

Straight-Talker D55

Administrative radios

D55 *StraightTalker* personal 2-way radios are especially designed for administrative users!

The radio of tomorrow is here today! The D55 *Straight-Talkers*!



There are some new radios in town that are perfect for administrative use. We call them D55 Straight-Talkers!

The perfect administrative radio

is the *D55 Straight-Talker*! This radio designed is from the ground up for administrative use, capable of operating in both analog and the world standard DMR digital modes.

In the digital mode, the D55 can communicate with all radios on the system, work groups, or even individuals, PRIVATELY!. On a single UHF channel, TWO separate work groups can communicate without interference to each other. Unlike most other radios of this type, the D55 can simultaneously scan and select both analog and digital channels

The D55 is the most powerful UHF radio in the world with FIVE watts of power, battery life of 12 to 18 hours between charges, and a full watt of audio (most other DMR radios have only a half watt of audio. At a glance, supervisory personnel can see who is talking to whom – a great management tool and administrators can talk in private, even send/receive limited text messages!

The D55 is the first of a new generation of airtime free personal radios for local area use on construction sites, hospitals, industrial plants and in particular, schools. When used in conjunction with our ultra compact and affordable D40 (more information at info4u.us/D40.pdf), you have the foundation for a totally integrated school safety system. Both radios have an emergency call ID button directly beneath the PTT Talk button. When pushed, an emergency alarm with unit identification is transmitted that can be read on the display of the D55.

The DeArmanville school in Oxford, AL is a pioneer user of this technology. Actually, they took things to a higher level by equipping all classroom teachers with emergency call buttons. Through the use of an *AlarmAlert* terminal, call button activations are converted to voice messages that can be heard on both D40 and D55 radios. More information is available at info4u.us/DeArmanville-Story.pdf.



Call anytime – 800.489.2611 or Email ServingU@The-Communicators.net

D55 SPECIFICATIONS

GENERAL

Model Number	D55
Band	UHF
Frequency	400-470MHz
High Power Output	5W
Low Power Output	1W
Channel Spacing	12.5/25KHz
Channel Capacity	1000
Zone Capacity	250
Dimensions (H×W×D)	115x56x29(mm)
Weight	266g
FCC Description	2ADQZTPD5X
Battery Life(5/5/90)	12Hrs @Analog; 18Hrs @Digital
Slim Battery 1650mAh	
Battery Life(5/5/90)	20Hrs @Analog; 30Hrs @Digital
High Capacity 3200mAh	
Operating Voltage	7.4V
Frequency Stability	±1.5ppm
Antenna Impedance	50Ω
Increased Capacity	2-slot time division multiple access in 12.5kHz channel

AUDIO

Digital Vocoder Type	AMBE++ or AMBE+2TM
Speaker	FST ND3662
Audio IC	ST TDA2822
Audio Response	+1~-3dB
Rated Audio Output	1W
Rated Audio Distortion	≤3%
FM Hum & Noise	12.5KHz @11K0F3E
Conducted Spurious Emission	< -57dBm

* Specifications subject to change without notice.

TRANSMITTER

Channel Spacing	12.5/25KHz
4FSK Digital Modulation	12.5KHz Data Only:7K60FXD; 12.5KHz Data & Voice: 7K60FXW
Digital Protocol	ETSI-TS102 361-1,2&3
Conducted/Radiated Emission	-36dBm <1GHz -30dBm >1GHz
Adjacent Channel Power	60dB @12.5KHz; 70dB @25KHz
Frequency Stability	± 0.5 ppm
Modulation Limiting	±2.5KHz @ 12.5KHz; ±5.0KHz @ 25KHz
FM Modulation(Analog Emissions Designator)	11K fF3E @ 12.5KHz; 16KfF3E @ 25KHz
FM Hum & Noise	12.5KHz @11K0F3E

RECEIVER

Sensitivity (Analog)	0.35μV/-116dBm (SINAD); 0.22μV/-120dBm (Typical)
Sensitivity (Digital)	0.35μV/-117dBm (SINAD); 0.22μV/-110dBm (Typical)
Intermodulation	70dB
Adjacent Channel Selectivity 1T	60 dB (12.5 kHz channel), 70 dB (25 kHz channel)
Adjacent Channel Selectivity 2T	60 dB (12.5 kHz channel), 70 dB (25 kHz channel)
Spurious Rejection	70dB

ENVIRONMENTAL

Operating Temperature	-10°C to 55°C
Storage Temperature	-40°C to 85°C
Operating Humidity	5% - 95% RH
Drop Resistance	2M(6') any orientation
Water Resistance	IP54

ACCESSORIES & SPECIAL PRODUCTS

Spare battery - \$29, - Gang charger (6 unit) - \$299

Audio accessories (speaker-microphones, etc) – See info4u.us/D-SeriesAudioAccys.pdf

Repeaters – See info4u.us/D-SeriesRepeaters.pdf

TeamBridge to connect with other systems – See info4u.us/TeamBridge.pdf

AlarmAlert emergency call button system – See info4u.us/AlarmAlert.pdf

For more information on how our products serve others to improve safety, efficiency, and save money, email ServingU@The-Communicators.net or just give us a call.



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