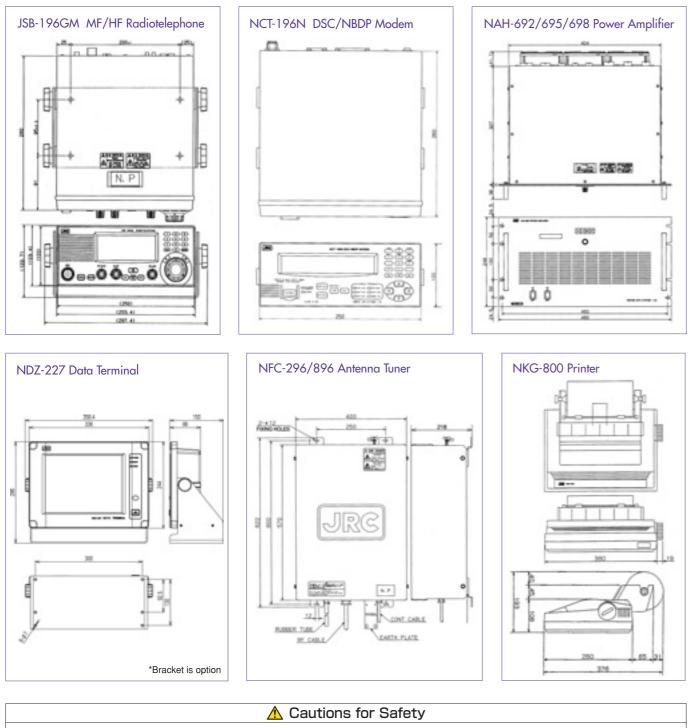
DIMENSIONS & WEIGHT (MASS)



Read the Instruction Manual before your use for safety in operation.

Do not install this equipment in a place with water, wetness, vapor, dust and oily smoke. Otherwise, a fire, electric shock or failure may result. •For the installation work for this equipment, request to JRC agents or dealers. The installation work done by any non-specialist personnel may result in an electric shock or failure.

For further information, contact:



ISO9001, ISO14001 Certified CAT.No.Y7-65 (No.216-7-3) A Printed in Japan

JRC 250W / 500W / 800W **RADIO EQUIPMENT JSS-296/596/896**



- Built-in Battery charger
- Self Diagnostic Function

- Easy operation with JOG dial

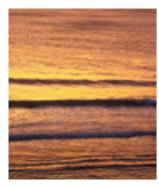
JRC Japan Radio Co., Ltd.

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• Fully Complies with GMDSS Requirements • Built-in Dummy Load for ATU Selfcheck • Outdoor Installable Antenna Tuning Unit High visibility Color LCD data terminal



The JSS-296/596/896 MF/HF Radio Equipment is designed for vessels navigating A2, A3 and A4 sea areas. It consists of mainly the JSB-196GM Radiotelephone, NFC-296/896 Antenna Tuning Unit (ATU), NCT-196N DSC/NBDP MODEM, NDZ-227 Data Terminal Equipment (DTE), NDF-369 Keyboard, and NAH-692/695/698 Power Amplifier, and it provides the optimum GMDSS system for the superior performance, compact, lightweight and highly efficient design of the units, which ensures easy operation for distress and safety calling as well as general communications.

FEATURES

Fully Complies with GMDSS Requirements

All the functions required by IMO resolutions A.804 (19) and A.806 (19) are equipped, and suitable for radio installations of vessels navigating A2, A3 and A4 sea areas.

Built-in Battery charger

The Battery charger is built in PA unit and does not need another Battery charger.

Self Diagnostic Function

A Built-in high grade self diagnostic function centrally controlled using JSB-196GM Radiotelephone ensures easy maintenance.

Built-in Dummy Load for ATU Selfcheck

The dummy load for checking the NFC-296/896 Antenna Tuning Unit (ATU) is built-in and not required to connect as extra unit.

Outdoor Installable Antenna Tuning Unit

The NFC-296 Antenna Tuning Unit can be installed outdoors such as on deck, ensuring effective emission of transmitter power.

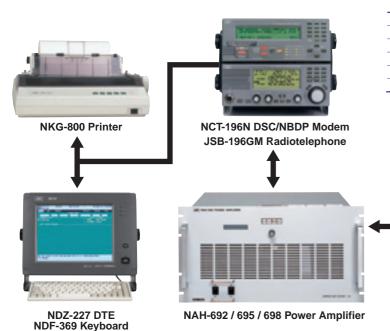
• High visibility Color LCD data terminal

The data terminal adopts a 10.4-inch high-visibility color LCD display and preset color patterns of our marine navigation equipment.



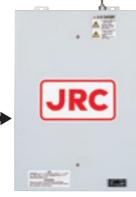
Single large control dial makes it easy to change settings and operating frequency.

SYSTEM CONFIGURATION



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JSS-296 JSS-596 JSS-896 250W GMDSS 500W GMDSS 800W GMDSS Radio Telephone JSB-196GN DSC/NBDP Moden NCT-196N Data Terminal NDZ-227 Power Amplifier NAH-692 NAH-695 NAH-698 Antenna Tuner NFC-296 NFC-896 Printer NKG-800



SPECIFICATION

GENERAL Transmit: 1.6 to 27.5MHz (100Hz steps) Frequency range Receive: 0.1 to 29.9999MHz (100Hz steps) Frequency tolerance ±10Hz or better J3E (TEL), F1B (DSC/TLX), A1A (CW), H2B, Emission mode H3E (AME: reception only) User definable channels 200ch (20ch X 10 Groups) 1722ch [TEL:283, DSC:29, TLX:891, CW:519] Preset ITU channels 20 user defined channels Scanning channel Communication mode Simplex and semi-duplex Antenna impedance 50 ohms Operating temperature -15 to +55°C 296 : 90~132V/180~264V AC,Single-phase,50/60Hz Power requirement 596/896: 180~264V AC,Single-phase,50/60Hz : Tx:2.0kVA max.Rx:0.5kVA max 296 : Tx:3.0kVA max,Rx:0.5kVA max 596 896 : Tx:3.5kVA max,Rx:0.5kVA max 21.6~31.2V DC Tx: 30A max,Rx:7A max Compass safe distance 1.5m TRANSMITTER Output power (*) AC power source: 296: 200Wpx(1.6 to 4MHz),250Wpx(4 to 27.5MHz) 596: 400Wpx(1.6 to 4MHz),500Wpx(4 to 27.5MHz) 896: 400Wpx(1.6 to 4MHz).800Wpx(4 to 27.5MHz) DC power source 100Wpx (1.6 to 4MHz) , 150Wpx (4 to 27.5MHz) Occupied bandwidth J3E (TEL) 3kHz or better F1B (DSC/TLX), A1A (CW) 0.5kHz or better (*) at 10Ω+250pF Artificial antenna for1.6~4MHz at 50Ω Artificial antenna for 4~27.5MHz

 RECEIVER

 Receiving system
 T

 Intermediate frequencies
 7

 Sensitivity (SINAD 20dB)
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Selectivity

Clarifier range

Triple superheterodyne
 70.455MHz, 455kHz, 20.217kHz
 J3E (TEL) 6.3uV or better (1.6 to 4MHz)
 3.5uV or better (4 to 27.5MHz)
 F1B (DSC/TLX) 1.8uV or better (4 to 27.5MHz)
 J3E (TEL) 6dB bandwidth 2.4 to 3kHz,
 66dB bandwidth Within ±2.1kHz
 F1B (DSC/TLX) 6dB bandwidth Within ±550Hz
 ±200Hz in 1Hz steps

STANDARD COMPONENTS

Component	Model	Q'ty	Remark	
MF/HF Radiotelephone	JSB-196GM	1		
Included Accessories				
Hand Set	NQW-213	1	L=1m	
Power Cable	7ZCJD0043A	1		
Plug	5JCAS00029	1		
Connecter	5JJAJ00034	2	14-8	
Terminals	5JDAH00084 2		40A	
Spare Fuse	5ZFEX00013 4			
Instruction Manual	7ZPJD0124	1	English	
DSC/NBDP MODEM	NCT-196N	1		
Included Accessories				
Power Cable	7ZCJD0139	1	L=3m	
AF Cable	7ZCJD0071	1	L=1.5m	
Control Cable	7ZCJD0072A	1	L=1.5m	
Terminals	5JTCD00220	2	1.25-8	
Spare Fuse	5ZFCK00001	4	7.5A	
Instruction Manual	7ZPJD0156A	1	English	
Quick Reference	7ZPJD0157	1	English	
GMDSS Operation Guide	7ZPJD0135	1	English	
Data Terminal	NDZ-227	1		
Keyboard	NDF-369	1		
Antenna Tuner	NFC-296/896	1		
Power Amplifier	NAH-692/695/698	1	Built-in Battery Charger	
			692: 250W, 695: 500W, 698: 800W	



NFC-296 / 896 ATU

DSC WATCHKEEPING	RECEIVER			
Receiving frequencies Receiving system	2187.5kHz、4207.5kHz、6312kHz、8414.5kHz、 12577kHz、16804.5kHz Double superheterodyne			
Intermediate frequencies	40.455MHz, 455kHz			
Reception mode	F1B			
Sensitivity Frequency stability	Symbol error rate of 1% or better at 1 micro-volt input Within +/- 10Hz after 1-minute warm-up			
DSC/NBDP TERMINAL				
Communications protocol Emission	In conformity with ITU-RM.493 and M.541 F1B 100 baud			
Memory capacity	Received Distress messages: 20			
	Received Other messages: 20 Transmitted message: 11			
NBDP MODEM Communications protocol	In conformity with ITU-RM.476, M.490, M.491,			
	M.492, M.625 and ITU-T Rec. F130			
Emission	F1B 100 baud			
ANTENNA TUNER				
Frequency range	1.6 to 30MHz			
Power capability	NFC-296:250Wpx(1.6~4MHz),300Wpx(4~27.5MHz)			
-	NFC-896:500Wpx(1.6~4MHz),1000Wpx(4~27.5MHz)			
Tuning method Operating temperature	Automatic tuning and preset tuning			
operating temperature	-23 10 +330			
BATTERY CHARGER				
Charging current	20A (Ordinary charge)			
Alarma from a Gara	10A (Equalizing charge)			
Alarm function	Charge /Low voltage/ High voltage alarm			
DATA TERMINAL				
Controlled item	NBDP function (Control the DSC/NBDP Terminal)			
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OPTION

Component	Model	Q'ty	Remark
GMDSS Console	NCU-331E/F/G	1	Standard console for
GIVIDSS CONSOLE INCO-331E/F		'	JSS-296/596/896 and inmarsat-C
		1	Desk top console for
GIVIDSS CONSOLE	GMDSS Console NCU-324E/F/G		JSS-296/596/896 and inmarsat-C
GMDSS Console	NCU-1960	1	Desk top console for JSS-296/596/896
Hand Microphone	NVT-133	1	Straight Cable(L=5m)
Hand Microphone	NVT-140	1	Curl Cable
Handset Holder	MPBP00127A	1	
AF Cable	7ZCJD0073	1	For NCT-196N(L=0.3m)
Control Cable	7ZCJD0074A	1	For NCT-196N(L=0.3m)
Printer	NKG-800	1	For NCT-196N
DTE Mounting Bracket	MPBP31721	1	For NDZ-227 Desk Top mounting
Instruction Manual	7ZPJD0162A	1	English for JSS-296/596/896



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