

# N/DYM SCU UHF Wireless Receiver



N / D Y M °  
W I R E L E S S

## General Product Description

The N/DYM SCU is a 10-channel frequency agile wireless system which provides professional-quality performance at a truly amazing price. N/DYM wireless also features the latest in wireless technical innovations – **ClearScan™** auto channel select. **ClearScan™** greatly simplifies system setup by automatically scanning and selecting a clear channel for trouble-free operation. The SCU Receiver features detachable rear-panel mount antennas, front panel RF and Audio level displays, an all metal case, and rack mount hardware is included.



## Key Features/Benefits

- 10 channel UHF frequency agility for professional quality performance in any situation.
- **ClearScan™ Auto Channel Select**, which auto-matically scans and selects a clear channel for effective and quick system set-up and operation.
- Detachable rear mount antennas
- Rack mount hardware included
- RF and Audio level metering
- Rugged and durable metal receiver housing
- Secure-Phase™ diversity for clear and drop-out free system performance.
- SCU Receiver works with all N/DYM transmitters. Handheld transmitters offer a choice of EV's famous N/DYM elements: the 767a, 267a or the 167.

## Components Available

### Receivers

NRSCU N/DYM SCU receiver

### Handheld Transmitters

NHTU-N7 767a handheld transmitter  
NHTU-N2 267a handheld transmitter  
NHTU-N1 167a handheld transmitter

### Bodypack Transmitters

NBPU Bodypack transmitter (without mic)

### Systems

NRSCU-N7 SCU receiver and 767a handheld  
NRSCU-L12 SCU receiver and bodypack w/omni lav mic  
NRSCU-BP SCU receiver and bodypack w/no mic  
NRSCU-Combo SCU receiver, 767a handheld, bodypack w/omni lav mic

## FCC Information

The EV Models **NBPU**, **NBPU-G**, **NHTU-N1**, **NHTU-N2** and **NHTU-N7** transmitters are type-accepted under United States Federal Communications Commission Part 74H. The EV Models **NRU** and **NRU-G** receivers are authorized by Declaration of Conformity under the Part 15.101 of the Federal Communications Commission. Licensing of EV equipment is the user's responsibility and license eligibility depends on upon the user's classification and frequency selected. EV urges the user to contact the appropriate telecommunications authority before ordering frequencies other than factory preset frequencies.

**CAUTION:** Changes or modifications made by the user could void the user's authority to operate the equipment.

## FCC Data:

NBPU FCC ID .....B5DB112  
NHTU FCC ID.....B5DH214

## Industry Canada Information

**CAUTION:** Changes or modifications made by the user could void the user's authority to operate the equipment.

*Operation of this device is subject to the following two conditions:*

1. This device may not cause interference,  
**and**
2. This device must accept any interference, including interference which may cause undesired operation of the device.

# N/DYM SCU UHF

## Wireless Receiver

### Specifications

<b>Operating Frequencies</b>	
Channel 54 (Switch Pos./Freq., MHz)	A Band: 710-722 MHz (UHF channels 54 & 55) 0/710.500, 1/712.300, 2/713.450, 9/714.250, 3/715.450
Channel 55 (Switch Pos./Freq., MHz)	5/716.550, 6/718.050, 7/719.300, 4/720.150, 8/721.400
Channel 56 (Switch Pos./Freq., MHz)	B Band: 722-734 MHz (UHF channels 56 & 57) 0/722.550, 1/724.350, 2/725.500, 3/727.500, 4/732.200
Channel 57 (Switch Pos./Freq., MHz)	5/728.550, 6/730.050, 7/731.300, 8/733.300, 9/726.350
<b>Number of Selectable Channels</b>	10
<b>Diversity</b>	True diversity with Secure-Phase™
<b>RF Sensitivity</b>	<0.8 µV for 12 dB SINAD
<b>FCC Data</b>	Approved under part 15
<b>Audio</b>	
Frequency Response	50-15,000 Hz ±2 dB
Audio Output, Balanced (XLR)	-20 dBV (600-ohm load)
Distortion	Less than 0.5%
Signal/Noise Ratio	≥94 dB
Dynamic Range	100 dB
<b>Simultaneous System Operation</b>	7 with 5 B band and 2 A band, 5 - within one frequency band

### Receivers: NRSCU

<b>Controls</b>	
Front Panel	Channel-set button: increments channel setting by one; also used to activate ClearScan™ and channel-change lockout Squelch adjust
Rear Panel	
<b>Antennas</b>	
	¼-wave, detachable on rear panel. Note: (remote antennas and antenna splitters can be used with this product)
<b>Displays/Indicators</b>	
	Channel set: seven-segment LCD Diversity LED's: A or B lights to indicate when diversity circuitry switches from one antenna to the other. Tx On LED: lights when carrier signal is present. RF Signal Strength: 4 segment LED lights to show strength of received RF signal. Audio Signal Strength: 4 segment LED lights to show audio signal amplitude

<b>Receiver Type</b>	Synthesized PLL
<b>Size (receiver housing)</b>	190 mm (7.5 in.) x 145 mm (5.75 in.) x 43 mm (1.7 in.)

### UHF Transmitters: NBPU, NHTU-N7, NHTU-N2, NHTU-N1

<b>Radiated RF Output</b>	10-15 mW typical
<b>Adjustments and Controls</b>	
	On/off switch Audio mute switch Audio gain pot with 40-dB adjustment range Rotary channel switch
<b>Displays/Indicators</b>	
	Power on/low battery LED (red LED flashes upon turn on; LED stays lit when low-battery voltage impacts system performance).
<b>Battery Life</b>	8-10 hours with 9-Volt alkaline
<b>Bodypack Antenna</b>	Flexible external ¼-wave
<b>Handheld Microphone Antenna</b>	Internal ½-wave
<b>TA4F Connector Wiring (on bodypack only)</b>	Pin 1: ground; Pin 2: mic input; Pin 3: +5-Volt bias; Pin 4: +5-Volt bias fed through a 3,000-ohm resistor for two-wire electret mics
<b>Size (handheld transmitter)</b>	273 mm (10.75 in.) long
<b>Size (bodypack transmitter) (hwd)</b>	114 mm (4.5 in.) x 66 mm (2.6 in.) x 32 mm (1.25 in.) (no antenna)

### Handheld Transmitter Microphone Elements:

NHTU-N7	N/D 767a dynamic cardioid
NHTU-N2	N/D 267a dynamic cardioid
NHTU-N1	N/D 167 dynamic cardioid

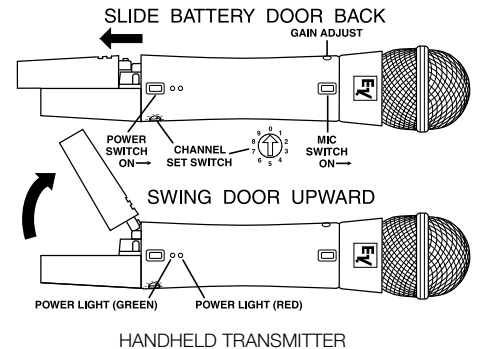
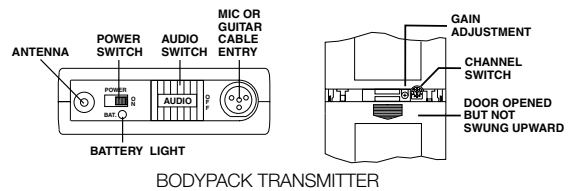
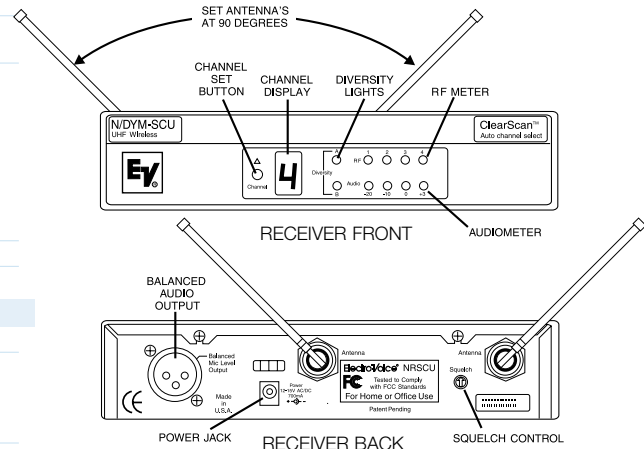
### Bodypack Transmitter Microphone Elements:

Can be used with any compatible microphone elements. See above for TA4F Pin-out wiring.

### Accessories & Parts

#### Order #: Description

RM-S (71081-001)	Rack-mount kit – single
RM-D (71081-002)	Rack-mount kit – double
OLM-10	Omnidirectional lavalier mic with windscreen and clip
ULM-20	Unidirectional lavalier mic with windscreen and clip
HM-2	Unidirectional headset condenser mic
450563	Windscreen for OLM-10
300059000	Clip for OLM-10
879155	ULM-20 windscreen
879156	ULM-20 clip
450131	Plastic clip for bodypack
450124	Spring-adjusted mic stand adapter
730139	120-Volt power supply (US/Canada-type)
730140	230-Volt power supply (European-type)
730141	230-Volt power supply (UK-type)
MSSA	Deluxe handheld mic stand adapter



**Electro-Voice®**

<b>USA</b>	12000 Portland Ave South, Burnsville, MN 55337, Phone: 952-884-4051, FAX: 952-884-0043
<b>Canada</b>	705 Progress Avenue, Unit 46, Scarborough, Ontario, Canada, M1H2X1, Phone: 416-431-4975, 800-881-1685, FAX: 416-431-4588
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<b>France</b>	Parc de Courcier, Allée Lech Walesa, Lognes, 77185 Marne La Vallée, France, Phone: 33/1-6480-0090, FAX: 33/1-6480-4538
<b>Australia</b>	Unit 23, Block C, Slough Business Park, Slough Avenue, Silverwater, N.S.W. 2128, Australia, Phone: 61/2-9648-3455, FAX: 61/2-9648-5585
<b>Hong Kong</b>	Unit E & F, 21/F, Luk Hop Industrial Bldg., 8 Luk Hop St., San PO Kong, Kowloon, Hong Kong, Phone: 852-2351-3628, FAX: 852-2351-3329
<b>Japan</b>	5-3-8 Funabashi, Setagaya-ku, Tokyo, Japan 156-0055, Phone: (81) 3-5316-5020, Fax: (81) 3-5316-5031
<b>Singapore</b>	3015A Ubi Rd 1, 05-10, Kampong Ubi Industrial Estate, Singapore 408705, Phone: 65-746-8760, FAX: 65-746-1206
<b>Mexico</b>	Av. Parque Chapultepec #66-201, Col. El. Parque Edo. Mex. 53390, Phone: (52) 5358-5434, FAX: (52) 5358-5588
<b>UK</b>	4, The Willows Centre, Willow Lane, Mitcham, Surrey CR4 4NX, UK, Phone: 44 181 640 9600, FAX: 44 181 646 7084
<b>Africa, Mid-East</b>	12000 Portland Ave South, Burnsville, MN 55337, Phone: 952-887-7424, FAX: 952-887-9212
<b>Latin America</b>	12000 Portland Ave South, Burnsville, MN 55337, Phone: 952-887-7491, FAX: 952-887-9212

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For warranty repair or service information, contact the Service Repair department at 800/685-2606  
For technical assistance, contact Technical Support at 800/392-3497  
Please refer to the Engineering Data Sheet for warranty information.  
Specifications subject to change without notice.