

**Specification of Kenwood Static Base NX-3820HG**

S.N	Parameter	Technical Specification	Remarks
1	Frequency Range	400-470MHz	
2	Number of Channels	Minimum 512	
3	Zones	Minimum 128	
<b>Channel Spacing</b>			
4	Analog	12.5/25KHz	
5	Digital	6.25/12.5KHz	
6	Operating Voltage	13.6VDC $\pm$ 15%	
7	Operating Temperature Range	-30°C to +60°C	
8	Frequency stability	$\pm$ 0.5 ppm	
9	Inbuilt Technology	NXDN + DMR + Fleetsync	
10	Antenna impedance	50 $\Omega$	
11	Current Drain	Stand by (Maximum 0.45 A)	
		RX (Maximum 2.3 A)	
		TX (Maximum 12A)	
<b>Receiver Specification</b>			
<b>Sensitivity</b>			
12	Digital NXDN@6.25Khz(3%BER)	0.20 $\mu$ V or better	
13	Digital NXDN@12.5Khz(3%BER)	0.25 $\mu$ V or better	
14	Digital DMR 12.5Khz(5%BER)	0.25 $\mu$ V or better	
15	Digital DMR 12.5Khz(1%BER)	0.45 $\mu$ V or better	
16	Analog (12 dB SINAD)	0.25 $\mu$ V or better	
<b>Selectivity</b>			
17	Analog@25Khz	80 dB or better	
18	Digital@12.5Khz	68 dB or better	
19	Intermodulation	70 dB or better	
20	Spurious rejection	80 dB or better	
21	Audio distortion	2% or low	
22	Audio output (speaker)	Minimum 4W/4 $\Omega$	
<b>Transmitter Specification</b>			
23	RF power output (high/mid/low)	45 /30/5 W option	
24	Spurious emission	-75 dB or better	
<b>FM hum and noise</b>			
25	Analog@25 Khz	45 dB or better	
26	Analog @12.5Khz	40 dB or better	
27	Audio distortion	2% or low	
28	Emission Designator	16K0F3E,11K0F3E,8K30F1E,8K30F1D,8K30F7W, 4K00F1E,4K00F1D,4K00F7W,4K00F2D	
29	Antenna	High gain antenna (Minimum 8.5dB) BC205 or better	
30	Feeder with connector	Feeder (With necessary Connector) Min-100 Mtrs	
31	Microphone	Microphone KMC-35 or better compatible handset	
32	DC Power Supply	GSV 1200 or better power supply with DC cable and connector should be provided	
33	Programming Tools	Programming software compatible with upgraded version of radio set, Programming cables and connectors suit for radio set. License to operate the radio set should be provided.	
34	Warranty	Minimum 2 year / provided by OEM (whichever is greater), Minimum Service support and maintenance support of 2 years	
35	Training	Operation and maintenance training of Kenwood Base Static NX-3820HG for at least 40 hours (theory + practical)	
36	Note	Compatible to Nepali Army Kenwood digital trunking system	