

A man with a beard, wearing a red and white plaid shirt under a dark blue quilted vest, stands in a field of tall, dry corn stalks. He is smiling and looking down at a tablet computer he is holding with both hands. The background is a dense field of golden-brown corn stalks under a bright sky. In the top right corner, there is a white rectangular area containing the text 'ALTRON' in a large, bold, blue sans-serif font, with 'NEXUS' in a smaller, blue sans-serif font directly below it. In the bottom left corner, there is a dark blue, semi-transparent rectangular area containing the text 'MD785 / MD785G' in a large, bold, white sans-serif font, with 'Digital mobile radios' in a smaller, white sans-serif font below it, separated by a vertical line.

ALTRON
NEXUS

MD785 / MD785G
| Digital mobile
radios



WELCOME TO THE MD785 / MD785G Digital Mobile Radio

We realise how important effective communication is when it comes to teamwork, safety and emergencies – especially in remote areas.

This pocket brochure includes all the information you need to operate the MD785 / MD785G.



FUNCTIONS

The MD785 / MD785G Digital Mobile Radio is packed with nifty features. Keep reading to find out more.

Optional analogue or digital operation

Versatile voice calls:

Individual call • Group call • Broadcast call
• Emergency call

GPS function (MD785G only):

Retrieve GPS position data • Send GPS text messages • Display distance and position of other GPS radios

Data services:

Text messages • Group text messages
• Control of the radio via API

Different analogue dialling methods:

HDC1200, DTMF, 2-tone and 5-tone dialling
• Quench procedure / tone call CTCSS / CDCSS

Supplementary services, radio check, remote monitor, call alert, radio disable/enable

Different menu languages available:

German • English • French • Spanish • Polish
• Italian • Russian • Turkish • Simplified and traditional Chinese • Korean

One-touch functions:

Text messages • Voice calls and supplementary services

Scanning:

Of analogue voice and signalling • Of digital voice and data • Mixed scanning of analogue and digital activities

Automatic cell re-selection (roaming) in IP multi-site systems

Analogue scrambling

Secure encryption with encryption algorithm:

ARC4 (40 bit) in accordance with DMRA or with optional algorithms AES128 and AES256 (128 and 256 bit)

Upgradeable software



HOW TO MAKE A CALL:

- ① Switch on the radio.
- ② Select the person or group you want to call by either using the contact list or group select knob.
- ③ Push the PTT button to open the call.
- ④ If a timer starts on the screen, the call has successfully opened. If there is an error message, see below for troubleshooting.
- ⑤ Push the PTT button to talk.
- ⑥ When you have stopped talking, depress the PTT button and wait for a response.
- ⑦ When you are done talking, press the call decline button.
- ⑧ Calls are limited to 1 min & 30 seconds per call, you will receive a warning tone 10 seconds before the call closes. To re-establish call, continue from step 2.

CHARACTERISTICS

Other than the outstanding functions, the MD785 / MD785G also boasts the following characteristics and additional services.

TELEMETRY

Allows the monitoring and control of external devices via the radio.

PRIORITY INTERRUPT

Send a priority transmission to interrupt other calls, ideal for important, critical messages.

INTELLIGENT AUDIO

Combining noise cancelling technology to remove nuisance noise from the transmission, delivering clear communications.

PRIORITY SCAN

Allows the radio to automatically scan and switch the user to receive a priority call if transmitted.

PSEUDO TRUNKING

Using pseudo-trunking, a Hytera patented technology, slots can be shared to improve capacity usage with transmissions either direct to device or to a repeater.

XPT

Hytera XPT (Extended Pseudo Trunking enables you to use limited spectrum resources more efficiently, dynamically assigning channel resource without needing a dedicated control channel.

LONE WORKER

The Lone Worker feature uses a timer in the radio to measure inactivity. If the timer expires, a warning is issued, and if there is no response to that, the alarm is triggered.

EMERGENCY MODE

Raise an alarm with top priority to a base station or to other radios with the pre-programmed emergency mode, identifying the ID of the person issuing the alarm.

GPS

(G) version only (via separate antenna), enabling location based services to improve safety and control.

SHOULD YOU BE UNABLE TO REACH A PARTY ON THE RADIO, LOOK FOR THE BELOW INDICATORS:

Out of Range – Radio is searching for network signal.

Called Party Busy – Radio called is currently on another call.

Queuing – Radio is in a queue awaiting an available channel.

Connection Fail – Radio you are trying to contact is not on the network or is out of range.

FOR NETWORK SUPPORT QUERIES:

We have a 24/7 NNOC manned by trained network operators. In order for us to best assist you, please have the following information available:

- Radio ID & Radio model
- Information on the exact nature of the fault you are experiencing
- Contact info for person at the radio

FOR MORE INFO, CONTACT:

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