

MAD-100 Communal Aerial System

GENERAL DESCRIPTION

The MAD-100 system supports video from Satellite TV, and CCTV signal interface in addition to broadcasting bandwidths including MF/HF/SW and FM for radio, VHF (H/L), and UHF for television, as well as the video from VCR and DVD.

Especially, the Omni-directional antenna is able to stably receive television and radio signals via the whip antenna during the operation of the ship. To avoid the attenuation of weak signals, the system adopts the Automatic Gain Control (AGC) in the built-in broadband amplifier. This system also boasts solid production so that it does not require any maintenance after installation. As long as the power is on in the system, all functions operate automatically.

This system was tested at the IEC60945 standard and approved for CE by ICR.

PRODUCT INFORMATION

SYSTEM FEATURES

- Main amplifier (MAD-100) : Maximum subscriber (96EA), Included AGC and power supply for MF / SW / FM / VHF / UHF
- Sub amplifier (MAD-100A) : Additional subscriber (96EA), Included AGC and power supply for MF / SW / FM / VHF / UHF
- VTR Amplifier (UP-40B, Optional)
- Omni-Directional Antenna (AT-100) : For AM/FM, TV
- Distributor
- Terminal for radio and TV
- Radio / TV, telephone and AC-220 RP terminal
- Radio / TV cord set
- Installation materials : End Resistor (75 ohm and connector)
- Spare parts : Manufacturer standard
- Minimum reception level of TV (Standard) : 0dB
- Minimum reception level of radio (Standard) : 40dB
- Maximum Outlet Box per system : 96EA
- Maximum Outlet Box per line : DB-2 / 3 / 4 / 8
- Terminal Resistor Impedance : 75 ohm



AT-100 Antenna

ELECTRIC & ENVIRONMENT

- MF / SW / FM / VHF / UHF Amplifier Unit (MAD-100, MAD-100A)
- Freq : MF / SW (150 kHz - 30MHz), Min. 20dB
VHF L (45MHz - 110MHz), Min. 20dB
VHF H (170MHz - 225MHz), Min. 20dB
UHF (470MHz - 850MHz), Min. 20dB
- AGC : 0-37dB
- Gain Deviation : MF / SW (0.8dB), VHF (1.0dB), UHF (2.0dB)
- Noise Figure : MF / SW (7dB), VHF (8dB), UHF (8dB)
- Maximum Output : MF / SW (85dB), FM / VHF / UHF (110dB)
- Power Consumption : DC-12V, 380mA, Max. 45VA
AC-220V, 20mA, Max. 50VA
- Weight : Approx. 6.8Kg
- Temperature : -20°C ~ +40°C
- In/Out Impedance : 75 ohm



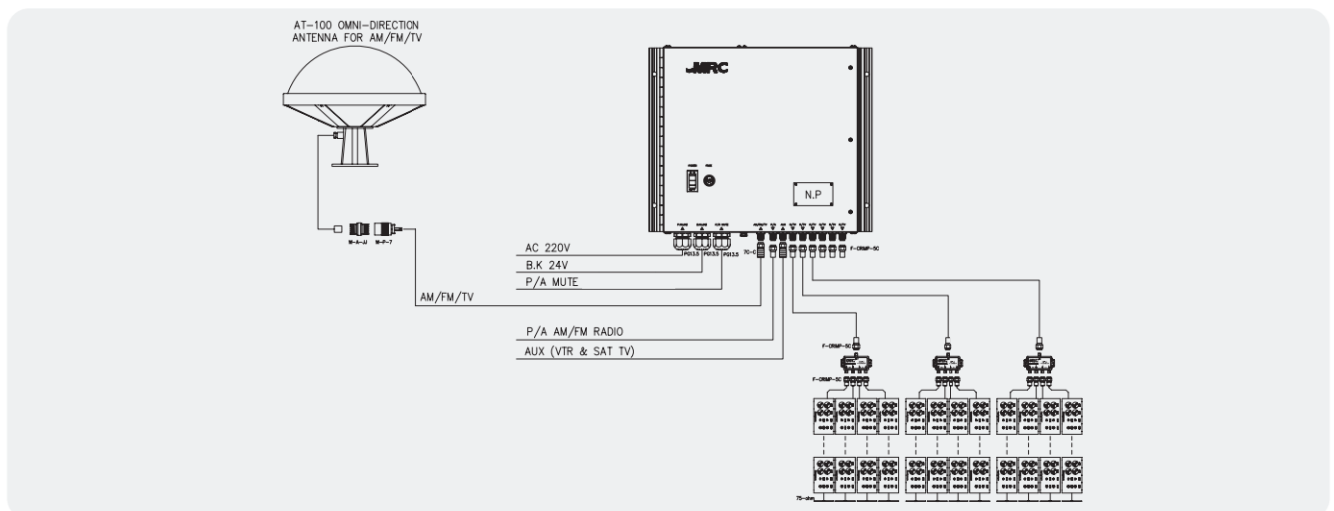
MAD-100 Main Unit



PRODUCT INFORMATION

Main Power Supply	<ol style="list-style-type: none"> 1. Power Source : AC110/220V, 1-ph, 50/60Hz 2. Output Power : DC-12V, 1.2A 3. Fuse : 250V, 1A 	VTR Amplifier (UP-40B, Option)	<ol style="list-style-type: none"> 1. Frequency Gain : VHF L (45MHz - 110MHz), Min. 30dB VHF H (170MHz - 225MHz), Min. 30dB UHF (470MHz - 750MHz), Min. 30dB
Omni-Directional Antenna (AT-100)	<ol style="list-style-type: none"> 1. Frequency Range : 0.1MHz ~ 850MHz 2. Rx Pattern & Polarization : Omni-Directional Type 3. Gain : 20dB ± 3dB 4. Automatic Gain Control : 0 ~ 25dB 5. Output Impedance : 75 ohm 6. Maximum Output Level : 110dB 7. Power Consumption : 120mA 8. Input Voltage : DC-12V 9. Stand Rate for Wind : Max. 60m/s 10. Operation Temperature : -40°C ~ +50°C 11. Approx. 6Kg 		<ol style="list-style-type: none"> 2. Gain Deviation : VHF (1.0dB), UHF (2.0dB) 3. Noise Figure : VHF (8dB), UHF (8dB) 4. Maximum Output : FM / VHF / UHF (105dB) 5. Power Consumption : AC110 / 220V, 50mA, Ma x. 11VA 6. Weight : Approx. 1.7Kg 7. Color : Black 8. Temperature : -20°C ~ +40°C 9. In/Out Impedance : 75 ohm

Wiring Diagram of Communal Aerial System





Accessories: Communal Aerial System




ACCESSORY COMBINATION BOX




MODEL	RF	RW	NPTLRF-4
PHOTO			
Mounting Type	FLUSH	WALL	FLUSH
Power Socket	X	X	O
Tel. Module	X	X	O
R/TV Module	O	O	O
Lan. Module	X	X	O
IP Grade	IP22	IP22	IP22
(WxDxH)mm	80×35×126	80×53×123	284×60×138
Material	STEEL	STEEL	ABS
Colour	IVORY	IVORY	WHITE
Weight	0.5kg	0.7kg	1.8kg
Derivative Product			NTLRF-4 NTLRF-4 NTLRF-4

ACCESSORY DISTRIBUTOR & CORD

MODEL	DB-4N	CHT-4CN	CMX-1
PHOTO			
Mounting Type	WALL	WALL	WALL
(WxDxH)mm	71×17×49	75×26×39	113×26×73
Material	ZN	AL	AL
Colour	GRAY	SILVER	GRAY
Weight	0.15kg	0.5kg	0.5kg

Inter-Communication Entertainment System for TV and Radio Broadcasting(MAD-100)

NPTLRW-4	NPTRF-4	NPTRW-4
		
WALL	FLUSH	WALL
O	O	O
O	O	O
O	O	O
O	X	X
IP22	IP22	IP22
284×73×138	284×60×138	284×73×138
ABS	ABS	ABS
WHITE	WHITE	WHITE
2kg	1.8kg	2kg
NTLRW-4	NTLRF-4	NTLRW-4
NTLRW-4	NTLRF-4	NTLRW-4
NTLRW-4	NTLRF-4	NTLRW-4

DB-4N	CHT-4CN	CMX-1
		
WALL		
113×26×73	L=1.5m	L=1.5m
AL	PVC JACKET	PVC JACKET
GRAY	BLACK	BLACK
0.7kg	0.1kg	0.1kg