



# **K.R. NIDA CORPORATION**



# ***Model 4330***

## **DC Remote Kit with Accessories**

**INSTRUCTIONS FOR OPERATION &  
ASSEMBLY OF ACCESSORIES**

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### **Introduction & General Description**

The K.R. Nida Corporation Model 4330 DC Remote kit is designed to provide remote control of a conventional radio in any band via a single twisted pair of wires to allow transmit and receive functions. The weather resistant case that houses the radio also houses the DC termination panel, battery and external connection to the antenna. A separate weather resistant case is provided for all other parts and accessories. The DC power and DC termination panel cable dictate which radio each remote device is designed to operate with. The proper cable for the proper radio must be used. Cables are available for BK, Harris, Kenwood, HYT and Motorola. In addition, the proper antenna (VHF, UHF, or 700/800) must be utilized for proper operation. Please take a moment to acquaint yourself with the information in this manual to assure optimum performance from both the radios and the DC remote.

### **Safety Precautions**

1. Do not operate the equipment in close proximity to blasting caps.
2. Do not operate the equipment in an explosive atmosphere (petroleum products, fuels, solvents, dust, etc.)
3. Do not operate the equipment if a person within two feet of the antenna or touching the antenna.
4. Do not install the equipment in a closed compartment that contains an LP gas container or its fittings.
5. The equipment must be installed and serviced by a qualified communications specialist/technician.



## Storage/transport case Inventory

Pelican 1620 case (black unless specified otherwise)  
1000ft spool of WF16/U telephone wire  
CPI DR10 DC remote with modifications for AC adapter

50ft LMR240 cable assembly with N male connectors for mast applications  
6ft 12vdc cable  
Goal Zero Nomad 20 watt solar panel  
4 amp power supply for charging backup battery  
Cable Cutters  
Cable Stripper



## DC Remote & Radio Case Inventory

Pelican 1400 case(black unless specified otherwise)

9A/H backup battery

Fuse block for 6 fuses

Portable radio (customer provided)

Battery eliminator for portable radio(customer specified)

CPI DTP1 DC termination panel

N female bulkhead with dust cover

NMO antenna mount with ground plane

SMA to BNC adapter

Dual binding post for DC remote connection

Solar regulator (build into solar panel)

Bulkhead connectors for 12vdc with dust cover(shore power and solar input)

¼ Wave NMO antenna (VHF, or UHF, or 700/800)

## Model 4330 DC Remote Set up Steps



1. Remove the remote desk set from the shipping box along with the DC power cube.
2. Remove DC Remote/Radio box. Select a location common to the desired service area that is within range of available communications wire supplied in the kit (**1000' reels**).



3. Attach, or erect the appropriate antenna (VHF, VHF, 700/800i) and attach the coax cable from the antenna to the coax connector on the outside of DC Remote/Radio box, or from the NMO mount to the radio. Use the appropriate cable to the radio depending on the need.

4. Connect the remote end of the communications wire pair to the remote chassis terminal lugs on the outside of the DC Remote/Radio box. (**not polarity dependent**).



5. Open the DC Remote/Radio box and determine if the correct radio is pre-mounted. If not, connect the adapter cable to the correct radio's side connector (UHF, VHF, 700/800), and strap the radio into place on top of the black DC termination panel. Using the provided SMA to BNC adapter, connect the male BNC side of the adapter cable to the female BNC side mount, and connect the male MIL Spec connector to the corresponding female side mount.

6. Connect the DC power cable to the power supply / charger and power up.

7. Make sure the power adapter switch is selected to 7.5 volts. Power up the unit using the green LED switch and power up the radio.

**CAUTION: +10.5 to +15 volts is required for King radios.**

8. After power up, select the correct radio group and channel that will be used for the incident. Ensure the radio volume knob is set mid-point of the radio and adjust the squelch.

9. String the communications wire back to the site of the remote desk set. Attach the wires directly to the binding posts on the back of the CPI remote desk set **(not polarity dependent)**

10. Test and verify operation of the remote.

## Power Consumption and Battery Charging:

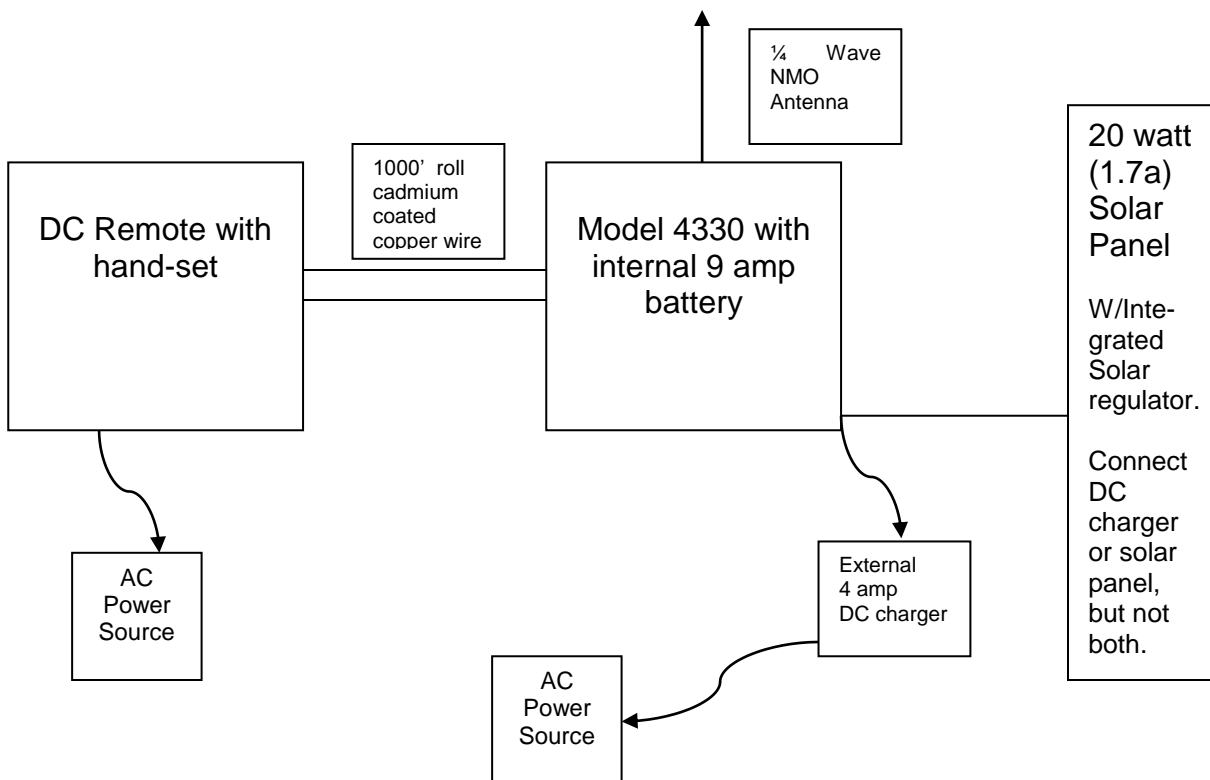
The Model 4330 is supplied with one internally mounted 9.0 amp hour lead acid battery. With the XTS5000 portable radio and DC Termination panel, the estimated battery life is indicated below:

- Standby: .3 amps
- Receive: .7 amps
- Transmit : 3.2 amps

The Model 4330 with the internal 9 amp battery fully charged will provide approximately 16 hours of service at a 5/5/90 duty cycle. An 80/10/10 duty cycle will provide approximately 12 hours of service.

The battery life will vary depending on RF power output settings and duty cycle.

## Model 4330 Set-up Chart



**Normally, the external 4 amp power supply should always be used for maximum power reliability. Spare fuses are provided:**

10 amp fuse: Battery & main power, 4 amp Termination panel & 4 amp: Radio Battery Eliminator



## Notes:

For 24/7 Support, call (818) 957-1248

Or email [KRNida@KRNida.com](mailto:KRNida@KRNida.com)