PHONE RECOMMENDATIONS

What phone works best with ***CellSet***? Iridium satellite phones: They work everywhere, they connect directly to our ***CellSet*** with no adapters and they rings into the headset when a call comes it. In short, they are the perfect mobile phones.

Here are some notes and considerations. They include; RF interference (digital noise), audio connections, power, operation, and mounting.

RF INTERFERENCE

Digital phones use a variety of modulation techniques to transmit information (voice and data). Information is transmitted via digital (square) waveforms. Square waves contain a near infinite number of frequencies, some of which are located in the audible spectrum. These frequencies can feed into ***CellSet*** and the vehicle's audio system (including the headphones speaker coils!), and cause a very distracting buzzing noise. It may be periodic or continuous. Satellite phones operate at such high frequencies that interference is not an issue.

The only method to minimize any RF interference is to place the phone as far away from all the components of your audio system as possible.

AUDIO CONNECTIONS TO THE CELLSET

Most phones now have a 3.5mm diameter, 4 circuit stereo headset jack on them. Some still offer a 2.5mm, 3 or 4 circuit jack. I've found these to be mechanically inferior to the larger diameter jack. We offer CellSets that are configured for either. If you change phones, in some cases there are adapters that will step up the diameter.

A note about BlueTooth: There are headset adapters such as Motorola's HF820 and HS-830 that provide a radio link to the phone and connect to

the ***Cellset*** via a 2.5mm headset jack,. They do provide ring tones and other features such as voice dialing. Some offer caller identification. Their biggest advantage is that in using them, you are able to move the phone far away from the audio system to minimize or even eliminate and RF interference.

POWER

Some phones will not go to sleep when a device (headset or ***CellSet***) is connected to its headset jack or data connector. As a result, the battery will drain in a few hours: A charger is indicated.

OPERATION

<u>Ring on incoming calls</u>

Some phones send a ring tone out the headset/data connector, but most do not. To test this feature, connect a personal headset to the phone and call it. Listen for the ring tone in the headset. If you hear it in the headset, then you will hear it through the ***CellSet***.

If you do not hear a ring tone, you will need to:

- wear the phone and set it to vibrate
- program the phone to auto answer and listen for the calling party to start speaking
- listen for the phone to wake up (via clicking in the audio system)
- listen for the phone ringing over the ambient noise
- set the phone where you can see it "light up" on an incoming call

<u>Answering calls</u>

Answering calls can be accomplished by pressing the answer button or flipping the phone open. Furthermore, most phones can be programmed to:

- auto answer (after a preset number of rings)

- "any button" answer

Hang up

Call termination can be accomplished via pressing the hang-up button or flipping the phone closed. Furthermore, most cell phones hang up when the landline phone hangs up.

Dialing

Phone numbers can be dialed manually. Some phones offer voice dialing when properly programmed. Usually this is initiated by pressing a button on the cell phone or the bluetooth adapter.

MOUNTING

Most belt clip buttons that attach to the back of the phone are the same size as a hand microphone, thus a hand microphone bracket can be used.

Many phones are small and light enough to velcro it to the vehicle.
Given the above, these are the things to consider when selecting a cell phone for use with a Kennedy Technology CellSet:

- **Does it ring in the headset jack?**
- **Does it require a headset adapter?**
- **Can an external antenna be connected to it?**
- **Can it be charged while a CellSet is connected?**