

IHS

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SCAN HERE



PR-2023-0605-121709



Republic of the Philippines
VISAYAS STATE UNIVERSITY
Visca, Baybay City, Leyte

PURCHASE REQUEST

PPMP No.: 138-1-1242-2023-3-0-38

Dept./Office: VIHS

PR No.: STF-2023-06-00941

Date: 06-05-2023

Section/End-User: Guada Fe D. Amihan

Category: Office Equipment

Funding Source: Special Trust Fund

Project Title/Code: VSUIHS DRRM

Item #	Item Description	Unit	Qty	Unit Cost	PAR/ICS	Total Cost
1	Antenna	pc	1	13,000.00		13,000.00

Specification:

Justification: These base and handheld radios will be used in SUIHS-DRRM. More so, this will be used in every program, especially since the VSUIHS has a monthly program, and it will cater to more than 500 students.

Description

Antenna VHF Base, 144 to 174 MHz, Power Max 200-Watt, Length 460 cm, Gain 7.8dB.
Connector UHF-Female.

FEATURES, FUNCTIONS AND SPECIFICATIONS:

Frequency: 144 to 174 MHz

Gain: 7.8dB

Max Power: 200 Watt

Length: 460 cm

Weight: 1.7 Kg

Rated Wind Velocity: 50m/sec.

Mast Diameter Accepted: 30-62mm diameter

Connector: MU / UHF / SO-239

Type: Omnidirectional 3x5/8, FRP Outersteel.

PACKING INCLUDES:

1 Pcs Antenna

1 Set Mounting Materials

1 Pcs User Manual English and Japanese

Product details

SKU: diamond-F23

Product Weight: 1.8 kg

Product Length: 1730 mm

Product Width: 150 mm

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Height: 80 mm

2	Hand held Radio	pcs	8	7,000.00		56,000.00
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Frequency Range - TX: 144-148 MHz, RX: 136-174 MHz

Output power - 7.0/5.5/2.5/0.5 W (EX HI/HI/Mid/Low)

Type of emissions - F2D, F3E (FM, FM-N)

Durable BNC female antenna connector

200 memory channels, 6 scan edge channels, and 1 call channel • Maximum Frequency Deviation: ± 5.0 kHz/ ± 2.5 kHz (FM Wide/FM Narrow)

Selectable Volume Level, VFO/Memory Channel Selection Control

Integrated VOX function

Built-in CTCSS and DTCS Encode Decode and Tone Scan

IP54 Waterproof rating

IP67 Rating for dust-tight and waterproof protection

MIL-STD-810 -C,-D, -E, and -F; passed environmental tests for pressure, temperature, sun, rain, humidity, salt fog, dust, vibration, and shock

Dimensions (WHD) 2.3 x 4.4 x 1.2 in (58.6 x 112 x 30.5 mm) with supplied BP-298 battery pack

Made in Japan quality and reliability.

PACKAGE INCLUSIONS

1x Unit with Battery

1x Speaker Mic.

1x Charger

1x Power Cord

1x Manual

3	Lightning Arrester	pc	1	1,800.00	1,800.00
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Designed with a stress on a high safety, this device has a built-in -charging surge arrestor element which discharges and grounds

the surge at the moment the surge voltage exceeds a specified level. This device makes the actions of surge discharge and restoration as repeatedly as necessary. No replacement is practically needed. Should the surge arrester element be damaged, it can easily be replaced with a new element. The coaxial construction of this device assures excellent high-frequency characteristics, wide bandwidth, and low loss and VSWR. 1/4 wavelength short circuit principle for good lightning protection effect. Simple structure, strong, easy installation.

Specifications:

Material: Iron

Color: Silver

Model: CA-35RS

Connector: UHF/UHF

Frequency range: 0-3000MHz

Voltage standing wave ratio: ?1.1

Peak power: 200w

Voltage: DC 230A

Current: 500A

Impedance: 50 ohms

Size: 78 * 41 * 20mm / 3.1 * 1.6 * 0.8in

Package weight: 105g

Package List:

1 x Coaxial Lightning Surge Protector

4	Radio Base	pc	1	11,000.00	11,000.00
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Specification:

GENERAL

Antenna Impedance	50 ohms
Current Drain Receive	Less than 1 A
Current Drain Transmit	Less than 14 A
Dimensions (W x H x D)	6.3 x 1.69 x 4.69 in. (160 x 43 x 126 mm)
Weight (approx.)	2.6 lbs. (1.2 kg)
Frequency Range	TX: 144 - 148 MHz RX: 136 - 174
Ground	Negative
Microphone Impedance	600 ohms
Frequency Tolerance	± 2.5 PPM -20°C to 60°C

Mode	F3E (FM)
Operating Temperature Range	-20°C to 60°C
Power Requirement	13.8V DC (±15%)
RECEIVER	
Audio Output Power	More than 2W (8 ohms, 5% distortion)
Circuitry	Double conversion superheterodyne
Intermediate Frequency 1st IF	49.95 MHz
Intermediate Frequency 2nd IF	450 kHz
Selectivity -6 dB	More than 12 kHz (Narrow 10 kHz)
Selectivity -60 dB	Less than 30 kHz (Narrow 24 kHz)
Sensitivity (12dB SINAD)	Less than 0.18µV
Squelch Sensitivity	Less than 0.10µV
TRANSMITTER	
Frequency Tolerance	Within ±10 ppm
Maximum Frequency Deviation	±5 kHz
Modulation	Reactance modulation
Modulation Distortion	Less than 3% (300 Hz ~ 3 kHz)
RF Output Power HI	65 W
RF Output Power LO	25 W

Specifications may be changed without notice.

PACKAGE INCLUSIONS

1x Unit
1x Keypad Mic
1x Bracket
1x Power Cord
1x Manual
1x Set of Screws

5	Regulated Power Supply	pc	1	12,000.00	12,000.00
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*13.8VDC

1. Coaxial (P6,300.00) 45 meters

General

Frequency Range DC-5.8 GHz

Impedance 50 Ohms

Velocity of Propagation 85 %

Shielding Effectiveness 90 dB

Inner Conductor DC Resistance 1.39 Ohms/1000ft

Outer Conductor DC Resistance 1.85 Ohms/1000ft

Nominal Capacitance 23.9 [78.41] pF/ft [pF/m]

Nominal Inductance 0.059 [0.19] uH/ft [uH/m]

6	RF Coaxial Coax Adapter UHF Female to Female SO-239 SO239 Connector Adapter Replacement	pcs	3	200.00		600.00
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Nickel plated and designed to offer the lowest VSWR rating of the two series.

Connector material: Pure brass with low loss. (Not alloy).

Mini size: Lightweight and easy to use, portable size, easy to carry with tool bag.

Strong and durable: Made of pure brass material to ensure maximum strength and durability for long-lasting usage.

SO-239 UHF female connector. Used for connecting two PL-259 connectors together.

Description

Material: Pure brass.

Size: 4 x 2.5 x 0.8 inches.

Color: Silver.

Impedance: 50ohm.

UHF female-to-female adapter.

Notes:

Due to the light and resolution setting difference, the item's color may be slightly different from the pictures.

Please allow slight dimension differences due to different manual measurements.

Package included:

Type 1:

2 * RF coaxial coax adapter.

Type 2:

4 * RF coaxial coax adapter.						
7	UHF PL259 Male to UHF PL-259 Male plug Straight RF coaxial adapter connector adapter	pcs	2	200.00		400.00

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Feature name: UHF PL259 Male to UHF PL-259 Male plug Straight RF coaxial adapter connector adapter; UHF Male connector: UHF Male quantity: 2pcs

8	UHF PL259 Plug for RG58 Twist-On/Solder Type RF Coaxial Coax Antenna Cable Adapters 4.8mm	pc	2	250.00		500.00
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UHF PL259 Male Twist-on Connectors RG8 RG58 RF Coaxial Coax Antenna Cable Adapter Plug

Suitable for video head-end applications.

Applicable to the reducer in RG8X connector.

Niel-plated brass structure, gold-plated contacts, and Derlin insulators.

High reliability, strong anti-vibration, and good mechanical and electrical performance.

Widely used in vibration and harsh environments of radio equipment and instruments, as well as ground transmission systems, widely used in radio frequency coaxial cable.

TOTAL						95,300.00
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Purpose: VSUIHS DRRM

Requested by:

LEO A. MAMOLO

TWG - Office Equipment

Requested by:

FELO AMIHAN

USER

Noted by:

SHALON GRACE C. SUGANO

UNIT HEAD, PROJECT LEADER

Funds Available:

AUDIA M. FLORES

HEAD BUDGET OFFICE

Approved by:

EDGARDO E. TULIN

PRESIDENT, VSU