

# ***Straight-Talker D40*** for personal safety!

D40 *Straight-Talker* personal 2-way radios are especially designed to get help in a hurry when needed!

The radio of tomorrow is here today! The D40 *Straight-Talker*!



## **The perfect school radio .....**

The *D40 Straight-Talker* can keep your staff safe with efficient, reliable, and affordable personal communicators!

In the digital mode, the D40 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 D40 can simultaneously scan and select both analog and digital channels

The D40 is one of the most powerful UHF radios in the world with FIVE watts of power, a 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 the push of a button a predefined emergency text message can be instantly sent to D55 supervisory radios which can also monitor activity by remotely opening up the D40 microphone!

The D40 is fully compatible with our D55 administrative radio to provide enhanced safety to staff and teachers in trouble. Not only can the D40 be used for normal voice communications, the emergency call button feature is fully compatible with our *AlarmAlert* terminal which can send email and/or text messages to law enforcement and administrative personnel on their cell phones! Better yet, at the same time, a voice message is being sent to all other radios in the school (both D40's and D55's). You can learn more about how this system works at [info4u.us/BillKnows](http://info4u.us/BillKnows).

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](http://info4u.us/DeArmanville-Story.pdf).



Call anytime – 800.489.2611 or Email [ServingU@The-Communicators.net](mailto:ServingU@The-Communicators.net)

# D40 SPECIFICATIONS

## GENERAL

Model Number	D40
Band	UHF
Frequency	400-470MHz
High Power Output	5W
Low Power Output	1W
Channel Spacing	12.5/25KHz
Channel Capacity	48
Zone Capacity	3
Dimensions (H×W×D)	99x56x33(mm)
Weight	230g
FCC Description	2ADQZTPD5X
Battery Life(5/5/90)	12Hrs @Analog; 18Hrs @Digital
Standard Battery 1650	
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	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	< -57dBm
Emission	

\* 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	-36dBm<1GHz
Emission	-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	11K fF3E @ 12.5KHz;
Emissions Designator)	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)
Inter modulation	70dB
Adjacent Channel	60 dB (12.5 kHz channel),
Selectivity 1T	70 dB (25 kHz channel)
Adjacent Channel	60 dB (12.5 kHz channel),
Selectivity 2T	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

## Advanced Features

- Voice Announcement
- Intelligent Audio
- Acoustic Feedback Suppressor
- Microphone Distortion Control
- Trill Enhancement
- SINC+ Noise Cancellation
- Wide Range of Accessories
- Programmable Buttons
- Remote Monitor
- VOX Ready
- Multiple Scan
- Battery Saver
- Basic and Enhanced Privacy
- Digital Emergency
- Transmit Interrupt
- Emergency Search Tone
- Electronic Serial Number
- Battery status indicate
- Busy Channel Lockout
- Analog and Digital DMR
- Voice Record
- Radio on/off check
- Predefined Text
- Password protection

## ACCESSORIES & SPECIAL PRODUCTS

D-Series Repeaters – See [info4u.us/D-SeriesRepeaters.pdf](http://info4u.us/D-SeriesRepeaters.pdf)

TeamBridge to connect with other systems – See [info4u.us/TeamBridge.pdf](http://info4u.us/TeamBridge.pdf)

AlarmAlert emergency call button system – See [info4u.us/AlarmAlert.pdf](http://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](mailto:ServingU@The-Communicators.net) or just give us a call.



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