**What is it:** A LinuxMCE-based system is an all-in-one solution for your home that seamlessly combines media & entertainment, home automation, security, telecommunications and computing.

You can control your whole house with a mobile phone, a touch-screen tablet or a web-interface.

The system is more like an appliance than a computer. It is self-maintaining and updating. The system is above all simple. The devices are all plug and play. It is based on an open platform, offering limitless expansion potential, and requiring no special cabling or wiring. This is total home automation: a complete, comfortable and secure solution for your home.

**Why you need it:**

**Simplicity:** Throw away all your remote controls; you use your mobile phone or a wireless touchpad to control your whole house.

**Safety:** Statistics show the police can take over an hour to respond to some monitored alarms. LinuxMCE gives you a live video feed on the mobile phone the instant someone shows at your doorsteps. Call 911 if it's an intruder.

**Excitement:** Enjoy all of your media anywhere in the house at any time.

**Power:** Completely customizable and controllable from design to usage.

**Value:** Easily retrofitted into almost any application with no expensive remodel or construction costs. A commercial-grade server that does it all with redundancy costs less than a slew of disposable devices like a PVR, phone system, DVD player, media PC, etc.

**Features:**

**Media & Entertainment**
• Attractive, easy to use, User Interface optimized for displaying on a TV and using a remote control
• Media browser presenting all content on all devices in the home
• Plug-and-play detection and distribution of network storage and devices
• Built-in storage providing centralized backup and whole-house media server
• Using Bluetooth, each family member's media follows him/her through the house
• Automatically controls all existing av devices, like TV's, Stereo's, etc.
• You choose the control options: mobile phone, webpad, pda, phone, website

**Smart Home**
- Home Automation: Control lighting, climate, security, camera surveillance, and more
- Communication: Phone system with auto-attendant, voice mail and call forwarding/routing with no long distance
- Security: Uses your existing home alarm, surveillance cameras, lights, phones and TV's to notify you on your mobile phone of any security alerts with the option of resetting the alarm or broadcasting your voice in the house over the TV's

**Security:**

**Immediate notification of any alerts on your mobile phone with live video**- The instant anything important happens at your home, such as a security breach, fire or even someone ringing the doorbell, your mobile phone will beep and show you a live video feed.

**Auto arming/disarming of the alarm**- Because LinuxMCE is able to distinctly recognize each family member and determine who is coming and going, LinuxMCE can automatically turn the alarm off and unlock the door when it detects you approaching the house, and automatically lock and arm when everyone has left. You don't have to worry about forgetting to turn the alarm on.

**Mark rooms as off-limits to anyone but authorized persons**-
Tell LinuxMCE that only certain people are allowed in certain rooms. When LinuxMCE detects the presence of an authorized person it will automatically shut off the alarm sensors in that room. It's fully automatic. If an unauthorized person enters, you will be notified on your mobile phone. Tell LinuxMCE if you leave the children at home with a baby sitter. LinuxMCE will notify you whenever someone comes and goes from the house, and show you a picture so you can be sure there are no unauthorized visitors. You can push a button on your phone to turn on the surveillance cameras and check what's happening at any time.

**Telecommunications:**

**Effortless video conferencing** - answer and dial just like normal- LinuxMCE automatically turns all your TVs into video phones. If somebody calls you from a video phone, it rings on the phones in the house just
like normal. You can transfer the call to someone else, whether or not they have a video phone. You can still put the call on hold, and pick it up on your mobile phone or cordless.

**Tie all your homes together as one phone system**- With LinuxMCE, whenever you're on the phone, the nearest Orbiter will automatically show you pictures of each family member. If you want to transfer, or conference, just touch the person's picture. If you have multiple residences, LinuxMCE can join them and then will automatically sense what home you're in. Anytime someone calls any of your homes-anywhere in the world-the call is automatically put through, unless you're sleeping. LinuxMCE uses voice-over-ip, so there are no long distance charges.

**Always routes your calls to the extension nearest you**-LinuxMCE's 'follow-me' keeps track of what room in the house you're in, and your phone calls automatically ring on the extension nearest you. LinuxMCE remembers who normally calls for whom and route the call automatically, based on the caller ID. When your daughter's school friend calls, it will automatically ring in your daughter's room if that's where she is - without disturbing anyone else in the house. If she's out, it will go automatically to her mobile phone if you wish. As you add names to your personal phone book, be sure to check off which ones are priority people, like friends and family. When you press the button on your mobile phone to go to sleep, LinuxMCE adjusts your phone settings. Somebody who calls will automatically get voicemail, except for your priority callers who will be told that you are sleeping, and given the option of waking you. If they choose to do so, LinuxMCE will put the call through to the phone by the bed so as not to disturb others in the house.

**Home Automation:**

**Your mobile phone turns into a remote control for lights, climate, etc.**- Home automation systems are usually controlled by a slew of expensive touch-screen tablets needed everywhere you want control. Only LinuxMCE turns your mobile phone into a comfortable remote, making the tablets optional. Your mobile phone not only becomes more comfortable and usable than any type of remote control on the market, it works anywhere in the world you have cellular data coverage. Control everything, monitor your cameras, accept deliveries, etc. It doesn't matter if you're in the living room or in Lithuania. When you're at home, the mobile uses Bluetooth to communicate. When you're away, it automatically switches to the cellular network. LinuxMCE can recognize each family member and automatically set up the room according to his preferences. Just keep your mobile phone in your pocket. It compares the relative strengths throughout the house to calculate exactly where each family member is. It works for your lighting, climate, media, as well as security settings.

**Effortless, "follow-me automatically" automation**- With LinuxMCE, you get zero-touch automation. If you have a DVD you want to watch, just put the disc in the nearest media director. LinuxMCE will analyze what type of disc it is, and setup all your TVs and stereo equipment automatically. LinuxMCE will even feed the DVD Menu directly to the nearest mobile phone or Orbiter. You don't have to touch a single button.
Media & Entertainment:

Your media follows you around the house - LinuxMCE always knows what room each family member is in, and learns his favorite media (TV shows, music, etc.). Press the “TV” button on your mobile phone. The nearest TV - no matter what brand - will automatically come on to your favorite show. 90% of the time you will not need to use the program guide or channel surf. When you move around the house, all you do is hold down the media button on your mobile phone for 1 second, and a red “F” for “follow me” appears. Now just wander around the house and whatever media you were enjoying - TV, DVD movie, music, radio, etc. - will follow you. It works individually for each family member. This is the ultimate convenience, and only LinuxMCE has it. To date, only a handful of super-rich individuals have spent millions for this luxury. In case there are two people in the same room, LinuxMCE sets up the room for whoever entered first. If that person leaves the room, then LinuxMCE sets it up for the next person who is still in the room.
Each family member can have both public and private media. Whenever you choose to record or save any media - TV shows, DVD movies, music, etc. - you are given the option of making it public, so the whole family can enjoy it, or private, so only you can access it. When you first get your LinuxMCE system, just be sure to tell LinuxMCE who are the heads of the house. These people can view everybody's private media.

Live video of favorite shows & channel history. LinuxMCE learns each family member's favorite shows; when anybody presses the ‘TV’ button, LinuxMCE turns on the nearest TV, scans the current running programs, and automatically tunes to that person's favorite show. There's a full DVR with episode guide too, but this is far more comfortable and convenient. All media - music, movies, TV shows, home videos, etc. are stored on the LinuxMCE Core - the central server. The Core is powerful enough to handle dozens of simultaneous media streams. You'll never have to worry about a hard drive crash and losing your media. You have virtually unlimited capacity, and everyone in the family can enjoy any media anywhere, anytime. The LinuxMCE Core distributes all the media digitally. This means you do not have to tear open your walls to run extra cables, plus the media can go from anywhere to anywhere with absolutely no loss of quality.

Personal Computing:

• Perform basic computing with or without a mouse or keyboard. Every LinuxMCE Media Director has a full computer built-in, and comes with a wireless keyboard & mouse so you can run all your favorite software. Today's high-def TVs are actually great for computing because of the fantastic picture quality. So, if you want to check the weather or the latest news, just hit a button on your mobile phone and the page will show up on the TV.

• Powerful computing platform for advanced users. If you are a PC power user, imagine having a server running multi Intel Xeon processors and a 10 terabyte (10,000 GB) RAID 5 array. Plus, each Media Director incorporates a high-powered PC inside with the latest hardware, such as a 200GB hard drive, up to an Intel Pentium 4 at 3.06Ghz Processor with 2 GB RAM. And you just press 1 button to switch between Linux and Windows. The Media Director also has video outputs for computer monitors, such as VGA and DVI, and the latest audio/video sub-system for use as a high-end gaming platform.

• Automatically joins multiple homes together as one network. When you have multiple homes with LinuxMCE systems, they can all be joined as one. Every LinuxMCE Core will automatically create a VPN (virtual private network) connection to the others. It's completely safe and fully encrypted. The benefit is that you can go from one house to another and know that you will still have access to all your files no matter where you are without the hassle of copying them. The RAID array in the LinuxMCE Core has a capacity of up to 10 TB (that's 10,000 GB). LinuxMCE automatically creates a network share for each family member so you can put all your normal computer files there, too. You will never lose your files due to a hard drive crash (the RAID array has built-in redundancy). You can access any of your files anytime, anywhere - LinuxMCE automatically creates a password-protected personal web page for each family member.

How it works: A LinuxMCE system consists of 4 pieces of equipment: LinuxMCE Core, LinuxMCE Media Director, LinuxMCE Orbiter, LinuxMCE Mobile Orbiter. In addition to the 4 main components, there exist many accessories such as cameras, interface modules to control your existing A/V, lighting, etc.

LinuxMCE Core:
This is the brains of the system. It is a commercial-grade, Linux server, and it orchestrates all the activity on your LinuxMCE system. Each home needs only 1 LinuxMCE Core. Because the Core communicates with everything over the local area network, the connections are easy: just 2 standard network connectors, one for your internal network in the house, and one for your internet connection. Additionally, your Core will have jacks for whatever telephone lines you have. The core has a built-in voice-over-ip pbx switch that can route all incoming and outgoing calls over the internet. However, we recommend that you always have at least one 'normal' phone line as a backup in case there is a problem with your internet connection.

**LinuxMCE Media Director:**
This is what hooks up to your TV and A/V equipment. You will need a LinuxMCE Media Director wherever you have a TV or entertainment area that you would like to be fully integrated into your LinuxMCE system. Note that an inexpensive Interface Module is available for those entertainment areas where you do not wish to invest in a Media Director, and this Module allows you to control that equipment using the Orbiters or your mobile phone. The Media Director renders the media on your TV/stereo. In addition to all the standard analog in/out connections and SPDIF digital audio, it supports the latest digital video connection: DVI. If you have a high def TV, you can enjoy perfect DVD movies, 100% digital from the Core, through the Media Director to the TV without ever converting to analog or losing 1 pixel. The Media Director up-samples the video to high-definition, and even beyond high-definition for the latest super-high resolution plasma TVs or projectors for the ardent audio/video-phile. The Media Director includes a built-in CD/DVD/DVD-RW/DVD+RW Player and Recorder, ports for digital camcorders (firewire) plus 6 types of digital film, an interface module to control your A/V equipment, and a PC computer with a wireless keyboard and mouse. It also includes LinuxMCE's patent-pending 'follow-me' detection system so that it can detect who is in each room. Allow 1 LinuxMCE Media Director for each TV or entertainment area. The LinuxMCE Core works with popular multi-zone audio systems and digital audio players, providing an inexpensive solution for whole-house audio.

**LinuxMCE Orbiter:**
The Orbiter has an 4.1” color, touch-screen display with hard buttons, including a 4 way rocker. It also has a built-in speaker and microphone. The built-in battery and wi-fi (802.11) allow you to carry the Orbiter anywhere. The table mount comes standard and a wall mount is available; the Orbiter will charge while in the base. You can also control the entire LinuxMCE system with your mobile phone, however, most customers like to have 1 or 2 Orbiters, especially for the main theater room, since browsing catalogs of media is easier on the Orbiter. You can even see clearly on a map all the media playing throughout the house, the status of all your security sensors, lighting, climate, pool, sprinklers, etc.

**LinuxMCE Mobile Orbiter:**
Cell phones make perfect remote controls. They have nice, color displays. They're small, light, comfortable and can be operated with only the thumb. You can't get more convenient than having a small cell phone in your pocket that lets you press one button to get the lights, the climate, the TV, the music, or the security. When you're in the house, the phone uses Bluetooth. When you leave, it switches to the cellular data network, so you can control your house from anywhere in the world you have cellular service.

**Accessories:** In addition to the 4 main components, there exist many accessories such as cameras, interface
modules to control your existing A/V, lighting, etc.

**Software Components:** Ubuntu Linux, Pluto Home Automation, Asterisk VoIP PBX, Xine Movie Player, MythTV PVR

**Compatibility:**

**AV Equipment:**
LinuxMCE can control all your existing AV equipment using normal infrared.

**Security panels:**
- Apex/Ademco Destiny 6100, Vista 128BP, 250BP
- First Alert FA1660C
- HAI Omni series
- GE Interlogix/Caddx NetworX NX-4, NX-6, NX-8, NX-8E
- DSC MAXSYS P4020
- Apex/Ademco Destiny 6100, Vista 128BP, 250BP
- First Alert FA1660C
- HAI Omni series
- GE Interlogix/Caddx NetworX NX-4, NX-6, NX-8, NX-8E
- DSC MAXSYS P4020

**Climate control:**
- Aprilaire 8870/Statnet Thermostat
- HAI Omni
- X10 Thermostats (RCS TX15R/B)
- Honeywell EnviraCon

**Lighting control:**
- ALC (HAI, OnQ)
- Leviton DHC
- Lightolier Compose PLC / Multiset
- X-10
- Vantage
- Lutron Homeworks, RadioRa & GrafikEye
- LiteTouch 5000LC

**Audio streamers/players:**
- Barix Exstreamer
- Turtle Beach AutoTron

**Multi-zone audio systems:**
- Russound CAV6.6
- Audioaccess PX-700
- Vaux Electronics
- Xantech
- Nuvo

**Surveillance cameras:**
- Panasonic IP Cameras
- Dlink IP Camera
- Axis IP Camera
- JandA Qualink

**Sprinkler and irrigation:**
- X10
- Rain8PC

The LinuxMCE interface modules also has relay controls that can be used for sprinkler/irrigation systems

**Miscellaneous devices and sensors:**
- Applied Digital (light, temperature, humidity)
- JDS