

RF & AUDIO

Frequency Range

- 470 to 1525 MHz
- Transmitter tunable in 25 kHz steps
- Available frequencies dependent on region

RF Output Power

- Off, 2mW, 10mW, 20mW, 40mW, 100mW
- (Maximum Rf power is dependent on local regulations)

Antennas

- RF: 470-1525 MHz: Built-in
- NexLink 2.4 GHz: Built-in

Audio Frequency Response

- 10 Hz - 20 kHz, +/- 1 dB re 1 kHz

Audio Input (Mic Capsule)

- Compatible with Sound Devices CD1 capsule and capsules that use Shure and Sennheiser threads
- Bias power with Shure-style: 5V
- Bias power with Sennheiser-style: 10V
- EIN: -128 dBV (A-weighting)
- Dynamic range: >140 dB

OPERATIONAL

Interchangeable Control Rings

- Control 0, supplied with Astral HH, no buttons
- Control 1, optional, one push button
- Control 3, optional, three push buttons
- Control Switch, optional, one slide switch

Menu and Controls

- E-Paper screen visible in direct sunlight
- E-Paper screen displays image without battery power
- Power and navigation buttons protected inside battery compartment

Remote Control

- Astral Remote Android, iOS, and iPad app via Bluetooth 5.2 LE
- Astral ARX32, Astral ARX16, Astral ARX8 receivers via super-long-range NexLink

PHYSICAL

Dimensions (H x W x D)

- 7.1 in x 1.5 in x 1.5 in; 18.0 cm x 3.7 cm x 3.7 cm

Environmental

- Operating: -10° C to 40° C
- Storage: -40° C to 85° C
- Water resistant

POWER

Powering

- Sound Devices XL-B18650 Li-Ion battery

Battery Runtime

- 10+ hours at 10 mW RF output power
- Power off unit remotely via NexLink or Astral Remote to extend battery life

Battery Charging

- Built-in battery charging via USB-C
- Battery can be removed and charged in any standard 18650 charger

USB-C

- Mass Storage (USB-C): USB 2.0 high speed for file transfer of internal microSD card recordings
- Charges XL-B18650 Li-ion battery inserted in Astral HH
- Pairing to Astral ARX32, Astral ARX16, Astral ARX8

INTERNAL RECORDING

Recording Media

- Micro SD Card
- Media format: ExFAT for Micro SD cards 64GB or more, FAT32 for Micro SD cards 32GB or less
- Selectable Record Only Mode or RF Only Mode. Recording is not possible when transmitting audio.

Recording File Format

- 32 Bit Float, 48 kHz, Monophonic wav
- Broadcast WAV (<4 GB), RF64 WAV (>4 GB)

Timecode

- Sync wirelessly over NexLink (from Astral ARX32/Astral ARX16/Astral ARX8)
- 0.2 ppm accuracy
- Holds accurate clock for four hours while powered down with batteries inserted, holds for one hour without batteries via internal supercapacitor
- Auto Jams timecode via USB-C connector or wirelessly via NexLink

Timecode Frame Rates

- 23.98, 24, 25, 29.97 DF, 29.97 ND, 30 DF, 30 ND
- Frame rates are auto-detected from incoming source

Weight

- 0.4 lbs / 0.18 kg (no battery or optional counterweight)
- 0.5 lbs / 0.23 kg (with battery)
- 0.6 lbs / 0.26 kg (with battery and optional counterweight)

Counterweight

- Astral HH Counterweight-30 (internal) to balance heavy mic capsules