

# VLH 102

VOICELIFT® HANDHELD  
MICROPHONE

- ▶ Rechargeable 2500 mAh NiMH AA battery included; also supports a standard alkaline AA battery
- ▶ Durable polycarbonate design to withstand classroom use
- ▶ Easy to hold lightweight microphone with anti-roll collar
- ▶ On/Off/Mute switch for easy operation
- ▶ 3.5 mm mini audio input jack to connect auxiliary equipment to the sound system



The Extron VLH 102 Handheld Microphone is an infrared wireless microphone designed for use with Extron VoiceLift® classroom sound field systems. The VLH 102 is ideal for student use and for other applications that require a pass around microphone, such as team teaching and guest speakers.



**Extron® Electronics**  
INTERFACING, SWITCHING AND CONTROL

## DESCRIPTION

The Extron **VLH 102** Handheld Microphone is an infrared wireless microphone with a durable polycarbonate enclosure for use with Extron VoiceLift® classroom sound field systems. The easy-to-hold lightweight microphone features an anti-roll collar to keep it from rolling off flat surfaces and helps prevent the IR emitters from being blocked during use. The VLH 102 is ideal for use as a pass around microphone for student presentations or a secondary microphone for team teaching and guest speakers.

Additional features include an On/Off/Mute switch to silence the microphone for private conversations or when not in use and an auxiliary input jack to allow playback from audio devices like MP3 players through the system. The microphone includes a single, AA-sized, long life rechargeable battery that provides 8 hours of talk time. The battery can be conveniently recharged in the microphone using an external charger or the VLC 202 Desktop Charging Station.

The presenter's voice is picked up by the microphone and transmitted wirelessly to an IR receiver mounted on the ceiling or wall. The signal is then passed to an Extron PoleVault Switcher where it is amplified and distributed to speakers placed throughout the classroom. This creates what is called a sound field that enables the user's voice to be heard clearly throughout the room. Infrared signals do not pass through walls and are not subject to interference, offering clear advantages over systems that use radio frequency technology. Up to two microphones can be supported per classroom, promoting student participation and team teaching.

## FEATURES

- ▶ **Handheld infrared wireless microphone** – Ideal for use as a pass around microphone for student participation or team teaching
- ▶ **Durable polycarbonate design** – The enclosure is designed to withstand the rigors of daily student use and keep replacement costs down
- ▶ **Integrated anti-roll collar** – Ensures microphone will not roll off a flat surface and helps prevent the IR emitters from being blocked during use
- ▶ **On/Off/Mute switch** – Easy to activate while preventing accidental muting
- ▶ **Auxiliary 3.5 mm mini audio input jack** – Provides connection for unbalanced stereo audio devices, such as an iPod or MP3 player
- ▶ **Rechargeable 2500 mAh NiMH AA battery included; also supports a standard alkaline AA battery** – Long life battery provides eight hours of talk time on a single charge; enough for an entire school day before recharging

## SPECIFICATIONS

| AUDIO/ACOUSTIC AND ELECTRICAL            |  |                    |
|--|--|--------------------|
| <b>Microphone type</b>                   | Omnidirectional electret condenser   |                    |
| <b>Microphone gain</b>                   | -6 dB to +6 dB, adjustable in 1 dB steps   |                    |
| AUDIO INPUT                              |  |                    |
| <b>Number/signal type</b>                | 1 mono, via integrated electret condenser microphone<br>1 stereo, unbalanced, via auxiliary line input jack, mixed with microphone input   |                    |
| <b>Connectors</b>                        | (1) 3.5 mm mini audio jack (tip = left, ring = right, sleeve = GND) for auxiliary line input (Audio In)                                    |                    |
| IR TRANSMITTER (MICROPHONE TRANSMISSION) |  |                    |
| <b>Signal type</b>                       | Infrared output  |                    |
| <b>Carrier frequencies</b>               | A: 2.3 MHz (selectable)<br>B: 2.8 MHz (selectable)   |                    |
| <b>Operating range</b>                   | 40' (12.2 m) line of sight   |                    |
| <b>Transmission angles</b>               | 360° horizontally and 60° vertically   |                    |
| GENERAL                                  |  |                    |
| <b>Power</b>                             | Supplied by an internal battery  |                    |
| <b>Charger requirements</b>              | +5 VDC, 0.5 A on a 3.5 mm o.d. DC power jack, center pin positive  |                    |
| <b>Batteries</b>                         | 1 AA size NiMH or alkaline battery   |                    |
| Number/type                              | Rechargeable 2500 mAh NiMH batteries: up to 13 hours, continuous use<br>Alkaline batteries: up to 10 hours, continuous use                 |                    |
| Operating time (h:mm)                    | 5 hours for a 2500 mAh NiMH battery  |                    |
| Recharging time                          | 5 hours for a 2500 mAh NiMH battery  |                    |
| <b>Temperature/humidity</b>              | Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing<br>Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing |                    |
| <b>Cooling</b>                           | Convection, no vents   |                    |
| <b>Enclosure type</b>                    | High impact plastic  |                    |
| <b>Enclosure dimensions</b>              | 8.1" H x 1.9" diameter (max)<br>(20.6 cm H x 4.8 cm diameter [max])  |                    |
| <b>Product weight</b>                    | 4.2 oz (120 g) without battery<br>5.2 oz (150 g) with battery  |                    |
| <b>Shipping weight</b>                   | 1 lb (<1 kg)   |                    |
| <b>Vibration</b>                         | ISTA 1A in carton (International Safe Transit Association)   |                    |
| <b>Regulatory compliance</b>             | FCC class B<br>Complies with the appropriate requirements of RoHS and WEEE.  |                    |
| EMI/EMC                                  | Section 508 of the Rehabilitation Act (29 U.S.C. 794d)   |                    |
| Environmental                            | 30,000 hours   |                    |
| Accessibility                            | 3 years parts and labor  |                    |
| <b>MTBF</b>                              | 90 days  |                    |
| <b>Warranty</b>                          |  |                    |
| Product                                  | 3 years parts and labor  |                    |
| Microphone battery                       | 90 days  |                    |
| <b>Model</b>                             | <b>Version Description</b>   | <b>Part number</b> |
| VLH 102                                  | Handheld Mic for VoiceLift Systems   | 60-937-01          |

For complete specifications, please go to [www.extron.com](http://www.extron.com)  
Specifications are subject to change without notice.



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