



# SOUND ASSOCIATES, INC.

## R6 WIRELESS RECEIVER

WIRELESS AUDIO AND VIDEO DISPLAY  
FOR USE WITH THE AUDIEN® SUITE  
OF PRODUCTS:

I-CAPTION®, D-SCRIPTIVE™ AND  
AUDIEN® TRANSLATOR

The R6 wireless video display is the 6<sup>th</sup> generation of our award winning I-Caption® system that supplies verbatim closed captions, subtitling, graphics or audio playback on an individual hand-held receiver. Originally designed for live theatrical productions, this fully automated system displays dialogue, lyrics and sound effects with the efficiency of real-time captioning at a fraction of the cost and manpower. Each R6 receiver is a self-contained, non-intrusive wireless unit that can be used in any seat in theater, allowing a deaf, hard of hearing, blind and low vision patrons to become an active member of the general audience, no longer invited to certain performances and relegated to special seating constraints.

The R6 when coupled with the Audien® suite of products will display I-Caption® slides of verbatim closed captions or subtitling. The R6 can also playback prerecorded audio files in mp3 format for audio description for low vision patrons or multi-lingual audio commentary for foreign speaking patrons. The R6 utilizes a proprietary wireless mesh technology in the 900 MHz range to deliver reliable cue changes every time.



Receiver for:

I-Caption® - Automated Wireless Closed Captioning System for the Hearing Impaired.

D-Scriptive - Automated Audio Description for Sight Impaired Patrons.

Audien® - Automated Audio Commentary for Foreign Speaking Patrons.

Features:

- High resolution color 1080P OLED display supplies crisp graphics and text that is easy to see at all angles. with no glow from backlight.
- OLED display does not utilize a backlight, therefore there is no glow in dark environments.
- Graphic or Text brightness can be ramped up or down from 0% to 100% over a specified period of time for each individual slide allowing the natural transition from dark to light.
- Each unit has been ergonomically designed to fit comfortably in the patron's hand with little or no long – term fatigue.
- Charging and file transfer via a USB-C connection.
- The R6 is completely self-contained, battery powered and receives show information via an innovative 900 MHz mesh network specifically designed to work in high traffic radio transmission areas.
- Completely automated delivery of audio and video segments when coupled with the I-Caption CS-6 control unit.
- Rechargeable 3000mAh lithium-ion battery supplies extended usage.
- Easy file transfer to R6 handheld units via USB-C thumb drive.
- The last five slides are stored in buffer memory so end user could back up if they missed information.

The R6 handheld unit incorporates a sensitive RF transceiver utilizing a peer-to-peer protocol in the 900 MHz range in North America and the 2.4 GHz range for operation in global markets. This innovative mesh protocol offers added network stability through self-healing, self-discovery, and dense network operation. All of the video and audio content are stored on the units' local memory. The R6 plays mono or stereo mp3 audio files, displays graphic data in JPEG format and plays full motion video in mp4 format.

**I-Caption** 

424 West 45th Street, New York, NY 10036 TEL: 212-757-5679

TOLL FREE 888-772-SOUND (888-772-7686)

[www.soundassociates.com](http://www.soundassociates.com)



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Side View: Connections and Indicators

## Technical Specification:

### Device

Display . . . . .	OLED 5.5" AMOLED 1920 x 1080 pixels
Memory . . . . .	8 GB flash - (internal)
User Controls . . . . .	3 push buttons on face
Operating Temperature . . . . .	0 - 50° C.

### I/O Connections/Indicators

Audio Output . . . . .	3.5 mm headphone jack, stereo
Data Sync./Charge . . . . .	USB Mini-B connector
Data Storage . . . . .	Micro SC card - 2 GB
Navigation, refresh, volume up/down . . . . .	3 navigation push buttons
Touch Screen Functions . . . . .	<b>Swipe left or right</b> - to advance or go back to previous slide (hold for 7 seconds then will advance to current cue) <b>Swipe up or down</b> - to increase or decrease brightness <b>Pinch or Expand</b> - to decrease or increase brightness <b>Tap Screen</b> - refresh screen from standby

Power Indicator . . . . .	Solid red LED
Wireless Connectivity Indicator . . . . .	Slow-flashing greenLED
Charge Indicator . . . . .	Solid yellow LED

### RF Characteristics

Operating Frequency . . . . .	ISM 900 MHz (or 2.4 GHz for global applications)
Output Power (maximum) . . . . .	900 MHz: 250mW (24dBm); 2.4 Ghz: 163mW (18 dBm)
Range . . . . .	300 ft. from receiver to closest transceiver, transmitter or repeater at 900 MHz
Receiver Sensitivity . . . . .	-101 dBm (1% packet error rate)
RF Data Rate . . . . .	200 kb/s
Agency Approvals for wireless module . . . . .	U.S. (FCC Part 15), Canada (ISED), Australia (RCM)

### Audio Output

Output . . . . .	Stereo 32 ohms
Output Power . . . . .	70 mW
Frequency Response . . . . .	50 Hz - 18 kHz at 3 dB down
THD @ 1 kHz . . . . .	1%

### Power

Battery . . . . .	Internal rechargeable Li-ion 3.7 VDC
Battery Rating . . . . .	3000 mAh
Operation Time . . . . .	5 hrs. of nominal use
Charge Time . . . . .	4 hours via USB-C connector

### Mechanical

Mechanical Dimensions . . . . .	6.2" x 3.75" x 1" deep
Weight . . . . .	6.5 oz. (without wrist strap)
Finish/Material (Front) . . . . .	Textured black ABS plastic

## Warranty

The R4 Receiver is covered by a full three-year warranty, from the original date of purchase, against defects in workmanship or materials. If either component fails due to defects in craftsmanship or materials, we will repair or replace the component without charge. The factory warranty does not cover malfunctions due to abuse or operation other than specified.

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