

구 매 규 격 서

순번	품 명	한글	해양기상학 실습기자재(기상 팩시밀리, NavTex, 아네로이드 기압계)			
1		영문	Marine Meteorology Practical Training Equipment(Weather Fax:JAX-9B / NAVETEX NCR-333 / Aneroid type Barometer)			
구분(성질별)	실습기자재		수량	1	단위	식(set)
물품목록번호 (16자리)	4410151001-22555983 4322172101-24255751 4111440201-20490482		수요부서	해사대학 해상운송학부		
물품분류번호 (10자리)	4410151001 4422172101 4111440201		설치장소	해사과학관 2층 2210호 캡스톤디자인실		

A. Feature

- Weather facsimile receiver : JAX-9B (기상팩시밀리)
- Navtex receiver : NCR-333 (나브텍스)
- 아네로이드기압계(Aneroid Barometer)

B. Components

- Weather facsimile receiver : JAX-9B

Model		JAX-9B
Functional ability		
	Recording system	solid state thermal head
	Recording paper	1) thermo sensitive recording paper
	Effective recording width	256mm (10")
	Index of cooperation (IOC)	576 or 288
	Scanning speed	60, 90, 120, 240 SPM
	Scanner resolution	8 dots/mm
	Scanning line density	approx. 7 lines/mm, 3.5 lines/mm
	Phase matching	automatic and manual
	Halftone recording	16 steps by dither pattern
	Negative/positive recording	manual
	External receiver connect.	0dBm, 600Ω
	Operation modes	automatic, manual, forced, timer programme
	Timer programme channel	15 channels
	JSC adapter connection	yes (for scrambled broadcasts)
	Setup data list recording	receiving frequency list, timer programme channel list
	Setup data storing	EEPROM
	Self test function	recording and panel test
	Automatic time correction	input via GPS data
	Image data output	display received images on PC (option)
	Remote maintenance	yes (option)
Synthesised receiver		
	Receiving system	phase locked type frequency synthesised with up-conversion and double super heterodyne type
	Frequency range	2.0000 to 24.9999 MHz
	Frequency selection	automatic
	Frequency memory	up to 90 channels
	Sensitivity	2μV (+6dBμ) or less for antenna input to obtain the output of -5dBm at 20dB S/N
	IF selectivity	6dB down point: 2.4 kHz to 3 kHz 66dB down point: 6 kHz or less
	Image rejection ratio	more than 60dB
Environmental conditions		
	Ambient temperature	operation: -15°C to +55°C
	Ambient humidity	93% (40°C) or less recording is 80% or less
Power supply		DC 12/24/32V 10% to +30%, 70VA or less
Optional items		
AC/DC power supply		NBA-5143
PC interface kit		2) 7ZZNA4016
Fax image display		3) 7ZZNA4017
Joint box (cable insertion Ø12mm)		JQD-69C
Whip antenna (6m)		NAW-60
Antenna feeder		RG-10/U and RG-10/UY
Recording paper		6ZPTS00108

1) Width 260mm and height 25m per roll

2) Terminal block (TB103) for PC connection - JRC RMS

3) RS422/USB converter, image viewer software and manual (requires 7ZZNA4016)

- Navtex receiver : NCR-333 (나브텍스)

Model		NCR-333
IMO compliant		✓
Display		
	Display	5.7-inch, white LED backlit, 320 by 240 pixels
	Dimmer	4 stages (bright, middle, dark, off)
	Power supply	10.8V to 31.2V DC, <9 W
	Receiving frequency	518 kHz, 490 kHz, 4209.5 kHz
	Receiving modulation	F1B navtex broadcast
	Sensitivity	character error rate $\leq 1 \times 10^{-2}$ or 1uV
	Antenna input	50Ω for navtex antenna
		50Ω for wire antenna
		high impedance for wire antenna
	Message log	stores last 200 message (every channel)
		saves up to 50 messages (every channel)
		stores messages up to 70 hours
	External interface	2 serial ports (printer, INS)
	Operating temperature	-15° to 55°C
	Storage temperature	-25° to 75°C
	Waterproof	IPX2
Optional items		
Antenna		
	Model	NAW-333
	Receiving frequency	518 kHz, 490 kHz, 4209.5 kHz
	Bandwidth	504 kHz ± 20 kHz, 4209.5 kHz ± 100 kHz
	Consumption current	6.5V DC, 23mA
	Impedance	50Ω
	Temperature	-25° to 55°C
Power supply (DC/DC)		
	Model	NBG-319
	Input voltage	10.8V to 35V DC
	Output voltage	10.8V to 35V DC
		typ. 6.5V DC $\pm 10\%$ (external printer)
	Maximum current	1.5A (12V to 24V DC), 2A (6.5V DC)
Power supply (AC/DC)		
	Model	NBG-320
	Input voltage	100-120V to 200-220V DC $\pm 10\%$, 50/60 Hz single phase
		24V DC +30% -10% (backup power supply)
	Output voltage	12V DC $\pm 10\%$
		typ. 6.5V DC $\pm 10\%$ (external printer)
	Maximum current	1.5A (24V DC), 2A (6.5V DC)
Printer (table mount)		DPU-414
Printer (flush mount)		NKG-91
Navtex buzzer		CGC-300B

All specifications are subject to change without notification.

- 아네로이드기압계(Aneroid Barometer)

MODEL	7610-20
측정 범위	930 ~ 1070 hPa
분해능	1 hPa 1 °C
정도	기압 : ± 1 hPa (980 ~ 1020 hPa) ± 3 hPa (그외) 온도 : ± 2 °C
온도 범위	-5 ~ 55 °C
크기 / 무게	Ø158 x 50(D) mm / 690g
기본 구성품	본체, 사용 설명서

※ 구성품의 종류 및 수량 / 부속품 : 종류 및 수량 : 첨부 참조

C. Performance and Specification

- 규격사항 : 첨부 참조

D. Remarks

- 납품기한: 계약체결일로부터 7일 이내, 메인장비 재고 소요시 6개월 이상 소요
- 하자보증기간: 설치 후 1년
- 설치 및 교육 조건 등: 설치 후 commissioning, 교육 진행
- 기타 참고사항
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