equipped with a DSC radio. This digital safety feature insures prompt assistance eliminating critical mistakes in **MAYDAY** transmissions that occur when operators are under stress. To increase your sense of security the SPECTRUM+ also receives digital acknowledgments alerting the radio operator that the vessels distress call has been received. Of course the DISTRESS key is properly protected with a SPRING loaded cover to reduce the possibility of an unintentional activation.



DSC capabilities are not limited to emergencies. The SPECTRUM+ makes it simple for you to exchange position data with a fellow cruiser or fisherman with its **POSITION REQUEST** or **POSITION SEND** functions. Should you ever need to notify all of the vessels of a commercial fleet or towing service the **GROUP CALL** feature makes it simple.

MarITEL DSC TELEPHONE

Working with MarTEL "The Marine Telephone Company" we have included the DSC telephone function that allows you to send and receive telephone calls up to 50 miles from shore. MarITEL offers free calls to towing companies and other benefits when you subscribe to the service.

GPS REPEATABILITY

When connected to your GPS position receiver the SPECTRUM+ will display time, date, Latitude/Longitude, Speed Over Ground (SOG), and Course Over Ground (COG). Of course the time clock features an offset to compensate for local versus UTC. GPS repeatability insures the accurate and safe transmission of your location in an emergency or when you are attempting to meet a fellow cruiser.

CLEAR VOICE™ NOISE CANCELING TECHNOLOGY

SPECTRUM+ features a uniquely designed waterproof microphone. Clear Voice, a STANDARD HORIZON innovation, provides the clearest possible transmission, by significantly reducing wind and engine background noise. In addition to its unique noise canceling capabilities, the SPECTRUM+'s microphone features a speaker, up/down and 16/9-channel selection.



SUBMERSIBLE CONSTRUCTION

The SPECTRUM+ is designed to be totally submersible, not because you want to sink it, but because the environment requires it. STANDARD HORIZON designs and builds marine VHF radios to withstand the unkind demands you and Mother Nature will subject it to. That means SPECTRUM+ is able to survive the brutal attack of driving rain, salt fog or frequent dousings. Innovative design engineering insures the SPECTRUM+ is properly protected for years of use in a salt-water environment, instilling confidence that your radio will operate when you need it most.

The SPECTRUM+ has been constructed to the highest standards in the industry. In fact, STANDARD HORIZON has won more awards for VHF Design and Engineering excellence from the prestigious National Marine Electronics Association than any other VHF manufacturer.

SUPERIOR TECHNOLOGY MEANS SIMPLE OPERATION

With all of its technological advances, you might expect the SPECTRUM+ to be complicated to operate. Not TRUE! STANDARD HORIZON developed a simple menu system that allows the operator to initiate most operations with a single key depression.

Ergonomically designed the SPECTRUM+'s keypad is carefully conceived. Dedicated backlit, function-specific keys make access to functions and features simple and straight forward. A dedicated key for channels 16/9, NOAA weather and two user-selected presets means operation of the most used channels is always a single key depression away. SPECTRUM+'s large rubber armored rotary channel selector, volume and squelch knobs are easy to grip with wet or gloved hands.

CUSTOMIZE YOUR INSTALLATION WITH MATCHED ACCESSORIES

A full range of accessories compliments SPECTRUM+. These accessories allow you to customize SPECTRUM+ to meet your individual requirements. Flush mount brackets make custom looking installations a breeze. In noisy environments auxiliary speakers increase the audio output dramatically. The optional voice scrambler encrypts communications for privacy. Space saving round or commercial sized bullhorn speakers are properly matched to the SPECTRUM+ to insure the greatest amount of audio when using the radios Hailing/P.A./Fog signals.

BUILT BETTER, SO IT'S BACKED BETTER

The SPECTRUM+ is covered by STANDARD HORIZON's exclusive 3-year Waterproof Warranty. If your STANDARD HORIZON radio fails for any reason, including water damage, during normal use in the first 3 years, STANDARD HORIZON will repair it without hassle or charges-period. If it fails thereafter in normal use for as long as you own it, our unique Lifetime Flat Rate Service Program will cover it. Flat rate is established at time of original purchase based upon the factory's current rate. Consult STANDARD HORIZON or your dealer for details.

SPECTRUM+ OPTIONS



CMP23
Full remote microphone

Available in black



CMB16
Flush mount kit

CAW23
10-foot extension cable
CVS2500
4 code voice scrambler
220SW
Small PA horn
240SW
Large PA horn



101S
Mini audio extension speaker in black or white.

201S
Audio extension speaker in black or white.

201SZ
Flush mount audio extension speaker in black or white.



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STANDARD HORIZON

SPECIFICATIONS

General	
Frequency Range	156.025-157.425 MHz
No. of Channels	All USA/Canada/Int'l
Input Voltage	13.8 VDC ± 20%
Dimensions	3.12" H x 6.87" W x 7.25" D 79(H) x 174 (W) x 184 (D) mm
Flush-Mount Dimensions	2" H x 5.62" W x 5.25" D 50 (H) x 142 (W) x 133 (D) mm
Weight	2.73 lbs (1.24 kg)
Current Drain:	
Standby	0.5A
Receive	1.5A
Transmit	6 A @ High, 1.7 A @ Low
FCC Type Number	K66GX2350S
Industry Canada Type Approval	511822205AV
Transmitter	
Frequency Range	156.025 to 157.425 MHz
RF Power Output	25 Watts (high) ; 1 Watts (low)
Spurious Emissions	-80 dB (high); -60 dB (low)
FM Hum and Noise Level	-50 dB
Modulation	16K0F3E 16K0G3E for DSC
Frequency Stability (-20° C to +50° C)	±0.0005 %
Public Address Power Output	20 Watts
Impedance	4Ω
Receiver	
Frequency Range	156.060 to 163.275 MHz
Sensitivity	-76 dB
20 dB Quieting	0.3 μV
12 dB SINAD	0.25 μV
Selectivity	
Spurious & Image Rejection	-73 dB
Intermodulation & Rejection	-73 dB
Squelch Sensitivity	0.13 μV
Audio Output	4 Watts
Channel Spacing	25 kHz
Modulation Acceptance Bandwidth	± 7.5 kHz

Standard Horizon reserves the right to make changes and enhancements to products at our discretion. Current specifications are therefore subject to change without notice.

A FAMILY OF FINE STANDARD HORIZON PRODUCTS

STANDARD HORIZON is a leading manufacturer of technologically advanced feature rich Marine Electronics. Our broad line-up includes various models of VHF, Marine Stereo, Digital Instruments, GPS Chart Plotters. The STANDARD HORIZON web site at www.standardhorizon.com for more details!

A FAMILY OF COSMETICALLY MATCHED CHOICES

The GX2355S is one member of the family of marine electronics from STANDARD HORIZON that includes:

DIGITAL INSTRUMENTS

GPS CHART PLOTTERS

