



UHF-16 16 CHANNEL UHF PLL SYNTHESIZED WIRELESS MICROPHONE SYSTEM

The UHF-16 is the latest generation of UHF synthesized units from Nady, pioneers of this wireless mic technology since 1991. The UHF-16 offers the superior performance, convenience and operational advantages of a top frequency-agile UHF wireless system at an amazingly affordable price. Representing a major breakthrough in both price & performance, the UHF-16 offers the best value available today in multi-channel UHF wireless systems. The UHF-16 delivers 16 user selectable channels in the uncluttered wide-open UHF band, and is loaded with all the features of systems costing several times more.



- Unsurpassed UHF performance with 120 dB dynamic range and operation up to 500 feet line-of-sight
- Rugged half-rack UHF 16 receiver with dual removable antennas (for convenient optional remote placement), 16 user switchable UHF frequencies and DigiTRU Diversity™ proprietary digital processing circuitry for eliminating dropouts and maximizing range
- Sophisticated IF filtering for multiple UHF 16 system operation in the same location simultaneously
- User-selectable Tone Squelch™ for protection from RF interference
- Front panel back-lit LCD display indicates the channel/frequency selected, received RF and AF levels, A/B diversity status, and transmitter low-battery alert
- Convenient UP/DOWN buttons for easy operating channel selection.
- Front panel ON/OFF button (with Power On LED indicator), Squelch (mute) adjust and Volume control for ease of operation
- Back panel balanced XLR fixed mic level and adjustable unbalanced 1/4" jack audio outputs, and BNC jacks for dual antennas
- Externally powered with 12 VDC (500 mA) AC adapter
- Optional rack kits enable single or side-by-side rack mounting.



- Choice of transmitters: UH-16 handheld or UB-16 bodypack, both 16-channel selectable
- UH-16 and UB-16 both operate on 2 AA batteries for the longest reliable and economical battery life.
- UH-16 handheld is a sleek, durable unit with internal antenna (with no archaic, unattractive antenna protrusion) and the superior Nady DM-10D neodymium dynamic cartridge for clear, powerful audio, maximum feedback rejection, and minimal handling noise.
- UB-16 bodypack is a versatile unit with unique 3-way input switch allowing it operation selectively as an instrument, lavalier mic, or headworn mic transmitter (with convenient DC phantom powering in the mic settings for condensers). An input level control allows optional audio gain adjustment, and a locking 3.5 mm jack provides secure connection to the instrument cable, lavalier or headworn mic cord.
- Both the UH-16 and UB-16 transmitters feature OFF/STANDBY/On controls, low battery LED indicators, and offer easy channel selection via UP/DOWN buttons and a 2-segment LED Channel display.

SPECIFICATIONS

Operating Frequency Range: 16 channels switchable in pre-programmed bands up to 20 MHz wide in the 726-863 MHz range (country dependent)

Freq. Synthesized: PLL system with frequency stability <0.005%

Frequency Response: 30HZ-15KHZ±3 dB

Dynamic Range: 120 dB

Harmonic Distortions: <0.5%

Modulation: FM±100KHz

Operating Range: 250 feet typical (depending on site conditions) - up to 500+ feet optimum line of sight

RECEIVER SPECIFICATIONS

Receiving System: Dual conversion superheterodyne

Sensitivity: -107 dBm, nominal

Selectivity: 60 dB nominal ± 75 kHz offset

Image Rejection: -70 dB, minimum

Spurious Rejection: 65 dB, nominal

Mute Threshold: -90dBm

Audio Output Level: Unbalanced output: 225mV at ±45 kHz

Mic Level Balanced Output: 24 mV at ± 25 kHz

Audio Output Impedance: Balanced and unbalanced: both 600 ohms

Controls: Power On/Off switch, Level control, Up/Down Channel select button, Squelch (RF mute) adjust

LED Indicators: Power on, Mute on

LCD Display: Single backlit LCD panel indicating channel/frequency selected, received AF and RF level, A/B diversity status, and transmitter low battery alert

Power Requirements: AC-DC adapter, 12VDC@200mA, 115/230VAC

Antenna: 1/4 wavelength rubber ducky or external remote (BNC)

Dimensions: 1.7" x 7.5" x 8.9" (43x190x226mm)

Weight: 1lb, 14oz (.9kg)

TRANSMITTER SPECIFICATIONS

Models Available: UH-16 handheld mic, UB-16 bodypack with 3-way input select switch for: lavalier, head mic, or music instrument

RF Output Power: 1mW-50 mW max (country and band dependent)

Harmonic and Spurious Emissions: - 50 dB

Audio Input Level with ± 45 kHz nom. deviation:

UH-16: 24mV RMS (nom.)
UB-16: 225mV(Instr.), 150mV(HM), 75 mV(Lav)

Input Impedance:

UH-16: 10KOhms
UB-16: 200Kohm(Instr.), 10Kohms(Lav), 20Kohms(HM)

Controls:

UH-16: Xmtr. Off/Mute/On switch, Channel select Up/Down buttons

LED Indicator:

Unit "ON" (single flash), Low Battery Alert (steady), Selected Channel Display

Connectors:

UH-16: None

Antenna Type:

UB-16: Locking 3.5mm mini jack
UH-16: Integral

Battery Type:

UB-16: External 1/4-wavelength rubber duckie
2 X AA alkaline

Battery Life:

8 hours nominal

Dimensions:

UH-16: 8.75" x 1.4" (222 x 36mm)

Weight (w/batteries):

UB-16: 4.0" x 2.39" x 0.9" (102 x 61 x 23mm)
UH-16: 6.9oz (193g)
UB-16: 3.2oz(89g)

