



**SANCHAR**  
WIRELESS COMMUNICATIONS LTD.

# SCR-920D

## VHF/UHF Digital Repeater

- LCD Display and LED Indicators
- Clear Voice Communication over a Wider Coverage.  
Increased Data Transmission Capacity
- Total Reuse of Existing Infrastructure
- Flexible voice/data management in digital mode
- Data transmission reliability
- Audio band optimization



The Sanchar DMR range of Digital Repeaters provide professional users with full featured communication services with clearer voice and richer standards. The **SCR-920D** IP Connectivity allows you to communicate freely wherever you are. They offer the capability to accommodate more channels or user groups and operate across a longer range or wider area in a cost effective communications infrastructure for single site/ local area applications. They share benefit of Digital radio communications in providing increased range, improved sound quality and advanced security capabilities. Capable of Output Power up to 50W in VHF 136-174 MHz frequency range and up to 40W in UHF 400-470 MHz frequency range, the SCR-920D repeater is compatible with the DMR Tier II air interface operating in both Digital Conventional and FM Analog Conventional Mode.



MAKE IN INDIA



# SCR-920D

## VHF/UHF Digital Repeater

### Specifications

General	
Frequency Range	VHF: 136 - 174 MHz UHF: 400 - 470 MHz
Channel Spacing	12.5KHz / 20KHz / 25KHz
Number of Channels	64
Zone	1 (64 Channels - Analog + Digital)
RF Power Output	5-50W
Dimensions	483*366*44mm
Weight	7 Kg Approx.
Input Voltage AC	220V
Input Voltage DC	13.6V±15%
Current(Standby)	<800mA
Current(TX)	<11A
Current(RX)	<1900mA
Frequency Stability	±0.5ppm
Antenna Impedance	50Ω
Digital Vocoder	AMBE+2
RF Connection	Tx (N), RX (N)
Operating Temperature	-30°C~+60°C
Storage Temperature	-40°C ~ +70°C
Display	24bit_RGB
USB	USB 2.0 for Programming
LAN Connectivity	10/100/1000 Mbps Ethernet
Supported System	Sanchar intelligent trunking communication system, Sanchar intelligent regular IP interconnection system, Normal digital/analog system.

Receiver	
Frequency Range	VHF: 136 - 174 MHz UHF: 400 - 470 MHz
Sensitivity (Analog)	Better than 0.25μV for 12dB SINAD
Sensitivity (Digital)	0.30μV with BER ≤5%
Adjacent Channel	70dB@12.5KHz
Inter-modulation	70dB
Audio Response	+1. -3 dB
Hum & Noise	-40 dB
Rated Audio Distortion	≤3%
Conducted Spurious	<-57dBm

Transmitter	
Frequency Range	UHF: 400 - 470 MHz
RF Power Output	5-50W
FM Modulation	14K0F3E@20kHz,
4FSK Digital Modulation	Voice+Data: 7K60FXW
Audio Distortion	≤ 3%
Audio Response	+1. -3dB
FM Hum & Noise	-40dB @12.5 KHz -45dB @ 25 KHz
Digital FSK Error	<1.5%
Adjacent Channel Power	60dB @ 12.5KHz 70dB @ 25KHz

Marketed: Dealer/Distributor