

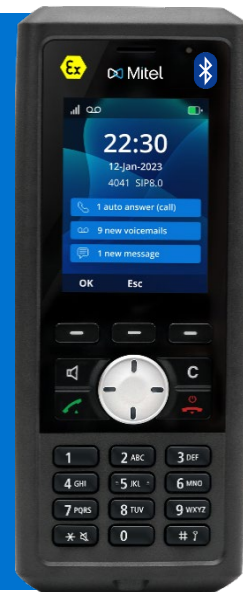
Mitel 742d DECT Handset



The intrinsically safe ATEX handset for use in hazardous environments

KEY FEATURES

- Large 2.4" TFT color LCD backlight display (240 x 320 pixels 64K)
- ATEX Zone 1 protection
- Shock proof
- Multi-function Alarm button
- Bluetooth 5.0
- Excellent battery capacity
- Battery Li-Ion 3.7 V 920 mAh
- USB Type-C charging port
- IP65 rating



Enjoy seamless connectivity in industrial and hazardous environments

The Mitel 742d DECT Handset is the ATEX level handset model in the new Mitel 700 SIP-DECT family. The naturally safe handset is perfectly suitable for potentially hazardous situations.

New Industrial Design

The 742d series comes with new fresh GUI design that includes a new color scheme, new icons, and new navigation, which is based on Mitel's vast experience from decades in the DECT handset market and from our end-customers feedback from various markets.

Designed for Your Business

The solid Mitel 742d is designed for use in potentially perilous working environments. The device satisfies industrial standard IP 65, and with its high level of dust protection and jet-water resistance, with built-in option to set coordinated personal and man-down/no-development caution alerts. Very easy to clean and compliant with high hygiene requirements, making it ideally suited for the healthcare sector. Mitel 742d is capable of withstanding fall heights of up to 2 meters onto concrete.

Handset Features

- High resolution 2.4-inch TFT color LCD backlight display (240 x 320 pixels 64K)
- Adjustable display brightness
- New fresh GUI design, that includes new color scheme, new icons and new navigation
- 4-way Navkey
- Directory with capacity for 200 contacts: with 8 possible entries each (office, private, and mobile number, email address, fax, quick dial, ringing tone, and name assignment)
- Up to 5 user profiles can be configured
- Different ring tones for: internal and external calls, messages, alarm and emergency calls
- 44 polyphone ring tones (Midi type), 29 normal ring tones and 7 alarm tones with automatic volume control
- Multifunctional alarm button
- Prioritized and color-coded messages
- Automatic and manual key lock (shortcut: pound)
- Handset lock option with 4-digit PIN
- Automatic answer when removed from the charger
- Caller list with 50 entries and redial list with 30 entries¹
- A modern USB-C
- Side buttons for Volume / Mute (vibrate for silent mode)
- USB Type-C charging port
- Display languages: Czech, Danish, Dutch, German, English, Finnish, French, Italian, Norwegian, Polish, Portuguese, Russian, Slovene, Spanish, Swedish, Turkish¹



The Mitel DECT solution

Mitel continues to lead the global DECT handset market by providing unique DECT solutions that deliver over-the-air synchronization, enhanced signal strength, advanced security protocols, HiQ audio quality. The new attractive handsets bring DECT mobile communications into the future with simplicity, elegance and durability.

ATEX Support

The 742d DECT handsets is certified for usage within hazardous areas and fulfils the latest US and European EX/ATEX guideline. Hazardous areas are typically found in the petrochemical, pharmaceutical and food processing industries, but also in aerospace, fuel handling and many other sectors.

Display

The new large 2.4" DECT handset display applies leading technologies characterized by exceptional performance, user-friendliness, high reliability and a compact format to deliver a new visual experience with DECT communication.

Audio

700d DECT series supports the 3.5 mm headphone jack to support most used headsets cords in the market. For handsfree mode, the handset now has a speaker and speaker grid on backside of the handset to provide excellent duplex audio speaker quality.

Bluetooth

The 742d DECT handsets now support Bluetooth® 5.0. Compared to BT 4.0 the coverage area has been multiplied by four. Bluetooth® 5.0 is twice as fast and more power efficient as it can utilize Bluetooth low energy for all compatible devices.

Alarm Handling

Alarm handling has become more important in businesses today, and therefore, the 742d is equipped with an alarm button. The additional emergency call key makes the Mitel 742d the ideal companion not just for security-related professions but also for hospitals and other vertical industries.

Sensor Alarm

With its integrated sensor alarm the phone is designed to protect vulnerable workers. When the "man-down" feature is activated, the phone automatically ascertains whether it is in a position that might indicate that the employee is in a dangerous situation – and, if necessary, sends an alarm to a preset number. An additional emergency call key makes the Mitel 742d the ideal companion not just for industrial professions, but also for hospitals and care facilities.

Charging

The new 700d DECT series can be charged from the desktop charger, rack charger or battery rack charger (that allows for quick replacement of battery). The handset now supports the USB-C to allow for the most common cord charge in market. Using the USB-C also follows the latest EU requirement for all new mobile devices.

Compatibility

The new 700d DECT series requires the latest Mitel SIP-DECT release and will work together with the existing 600d DECT handsets and Mitel SIP DECT base stations. Utilize your existing investment in Mitel infrastructure - No need to rip-and-replace.

Display

- Large 2.4", TFT color LCD backlight display
- Leverage liquid crystals aligned in parallel to produce rich colors
- Multiple colors with high resolution, 262 K individual colors 240 × 320 pixel LCD with white LED backlight

Audio and Codecs

- Loudspeaker:
Duplex loud speaking function
- Earpiece adjustable in 8 steps of 3dB each
- Voice codecs: G.722, G.726
- Ring signal:
Maximum sound level 100 dBA SPL @ 10 cm and adjustable in 8 steps

Connectors

- Multi-purpose connector:
 - » USB-C for fast software download, configuration and battery charging
 - » USB Type-C charging port to support the new EU regulations

DECT Standards

- Standards: DECT, GAP
- Supports DECT standard encryption
- DECT security certified

User Interaction

- Indicator:
Sound indicates incoming call/message and multicolor LED on top for visual indication of incoming call / message
- Vibration:
Incoming call/message.
Buttons & Keys:
3 soft keys, 4-way navigation key, off-hook key, on-hook and power on/off on the same key, numerical keys, sound off key, volume up/down, mute button, configurable buttons

Sensor Alarm

- Man-down and/or no-movement

Environmental

Temperature

- Operating temperature:
 - » -10°C to 45°C
- Storage temperature:
 - » -20°C to 60°C
- Charging temperature
 - » +5°C to 45°C

Environmental Test

- IEC 60068-2-70: Abrasion of markings and letterings caused by rubbing of fingers and hands
- Enclosure protection:
 - » IP65 dust-tight and water-resistant enclosure
- Free fall test (IEC 60068-2-31):
 - » up to 6.6 ft / 2 meter

- Immunity of electromagnetic fields:
 - » 3V/m (EN 61000-4-3)
- Immunity of ESD:
 - » 8 KV contact discharge and 15 kV air discharge (EN 61000-4-2)
- Climate stress:
Handset exposed to oleic acid

Battery

- Li-Ion 3.7 V 920 mA
- Easily replaceable battery
- Charge time: Less than 4 hours
- Discharge/charge cycles: 80% capacity left after 400 full charge/discharge cycles

Radio

Frequency Range

- 1880-1900 MHz
 - » Europe, Africa, Middle East, Australia, New Zealand and parts of Asia
- 1920-1930 MHz
 - » US
- 1906-1910 MHz
 - » Thailand
- 1910-1920 MHz
 - » Brazil
- 1910-1920 MHz
 - » Latin America

Other

- Modulation: GFSK
- Channel spacing: 1,728 MHz
- Antenna: Integral
- Sensitivity: -93dBm
- Maximum average power
 - » EU/LA/BR: 20 mW (G.722 double slot)
 - » US: 8 mW (G.722 double slot)

Bluetooth

- Bluetooth radio spectrum:
 - » ISM 2.4000-2.4835 GHz
- Output power:
 - » Class 2, maximum 4 dBm

Bluetooth Compliance

- European Union:
 - » EN 300328, EN 301489-17
- Australian and New Zealand:
 - » EN 300328, EN 301489-17,
 - » AUS/NZS-4771

Safety

- European and UK:
 - » EN 62368-1
- USA:
 - » UL 62368-1
- Canada:
 - » CSA 60950-1,
 - » CAN/CSA-C22.2 NO. 62368-1

European and UK Regulations

- European Union:
 - » 2014/53/EU (RED)
 - » 2015/863 (RoHS3) amending directive 2011/65/EU
 - » 22012/19/EU (WEEE)
 - » 94/62/EC with amendmen2015/720 (Packaging and packaging waste)
 - » 22006/66/EC (Battery Directive)
 - » Regulation 1907/2006 (REACH)
- UK:
 - » FCC Part 15D
 - » FCC Part 15B

EMC/Radio

- European Union and UK:
 - » EN 301489-6
 - » EN 301489-1
 - » EN 301406 (Radio)
- USA:
 - » FCC Part 15D
 - » FCC Part 15B
 - » FCC Part 15 C (Bluetooth)
- Canada
 - » RSS-213
 - » RSS-247 (Bluetooth)
- Australian and New Zealand
 - » Radiocommunications Act 1992
 - » Telecommunications Act 1997

Product Marking

- European Union:
 - » CE
 - » UK Conformity Assessed
 - » WEEE 2002/96/EC
- USA:
 - » CSA
 - » FCC ID:BXZDH9
 - » HAC
- Canada
 - » CSA
 - » IC: 3724B-DH9
- Australian and New Zealand
 - » R-NZ

Other

- Weight: 191 g / 6.7 oz (incl. clip)
- Size (l x w x d): 152 x 62 x 25 mm / 6 x 2.4 x 1 in (excl. clip)
- MicroSD card interface
- Material: PC, Keypad: coated vulcanized silicone, Clip: PA
- Clip: Hinge-type

Accessories

- Mitel 700d Desktop Charger
- Mitel 700d Battery Rack Charger
- Mitel 700d Charger Rack (Set)
- Security Chain
- Carrying Case
- Mitel 742d Battery Pack
- Mitel 742d Security/Swivel Clip
- Mitel 742d Basic Clip
- Silicon Case