

Straight-Talker D50/D55

Rugged Radios

When you want a radio that works when needed, the only name you need to know is Straight-Talker!

The radio of tomorrow is here today! The Straight Talking D50 & D55!



The perfect radios for rough users

are the *D50 and D55 TeamTalkers!* These radios are well suited for outdoor use with a MIL-SPEC 810c/D/E/F/G rating and IP65 resistance rated for protection from dust and water. Both models are capable of operating in both analog and the world standard DMR digital modes.

In the digital mode, the D50 (near left) and the D55 (far left) 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 at the same time without interference to each other!

Both the D50 and the D55 are the most powerful UHF radios in the world with FIVE watts of power, a battery life of up to 18 hours between charges, and a full watt of audio (most other DMR digital radios have only a half watt of audio). At a glance, supervisory personnel with the D55 can see who is talking to whom – a great administrative tool!

Speaking of “audio”, if your folks are really hard on radios, we suggest adding an optional speaker microphone and carrying case to eliminate the potential of dropping. Prices on all our accessories are available at info4u.us/ttaccys.pdf. As for pricing on the radios, it is simply GREAT! The non-display D50 model is only \$199 including a 2-year next day exchange warranty or \$249 for the D55 display model.

On the subject of price, the real cost of any product is the cost of ownership which includes battery replacement, maintenance, and downtime. See info4u.us/tco.pdf for some interesting information. Speaking of information, the D50/55 radios use Lithium-Ion batteries. That’s a good thing – non-toxic materials, higher capacity and lighter weight. But there is one issue rarely addressed by other manufacturers – Li-Ion batteries can explode! The good news is that the D50/55 ultra smart charging system provides a unique safety feature. See info4u.us/batteryfacts.pdf for more information. There is much more we could say, but the best we can say is TRY A COUPLE at no charge or obligation! See info4u.us/tbyb.pdf for more information. You’ll be glad you did!



Call anytime – 205.854.2611 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 Ony: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

SPECIAL PRODUCTS

The D50 and D50 radios are a part of a family of radios that can address a variety of needs. For those wanting a smaller, less expensive radio; we offer the D40. For more information, see info4u.us/D40.pdf. If you need extended range in a large industrial plant, school, or even a golf course, take a look at the *X-Tender*. See info4u.us/X-Tender.pdf for additional information. If you need even more range in a large building, such as a hospital or large multi-building industrial complex, check out the *In-Sider* at info4u.us/In-Sider.pdf. And if you want to talk a REALLY long way (like across the nation) check out info4u.us/N55.pdf.



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