## Authorised Worldspace Dealer in AMRITSAR- INDIA

## Listen WorldSpace Anytime!

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#### WORLDSPACE CORPORATION Frequently Asked Questions

## Q. What is WorldSpace?

**A.** Headquartered in Washington, DC, the WorldSpace business was founded in 1990 to provide direct satellite delivery of digital radio and multimedia services to the emerging markets of the world, including Africa, the Middle East, Asia, Latin America, and the Caribbean.

The WorldSpace satellite network will consist of three geostationary satellites, AfriStar<sup>™</sup> AsiaStar<sup>™</sup>, and AmeriStar<sup>™</sup>. AfriStar and AsiaStar were successfully launched October 28, 1998 and March 21, 2000 respectively. AmeriStar launched in 2001. Each satellite will have three beams with each beam capable of delivering more than 40 crystal clear audio services and a variety of web content and data directly to portable receivers. Once complete, this unique global service will transmit quality information, education and entertainment programming to a service area that includes 5.2 billion people.

#### Q. Who is manufacturing the WorldSpace Receivers?

**A.** To insure that WorldSpace brought the best possible product to market, we looked for companies that had an extensive distributor network, strong brand identity within our target markets, and recognition as leaders in the field of consumer electronics in emerging market areas. The following companies met those stringent requirements and have contracted with WorldSpace to mass produce and distribute the receivers:

- JVC Japan (Production Stopped)
- Matsushita (Panasonic)- Japan (Production Stopped)
- Hitachi Japan (Production Stopped)
- Sanyo- Japan (Production Stopped)

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- 💥 Joyear- Korea
- 🔆 Polytron- Indonesia
- 🔆 Tongshi China

### *Q. What is your launch sequence?*

**A**. WorldSpace debuted its service in Africa, in October of 1999 and Asia in September of 2000. We are currently making the receivers available in select electronics retail stores in the following countries: Cameroon, Cote d'Ivoire, Ghana, India, Indonesia, Kenya, Lebanon, Madagascar, Nigeria, Senegal, Singapore, South Africa, Togo, and the UAE. Subsequently, distribution will expand to other areas.

## Q. How are you different from conventional radio?

**A.** The cost of the infrastructure to have the scale and quality of coverage provided through the WorldSpace system is significantly less to the broadcaster, than heretofore-available alternatives. In addition, there are three other advantages that set the WorldSpace system apart:

#### Choice

There is currently no other single medium that provides the variety of programming that can be accessed through our system. Also, the fact that each receiver is equipped with a data port that downloads data at the rate of 128kbps means the WorldSpace receiver has a multimedia capability. No other audio receiver on the market today can make that claim.

## 🔶 Clarity

The digital signal means no fading or noise. The system can deliver up to near CD quality sound that is consistent anywhere within the coverage area that is within line-of-sight of the satellite.

#### 🔶 Coverage

From a single point of broadcast, minimum coverage is 14 million square kilometers without loss of sound quality.

## *Q. Can I use any receiver/off the shelf system to access the WorldSpace broadcasts?*

**A.** No. Each WorldSpace receiver has a proprietary STARMAN<sup>TM</sup> Chipset, which demodulates the signal from the satellite and translates it into what you hear.

### The WorldSpace Vision

#### Q. What is the WorldSpace vision?

**A.** "WorldSpace began with the vision of using direct audio broadcast via satellite to stop the spread of AIDS in Africa, but that horizon quickly expanded. Clearly the WorldSpace system could be a powerful tool for spreading knowledge for the sake of making people healthier, better educated, and more aware of the precious environment in which they live. In addition to making countless millions more productive on farms, and in factories and offices, WorldSpace can bring to these people, the gifts of the best music and literature of their native cultures along with those from the great cultures of faraway lands."

"WorldSpace is working tirelessly to illuminate Africa, the Middle East, Asia, Latin America, and the Caribbean with digital satellite audio. The system may bring the light of knowledge to four billion people and may diminish the darkness of ignorance, disease and despair."

-Noah Samara, Chairman and CEO

#### The Technology

#### Q. How does the WorldSpace System work?

**A.** Broadcasters uplink their signals to the satellite from anywhere within the global uplink beam of the satellite. The broadcaster may do this through a centralized hub site, or through an individual feeder link station located anywhere within the global uplink beam. The satellite transmits the signal received from the respective broadcaster-uplink stations in all or any combination of the three downlink beams of each satellite. Depending on the contract between WorldSpace and the broadcaster, the broadcaster's signals will be transmitted in one, two, or all of the three beams, on each satellite. Any WorldSpace receiver in any of the downlink beam areas then receives the signal in that beam.

#### Q. How are the WorldSpace receivers portable?

**A.**The WorldSpace receivers are lightweight, ranging from 1.5 kilograms to 3 kilograms in weight. The receivers access the satellite and provide the same quality of sound through the detachable antennae anywhere within the respective coverage areas, within line-of-sight of the satellite.

#### Q. Will I need accessories to receive the signal?

**A.** Each receiver will come packaged with an extension cable (5 meters) to allow for optimal positioning of the antenna. Optional accessories will include interference filters, a Yagi antenna and a 25-meter extension cable.

#### Q. How is WorldSpace different from existing broadcast systems?

**A.** The WorldSpace system is digital, providing crystal clear, fade-free sound quality anywhere within the coverage area. The system provides programming versatility through manipulation of the bit rates used. Through the digital technology, the broadcaster can choose the quality of transmission depending on the content, i.e., speech to near CD quality music etc.

Because it is satellite-based the system is also highly cost effective for broadcasters. Through the WorldSpace system, the broadcaster covers at minimum an area of about 14 million square kilometers from a single point of broadcast. The cost of developing the infrastructure required to attain that kind of coverage with existing terrestrial systems is prohibitive.

## *Q. How are you different from conventional radio?*

**A.** The WorldSpace system is digital not analog, therefore the system provides:

- Crystal clear sound quality over the entire coverage area
- Programming versatility through manipulation of the bit rates used. Through the digital technology, the broadcaster can choose the size of the channel, altering the quality of transmission depending on the content, i.e., speech to near CD quality music etc.
- Data transmission: the WorldSpace system is satellite based not terrestrial. Therefore, we can broadcast over a broader coverage area, provide a variety of programming (up to 50+ channels of programming in varied formats and languages per beam) and a multimedia capability.

#### WorldSpace Audio Content

Q. How many broadcasters have already signed on to the WorldSpace System?

**A.** We currently have over 40 broadcasters signed on the system. We are also in serious negotiations with a host of other premiere broadcasters throughout the world.

# *Q.* What Broadcasters do you anticipate to have on the system in the immediate future?

**A.** We are in negotiations with a number of high-profile broadcasters. For updates on additional partners joining the WorldSpace content line-up please visit our web site at <u>http://www.worldspace.com/</u>

## Q. Does WorldSpace have any Audio Subscription Channels?

**A.** Currently all broadcasters on the WorldSpace system are free-toair. WorldSpace has the capability of supporting encryption for audio programming. If a broadcaster should wish to air their programming on a subscription basis, this could be accomplished.

## **The Receivers**

#### Q. Can I receive broadcasts on the WorldSpace system from anywhere?

**A.** To receive the WorldSpace service you must be within one of the three broadcast beams of a WorldSpace satellite. Also, as this is a satellite-based system, the antenna must be in line-of-sight with the satellite to receive the signal. Therefore, each receiver comes with a detachable antenna and extension cable, which allows the user to place the antenna in a position for optimal reception. Accessories (such as a Yagi antenna, and a 25 meter extension cable, Low Noise Amplifiers, Interference Filters, Data Port Interface, etc.) will be available for use in buildings or areas in which accessing line-of-sight may require external placement of the antenna, and for multimedia reception.

# *Q. What Customer Support channels has WorldSpace put in place for the receiver?*

**A.** Each WorldSpace receiver comes with a warranty from the manufacturer. In addition, WorldSpace will have a dedicated customer service hotline in each of the countries in which we do business to assist with any receiver questions. We will also have trained installation partners to assist those who may opt for professional installation of the system.

#### Q. What Accessories will come with the receiver?

#### A. a.) Standard:

- 🔶 Patch Antenna
- 🖕 5 meter cable
- Operation Manual

b.) Optional

🔶 Yagi Antenna

25 meter cable

## Q. What about Headphones, or amplifiers?

**A**. Each receiver has a headphone jack that can be used with currently available earphones for privacy. Also, each receiver has a lineout jack so it can be hooked up to an amplifier.