



As Seen on CBS's Ghost Whisperer!

Tri-Field "Sci-Fi" 3-Way Meter

- ✓ SEE RF, electric, and magnetic fields!
- ✓ Watch the magnetic field of the earth!
- ✓ Sense different magnetic poles!
- ✓ Detect RF transmitter fields
- ✓ Graphical display "sees" invisible fields



The TFM3C has three separate field sensors that are user selectable to provide a really cool readout on two highly graphical LED bargraphs! Utilizing the latest technology, including Hall Effect sensors, you can walk around your house and actually "SEE" these fields around you! You will be amazed at what you see. How sensitive is it? Well, you can see the magnetic field of the earth... THAT'S sensitive! The technical applications are endless. Use it to detect radiation from monitors and TV's, electrical discharges from appliances, RF emissions from unknown or hidden transmitters and RF sources, and a whole lot more! If you're wondering whether your wireless project or even your cell phone is working, you can easily check for RF! A 3-position switch in the center allows you to select electric, magnetic, or RF fields. A front panel "zero adjust" allows you to set the sensors and displays to a known clean "starting point".

If the TFM3C looks familiar, it's probably because you saw it in use on the CBS show Ghost Whisperer! It was used throughout one episode (#78, 02-27-2009) to detect the presence of ghosts! In the electric mode, the TFM3C's displays will wander away from zero even though there isn't a clear reason for it. What it was in the Ghost Whisperer was a friendly ghost. What it will be in your house... who knows! Runs on 4 AAA batteries.

TFM3C Tri-Field Meter Kit With Case \$74.95

Laser Beam Audio Communicator



Send Audio Over That Laser Beam!

- ✓ Modulated at more than 16kHz for excellent voice audio fidelity
- ✓ Uses standard pocket laser module for 1/4 mile maximum range (included)
- ✓ Each kit includes one transmitter and one receiver
- ✓ Includes microphone and digital AGC circuit for full audio range control



LASER RECEIVER



LASER TRANSMITTER

Now you can talk to your friends over one of the most secure long-distance transmission types available, a laser beam! Our new laser beam communicator allows you to talk with pretty good fidelity to your friends up to 1/4 mile away just using a pocket laser pointer.

The transmitter uses a microphone or external audio to modulate a laser beam on and off at a rate of more than 16kHz so the audio fidelity is much better than that of a telephone. A telephone is limited to 3kHz, but the LBC6K is limited to 6kHz. The receiver includes filtering to remove the 16kHz carrier and leave behind the high quality audio, and then boost its level for use with earphones. To improve the fidelity of the system, the transmitter employs audio AGC on the microphone to boost weak audio, and reduce loud audio so that the listener never misses a word.

Each kit includes a transmitter, receiver, and pocket laser pointer. This gives you a complete one-way audio path. If you need full duplex, or two way, buy two at the special price! Receiver and transmitter are designed to fit in two pieces of 2" PVC pipe for easy mounting and alignment. Each runs on a standard 9V battery, DC adapter or AC adapter (not included). Audio output drives a standard personal stereo headset. Your friends will be amazed when they see you talking over that red laser beam! (My kids built a couple of these and were really amazed! But then they asked me why they couldn't see their voice change the laser beam light... I told them "Um... ask your Mom!")

LBC6K Laser Beam Communicator Kit (Includes Receiver, Transmitter and Pocket Laser Pointer) \$59.95
 LBC6K2 TWO Laser Beam Communicator Kits, for Duplex or Two-Way Audio (Save \$10.00!) \$109.95



Voice Over An IR Beam!

Infrared Light Beam Communicator

- ✓ Send your voice over light - even through windows!
- ✓ 30' to 1/4 mile range!
- ✓ Receiver drives a speaker or earphone!

Transmits a modulated infrared light beam up to 30 feet without lenses, up to 1/4 mile using simple lenses. Since the beam is modulated with a 30 KHz carrier (like AM radio) there is no effect from 60 Hz hum that is produced by indoor lighting. Easily transmits through windows - ideal for "bugs" or listening to IR television remote controls. The transmitter can use any type of mic and is very sensitive. The receiver employs an IR PIN diode detector and there is enough power to drive any loudspeaker or earphone.



The PC board is cleverly "scored" so you can easily separate the Transmit and Receive sections so they can be used individually to transmit at one location and receive at another. Units run on 9 to 12 VDC and will use a standard 9V battery. The LB56 has been a popular kit for years and makes a great science fair project to show how you can send audio over Infrared! Custom case set measures 5"W x 1 1/2"H x 5 1/4"D. (First, two paper cups & string, then soup cans, now IR beams!)

LB56C Infrared Light Beam Communicator Kit With Case \$34.95

Speedy Personal Speed Radar Gun



YOU Be The Cop!
How Fast Was HE Going!

- ✓ Direct readout in miles/hour, kilometers/hour or feet/second
- ✓ 1/8 mile range for average car-sized object
- ✓ Earphone output to hear actual Doppler shift
- ✓ The nation's #1 science fair project!

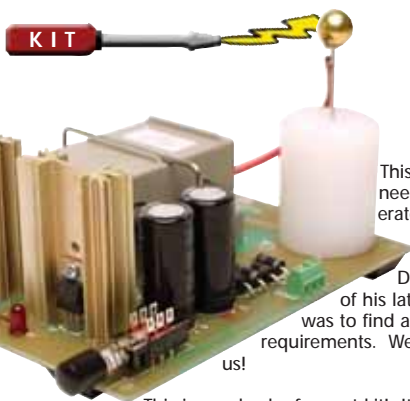


Here's a kit that's not only a ton of fun for everyone, but is useful too! This low cost microwave radar uses the same principle found in police units costing thousands more. You'll turn heads when you clock cars, planes, runners, boats, horses, bikes, races, or virtually any large object that moves.

Speed readout is on two LED displays which can be set accurately (better than 1%) to show MPH, kilometers-per-hour, or even feet-per-second. An earphone output allows you to hear the actual Doppler frequency shift of moving objects, the theory upon which all radars operate.

Uses two 13 oz. coffee or juice cans for antenna (not included)... so start drinking! Antenna unit can be remotely placed up to 300 feet away. The SG7 is easy and informative to build, with a detailed manual that not only carefully guides you to a finished unit but also tells you the hows and whys of Doppler radar. Even though the kit employs microwave circuitry, no exotic tuning is needed. All critical sections are PCB stripline and calibration is as easy as pointing the SG7 at a fluorescent lamp! Your Speedy kit includes a deluxe black ABS plastic case with SPEEDY graphics for a neat professional look. Operates on 12-15VDC. Electronics case: 3 5/8" x 5 3/4" x 1 1/8". (Yes, the coffee needs to be in cans!)

SG7 Speedy Personal Speed Radar Gun Kit \$69.95
 AC125 110VAC Power Adapter \$9.95



**Shocking Results...
Literally!**

Spark Generating HV Plasma Generator

- ✓ Generate 2" sparks to a handheld screwdriver!
- ✓ Light fluorescent tubes without wires!
- ✓ Build your own Plasma Balls!
- ✓ Generates up to 25kV @ 20 KHz from a solid state circuit!

This new kit was conceived by one of our engineers that likes to play with things that can generate large, loud sparks, and other frightening devices.

During the process of looking for parts for one of his latest experiments he discovered how difficult it was to find a high voltage transformer that met his requirements. Well, we had a super unit designed expressly for us!



This is one heck of a neat kit! It really serves no purpose other than producing stunning lighting displays, drawing big sparks, scaring the neighbors and performing lots of high voltage experiments. But sometimes that's a great purpose for a kit!



In the picture to the right we took a regular clear "Decora" style light bulb and connected it to the PG13. WOW! A storm of sparks, light tracers and plasma filled the bulb! Holding your hand on the bulb doesn't hurt a bit and you can control the discharge!

It can also be used for powering other experiments... let your imagination be your guide! The high voltage at the terminal won't electrocute you, so it's relatively safe, but it can burn you, so use caution. Can also be run from 5-24VDC so the output voltage can be directly adjusted by simply adjusting the input voltage! This is for advanced experimenters only and not for the faint of heart! (Unless you buy the ECG Kit, then it's OK!)

PG13 Plasma Generator Kit
PS21 16VAC Output Power Adapter

\$64.95
\$19.95

Air Blasting Ion Generator

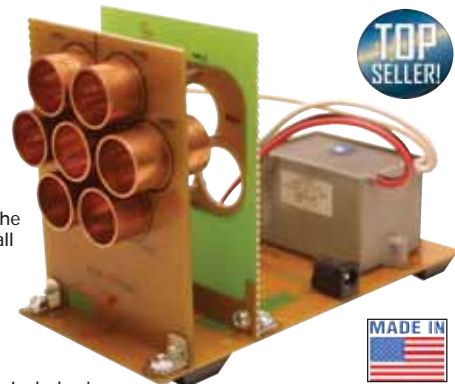
- ✓ Generate negative ions along with a blast of fresh air without any noise!
- ✓ Generates a steady state DC voltage at a constant current, not pulsed!
- ✓ Generates 7.5kV DC negative, 400uA. That's a lot of ions!



**Generate A Breath
Of Fresh Air!**

This nifty kit includes a pre-made high voltage ion generator potted for your protection, and probably the best one available for the price. It also includes a neat experiment called an "ion wind generator". This generator works great for pollution removal in small areas (like after grandpa gets done in the bathroom!) and moves the air through the filter simply by the force of ion repulsion!

No fan blades, no noise, just swiftly moving, charged air! Gee, have we heard of this technology on a boatload of air cleaner infomercials lately? It's amazing when you get this built and actually feel the air flow and smell the very special clean ion smell. The first engineering prototype quickly went into the Ramsey employee restroom!



Learn how modern spacecraft use ions to accelerate through space and why ion engines are ideal for long-distance space travel. Includes ion power supply, 7 ion wind tubes, and mounting hardware for the ion wind generator. Runs on 12-15VDC at 500mA. (Caution...do not grab the output of the transformer, all the ions may be sucked out of your body! And don't you just hate it when that happens!)

IG7 Ion Generator Kit
AC125 110VAC Power Adapter

\$64.95
\$9.95



Wired & Tested



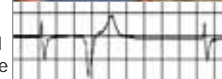
**Check Your
Own Heart &
Stay Healthy!**

Electrocardiogram ECG Heart Monitor

- ✓ Visible and audible display of your heart rhythm
- ✓ Re-usable sensors included; just like visiting the lab at the hospital!
- ✓ Bright LED "Beat" indicator for easy viewing
- ✓ Monitor output for professional display on your oscilloscope



At Ramsey Electronics® we think every day should be healthy heart day, and there's no better way than to watch your own heart! Not only will building an actual ECG be a thrill, but you'll get hands-on knowledge of the relationship between electrical activity and the human body. Each time the human heart beats, the heart muscle causes small electrical changes across your skin. By monitoring and amplifying these changes, the ECG1C detects the heartbeat and allows you to accurately display it, and hear it, giving you a window into the inner workings of the human heart and body! Use the ECG1C to astound your physician with your knowledge of ECG/EKG systems. Enjoy learning about the inner workings of the heart while, at the same time, covering the stage-by-stage electronic circuit theory used in the kit to monitor it. The three probe wire pick-ups allow for easy application and experimentation without the cumbersome harness normally associated with ECG monitors.



Look what I found!

The documentation with the ECG1C covers everything from the circuit description of the kit to the circuit description of the heart! Multiple "beat" indicators include a bright front panel LED that flashes with the actions of the heart along with an adjustable level audio speaker output that supports both mono and stereo hook-ups. In addition, a monitor output is provided to connect to any standard oscilloscope to view the traditional style ECG/EKG waveforms just like you see in a real ER or on one of the medical TV shows! See the display to the right? That's was me, when I noticed some skipped beats in my pulse! An immediate cardiac check found I had Trigeminy, or PVCs that occur at intervals of 2 normal beats to one PVC! And I saw it with our ECG1 kit!

The fully adjustable gain control on the front panel allows the user to custom tune the differential signal picked up by the probes giving you a perfect reading and display every time! 10 hospital grade re-usable probe patches are included together with the matching custom case set shown. Additional patches are available in 10-packs. Operates on a standard 9VDC battery for safe and simple operation. Note, the ECG1C is intended for hobbyist usage only. If you experience any cardiac symptoms, seek proper medical help immediately!

ECG1C Electrocardiogram Heart Monitor Kit With Case
ECG1WT Factory Assembled & Tested ECG1 With Case And Power Supply
ECGP10 Set of 10 Replacement Reusable Probe Patches

\$44.95
\$89.95
\$4.95

200 kV Van de Graaff Generator

Wired & Tested

KIT

- ✓ 200,000 volt potential!
- ✓ Sparks up to 5"!
- ✓ Operates in high humidity!
- ✓ Factory assembled & tested

*Dazzle Them With Huge Sparks!
Make Their Hair Stand Up On End!*



VG200W
Discharge
Wand

Create your own lightning with these time-tested devices that have delighted students for decades! Named after the inventor Van de Graaff, a physicist who built the first generator in 1929 at Princeton University. This machine produces low-amperage static electricity that can be "shocking" but perfectly safe. Two different pulleys with 2 neoprene belts inside a 1 $\frac{3}{4}$ " plastic column create and carry a static charge up to the 7" polished aluminum collector globe. You can draw out this static charge in a burst of lightning, sparks, or you can even set each hair on your head on end! It's an incredible display!

The entire unit is 18" tall, runs on 110VAC, and includes a ground clip for discharge wands. Our comprehensive instruction book tells you how to raise hair, produce lightning and electric wind, experiment with St. Elmo's fire or electrostatic attraction and repulsion. For a stunning display, use the matching "discharge wand" with your VG200 and watch the sparks fly between the two globes!



If you're looking for a really neat experience and want to learn the basics at the same time, the Van deGraaff generator kit is for you. If you can't wait to build it and just want to have a ball with the sparks, we even offer it factory assembled and tested! Your choice! If 200 kV isn't enough zap for you, check out our VG400 below! *(My kid didn't believe me that these will make your hair stand straight up... now he believes!)*

VG200WT 200kV Van deGraaff Generator, Factory Assembled & Tested
VG200W Matching Discharge Wand, 1.3' Rod

\$139.95
\$69.95

Wired & Tested

*When 200,000 Volts...
Just Isn't Enough!*

400 kV Van de Graaff Generator

- ✓ Super high output, 400,000 volt potential!
- ✓ Generates sparks up to 12"!
- ✓ Heavy duty construction throughout
- ✓ Factory assembled & tested

What's the matter, our 200 kV Van deGraaff doesn't have enough "stooch" for you? You want even more of your hair to stand straight up? You want foot long sparks? Well, for you die-hard shock fans, here you go: how does 400 kV sound? Just like its little brother the VG200, it can create lightning and make hair literally stand up on end! The VG400 produces up to 400,000 volts with special neoprene belts inside a 3" diameter transparent butyrate column to carry the 10 microamp charge up to the whopping 13" polished aluminum globe! It proudly stands 35.5" tall with a very heavy metal base for rock stable operation.

The foolproof brush assembly never needs adjustment to guarantee flawless operation... and lots of sparks! The VG400 runs on 110VA and includes a power cord, on/off switch, and a grounding terminal for discharge wands. Just like the VG200, we include a comprehensive instruction book that nicely describes all the experiments and displays you can produce.

If you really want to put on a show use the heavy duty matching VG400W discharge wand and watch the action between them! Grounded to the VG400WT the sparks really fly! It's incredible and produces a fantastic display! The high power VG400 is available factory assembled and tested only to assure you perfect and safe operation. When you receive it, just plug it in and you'll have a hair-raising experience... we guarantee it! If you have a hankering to safely play around with 400,000 volts, check out this high-power Van deGraaff generator!



VG400WT 400 kV Van deGraaff Generator, Factory Assembled & Tested
VG400W Matching Discharge Wand, 2.6' Rod

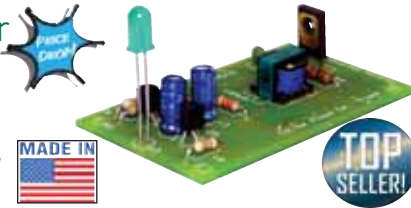
\$469.95
\$72.95



VG400W
Discharge
Wand

Tickle-Stick Shocker

- ✓ Shocking but harmless fun!
- ✓ You'll let go quick
- ✓ Teasing LED indicator!



Get The Shock Of Your Life!

Tickle or stimulator - take your pick... once you grab it, you'll let go quick!! Mount this little kit plus a secret switch - like a mercury tilt switch - in an ingenious can or box and watch the fun. Adding a bright ribbon bow is remarkably effective at baiting the unwary! The kit has a pulsing 80 volt tickle output and a mischievous blinking LED. And who can resist a blinking light!

Great fun for your desk, workbench, or coffee table... "Hey, I told you not to touch!" Runs on 3-6 VDC battery power (not included). This kit has become a fixture at our Hamfest displays, providing us, and others who are in the know, hours of fun! Measures 1 $\frac{1}{2}$ " x $\frac{3}{4}$ " x 2 $\frac{1}{2}$ ".

TS4 Tickle Stick Kit

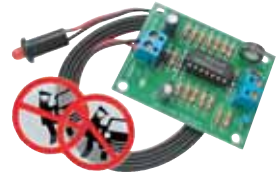
KIT

\$9.95

Car Alarm Simulator

- ✓ Activates automatically when engine is off!
- ✓ Easy to install, just two wires!
- ✓ Adjustable sensitivity!
- ✓ Includes pre-wired LED holder and labels!

Keep Them Away From Your Car!



When car thieves are scoping out prospective targets, sometimes all it takes is the appearance of an alarm system to deter them... and its certainly a heck of a lot cheaper than the real thing! With this nifty kit you can put your own "dummy" alarm together to save yourself some cash, and maybe your car in the process!

This little kit gives you a realistic-looking flashing LED sequence that simulates the appearance of an active car alarm system! For added convenience, it also hooks directly into your cars electrical system to automatically enable the alarm simulation when you shut your engine off! Give yourself a little extra insurance with this affordable kit from Velleman!

MK126 Car Alarm Simulator Kit

KIT

\$79.55

Classic Table Tennis Video Game

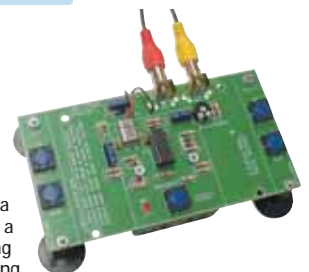
- ✓ Build the classic game that started it all!
- ✓ 2-player head to head mode!
- ✓ Single player with 4 levels!
- ✓ RCA video and audio outputs!

Go Back In Time, After You Build It!

Today, videogames are a 10 billion dollar industry, generating even more revenue than the Hollywood film business, but it all started in 1972 with a simple table tennis simulation that soon found its way into bars, and later homes, all over the country! Now with the MK121 you can put together a fun kit that will certainly take you back to the early days of gaming! Once complete, you can plug this kit directly into your TV for a fun retro gaming experience for the whole family! Control the paddles with one of four movement buttons, and your score is displayed on screen! Test your soldering skills then test your ping-pong skills! Powered by 3 AA batteries (not included). Measures 2.9" x 5.5". From Velleman.

MK121 Table Tennis Video Game Kit

KIT



\$17.95