

Model Name	 D168UV	 D878UVII PLUS	 D890UV
Specification			
Frequency range	RX FM: 87.6-108MHz RX/TX 136-174MHz RX/TX 400-520MHz	RX FM: 87.6-108MHz RX/TX 136-174MHz RX/TX 222-225MHz RX/TX 400-520MHz	RX AM: 108-145MHz RX FM: 87.6-108MHz RX/TX 136-174MHz RX/TX 222-225MHz RX/TX 400-520MHz
Channel capacity	4000 channels	4000 channels	4000 channels
Channel Spacing	Analog: 12.5KHz/25KHz Digital: 12.5KHz	Analog: 12.5KHz/25KHz Digital: 12.5KHz	Analog: 12.5KHz/25KHz Digital: DMR 12.5KHz NXDN 12.5KHz NXDN 6.25KHz M17 mode is under checking...
display	1.77-inch color screen	1.77-inch color screen	1.77-inch color screen
key	16 front buttons	18 front buttons	18 front buttons
Battery working time (5-5-90)	1800mAh Analog: 16H Digital: 23H 2600mAh Analog: 17H Digital: 24H	2100mAh Analog: 17H Digital: 24H 3100mAh Analog: 26H Digital: 37H	3100mAh Analog: 26H Digital: 37H
operation temperature	-30~+60°C	-30~+60°C	-30~+60°C
storage temperature	-40~+85°C	-40~+85°C	-40~+85°C
voltage	7.4V	7.4V	7.4V
Battery capacity	7.4V, 1800mAh and 2600mAh (18650)	7.4V, 2100mAh and 3100mAh (18650)	3100mAh (18650) TYPE-C charging
antenna impedance	50Ω	50Ω	50Ω
protection grade	IP50	IP50	IP50
Receiver Section			
Analog sensitivity	≤ -119dBm@12dB SINAD	≤ -119dBm@12dB SINAD	≤ -119dBm@12dB SINAD
Digital sensitivity	≤ -119dBm@5 % BER	≤ -119dBm@5 % BER	≤ -119dBm@5 % BER
intermodulation	≥ 55dB@12.5KHz /25KHz	≥ 50dB@12.5KHz /25KHz	≥ 50dB@12.5KHz /25KHz
adjacent channel	≥ 60dB@12.5KHz ≥ 65dB@25KHz	≥ 60dB@12.5KHz ≥ 65dB@25KHz	≥ 60dB@12.5KHz ≥ 65dB@25KHz
block	84dB	81dB	84dB
Rated audio power	1.5W/16Ω	1.5W/16Ω	1.5W/16Ω
Rated audio distortion	≤3%	≤3%	≤3%
audio response	+1/-3dB	+1/-3dB	+1/-3dB
Signal to Noise Ratio	≥ 40dB@12.5KHz ≥ 45dB@25KHz	≥ 40dB@12.5KHz ≥ 45dB@25KHz	≥ 40dB@12.5KHz ≥ 45dB@25KHz
Spurious Emission	-57dBm	-57dBm	-57dBm
Transmit Section			
power	VHF:5W UHF: 4.5W	VHF:6.5W UHF: 6W	VHF:6.5W UHF: 6W
FM modulation method	11KΦ F3E@12.5KHz 16KΦ F3E@25KHz	11KΦ F3E@12.5KHz 16KΦ F3E@25KHz	11KΦ F3E@12.5KHz 16KΦ F3E@25KHz
4FSK digital modulation method	7K6 Φ FXD @ Data 7K6 Φ FXW @ Data Voice	7K6 Φ FXD @ Data 7K6 Φ FXW @ Data Voice	7K6 Φ FXD @ Data 7K6 Φ FXW @ Data Voice
Digital Vocoder Type	AMBE++	AMBE++	AMBE++
Digital Protocol	ETSI-TS102 361-1,-2	ETSI-TS102 361-1,-2	ETSI-TS102 361-1,-2
Spurious Emission	-33dBm<1GHz, -30dBm>1GHz	-36dBm<1GHz, -30dBm>1GHz	-36dBm<1GHz, -30dBm>1GHz
Hum and noise	≥ 36dB@12.5KHz ≥ 40dB@25KHz	≥ 36dB@12.5KHz ≥ 40dB@25KHz	≥ 36dB@12.5KHz ≥ 40dB@25KHz
Adjacent channel power	≥ 60dB@12.5KHz ≥ 70dB@25KHz	≥ 60dB@12.5KHz ≥ 70dB@25KHz	≥ 60dB@12.5KHz ≥ 70dB@25KHz
4FSK modulation	≤5%	≤5%	≤5%
Audio Distortion	≤3%	≤3%	≤3%
Modulation frequency offset limitation	≤± 2.5KHz@12.5KHz, ≤± 5KHz@25KHz	≤± 2.5KHz@12.5KHz, ≤± 5KHz@25KHz	≤± 2.5KHz@12.5KHz, ≤± 5KHz@25KHz
audio response	+1/-3dB	+1/-3dB	+1/-3dB
Function			
Side button	3 keys	Side+top 4 keys	Side+top 4 keys
companding	have	not have	have
analog scrambler	Customizable	not have	have
MIC AGC	have	not have	have
DRC	have	not have	have
NR	have, Base NR	not have	have, Enhanced NR
contact list	500000	500000	500000
recording	digital and analog recording	Digital recording	digital and analog recording
APRS	no Analog APRS RX	Both sending and receiving are available	Both sending and receiving are available

GPS	NO	standard configuration	standard configuration
Cold start time	<60S	<60S	<60S
Hot start time	<10S	<10S	<10S
positioning accuracy	<5 meters	<5 meters	<5 meters
Bluetooth	No	standard configuration	standard configuration
Communication Distance	>10 meters	>10 meters	>10 meters
bluetooth specification	V2.1+EDR, BT5.0 (BLE)	V2.1+EDR, BT5.0 (BLE)	V2.1+EDR, BT5.0 (BLE)
TYPE-C charging	5V/2A input, output 8.4V/800mAh	Battery charging 5V/2A input, output 8.4V/650mAh	Battery charging 5V/2A input, output 8.4V/650mAh
Repeater Function			
digital U/V cross band	not have	not have	support
Single Frequency Repeater	not have	not have	support
Digital/analog cross mode repeater	not have	not have	support
Digital/analog dual receiver	not have	not have	support
Dual-mode receiver	not have	not have	support
MDC1200 transceiver	have	not have	have
multi language	not have	not have	have
Simplex frequency	not have	not have	have
Digital Duplex	not have	not have	have
Tx Interrupt	not have	not have	have
Satellite communication	have	have	have
RECEIVE MODE	Dual standby display,single receive	Dual standby display, single receive	Dual standby display Allows U/V analog dual receive, U/V digital-analog dual receive