UNIVERGE® MH150 and MH160
Mobile Handsets

UNIVERGE MH150 and MH160 Mobile Handsets significantly improve a user's productivity and responsiveness by always being accessible to customers and colleagues

At a Glance

- Keeps employees connected while on the go
- Increases employee efficiency and productivity
- Offers enterprise-grade wireless telephony
- Reduces costs through simplified management
- Integrates with third-party applications

Overview

Mobile handsets can be a huge asset to employees on the go, but if the handsets do not offer full access to all the features and functionality of a desktop phone, it can hinder productivity.

With UNIVERGE MH150 and MH160 Mobile Handset's seamless integration with NEC's UNIVERGE IP communications systems, employees have full access to the features they require. These mobile handsets significantly improve a user's productivity and responsiveness by providing them with the ability to roam from one business area to another and always being accessible to customers and colleagues.

Solution

Taking Wi-Fi to a New Level

The NEC MH150 and MH160 Mobile Handsets extend NEC's tradition of offering the industry's highest performing handsets for the Enterprise. These stylish handsets combine an easy-to-use, lightweight design with enhanced durability for employees constantly on the move. They use advanced technologies including 802.11a/b/g (Wi-Fi) network support, extended battery life and a high-resolution display to take Wi-Fi telephony to a new level.

Perfect for Round-the-Clock Use

Whether deployed as a personal handset or a shared device across multiple shifts, these terminals are the right choice for enterprise-grade wireless telephony. Personalization options include selectable ringing profiles, personal directory, redial list and a speed-dial list to keep frequently dialed numbers readily available. For shared-use environments, multiple charging and battery options make NEC's MH150 and MH160 Mobile Handsets ideal for 24-hour operation.

Secure, Reliable Wireless You Can Trust

These handsets are easy to set up and use, and they are so durable that they are resistant to dust, shock and liquid damage. Combined with WLAN Voice Gateways with self-healing firmware, the MH150 and MH160 Mobile Handsets offer the best in security measures, including WEP, WPA and WPA2 protocols as well as Quality of Service (QoS) .

Using the Wi-Fi Alliance's Wireless Multimedia (WMM™) QoS standard, the MH150 and MH160 Mobile Handsets provide enterprise-level security and quality voice. WMM prioritizes traffic (voice, video and data) and optimizes the way the network allocates bandwidth – ensuring call continuity for all users.

MH150 Mobile Handset

NEC's MH150 Mobile Handset is designed for users across a wide range of industries. With its lightweight yet rugged design and extensive feature support, it exceeds the requirements of general office and management staff while providing a reliable option for front-line personnel in high-use environments.

MH160 Mobile Handset

The MH160 Mobile Handset adds NEC's unique push-to-talk (PTT) capability to the extensive feature set offered by the MH150. This PTT capability lets users communicate instantaneously, which is a specific need of many distributed work teams that require frequent communication.

Cost Reduction through Integration

Unified management of these devices and their use of the same converged enterprise voice and data infrastructure reduces your capitalized costs. Their integration with a broad range of enterprise applications and networks enables them to deliver the richest possible functionality while significantly improving employee accessibility, productivity and responsiveness. Advanced features are also delivered through their seamless integration with the UNIVERGE IP communications systems.

A No Compromise Solution

Having a high-quality voice application is not just a basic requirement – it's mission-critical. The MH150 and MH160 deliver a no-compromise voice quality solution, sharing the network bandwidth with the enterprise's data applications, but managing the bandwidth so that calls get the voice quality they require no matter what other demands are placed on the network. It manages the bandwidth to ensure voice quality is always prioritized to be the best available.

Integration with Third-party Applications

Communication between the MH150 and MH160 Mobile Handsets and third-party applications is enabled via the Open Application Interface (OAI) Gateway. The OAI's protocol enables third-party applications to write and control the user's display, and perform basic call control such as going off hook and dialing digits. This unique two-way functionality enables mobile users to rapidly respond to non-voice messages with systems such as nurse call, HVAC and CRM tools, thereby reducing decision-making time and increasing productivity throughout the workplace.

Features and Specifications

Features

- Seamless integration with NEC's UNIVERGE communications systems
  - UNIVERGE Sphericall, UNIVERGE SV8500 and UNIVERGE SV8300
- Personal directory, call history and speed-dial lists
- 802.11a/b/g (Wi-Fi) compatible
- Resistant to dust, shock and liquid damage
- Industry Standard SIP and NEC SIP extensions
- Five user-selectable profiles
- Text messaging support via OAI
- Icon-based status indicators
- Simple management and configuration via handset administration software
- PTT mode with 24 channels plus one priority override (MH160 only)
- Audible and vibrating ringers
- Softkey feature access
- Integrated speakerphone
- Standard and extended-life battery options
- Lightweight, ergonomic design
- Single, dual and quad charging options

Specifications

Wireless Interfaces:	2.4 - 2.4835 GHz (802.11b, 802.11g) & 5.15 - 5.825 GHz (802.11a varies by country)
Voice Codec:	G.711, G.729a, Payload Cycle: 20ms, 30ms, 40ms
Control Protocols:	SIP (RFC3261) + NEC SIP Extension
Security (Authorization & Encryption):	WPA & WPA2 with Pre-Shared Key (PSK)/Standard WEP 40-bit and 128-bit
MH150 Display:	LCD, Monochrome (graphical type) 102 x 65 pixels
MH160 Display:	LCD, Monochrome (graphical type) 128 x 96 backlit display with icons and line- status indicators
Language:	English
Ringers:	Melody: 3 patterns, Sound: 3 patterns, 5 level tones
Transmit Power:	100 mW max (adjustable), < 10 mW average
Wireless QoS:	WLAN Voice Gateway (with SVP for QoS), Wi-Fi Standard QoS; including WMM Power Save and WMM Admission Control
MH150 Dimensions:	5.4" x 2.0" x 0.9"
MH160 Dimensions:	5.7" x 2.2" x 0.9"
Weight:	3.9 - 4.8 ounces (depending on handset and Battery)
Battery:	Lithium Ion
Talk Time & Standby Time:	Standard – 4 hours talk time, 80 hours standby Extended – 6 hours talk time, 120 hours standby Ultra-Extended – 8 hours talk time, 160 hours standby
Headset Jack:	2.5 mm
Durability:	IP 53 certified for resistance to dust MIL 810F Proc IV 516.5 for shock resistance
Environment:	Temperature: 0°–40° C, Humidity: 20–90%

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