



For Sound Learning



Quantum II is a completely self contained sound system for use in the classroom or similar environment. It is equipped with a powerful 30 Watt amplifier and two infrared receivers to facilitate simultaneous use of two wireless microphones. In addition, it features an auxiliary line level input, vocal clarity control and a variable line level output.



- Two channel infrared receiver for simultaneous use of two infrared wireless microphones
- Auxiliary line level input for DVD, computer, video projector, VCR, iPod<sup>®</sup>, or other media device
- Efficient full range speaker
- Two external sensor inputs for additional infrared coverage
- External speaker output  $(8\Omega)$  for companion speaker
- Aluminum enclosure for enhanced sound quality
- RoHS compliant



## **Easy Access Front Panel Controls and Inputs**

- Two volume controls for two IR channels
- Tone control for improved vocal clarity
- Line level input for an auxiliary device
- Volume control for the auxiliary input
- Line output for an Assistive Listening System
- Line output control to match the ALS input

## Easy Installation

## Free Stance in Room or Mobile Use

- Mount column onto speaker stand (SS-350)
- Position system anywhere in room
- Install and plug in power supply
- Turn "on" and commence operation

## Speaker Stand (SS-350)

Folding stand for mobile application. Can extend to  $4 \frac{1}{2}$  ft. high and collapse to  $20^{\circ} \times 4^{\circ}$ .

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## Wall Mount Installation

- Install wall mount bracket (included)
- Mount power supply onto bracket
- Install into bracket
- Plug in power supply
- Turn "on" and commence operation

# Companion Speaker ► (UQS-301)

The UQS-301 will distribute the sound more evenly throughout the listening area. Includes bracket and 25 ft. of cable.







The LM-300 plugs directly into the top of the Pendant and Body-Pack transmitter. Its uni-directional pickup pattern extends its sensitivity and renders excellent vocal reproduction.

Microphone

Transmitter

(IRH-30)

Body-Pack

Transmitter

(IRB-30)

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## Drop-In Charger for Handheld (IRH-30) and Body-Pack (IRB-30)

- Convenient drop-in insertion
- Positive battery contact
- Optimum charge rate for NiMH battery.
- Charging mode indicator Red LED.
- Full charge indicator Green LED
- Recycle function extend battery life
- Auto protect to prevent charging non-rechargeable batteries
- Full charge maintenance

## Handheld Microphone Transmitter (IRH-30)

- Transmitter with dynamic mic element.
- Ten high powered emitting diodes.
- Power on / off switch.
- Rechargeable NiMH batteries.
- Battery level indicator LED
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## Body-Pack Transmitter (IRB-30)

- Ten high powered emitting diodes
- 180° high level infrared transmission for reliable performance.
- Volume control for mic
- Power on/off switch
- External mic input, 3.5mm

## **Quantum II System Models:**

- IRQ 3000 Column sound system with *Body-Pack* transmitter (IRB-30) with choice of microphone (C) collar, (H) headband, (L) lapel, (P) plug-in, or (U) ultralite (additional cost), boom microphone, rechargeable batteries (NiMH-Duracell), and drop-in battery charger (BRC-30)
- IRQ 3100 Column sound system with *Pendant* transmitter (IRT-89) including plug-in microphone (LM-300), rechargeable batteries (NiMH-Duracell), and drop-in battery charger (BRC-101)
- IRQ 3500 Column sound system with *Handheld* (IRH-30) and *Body-Pack* (IRH-30), with choice of microphone – (C) collar, (H) headband, (L) lapel, (P) plug-in, or (U) ultralite (additional cost), and battery charger (BRC-30)
- IRQ 3600 Column sound system with *Handheld* (IRH-30) and *Pendant* transmitter (IRT-89), with plug-in microphone (LM-300), and dual battery charger (BRC-202)
- USQ-301 Unpowered Companion Speaker with mounting bracket and 25' cable
- IRC-320 **Quantum with Amplifier**, infrared receivers, speaker, and mounting bracket

### **Additional Accessories**

- IWS 50
   Infrared wall-mount sensor with 15 receiving diodes for extended IR reception, includes 50 ft. cable with RCA connectors
- CC 300 Soft carrying case case to house the Quantum, speaker stand, charger and microphones
- CC 300 Folding tripod speaker stand for Quantum, extends from 20" to 4.5 feet high

## General Specifications for Drop-In Chargers

#### (BRC-30), (BRC-101), (BRC-202) **Optimized for NiMH Battery** Charging Rate: Switching 1700 mA ±10% **Charging Mode: Charging Current: Discharge Rate:** 350 ma LED Indicators: **Batteries being Charged** Red LED -Green LED Indicator -**Batteries are Fully Charged** Yellow LED Indicator -**Batteries being Discharged Recycle Button (Black):** Press to Commence Recycle Auto Charge Maintenance Full Charge Maintenance Auto Protect (Flashing LEDs) **Non-Rechargeable Batteries** Charging Time: 1.5 - 3 Hrs. 12 VDC / 1.0 Amp (12 Watt) **Power Supply:** Drop-In Charger (BRC-30) for Body-Pack and Handheld **Charging Ports:** Two Body-Pack and Two Handheld Two Slots for Two "AA" Each Constant Red LED: **Batteries Being Charged** Audible Alert: Full Charge – Intermittent Buzzer 6.5"W x 3.25"D x 1.5"H **Dimensions:** Weight: 12.2 Oz. Single Insert Charger (BRC-101) for Pendant or Handheld Either a Pendant or Handheld **Charging Ports:** Front Slot for Two "AA" Flashing Red LED: **Batteries Being Charged** Dimensions: 5"W x 3.75"D x 1.5"H Weight: 7.4 Oz. Dual Drop-In Charger (BRC-202) for Pendant & Handheld Two Pendant and Two Handheld **Charging Ports:** Two Slots for Two "AA" Each **Batteries Being Charged** Flashing Red LED: Dimensions 7.5"W x 3.75"D x 1.5"H Weight: 14.8 Oz.

## IWS-45 Wall Sensor (Optional)

Operating Frequency:	2 MHz – 2.6 MHz
Operating Range:	20 – 30 Feet – Line of Sight
Connection:	RCA
Number IR Diodes:	Fifteen
Reception Angle:	120° Horizontal / 120° Vertical
Power Indicator:	Red LED
Dimensions:	Round – 2.5"D x 1.25"T
Weight:	160 Grams



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## IRC-320 Quantum II General Specifications

Signal Reception:	Infrared Carrier
No. of IR Channels:	Тwo
Receiving Range:	60 Foot Line of Sight
Transmission Frequencies:	Channel A: 2.08 MHz
	Channel B: 2.54 MHz
Infrared Wavelength:	850 nm
Modulation:	FM wide-band
De-Emphasis:	50 μS
Frequency Response:	50 Hz – 15 kHz
S/N Ratio:	>65 dB
THD:	1% @ 1 kHz
Nominal Deviation:	10 kHz
Maximum Deviation:	25 kHz
Line Input Level:	<b>1 V / 1 Κ</b> Ω
Line Output Level:	<b>0 - 2.5 V / 47 Κ</b> Ω
Line Output Connection:	3.5 mm Mini Jack
External Sensor Input:	Two (RCA)
Amplifier Output Power:	30 Watts
External Speaker Output:	<b>15 W @ 8</b> Ω
External Speaker Connection:	Two Terminal Phoenix
Power Supply:	12 V / 3.5 A (42 Watt)
Size:	6.25"W x 14"H x 4.75"D
Weight:	4 lbs.

## General Specifications for IR Transmitters (IRB-30), (IRH-30), (IRT-89)

Transmission Carrier:	Infrared Light Ray
Carrier Frequency:	Channel A: 2.08 mHz
	Channel B: 2.54 mHz
Frequency Select Switch:	Field Serviceable
Modulation:	FM Wide-Band
Pilotone Frequency:	32.768 kHz
IR Wavelength:	850 nm
Peak Deviation:	±25 kHz
No. of Emitting Diodes:	Ten
Compander Circuit:	Yes
Pre-Emphasis:	50 μS
Current Consumption:	330 ma
IR Emitter Location:	Front / Top
Range:	30 - 40 Ft.
Power Switch:	Slide Switch "on / off"
Battery Level Indicator – LED:	Green has Useable Charge
	Red Requires Charge
Rechargeable Batteries:	NiMH, "AA" (Duracell, 2650 mAh)
Battery Life:	Approx. 7 Hrs. / Charge
External Charging Contacts:	Drop-In Charger Compatible

## Pendant IR Transmitter (IRT-89)

Break Away Lanyard:	Adjustable with Safety Clasp
Transmission Angle:	180°
IR Emitter Location:	Front / Top
External Microphone Input:	Top / Center
Microphone Input:	3.5mm Jack, Lo-z
Waist Band Clip:	High Tension Wire
Dimensions:	5.25"H x 1.5"W x 1"D
Weight:	4.0 Oz. with Batteries

## **Body-Pack IR Transmitter (IRB-30)**

Break Away Lanyard:	Adjustable
Transmission Angle:	180°
IR Emitter Location:	Front/Top
External Microphone Input:	Top / Center
Microphone Input:	3.5mm Jack, Lo-z
Waist Band Clip:	High Tension Wire
Dimensions:	4.375"H x 2.625"W x .75"D
Weight:	4.8 Oz. with Batteries

## Handheld IR Transmitter (IRH-30)

Hand Ergonomics:	Tubular Shape
Transmission Angle:	360°
IR Emitter Location:	Bottom of Housing
Microphone Element:	Unidirectional, Dynamic
Housing:	Painted Aluminum
Dimensions:	9.5"L x 1.5"D
Weight:	11.4 Oz. with Batteries



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