Vine Antenna DU-1500T Differential ATU 1.5Kw LAMCO Barnsley

Price: £549.95

SKU: LAMCO DU-1500T Differential ATU

In stock: 2

Product Categories: VINE ANTENNAS, ANTENNA TUNERS, MANUAL ANTENNA TUNERS

Product Tags: DU-1500T, LAMCO DU-1500T Differential ATU 1.5Kw, Vine Antenna DU-1500T Differential ATU 1.5Kw LAMCO Barnsley

Product Page: https://www.hamradio-shop.co.uk/product/vine-antenna-du-1500t-differential-atu-1-5kw-lamco-barnsley/

Product Summary

£549.95

Product Description

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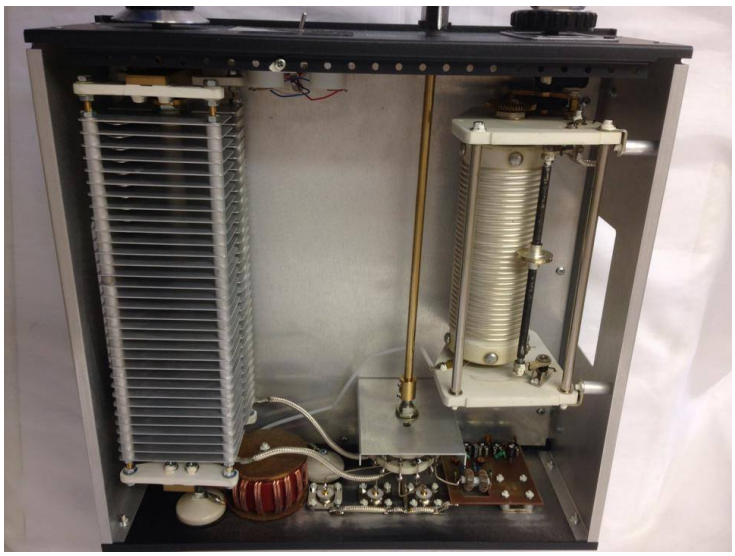
FEATURES

The DU 1500T optimizes the performance of your antenna and transmitter or SWL receiver by providing adjustable impedance matching. The DU1500T also measures the Power and Standing Wave Ratio (SWR), which allows you to tune the indicted SWR to the lowest possible ratio for the selected transmit frequency.



SPECIFICATIONS

FRONT PANEL INDICATORS AND CONTROLS

Meter.....Cross needle Power and SWR meter.
CONTROLS
Input Tuning.....Continuous rotation 4,5kV capacitor 330pF
Antenna Tuning.....Continuous rotation 4,5kV capacitor 330pF
Antenna Switch Selector.....Five position ceramic switch: COAX 1, Tuned and COAX 2 Tuned and BYPASS, COAX 1 DIRECT, COAX 2 DIRECT

Power Range Switch.....Two position: 200W/2kW
Warning: !! on 1.8MHz for SWR worse then
1:3 MAX 800W!!
REAR PANEL CONNECTORS
Coax 1.....SO-239 Teflon connector
Coax 2.....SO-239 Teflon connector
Balanced Line.....Dual high voltage ceramic terminal
Include 4:1 balun
OTHER
Frequency Coverage.....1.8-30MHz ,continuously tunable
Power Maximum.....1500W max 2kW
Input impedance.....50 ohm
Output impedance.....25-600ohm and wire 2000ohm
Dimension.....
.....H 4.7” (12cm) W 13” (33cm) x D 13” (33cm)
Weight.....10 lbs. (4.5kg)

CONTROL/CONNECTORS

FRONT PANEL FUNCTIONS

- Output (Transmitter) Continously adjustable input capacitor - POWER/SWR METER Dual needle meter displays FORWARD and REFLECTED Power in Watts. The SWR in measured where the two needles intersect on the red scale. - INPUT (Antenna)

Continuously adjustable output capacitor.

- DIRECT-TUNED MODE SWITCH

Five-position rotary switch an output coaxial connector.
1.TUNED COAX 1 selects the COAX 1connector trough the impedace matching circuit.
2.TUNED COAX 2 selects the COAX 2
connector trough the impedance matching circuit.

3.DIRECT BYPASS selects BYPASS COAX connector bypassing the impedance matching circuit but provindingSWR, FORWARD, and REFLECTED power meter readings.
4.DIRECT COAX 1 select the COAX 1 connector bypassing the impedance matching circuit but providing SWR, FORWARD, and REFLECTED meter readings.
5.DIRECT COAX 2 selects the COAX 2 connector bypassing the impedance matching circuit but providing SWR, FORWARD, and REFLECTED meter readings.

- TUNED WIRE/BAL selects the BALLINE+COAX 1 connector through the impedance matching circuit.

5.RANGE SWITCH
Two-position switch selects the range
(200W or 2kW) of FORWARD and
REFLECTED Power displayed on the power meter.
When the METER (power range) switch 200W the FORWARD meter
Scale reads 200W full scale and the REFLECTED meter scale reads 40W full scale.

When the METER switch is on 2kW, the FORWARD meter scale reads 2kW full scale and the REFLECTED meters scale reads 400W full scale.
REAR PANEL CONNECTORS

DU1500T Rear Panel

- RF INPUT - Coaxial connector for input from SWL receiver or transmitter.

2 COAX 1 - Coaxial connector for output to Antenna One.

- COAX 2 - Coaxial connector for output to Antenna Two. - BYPASS - Coaxial connector for output to dummy load or third coax output. - GROUND - Post/Wing-nut type ground connector.

6 BALANCED OUTPUT Two ceramic post for output to RF balanced twin-lead antennas.

- Install Jumper

INSTALLATION
Select a location for the DU 1500T that allows the connectors to be free of any

possible

Contact during operation.

WARNING:SOME BALANCED OR END-FED ANTENNAS WILL PRODUCE HIGH RF VOLTAGES AT THE BANANA CONNECTORS.RF BURNS MAY RESULT IF TOUCHED DURING TRANSMISSION.

INSTALLATION PROCEDURES

- Connect a coax cable from your transmitter or receiver to the RF INPUT connector on the rear panel.Keep the cable as short as possible. If you use a linear amplifier,connect your transmitter to the linear amplifier output to the DU 1500T. - Connect coax cable(s) from your antenna to COAX 1 or COAX 2 connectors ont he rear panel.Thes connectors are either direct from

the transmitter or trough the tuned circuit depending ont he setting of the OUTPUT SELECTOR switch ont he front panel.
3If you are using a balanced feed antenna,connect the INSTALLJUMPER in the COAX 1 connector and switch band switch TUNED COAX 1.

- If using a single wire antenna,connect itt o post COAX 1 without installing jumper. - Connect a dummy load to the BYPASS CONNECTOR using a coax cable.This lets you select the dummy load from the OUT

PUT SELECTOR switch. Any antenna that does not require the use o fan antenna tuner may be connected to the BYPASS connector, if desired.

BEFORE OPERATION

- To avoid possible damage to the DU 1500T, set INPUT, OUTPUT, BAND SWITCH and POWER RANGE switches as outlined in the next section before applying transmitter power. (Tuning Section) - Begin tuning with your transmitter se tat a low power setting (50 to 100W)

WARNING: DO NOT OPERATE THE DU 1500T WITH THE COVER OFF!

TUNING

- Select the band and frequency of desired operation. - Set INPUT, OUTPUT, and BAND SWITCH controls to

the suggested settings before applying transmitter power. Actual settings may vary from antenna to antenna.

- Set up your transmitter to a low power output.

If your transmitter has a TUNE position, select that position.

- If you use a linear amplifier, set it to STANDBY. Do not use the linear amplifier until the DU 1500T is tuned.

WARNING: DO NOT EXCEED 1500 WATTS PEP (SINGLE TONE)

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- Set POWER RANGE switch to 200W. - Set OUTPUT SELECTOR switch to BYPASS, or to the position matching your antenna connection. To tune your antenna, the switch selection must be set to: COAX 1 TUNED COAX 2 TUNED, or BAL.LINE+COAX 1. Selecting COAX 1 DIRECT, COAX 2 DIRECT, or BYPASS. - Rotate the INPUT and OUTPUT controls for maximum noise or signal as heard on your receiver. - Key your transmitter and adjust the power level for a reading of 50 to 100 watts on the FORWARD scale. Adjust the INPUT and OUTPUT controls for a minimum REFLECTED reading while maintaining a ORWARD reading of 50 to 100 watts using your

transmitter power control.

- Read the SWR on the red scale at the point where the two needles intersect. Repeat step

8 until the lowest SWR reading is obtained. The SWR should be 2:1 or lower.

NOTE:This procedure takes patience the first
time. The INPUT and OUTPUT Controls vary the capacitors and provide fine adjustments.
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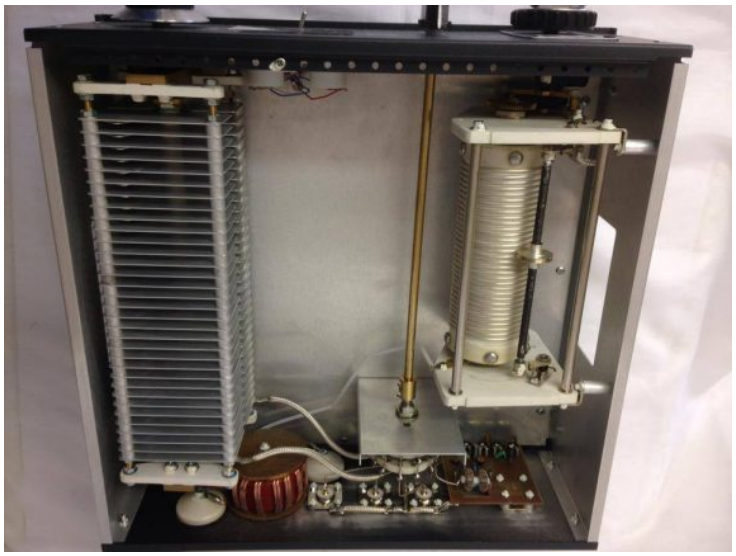
https://www.hamradio-shop.co.uk/product/vine-antenna-rs-hf-osf-80/

Product Gallery




COAX 1
COAX 2
COAX 3
INPUT 50 Ω
BALANCED LINE OUT PUT
INSTALL JUMPER BALANCED LINE OPERATION
GND
RU 1500 T DIY
Antenna tuner 1.5Kw