

Surecom Series II Marine Intercom Systems



SPECIFICATIONS

Surecom Master Unit

Maximum number of Master Keypads 3
Maximum number of slave stations 20
Overhead Speaker nominal output impedance 8 ohms
Overhead Speaker minimum impedance 4 ohms
Overhead Speaker output power into 8 ohms 2.25 watt
Overhead Speaker output power into 4 ohms 4.5 watt
Microphone Input impedance 600 ohms
Nominal supply voltage 24 VDC
Minimum supply voltage 20 VDC
Maximum supply voltage 30 VDC

Supply Currents (Quiescent)

Master unit with digital control card fitted Keypads 25mA
Audio Cards 20mA each (max. 3)
Line Cards 110mA each (max. 3)
Emergency P.A. Cards 20mA each (max. 5)
130mA

Supply Currents (maximum)

Master Unit 25mA
Keypads 90mA each
Audio cards 700mA each
Line cards 100mA each
Emergency P.A. Card 2.8A
Master Unit Dimensions 460H x 430W x 160D
Master unit enclosure with Mother Board and control cards fitted 4.9kg
Audio card 230g each
Line cards 190g each
Emergency P.A. Card 300g each
Housing material Aluminium

Surecom Master Keypad

Front panel dimensions 243H x 153W
Backing box dimensions 208H x 112W x 35D
Cutout size 210H x 112W
Weight 500g

Surecom Weatherproof Horn Station

IP Rating IP66
Supply current (quiescent) 40mA
Supply current (maximum) 250mA
Output impedance 8 ohms
Output power 1.2 watts
Construction Plastic with powder coated stainless steel front
Dimensions (not including glands or speaker) 198H x 101W x 64D
Weight (including speaker) 1.6kg

Surecom Loud Speaking Station

Supply current (quiescent) 40mA
Supply current (maximum) 250mA
Construction Zinc Passivated and powder coated mild steel with powder coated aluminium fascia mesh 110H x 192W x 45D
930g

Dimensions 250mA
Weight 21dB
700mm
3.5m
Plastic with Poly carbonate membrane switch fascia 198H x 101W x 125D
1.2kg

Surecom Headset Station

Supply current (quiescent) 25mA
Supply current (maximum) 420mA
Headset noise Attenuation factor 21dB
Length of curly cord (retracted) 700mm
Length of curly cord (stretched) 3.5m
Construction Plastic with Poly carbonate membrane switch fascia 198H x 101W x 125D
1.2kg

Dimensions (not including headset) 250mA
Weight (including headset) 420mA
21dB
700mm
3.5m
Plastic with Poly carbonate membrane switch fascia 198H x 101W x 125D
1.2kg

Surecom Handset Station

Supply current (quiescent) 25mA
Supply current (maximum) 50mA
Construction Plastic
Dimensions 210H x 80W x 52D
400g

Surecom Emergency Public Address System

Output impedance 4 ohms or 8 ohms
Output power into 8 ohms 4 watt
Output power into 4 ohms 8 watt
Maximum Recorded Message length 20 Seconds
Front Panel construction Powder coated Aluminium
Front Panel Dimensions 120H x 180W
Weight (including microphone) 480g
Weight (including microphone) 100H x 140W
Cutout Size 100H x 140W

Specifications subject to change without notice

Since 1978 Sontec WA Pty Ltd has been involved in the development of effective communications solutions, including public address systems, closed circuit television and intercommunication systems for the growing Fast Ferry Industry.

Sontec manufacture state of the art systems that are used throughout the world including the U.S.A., Europe, South America and the Asia Pacific region.

In 1988 Sontec designed and developed the 'Surecom' Marine Intercom System as a result of the need for a simple to use, easy to install marine intercom system for High Speed Craft, Fast Ferries, Work Boats and Tender Vessels.

The new *Surecom Series II* is the latest version of this advanced communication system designed and built specifically to meet the IMO standards for Fast Ferries and is one of the most cost effective marine intercom systems available on the market today.



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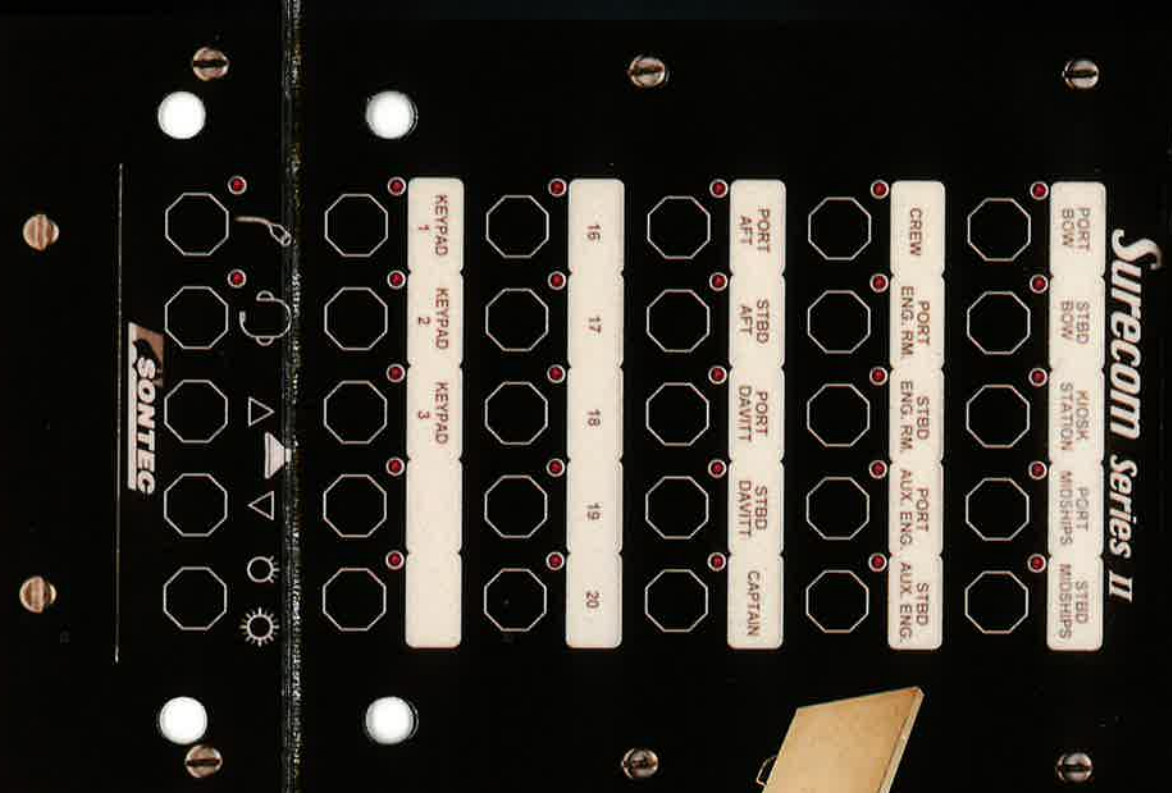
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Introducing the new -

Surecom Series II

The *Surecom Series II* is a rugged and durable internal intercom system for High Speed Craft, Fast Ferries, Work Boats and Tender Vessels, and is designed and built to IMO standards for Fast Ferries. It is an improved and upgraded version of the original Surecom design which has proved to be a popular and dependable intercom over the last 10 years.

Much has been learned from users of the original Surecom from all over the world and this knowledge has ensured that the new version - *Surecom Series II*, better meets the needs of the marine industry.



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SYSTEM FEATURES

- Up to 3 Master Keypads per system.
 - Each Master Keypad can use headsets and/or microphone with overhead speaker.
 - Duplex operation from the Master Keypad to headset and handset station.
 - System expandable with any combination of up to 20 slave stations.
 - Easy service of Master Equipment utilising plug in style PCB cards.
 - Ease of installation due to identical wiring to all slave stations.
 - All slave station inputs fully protected so that any faulty slave station or damaged cable will not stop the rest of the system from working.
 - Optional Integral Emergency PA System complete with:
 - Two digital recorded messages.
- Bridge control panel with fist microphone.
 - Four separate 10 watt 4 ohm amplifiers.
 - 9. Partyline system which allows headset stations to contact and communicate with other headset stations on a party line without having to go through the Master Keypad on the Bridge.
 - 10. Finger touch level adjustment for all volume controls and panel indicator lamp dimmer.
 - 11. "Monitor": feature allows masters to listen in on other master/slave communication.
 - 12. Line output feature for data logging.
 - 13. Line output to vessels PA system.
 - 14. All external remote stations built to IP66 rating with Lexan touch controls.
 - 15. IP66 Rated membrane front panel on Master Keypad.
- a.) Master Keypad -**
located on the Bridge, this allows the operator to select, call or receive calls from slave stations around the vessel. The system can use up to three Master Keypads. The Master Keypads can be operated with headsets or a gooseneck microphone and ceiling speaker.
- Slave Stations of various types can be located around the vessel. All are capable of calling or receiving calls direct from the Master Keypad on the Bridge.
- b.) Master Unit -**
The onodised aluminium enclosure contains the audio amplifiers and switching control circuits, and is usually mounted on the Bridge under the dash.
- c.) Headset Station -**
This type of station utilises a noise cancelling, noise reduction headset well suited for noisy environments, such as the engine room. A siren and flashing light are supplied standard with the headset station.
- d.) Handset Station -**
Similar to a telephone handset, is used in public areas where more discreet communication is required, such as in a kiosk, a cabin or crew area.
- e.) Weatherproof Horn Station -**
This is used on the outside of the vessel and as such has been designed to stand up to harsh conditions.
- f.) Loud Talking Station -**
This is the standard station for internal use and offers hands free communications.
- g.) Emergency Public Address System -**
The Surecom Emergency Public Address system is an optional addition to the Surecom Series II Intercom System. It can initiate the sounding of the general alarm tones and can play back a recorded voice message through dedicated speakers throughout the vessel. Direct public address announcements may also be made using the hand held microphone. The control panel is usually mounted on the bridge and consists of a fist microphone, message button and emergency button with flip cover.