

## Technical Data Sheet

Innovating the Future of Global Communications

## HR-1 and HR-2

## Headsets with Flexible Dynamic Boom Mics

The HR-1 and HR-2 are medium weight, noise reduction headsets with dynamic microphones. They both have a noise reduction rating of 21dB, and are suitable for use in moderately noisy environments.

All models feature a unique, soft covered headband design that distributes ear cushion pressure evenly over the entire ear with no pressure points, unlike conventional designs which apply more pressure on the bottom of the ear than on the top. An added advantage of this design is the headset folds into an extremely compact shape.





## **Features**

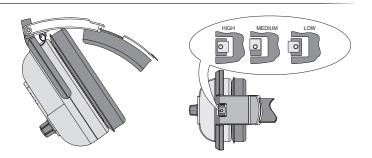
- Comfortable foam-filled, covered headband pad and supplate ear cushions. The headband pad evenly distributes the headset weight, with no pressure points, for maximum wearer comfort. The ear cushions combine comfort and light weight with excellent acoustic seal.
- · Adjustable ear cup pressure.

- The dynamic boom arm features a sealed ball-and-socket joint and flexible boom for precise microphone placement on any head size. The boom rotates overhead for microphone placement on either side of the head.
- The microphone cordage is protected inside the boom arm. Sheilded wire throughout the headset protects against RFI and EMI. Strain-reliefs on all cords provide maximum durability.

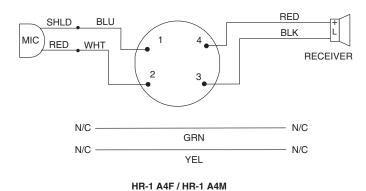
## Operation

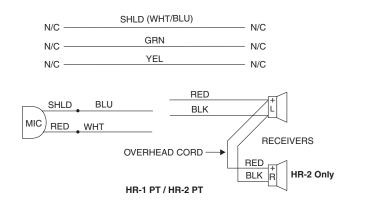
#### **Headband Pressure Adjustments**

There are three (3) pressure settings. Increasing the pressure will improve the seal between the earcup and the head for greater noise reduction. To change the pressure settings, remove the headset and fold the earcup inward as shown, then rotate the adjustment knob to the desired settings. Repeat for both earcups. Both sides of the headband should be set to the same pressure setting to keep the headband properly centered on the head. (Headset shown is similar to the current model.)

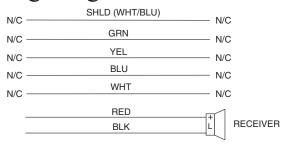


## Wiring Diagrams

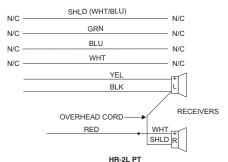


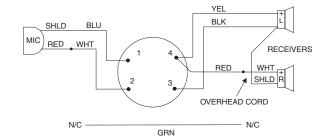


## Wiring Diagrams cont.

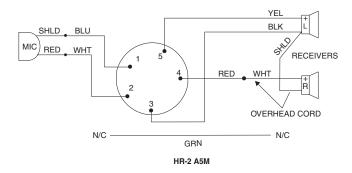


#### HR-1L PT





#### HR-2 A4F / HR-2 A4M



## Specifications

#### **Connector Termination**

HR-1 A4F: XLR 4-pin Female HR-1 A4M: XLR 4-pin Male HR-1 A5M: XLR 5-pin Male HR-1 PT: Stripped Wire

#### **Type**

Single-Sided

#### Mic Type

**Dynamic Noise-Canceling** 

## Mic Sensitivity

-65dBV/Pa@1cm

#### Mic Frequency Range

150Hz-8kHz

#### Mic Impedance

200Ω

#### **Speaker Sensitivity**

95dB SPL @ 1kHz, 1mW

#### Speaker Frequency Range

100Hz-3kHz

### Speaker Impedance

300Ω

### Weight

11 oz (311.8 g), not including cord

#### **Cord Length**

6.0 ft ±2 in (1.83 m ±5.08 cm)

#### Color

Black

#### HR-2

#### **Connector Termination**

HR-2 A4F: XLR 4-pin Female HR-2 A4M: XLR 4-pin Male HR-2 A5M: XLR 5-pin Male HR-2 PT: Stripped Wire

#### Type

HR-2 A4F: Dual Sided Monaural HR-2 A4M: Dual Sided Monaural HR-2 A5M: Dual Sided Stereo HR-2 PT: Dual Sided

## HR-2L PT: Dual Sided

#### Mic Type

**Dynamic Noise-Canceling** 

#### **Mic Sensitivity**

-65dBV/Pa @ 1cm

#### Mic Frequency Range

150Hz-8kHz

#### Mic Impedance 200Ω

## **Speaker Sensitivity**

95dB SPL @ 1kHz, 1mW

#### **Speaker Frequency Range** 100Hz-3kHz

#### Speaker Impedance

HR-2 A4F: 150Ω HR-2 A4M: 150Ω

HR-2 A5M:  $300\Omega$  per side HR-2 PT:  $300\Omega$  per side HR-2L PT:  $300\Omega$  per side

#### Weight

15 oz (425.2 g), not including cord

## **Cord Length**

6.0 ft ±2 in (1.83 m ±5.08 cm)

#### Color **Black**

## Order Information

HR-1	HR-2	HR-1 and HR-2				
HR-1 A4F • Single sided, w/boom, 4-pin female	HR-2 A4F • Double sided w/boom, 4-pin female	800929000 • Headband Pa				
connector	connector	590002000 • Temple Pad				
HR-1 A4M $\bullet$ Single sided, w/boom, 4-pin male connector	HR-2 A4M • Double sided w/boom, 4-pin male connector	560353001 • SPP Ear Cus				
HR-1 A5M • Single sided, w/boom, 5-pin male connector	HR-2 A5M • Double sided w/boom, 5-pin male connector	WS-2B • Windscreen				
HR-1 PT • Single sided, w/boom, no connector	HR-2 PT • Double sided w/boom, no connector	vvo-2D • vviiluscreen				
HR-11 PT • Single sided listen only no connector	HR-2L PT • Double sided, listen only, no connector					

Pad. Mole Skin

shions, Mole Skin, HR Series

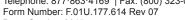
Bosch Security Systems, Inc. | 12000 Portland Avenue South | Burnsville, Minnesota 55337

The specification information is preliminary and is subject to change without notification.

Brand names mentioned are the property of their respective companies.

Telephone: 877·863·4169 | Fax: (800) 323-0498

Date: October 2015





SKU3650607	HR1	(A4F)	CUFFIA	INTERCOM	CON	MICRO/MONOAURALE XLR4F
SKU3650610	HR1PT	(PT/STRIPPED-WIRE)	CUFFIA	INTERCOM	CON	MICRO/MONOAURALE (CAVO APERTO)
SKU3650611	HR1R	(A4M)	CUFFIA	INTERCOM	CON	MICRO/MONOAURALE X RTS XLR4M
SKU3650612	HR1R5	(A5M)	CUFFIA	INTERCOM	CON	MICRO/MONOAURALE X RTS XLR5M
SKU3650613	HR2	(A4F)	CUFFIA	INTERCOM	CON	MICRO/BIAURALE XLR4F

CUFFIA INTERCOM CON MICRO/BIAURALE XLR5F

CUFFIA INTERCOM CON MICRO/BIAURALE/-21DB/CAVO-APER

CUFFIA INTERCOM CON MICRO/BIAURALE X RTS XLR4M

CUFFIA INTERCOM CON MICRO/BIAURALE X RTS XLR5M

CLIFFIE INTERCOM CRONISTI · FULL CUSHION - MEDIUM WEIGHT

(PT/STRIPPED-WIRE)

SKU3650614

SKU3650617

SKI13650618

SKU3650619

HR2A5

HR2PT

HR2R5

HR2R

(A5F)

(A4M)

(A5M)











## **EC Declaration of Conformity**

## The undersigned, representing the following manufacturer Manufacturer

Bosch Security Systems, Inc.

#### Address:

12000 Portland Avenue South, Burnsville MN 55337 USA

Authorized Representative:

EVI Audio GmbH, Hirschberger Ring 45, D-94315, Straubing, Germany

#### hereby declares that the following product(s)

Headset Models HR-1, HR-1R, HR-1R5, HR-1PT, P/N 300534

## is (are) in conformity with the regulations of the following marked EC-directive(s) and bear(s) the $C \in \mathbb{R}$ mark accordingly

	reference number	title
$\boxtimes$	2004/108/EC	EMC Directive (EMC)
	2006/95/EC	Low-Voltage Directive (LVD)
	89/106/EC	Construction Products Directive (CPD)
	1999/5/EC	Radio equipment and Telecommunications Terminal Equipment
	94/9/EC	(R&TTE), according to annex V Electrical Apparatus for Potentially Explosive Atmospheres (ATEX), according to annex IV and VII

The conformity of the product(s) with (above ticked) EC directives is provided by the compliance with the following standard(s):

Standard(s) / date

IEC 60065: 2001 (7<sup>th</sup> edition) + Amd 1: 2005

EN 60065: 2002 + Amd 1: 2006

Place, date:

Burnsville, MN

August 16, 2009

9-15-2002

Manager, Business Line

Printed name: Ralph Strader R + D Manager, Business Line

Busines Line ダー/ケーと

Printed name:

Talal Aly-Youssef

Doc No. REG000205000

Version: A

Form No. FRM000525006, Version 2.00-TELEX



## **EC Declaration of Conformity**

# The undersigned, representing the following manufacturer Manufacturer

Bosch Security Systems, Inc.

#### Address:

12000 Portland Avenue South, Burnsville MN 55337 USA

Authorized Representative:

EVI Audio GmbH, Hirschberger Ring 45, D-94315, Straubing, Germany

#### hereby declares that the following product(s)

Headset Models HR-2, HR-2R, HR-2R5, HR-2A5, HR-2PT, P/N 300534

is (are) in conformity with the regulations of the following marked EC-directive(s) and bear(s) the  $C \in C$  mark accordingly

	reference number	title
	2004/108/EC	EMC Directive (EMC)
$\boxtimes$	2006/95/EC	Low-Voltage Directive (LVD)
	89/106/EC	Construction Products Directive (CPD)
	1999/5/EC	Radio equipment and Telecommunications Terminal Equipment
	94/9/EC	(R&TTE), according to annex V Electrical Apparatus for Potentially Explosive Atmospheres (ATEX), according to annex IV and VII

The conformity of the product(s) with (above ticked) EC directives is provided by the compliance with the following standard(s):

Standard(s) / date

IEC 60065: 2001 (7<sup>th</sup> edition) + Amd 1: 2005

EN 60065: 2002 + Amd 1: 2006

Place, date:

Burnsville, MN

August 16, 2009

4-15-2008

Manager, Business Line

Printed name:

Ralph Strader

R + D Manager, Business Line

Printed name: Talal Aly-Youssef

(-1)

Doc No. REG000206000

Version : A

Form No. FRM000525006, Version 2.00-TELEX