



December 10th

Gadgets,  
Gizmos, and  
Great Gear for  
the New Year!



Audio Engineers  
Who Want to Know More



Preserved Presentations  
of Participation for Posterity

# TorontoAES.org

We unite Audio Engineers Socially

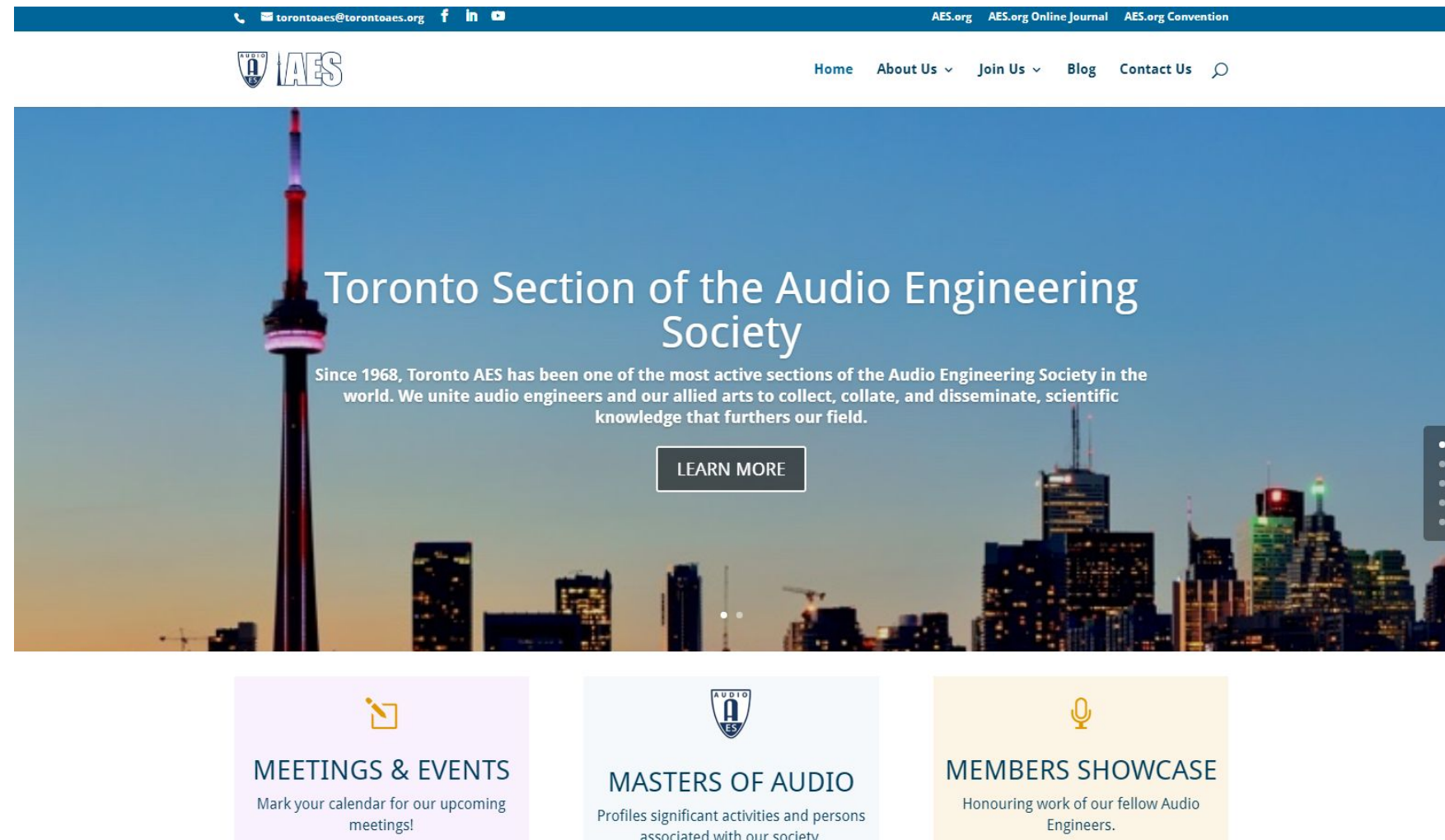
Within our allied arts we collect, collate, and disseminate scientific knowledge that furthers all fields of Audio Engineering

The AES aims to empower people of all ages through participation in a healthy safe open community presentation

Male <> Female <> ++ <> -- <> (๖\_๖) <> 101100 <> ~~~~~

Learn Audio Engineering through  
Events, Presentations, Networking and Mentorship

# TorontoAES.org





## Toronto AES Appreciates the Continuing Sponsorship and Support of



### OUR SUPPORTERS





## GIFT AN AES MEMBERSHIP



### WHY GIFT AN AES MEMBERSHIP?

Gifting an AES membership — new or renewal — allows the person of your choice all the benefits of AES membership for one complete year (or more). AES is the only society devoted exclusively to audio technology.

For professionals that means instant access to latest developments and events in the audio industry and networking opportunities.

For students, it opens the doors to their future industry connecting them to the world's greatest professional and education audio network.

**So start now! Simply fill out the form below!**

<http://AES.org/join>





### AES Toronto - StageVision's Pandemic Pivot

252 views •

Streamed 2 months ago



### NOISE

134 views •

Streamed 4 months ago



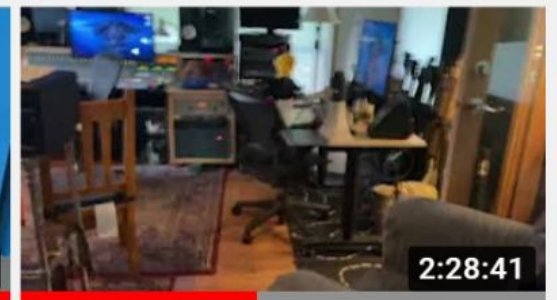
### NOISE - TorontoAES - Ike Zimbel and Warren Beck

119 views • 4 months ago



### Visit [www.TorontoAES.org](http://www.TorontoAES.org)

17 views • 4 months ago



### 20210423 - AES - Recording in 'Isolation'

177 views •

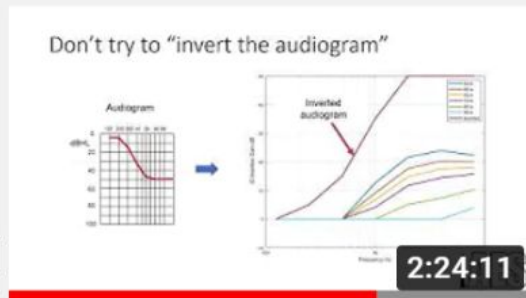
Streamed 5 months ago



### 20210323 - AES Toronto - TAES - The Next Generation

196 views •

Streamed 6 months ago



### Toronto AES - Hearing Fatigue - "Life in...

435 views •

Streamed 7 months ago



### AES Toronto - Microphone Techniques

392 views •

Streamed 8 months ago



### 20200526- Toronto AES - Diversity and Inclusion in...

54 views • 8 months ago



### 20201215 - Gadgets and Gizmos, Tools and Toys

247 views •

Streamed 9 months ago



### GGGarth Richardson, Doug McClement, Jeff Wolpert,...

302 views •

Streamed 10 months ago



### Mission Possible 02 Mariana Hutten

71 views • 1 year ago



### Mission Possible 03 Michael Philip Wojewoda

38 views • 1 year ago



### Mission Possible 04 Jeff Wolpert UofT

29 views • 1 year ago



### Mission Possible 05 Rich Wattie Eastman School of...

20 views • 1 year ago

## **Our Executive**

**Chair:** Anthony P. Kuzub

**Vice Chair:** Christopher Sampson

**Past Chair:** Ross Whitney

**Treasurer:** Jeff Bamford

**Secretary:** Alan Clayton

**Membership:** Mariana Hutten

**Diversity:** Bryan Martin

**Bulletin Editor / Webmaster / Marketing:**

Anthony P. Kuzub

## **Committee**

### **Members:**

Anjali B. Arnold

Najeeb Khan

Warren Beck

James Boutilier

Dan Mombourquette



Want to be involved?

GET IN TOUCH

Toronto [AES@TorontoAES.org](mailto:AES@TorontoAES.org)

# 2024 Top Value Add Gadgets & Software

Christopher Sampson



# Christopher Sampson

Broadcast A1- News, Sports, Variety, Music

Audience FX/Sweetening

Live FOH/Monitor Engineer

Post Sound Editor/Mixer Long format, Doc, Promos

ENG Mixer on location

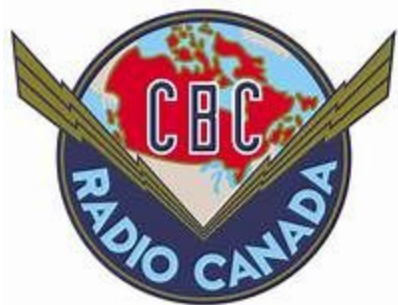
Electronics Hobbyist

Vice-Chair Toronto AES

Passionate Audioholic

Father

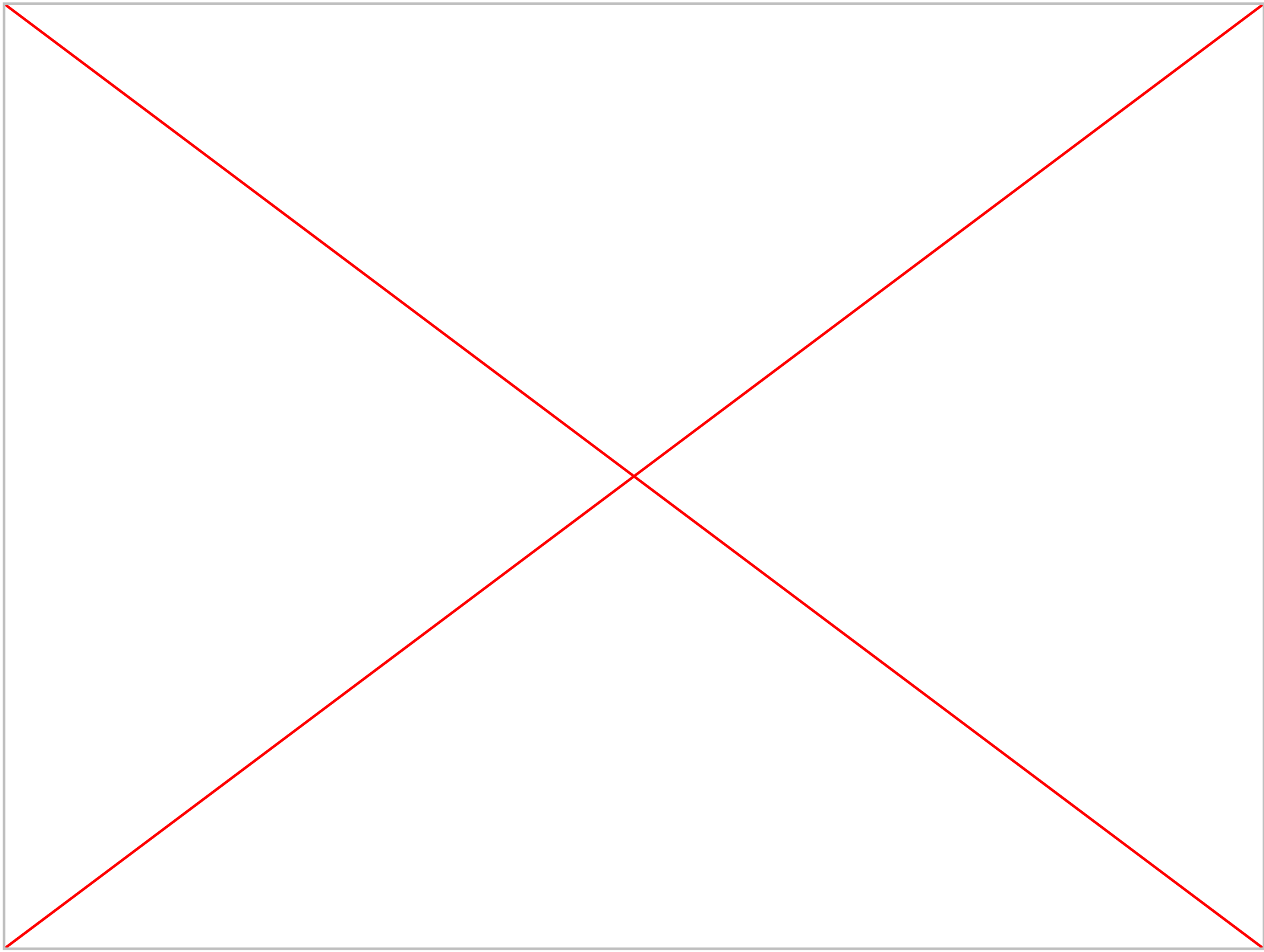


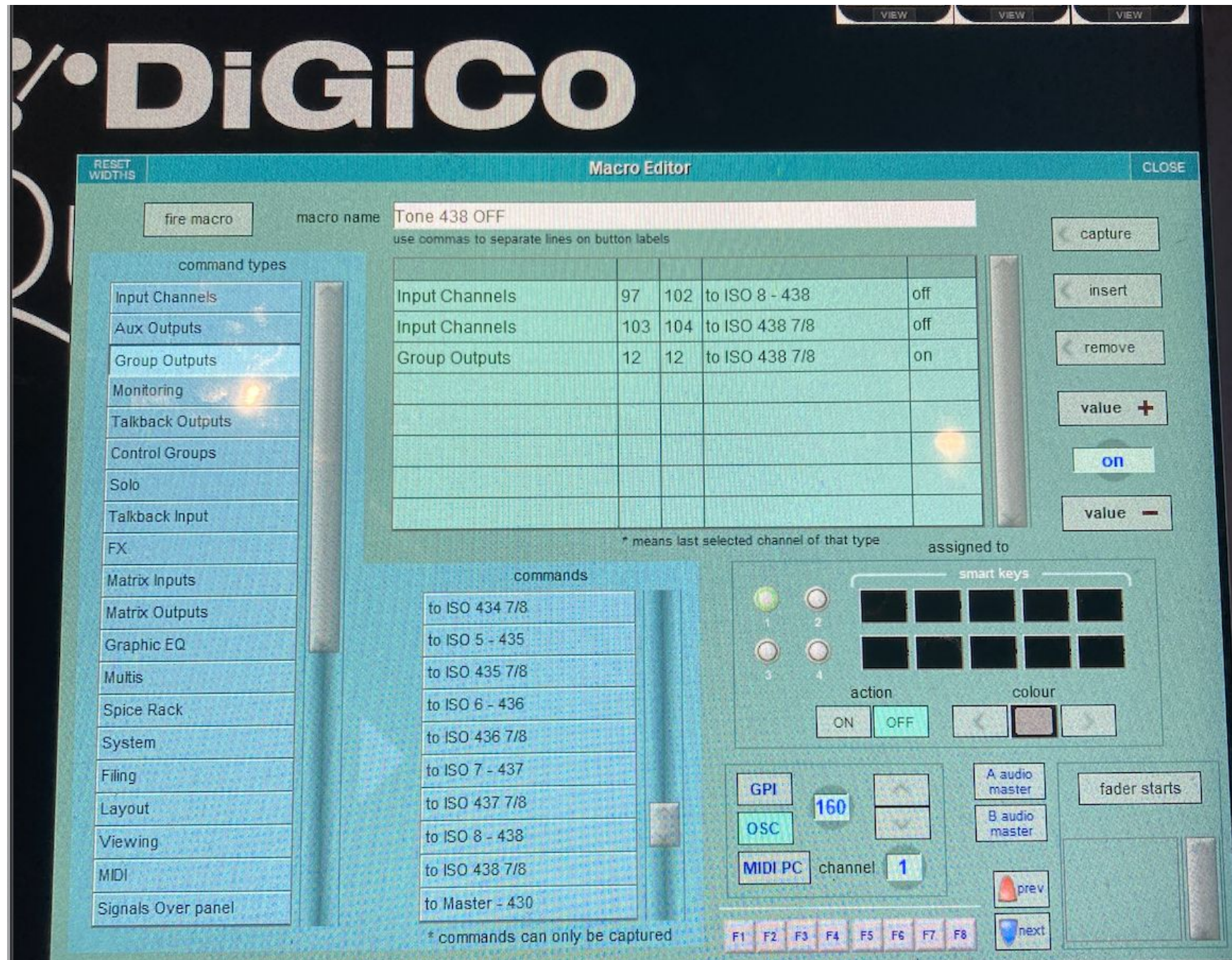


# CBC STUDIOS TORONTO ARC43 QC AND ISO DISTRIBUTION












# elgato

## STREAM DECK

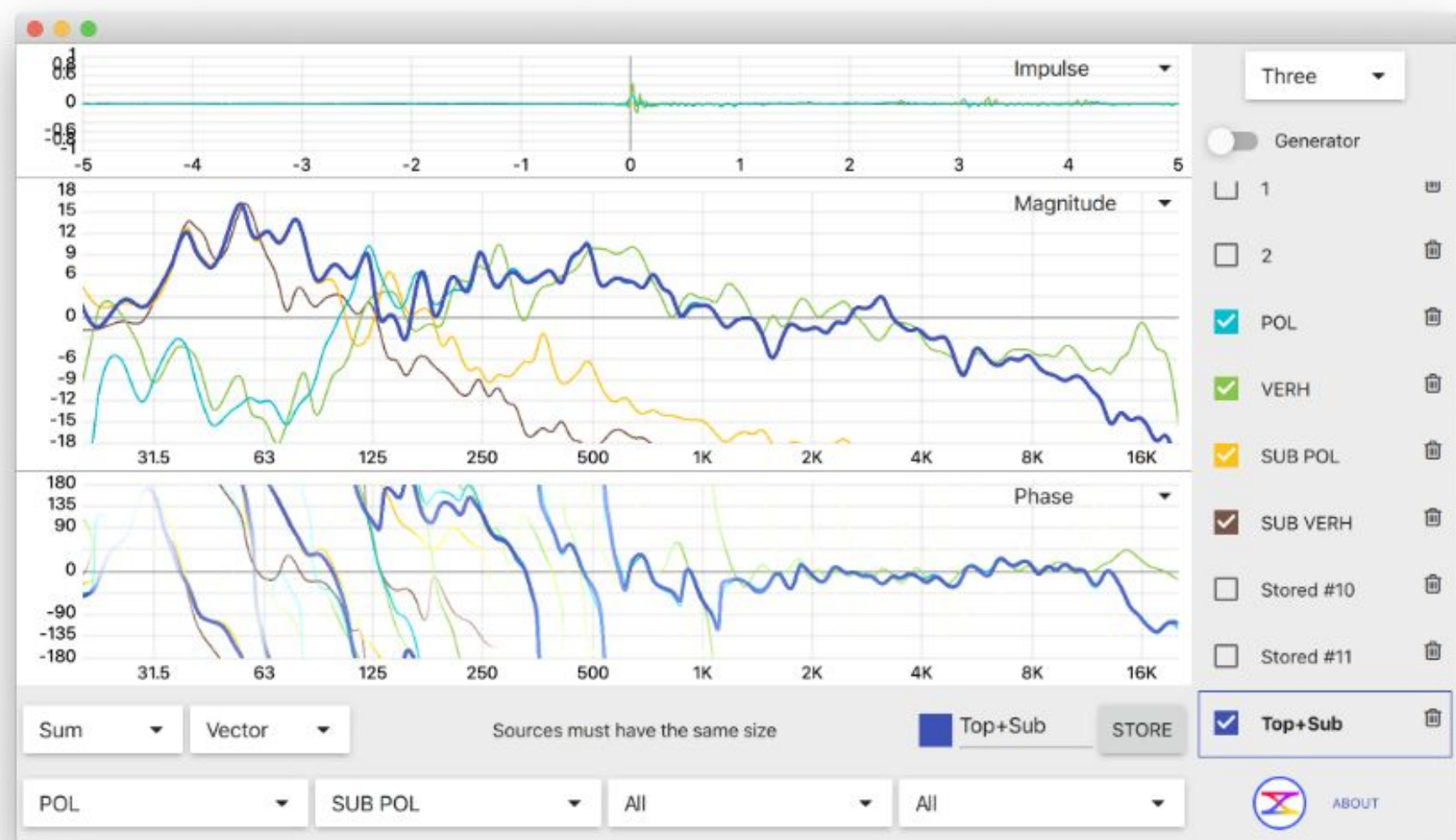
+

  
**Companion**





# Open Sound Meter

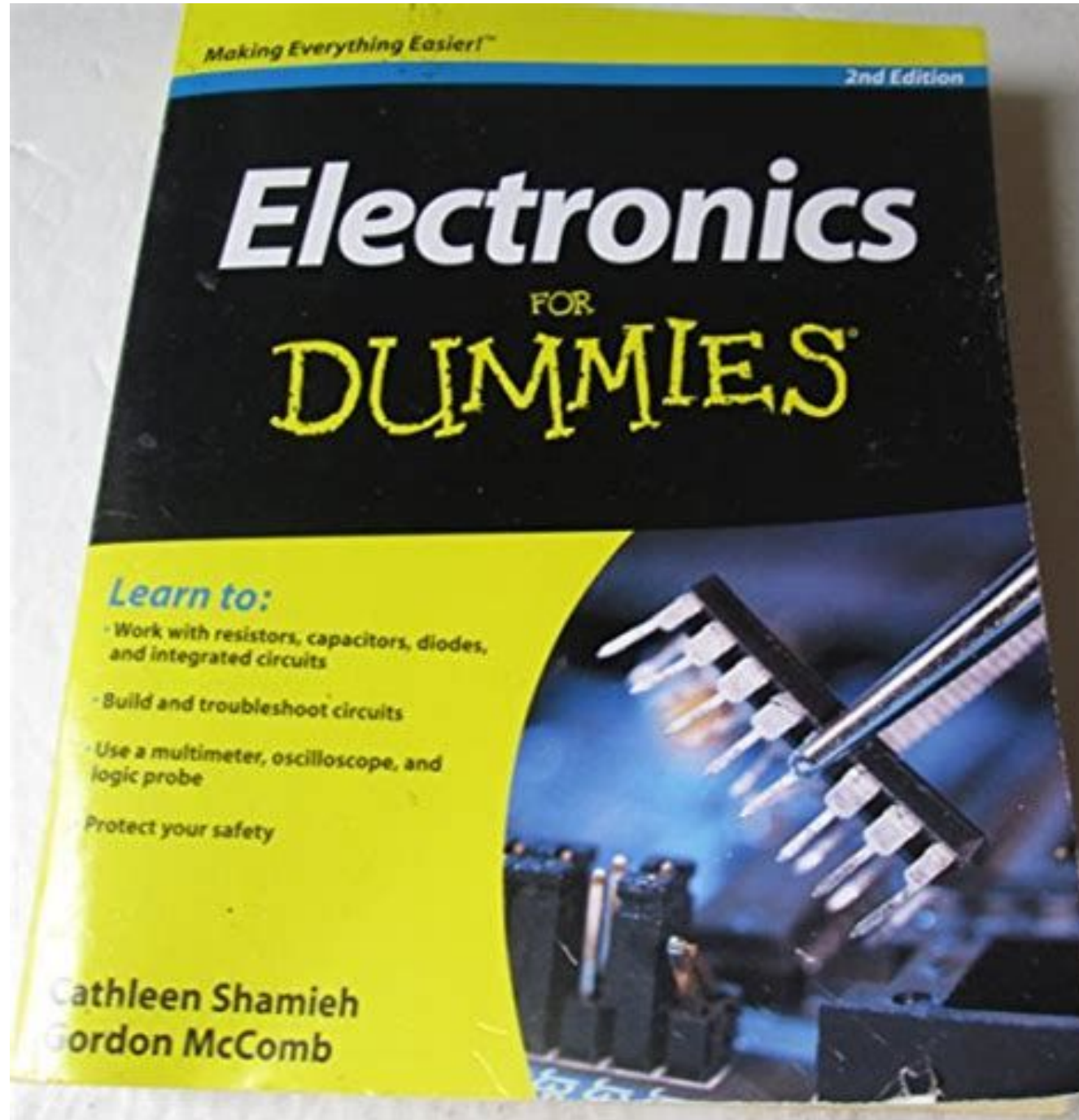


<https://opensoundmeter.com/en/>



\$50

I Bought...



\$200

- Soldering Station
- Helping Hands & Vice
- Digital Multimeters
- Screwdrivers
- Side Cutters
- Pliers
- Magnification
- Resistor bender
- Tube Probe Sockets
- Hairball Audio 1176
- Bluestripe Rev A
- Compressor Kit w/Gyraff
- Rev A PCB

Making Everything Easier!

4th Edition

# Networking

ALL-IN-ONE

FOR

# DUMMIES®

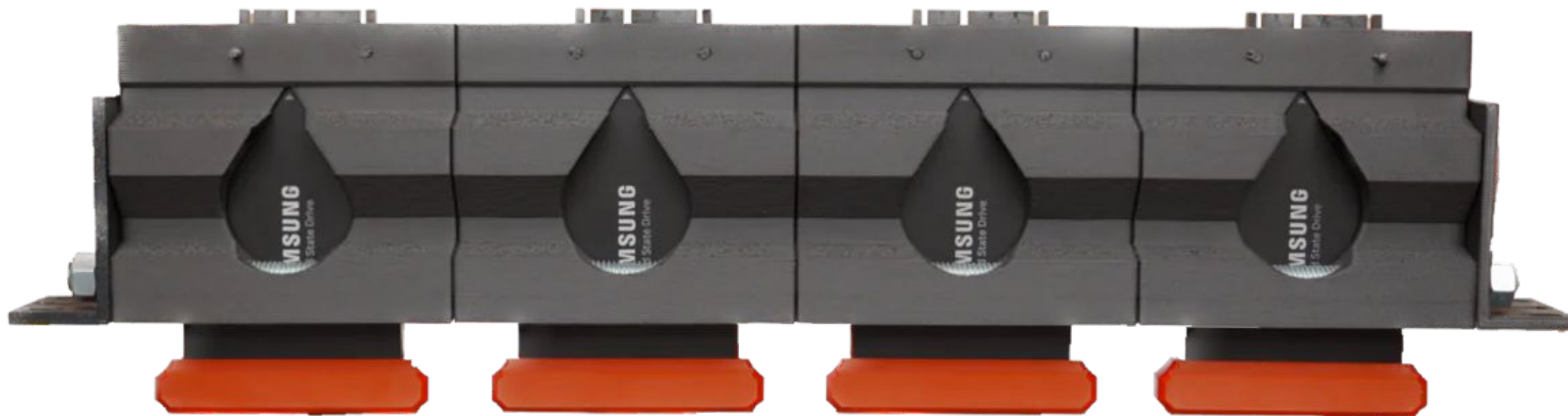
9 BOOKS  
IN 1

- Networking Basics
- Building a Network
- Network Administration and Security
- TCP/IP and the Internet
- Wireless Networking
- Mobile Networking
- Windows Server® 2008 R2 Reference
- Using Other Windows Servers
- Managing Linux® Systems

Doug Lowe



# CAMERA FOUNDRY



<https://camerafoundry.com/products/ssd-rack-mount>



# DIYRE



DIYRE

## 73P Class-A Mic Preamp

★★★★★ 20 reviews

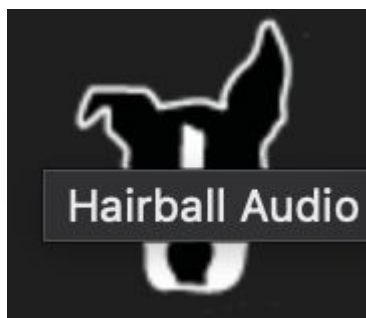
\$400.00

- ✓ Full Kit
- 📖 Step-by-Step Guide
- ✓ Supported
- ✓ \$50 Repair Policy
- 🔧 Intermediate

ADD TO CART

<https://www.diyrecordingequipment.com/>





# FET/RACK Revision A Complete DIY Kit

\$650.00 USD

[SELECT OPTIONS](#)



## The Blue Stripe

Often referred to as a “Blue Stripe”. These units were the first commercial revision and have a silver panel with a distinctive blue stripe over the VU meter. The signal and line amp are based on the 1108 mic pre and use a FET as the first active component in each amp stage (all other revisions use a bipolar transistor). The gain reduction FET in this model has a unique circuitry around it, different from all other models (notably the lack of source resistor). This results in a little more distortion that helps define the “Blue

— analog **N** vibes —  
~ est. 2017 ~

# Build your legends.

Why bother with digital emulations of vintage gear when you can have the real thing?

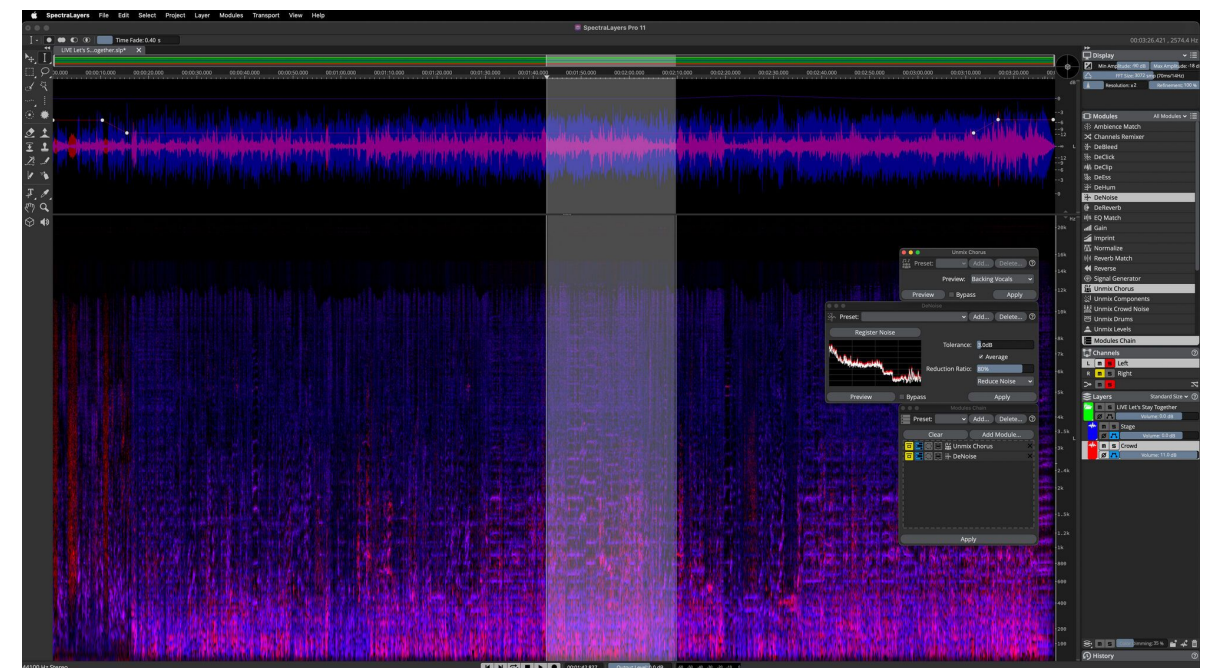
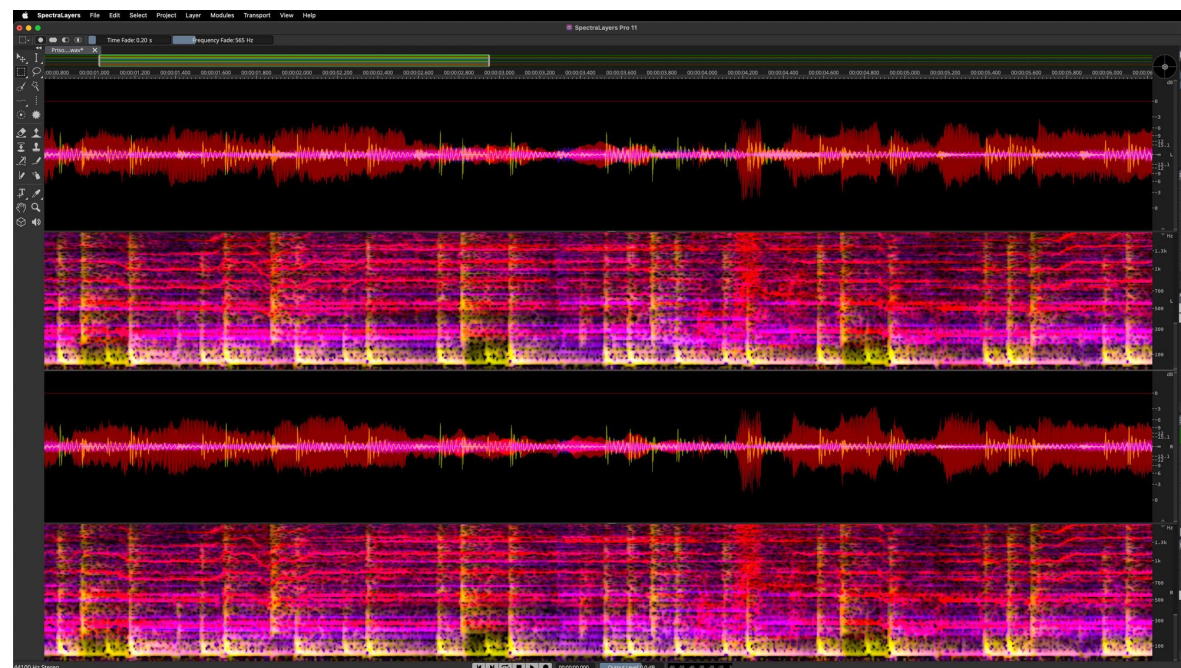


<https://analogvibes.com/>



# steinberg

## SPECTRALAYERS PRO



<https://www.steinberg.net/spectralayers/>





<https://soyuzmicrophones.com/013-ambisonic>

# CUSTOM CONTROL READY TO GO

The 013A plugin bundle allows you to re-imagine your recordings and sculpt the sound field to your liking. Exploring new ideas couldn't be any more simple.

We've partnered with Audio Brewers to develop a custom ambisonic transcoder and decoder plugin suite tailored specifically for the 013 Ambisonic and compatible with every major DAW.

Together, the 013 Ambisonic and included custom Soyuz plugins provide unlimited possibilities for creativity that translates into any configuration: stereo, headphones, surround, atmos - the choice is endlessly yours.



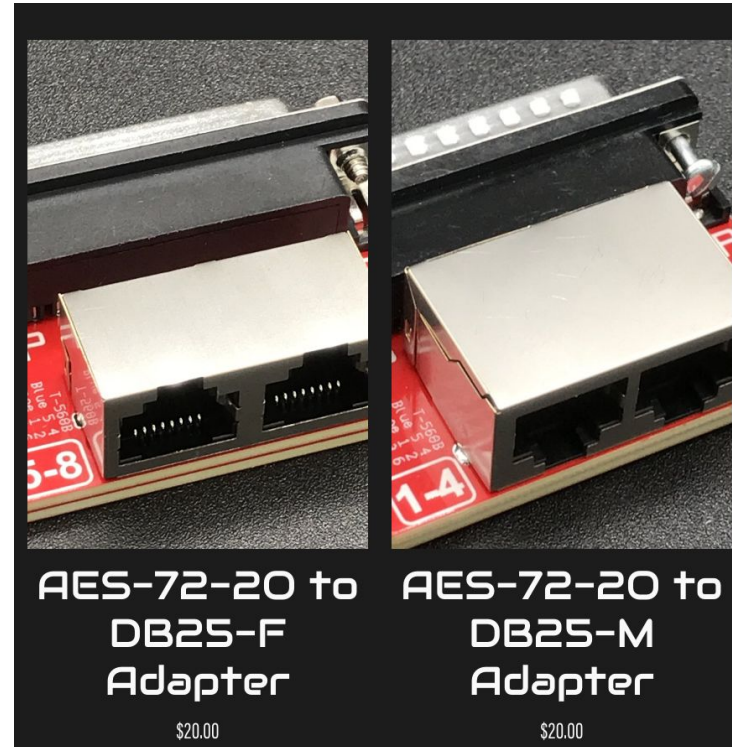
## Transcoder

The Soyuz transcoder is matched exactly to the 013 Ambisonic's capsules, specs, and dimensions - instantly converting your signal to ambisonic "B Formats" with the extra ability of monitoring in real-time with zero latency.





# Catherine North Electronics



**Tristan Miller  
Coming Up...**

**Studios, Electronics, Acoustics,  
Recording, Synthesizers, More!**

<https://www.catherinenorthelectronics.com/>



# Ed S.

Wants to add 2 things



# Tristan Miller

Based in Hamilton and operating out of Catherine North Studios:

Tristan works internationally - providing a wide range of technical services for clients spread across Recording, Live, Broadcast, and Aerospace industries.

PCB design, fabrication, and component level repairs,  
Integration and programming of microcontrollers,  
Electrical and Electronic distribution systems,  
Acoustic measurements and treatment-design and fabrication.

Fascinated by complex systems and how components interact and communicate with each other.

Recently focused on product design, assembly, and distribution of devices that help simplify some of the common system integration steps in today's modern AV world.

Generic Synth nerd:  
Slowly building a product line of functional Eurorack synth module designs.

Cat Owner.



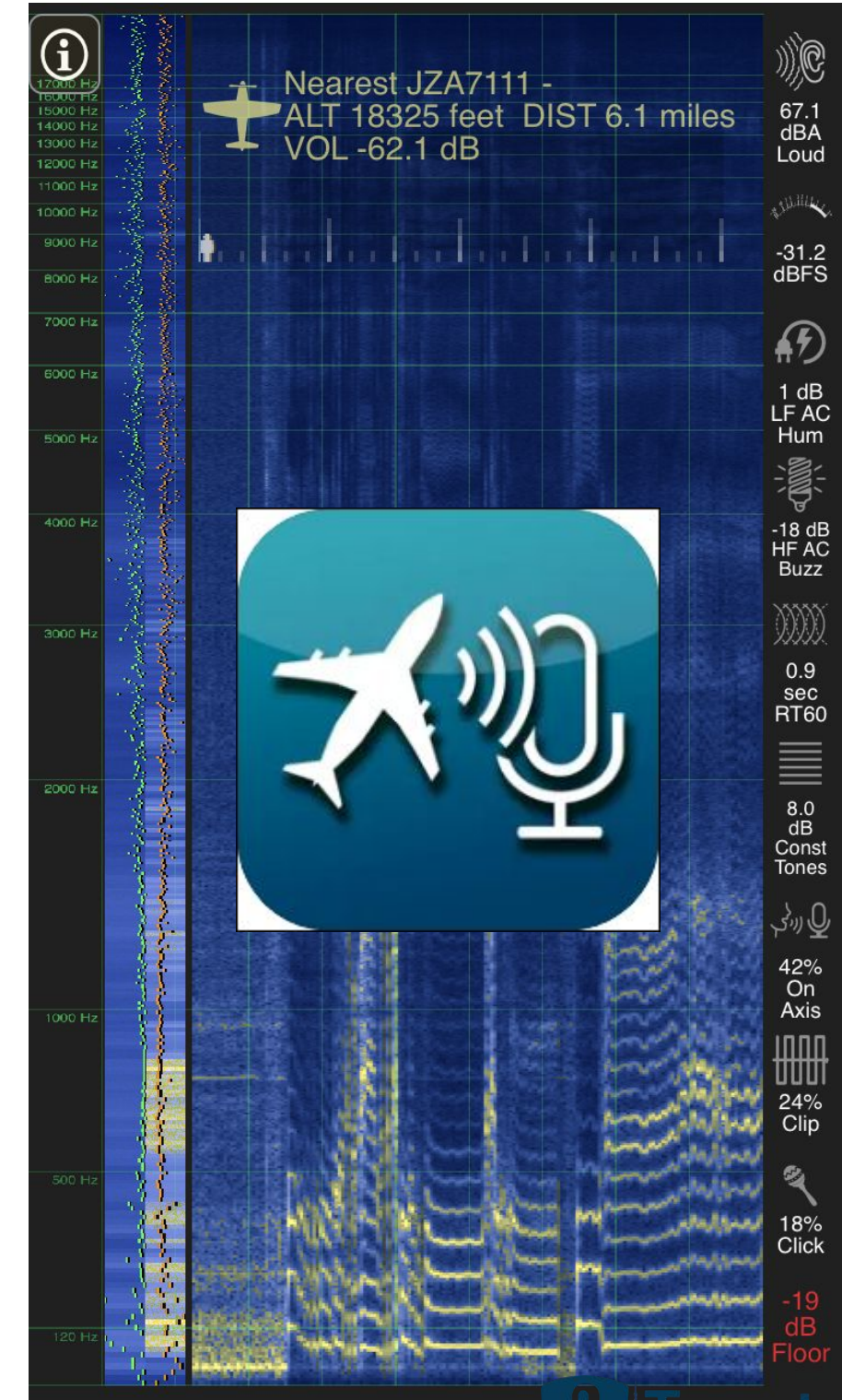
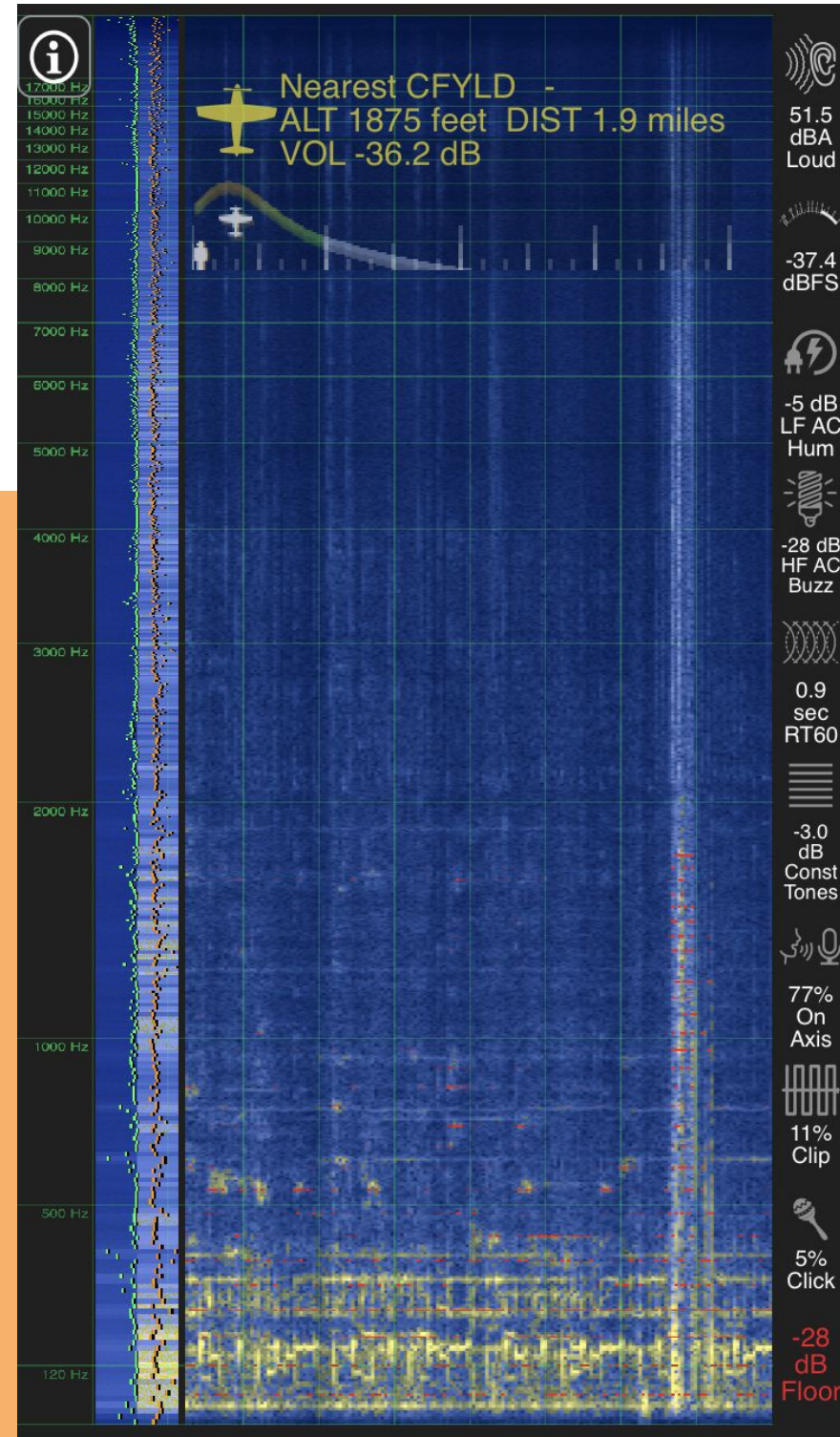
# Extra Ears

Jason Downer  
Phone / Ipad App  
Free!

**Spectrogram and sound analysis tool  
for field and film recording.**

**Virtual set of extra ears for a field or production.  
Listens for common recording problems,  
noise sources, and predict nearby aircraft and  
resulting estimated noise levels.**

- Real-time FFT analyzer
- Aircraft noise prediction
- Ground hum detection (50Hz or 60Hz)
- High Frequency Fluorescent hum detection
- RT60 reverb time estimation
- Distortion and Click detection
- Noise Floor estimation
- More!





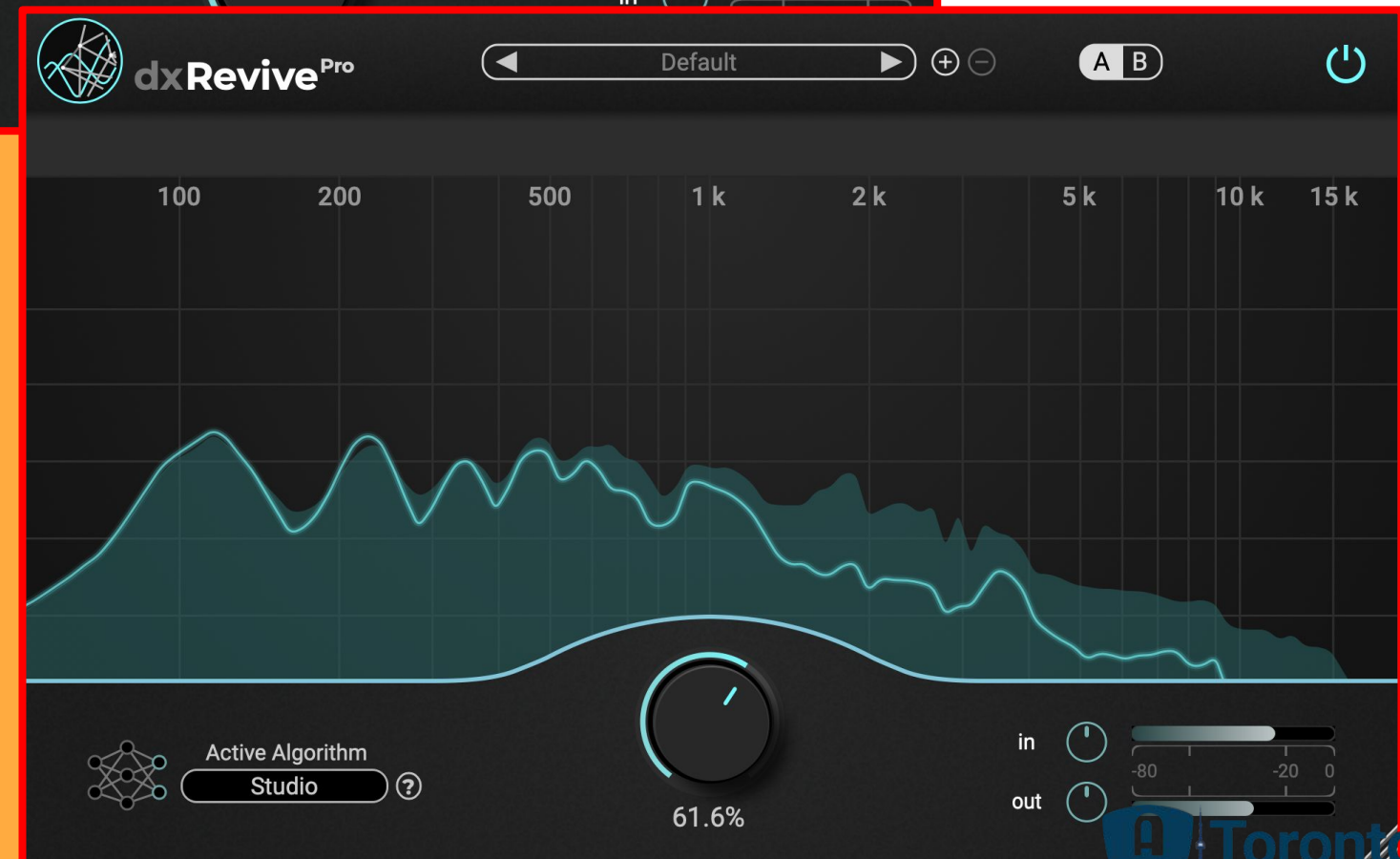
# dxRevive

Accentize.com  
Intelligent Audio Tools

**Versatile speech restoration plugin.**

**More than a set of complex filters:  
it identifies and rebuilds missing frequency components,  
Enhancing the overall tonal quality, coherence and intelligibility.**

- Noise removal
- Reverb suppression
- Restoration of absent frequencies
- Elimination of Codec Artifacts (e.g: Skype or Zoom recordings)
- Recovery of clipped audio
- Application of spectral corrections
- Restoration of band-limited audio like phone call recordings



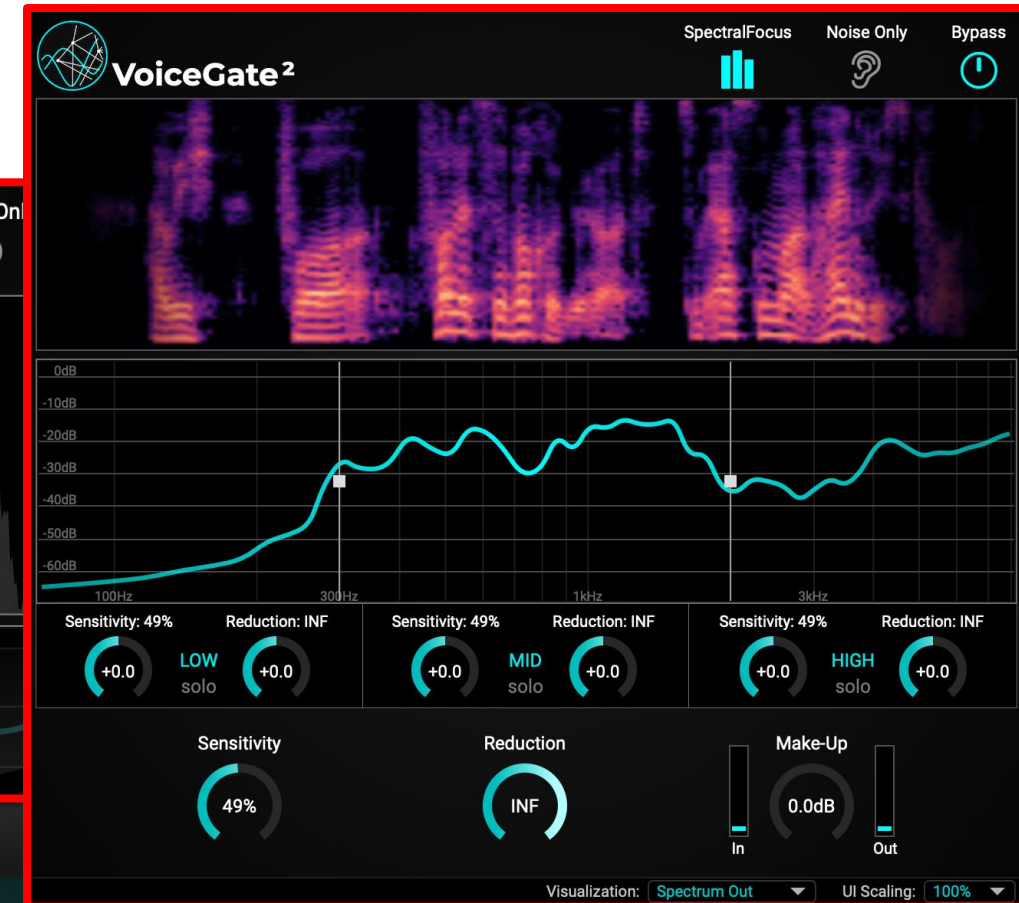
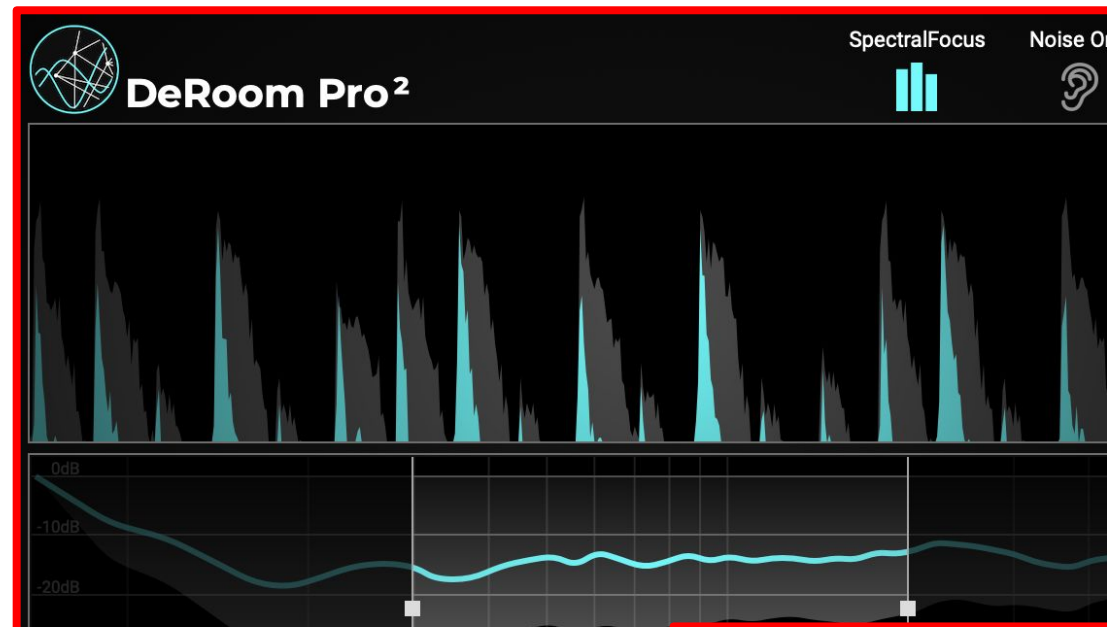


^^^ \*Start around 58-seconds\*



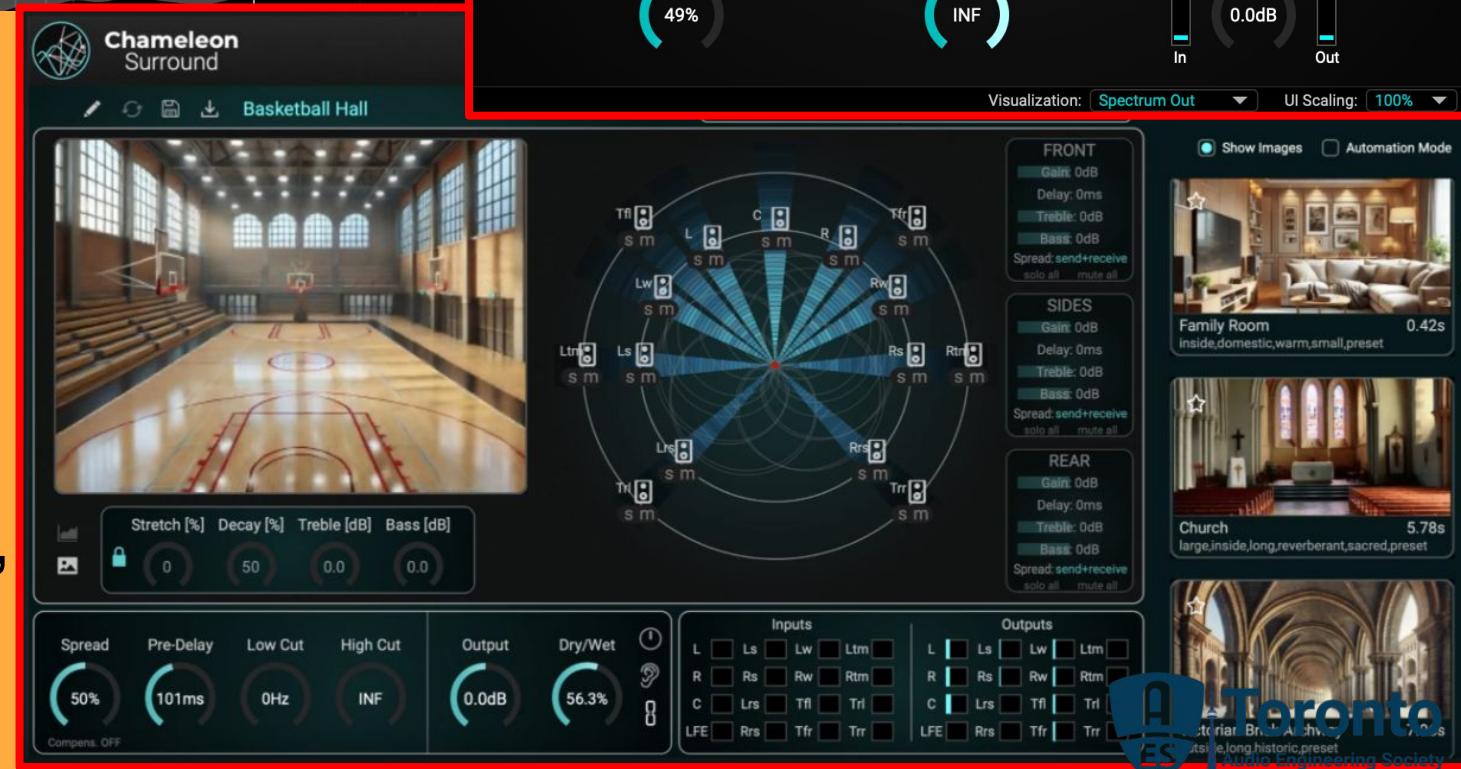
# Everything else from Accentize

Accentize.com  
It's all great!



Chameleon Surround - Immersive Reverb  
DeRoom - Reverb Removal  
Voice Gate - Noise Removal  
Spectral Balance - Automatic Speech EQ

Amazing collection of tools for audio cleaning,  
Restoration, recovery, automation.





# Water Soluble Liquid Fluxes and solder

For bulk assembly, manufacturing,  
hand and machine soldering processes.

Flux residue is **Easily cleaned** post soldering, with simple water.  
Increases productivity, appearance, and reliability of PCB assemblies.  
Low cost, removes the need for traditional 'Flux Removers' and Isopropyl.



# Hearing Protection & Monitoring

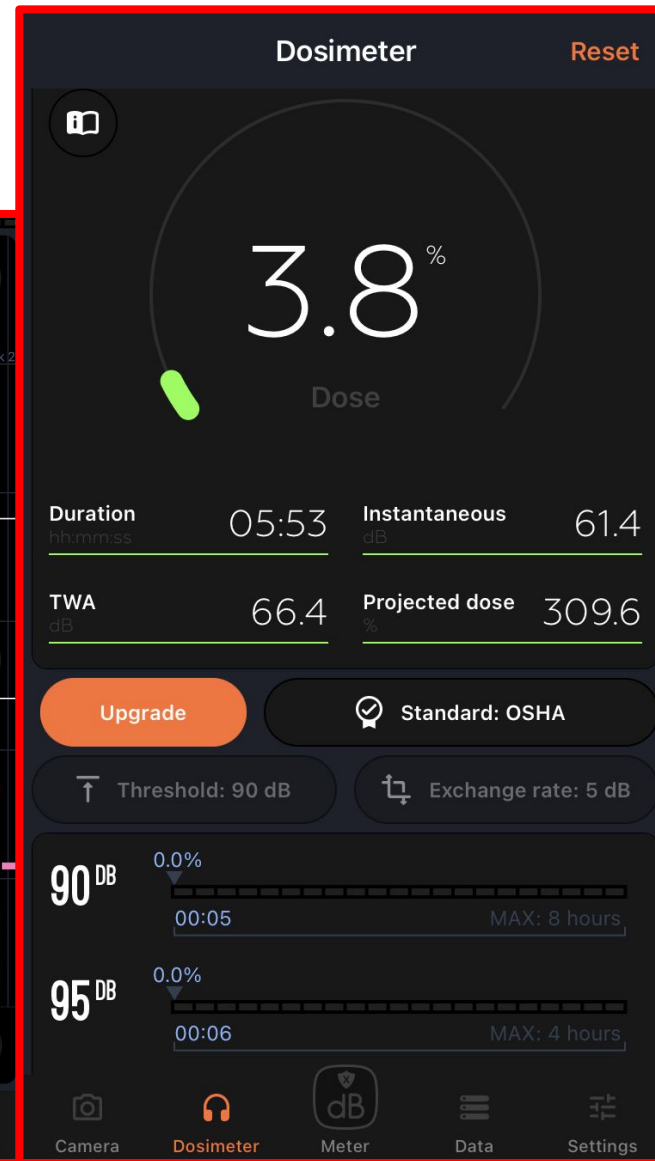
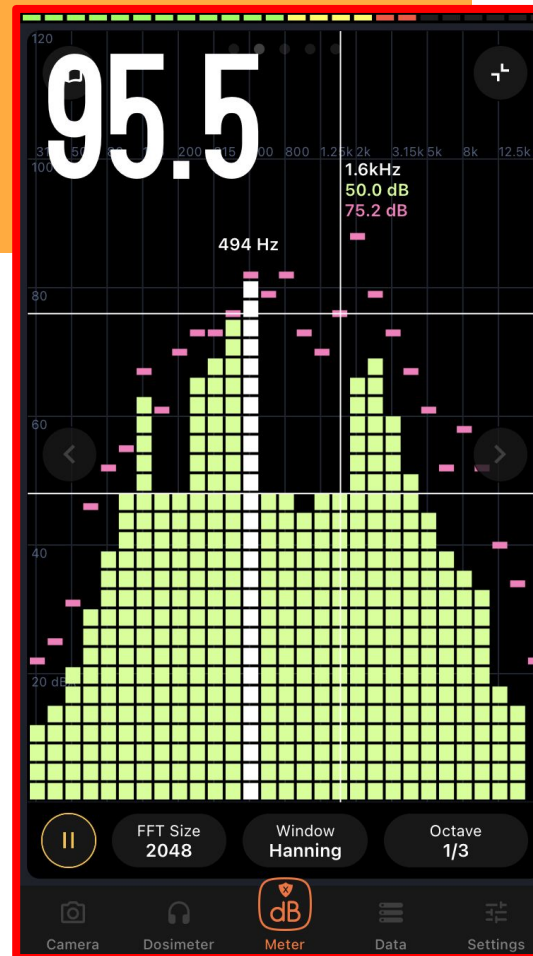
Decibel X

Thanh Dinh

Free version or subscription with more.

Protect your most important audio tools!  
When you are in a loud environment:  
Limit your exposure!

Turns iOS device into portable Sound Level Meter.  
Various weighting filters, Instantaneous and averaging,  
Dosimeter/Exposure monitoring,  
FFT, Bar-Graphs,  
dB-overlay on Camera Images,  
Health App and Watch Integration.





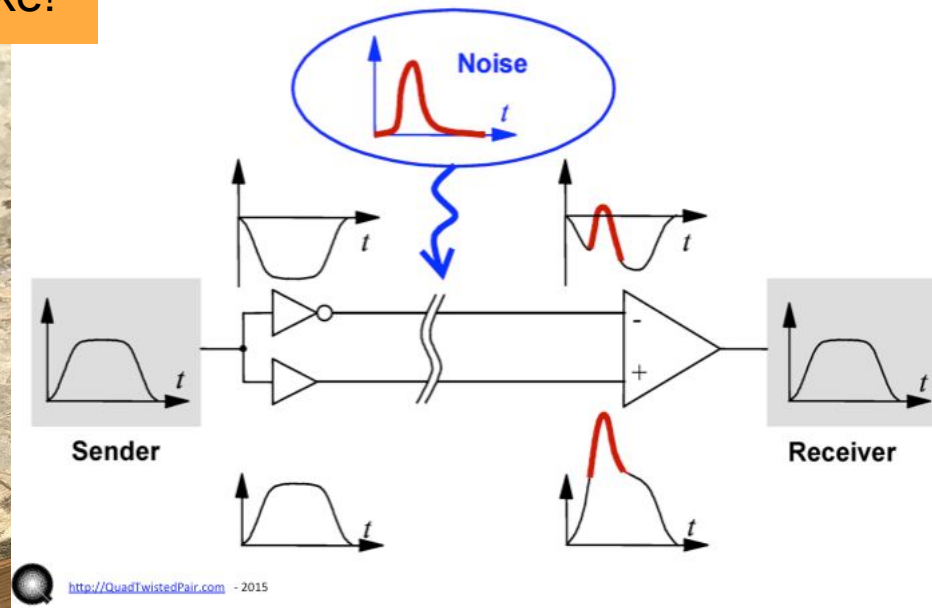
# AES-72 Devices:

## Balanced Signals over Cat5e cables

Quad Twisted Pair, SoundTools, Thomann, Neutrik, Redco, Sescom, Studio Hub, Lyx, and more.

Save cost on cable during installations!  
Cat5e can be used as a 4-channel Snake!

### Common-Mode Rejection Ratio



Warning: Talking about this can get you banned from some 'popular' facebook groups! :)



**BREAK**



December 10th

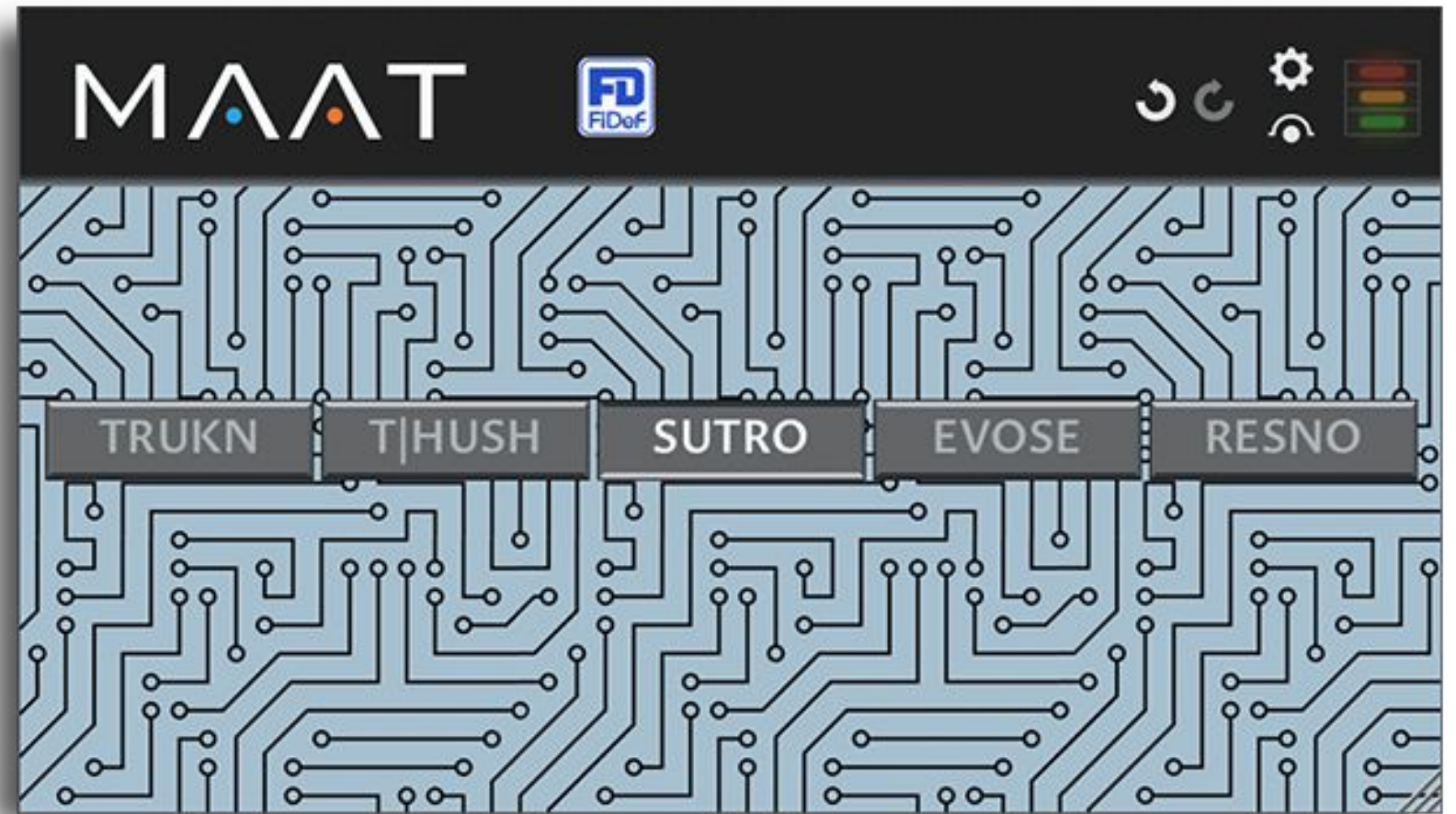
Gadgets,  
Gizmos, and  
Great Gear for  
the New Year!



# DOOR PRIZE

EMAIL:

Toronto AES@TorontoAES.org



FiDef® by FideliQuest is a very low amplitude, psychoacoustic stimulus designed specifically for audio engineers. It makes a receptive brain relax and pay closer attention to incoming audio stimuli. In brain physiology laboratory tests, FiDef has proven to enhance the subjective processes of listening and engagement.

<https://www.maat.digital/fidef/>



Audio Engineers  
Who Want to Know More



Preserved Presentations  
of Participation for Posterity

## Toronto AES Appreciates the Continuing Sponsorship and Support of



### OUR SUPPORTERS





## Anthony P. Kuzub


Sr. Systems Designer at CBC/Radio-Canada, has been a dedicated AES member since 2009, actively participating in numerous technical and standards committees. These include Network Audio Systems, Analog and Digital Input/Output Interfacing, Audio File Transfer and Exchange, and many others. He has significantly contributed to the development of AES standards and protocols, particularly in networked audio and media control.



A Hobby is actually two  
Hobbies:

The Hobby, and Shopping  
for the Hobby





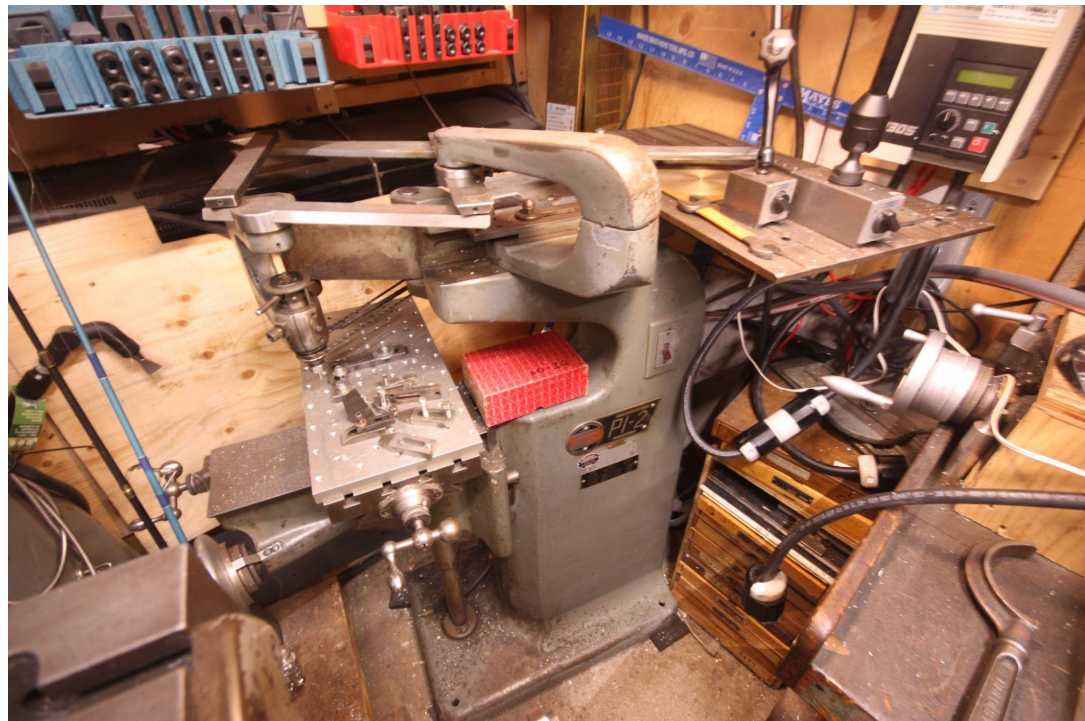
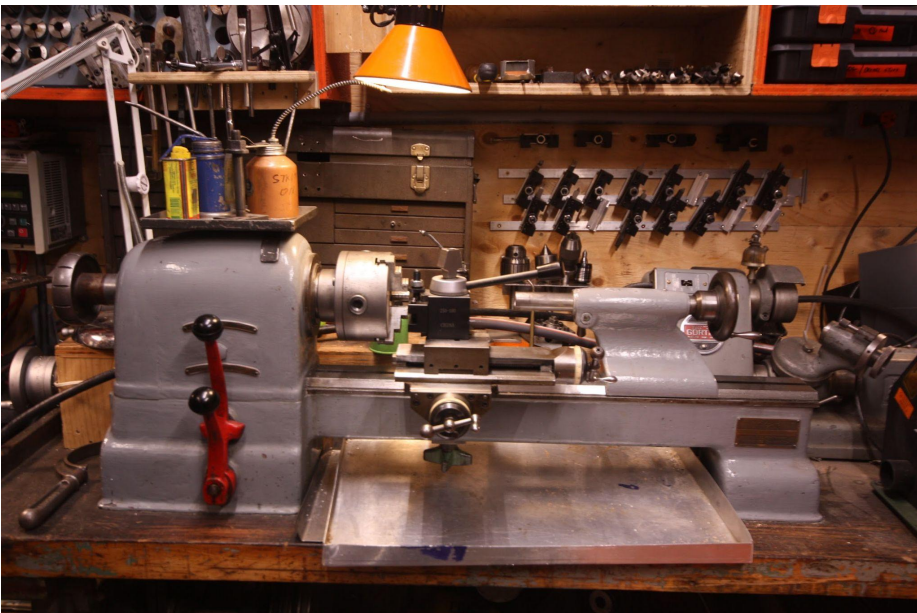
**Heads up: Not really endorsing anything...  
These are things that I think are cool and worth Sharing**





<https://like.audio/20241107/shop-cleanup-20241106/>









<https://like.audio/20240612/gpib-shop-tools/>



# Recording Studio Survival Guide



[https://like.audio  
/20241204/recording-studio-survival-guide/](https://like.audio/20241204/recording-studio-survival-guide/)



# Recorders: Fancy



teenage engineering  
TP-7 Digital Tape  
Recorder





# TEENAGE ENGINEERING TP-7





# Recorders: Portable



Tentacle Track E



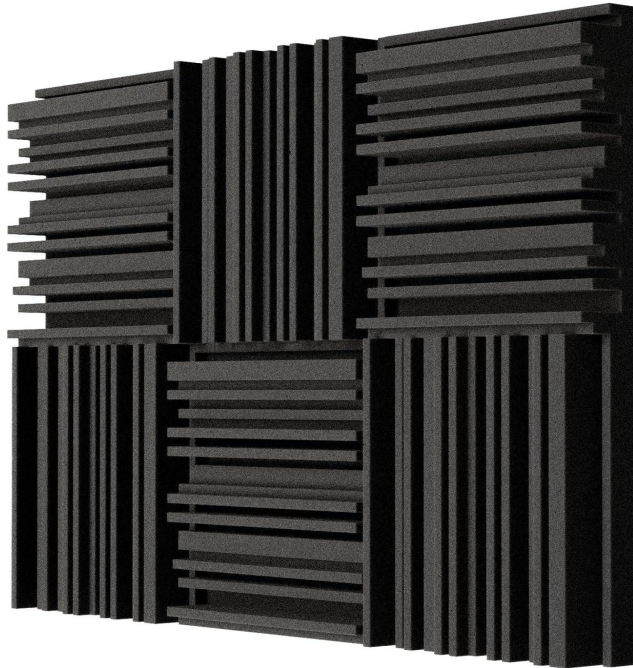


# Acoustic Wall Treatment

\$75



\$19



\$16



\$28



\$77



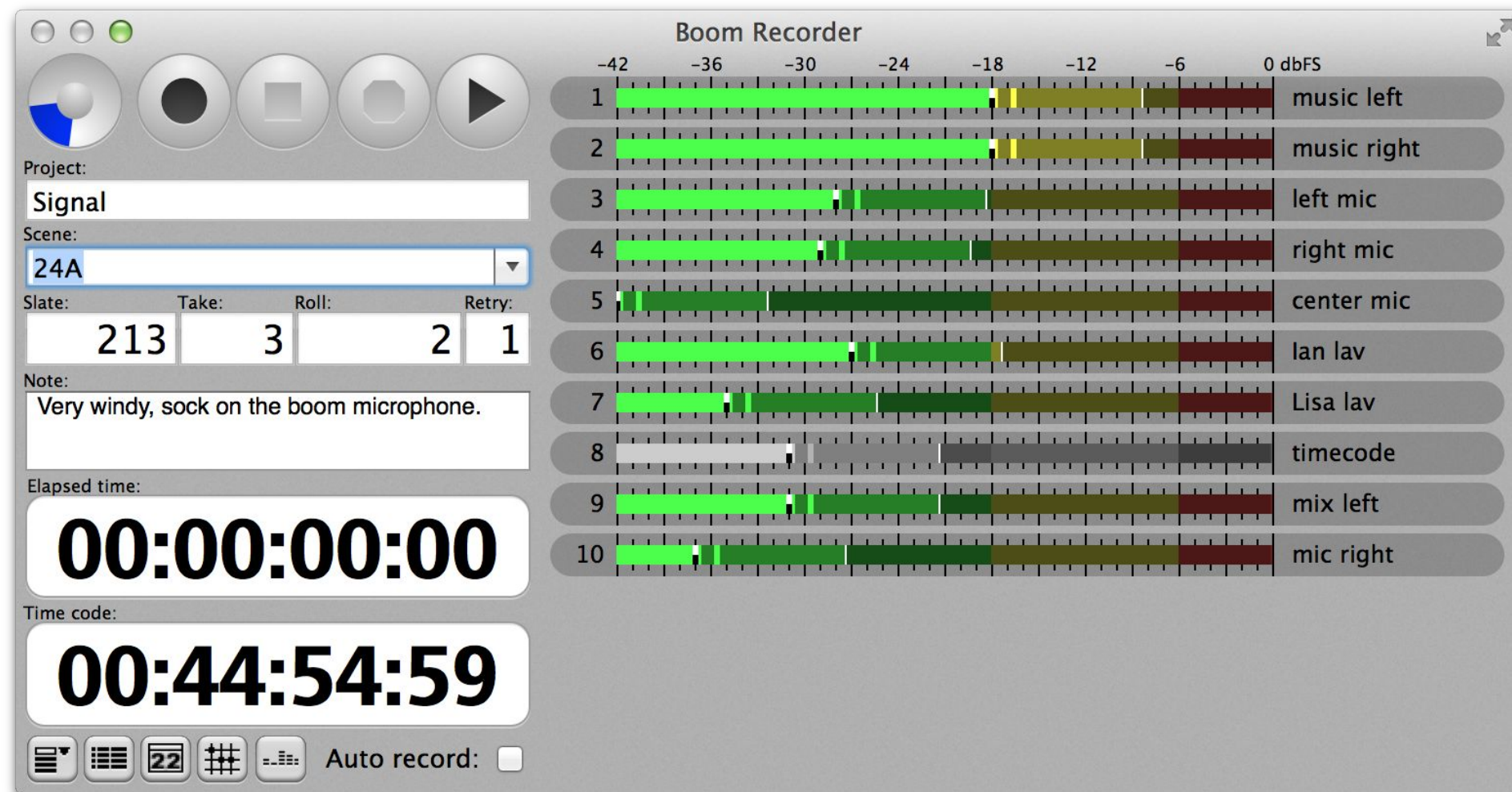


# Noise Reduction



<https://www.cedar-audio.com/products/dns4/dns4.shtml>

# Recorder: Software



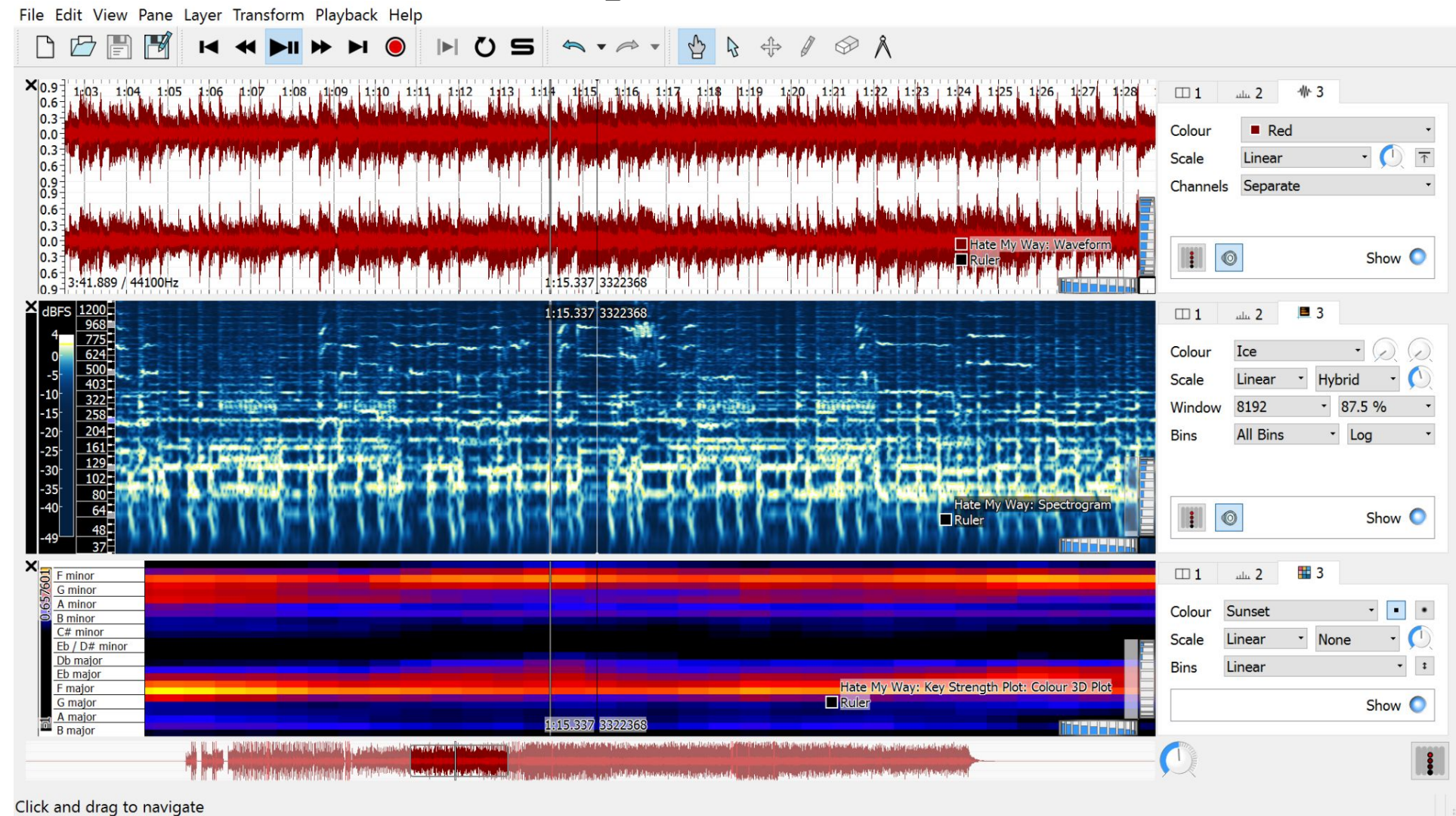
- WAV (Broadcast Wave Format) with iXML metadata and RF64 for files larger than 4 GByte.
- CAF (Core Audio Format)
- 16 bit, 24 bit integer and 32 bit floating point sample format.
- Mono, Stereo and Polyphonic files up to 256 tracks.

<https://www.pokitec.com/products/BoomRecorder/>



# Tool: Soundfile Analysis

<https://www.sonicvisualiser.org/>



# SONIC VISUALISER

# Keyboards:

Expressive E Osmose 49





# Keyboard: Controllers



# Synth: Pocket Synth



Classic no distractions version.  
[MothSynth Classic](#)  
[\\$26.99 On Shopify!](#)



OLED Display, see your music.  
[MothSynth OLED](#)  
[\\$34.99 On Shopify!](#)



OLED Display + AA 2x Battery Mode Installed.  
[MothSynth OLED AA Battery](#)  
[\\$42.99 On Shopify!](#)

<https://www.mothsynth.com>



Pocket Operator PO-33

K.O.! Micro Sampler and  
Drum Machine with Built-in  
Microphone, Sequencer  
and Effects





# Synth: Handheld Synth

## Otamatone



OTAMATONE

### HOW TO PLAY





# Guitar: Practice Amplifier



# Synchronization Tools

Sync-it Plus enhances Sync-it with off-screen audio-video sync measurement using built-in sensors.

It detects flashes and beeps to calculate audio-video offsets with precision.

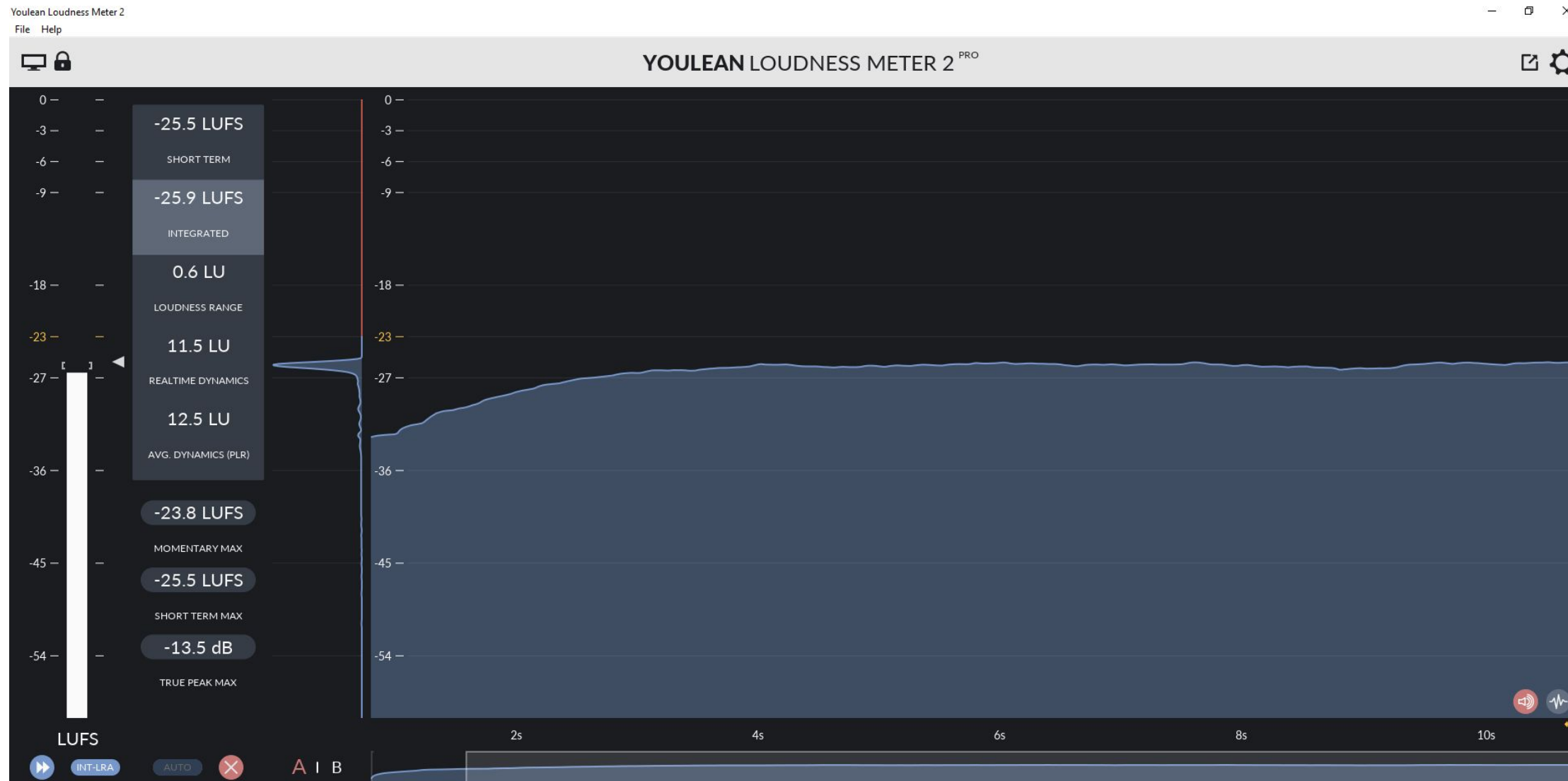
The offset is displayed in milliseconds and frames, with LEDs indicating successful detection.

Downloadable test videos enable accurate sync measurements on various video systems.





# Software - Loudness Metering



**Overview:** Youlean Loudness Meter is a free tool for precise loudness measurement, designed for compliance with TV, film, and streaming standards, available as a DAW plugin or standalone app for Windows and macOS.

**Features:** It includes LUFS-based loudness, dynamic range, and true peak metering, customizable presets, GUI resizing, export options, and A/B comparison, with the PRO version adding streaming presets, dynamics graphs, drag-and-drop analysis, and lifetime free updates.

**Applications:** Ideal for music, TV, film, and gaming audio, it supports platforms like Spotify, YouTube, Apple Music, Netflix, and broadcast standards such as ITU-R BS.1770 and EBU R128.

**Pricing:** The base version is free, while the PRO version (\$27 during Black Friday) includes advanced features, lifetime updates, and a 30-day money-back guarantee.

<https://youlean.co/youlean-loudness-meter/>

# Computer: Micro PC



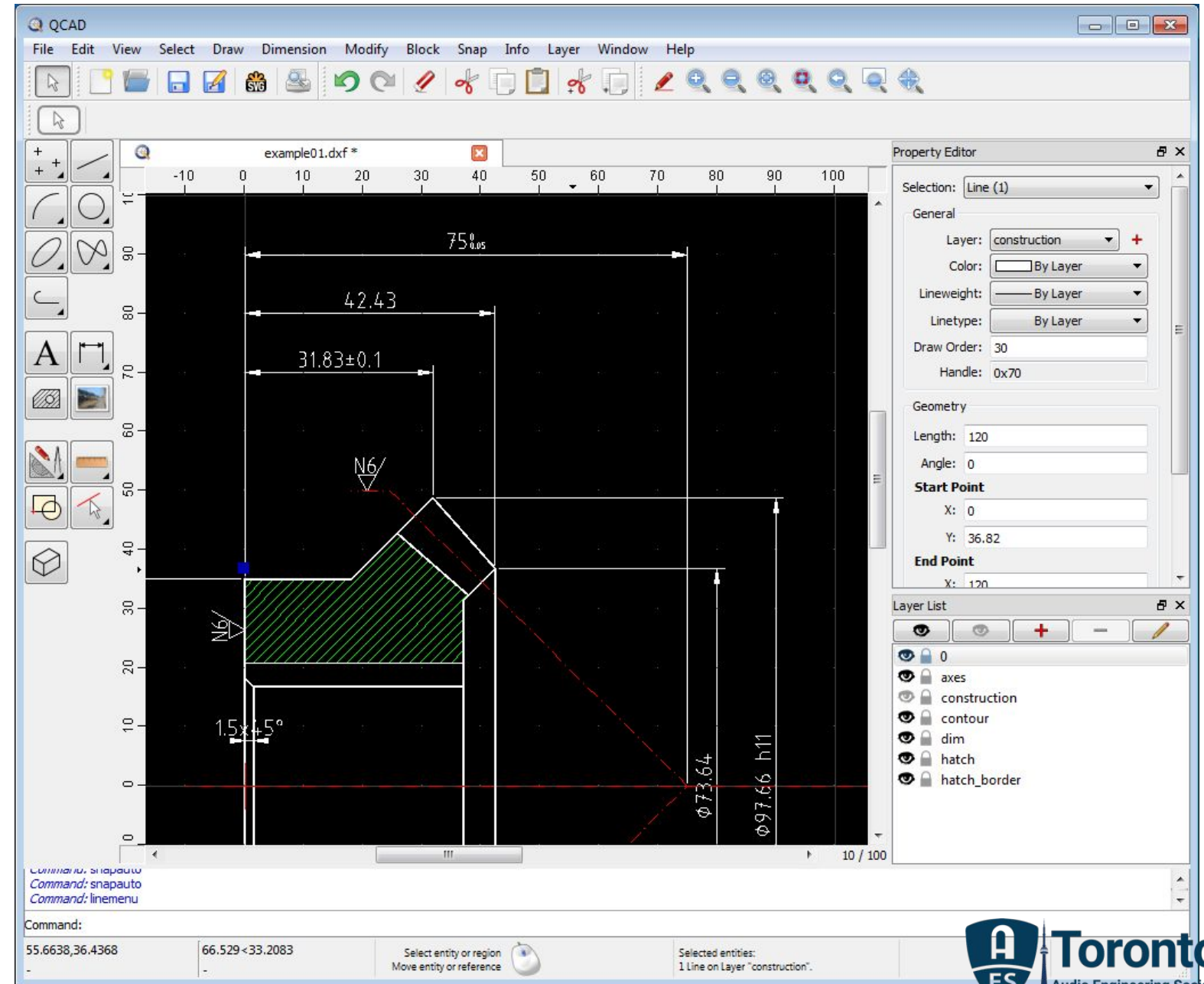
MeLE PCG02 Fanless  
Mini PC Stick Windows  
11 Home Celeron  
N4000(up to 2.6GHz)  
4GB LPDDR4 128GB  
ROM Micro Computer  
Small Desktop with  
2.4G/5G WiFi, 4K HDMI



# Software: CAD - Design

## The Open Source CAD System For Everyone

QCAD is a free, open source application for computer aided drafting (CAD) in two dimensions (2D). With QCAD you can create technical drawings such as plans for buildings, interiors, mechanical parts or schematics and diagrams. QCAD works on Windows, macOS and Linux. The source code of QCAD is released under the GPL version 3 (GPLv3), a popular Open Source license.



# Software: Acoustics Design

## Solving Acoustic Challenges



**Acousteer world-first real-time simulation engine** allowing fast and interactive optimization of sound system coverage and SPL



**Intuitive sound system design** using advanced aiming functions and extensive signal processing, assessing simulated level distribution, frequency response, and delay times



**Easy room-acoustic modeling** by tuning absorption and reverberation time and calculating metrics like clarity, speech intelligibility and ISO 3382 parameters



**Advanced room-acoustic investigations** using reflection analysis, full-length impulse response calculations and auralization

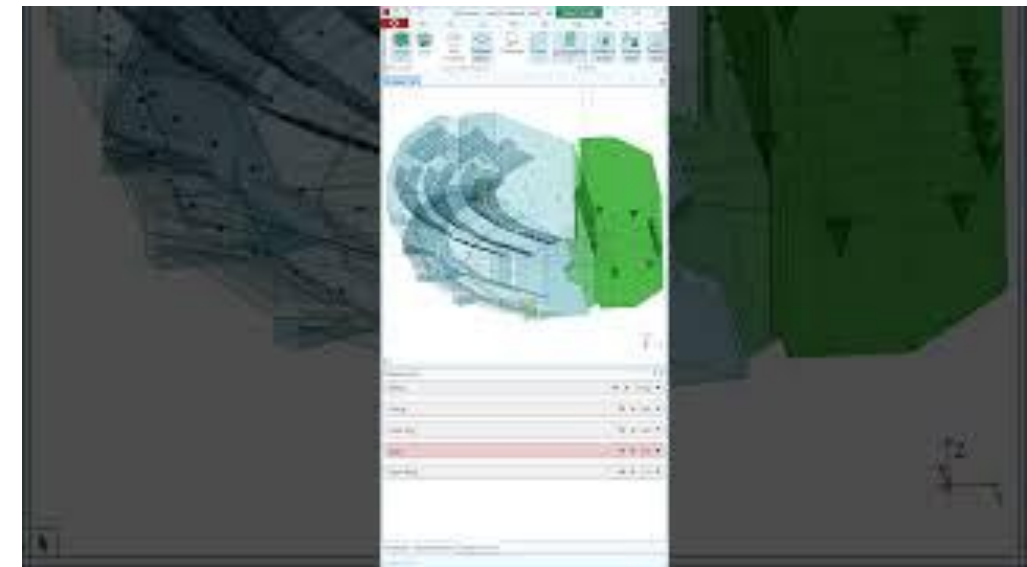


**Extensive applicability** from immersive designs in entertainment venues and clarity in opera houses to speech intelligibility in airports and SPL coverage in shopping malls

## EASE 5 Third Edition - The modern approach to electro- and room acoustic simulation

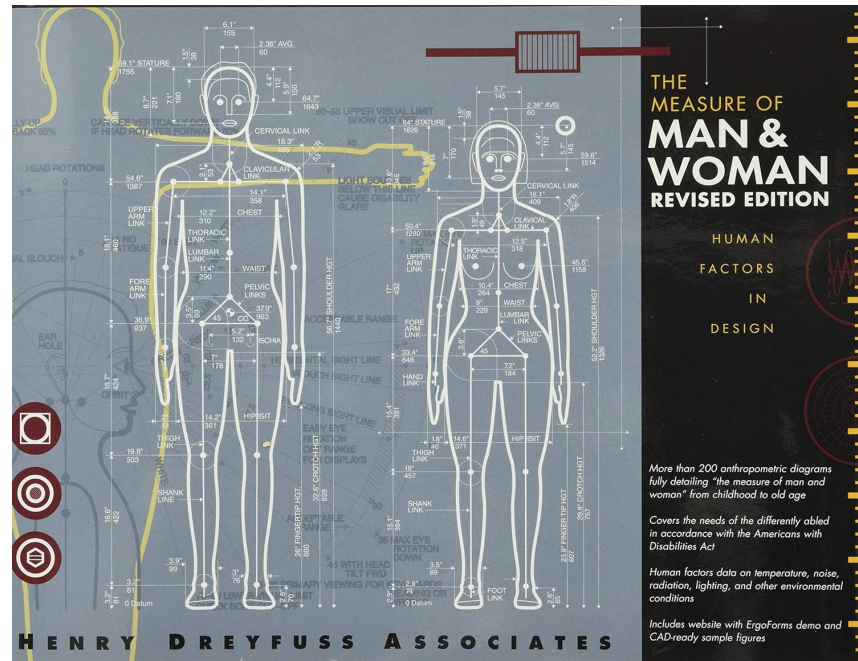
### Software

EASE represents the established standard in electro- and room acoustic simulation worldwide. The modern platform of EASE 5 combines a highly precise and proven calculation engine with an intuitive user interface and new tools enabling effective workflows adapted to different usage scenarios.

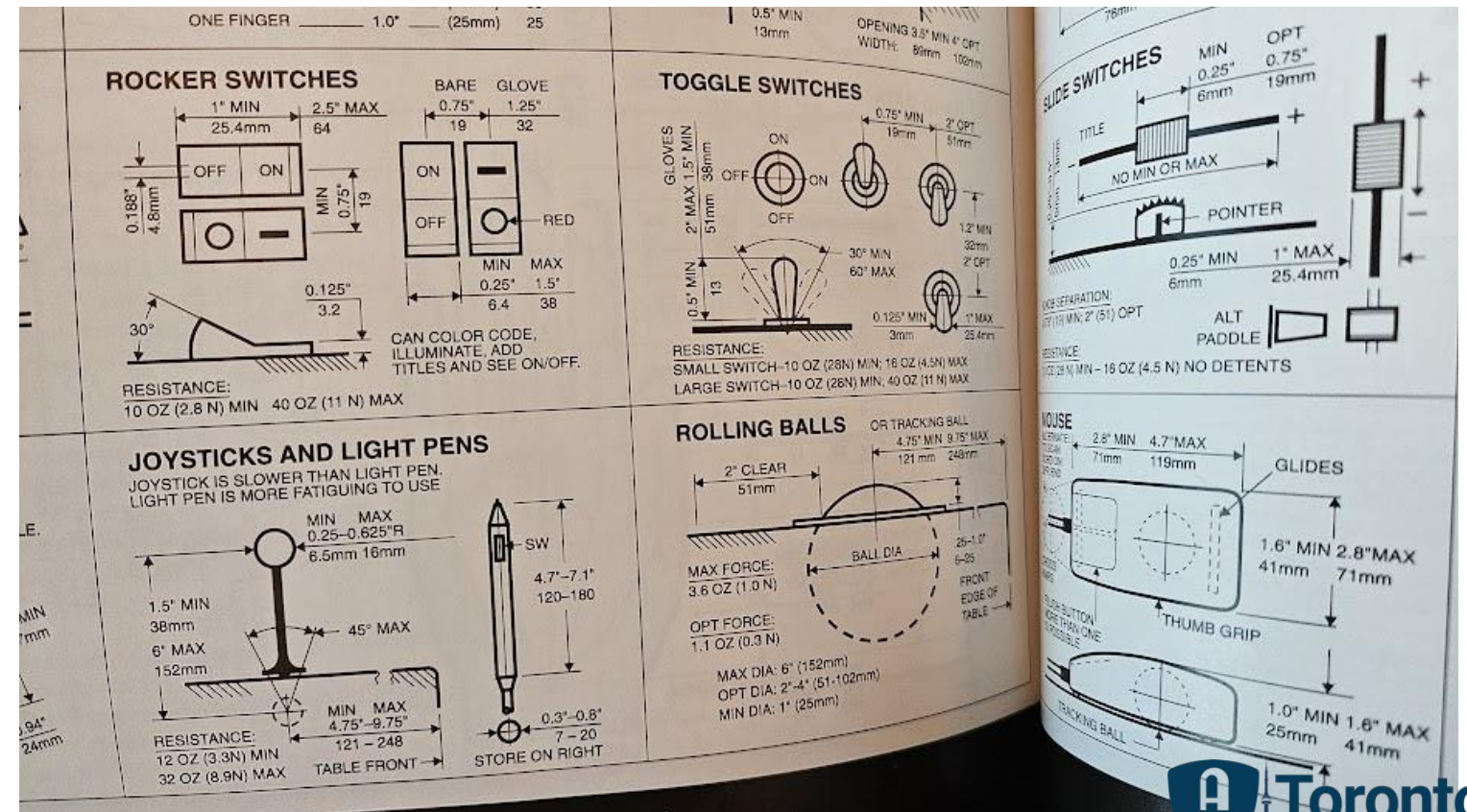
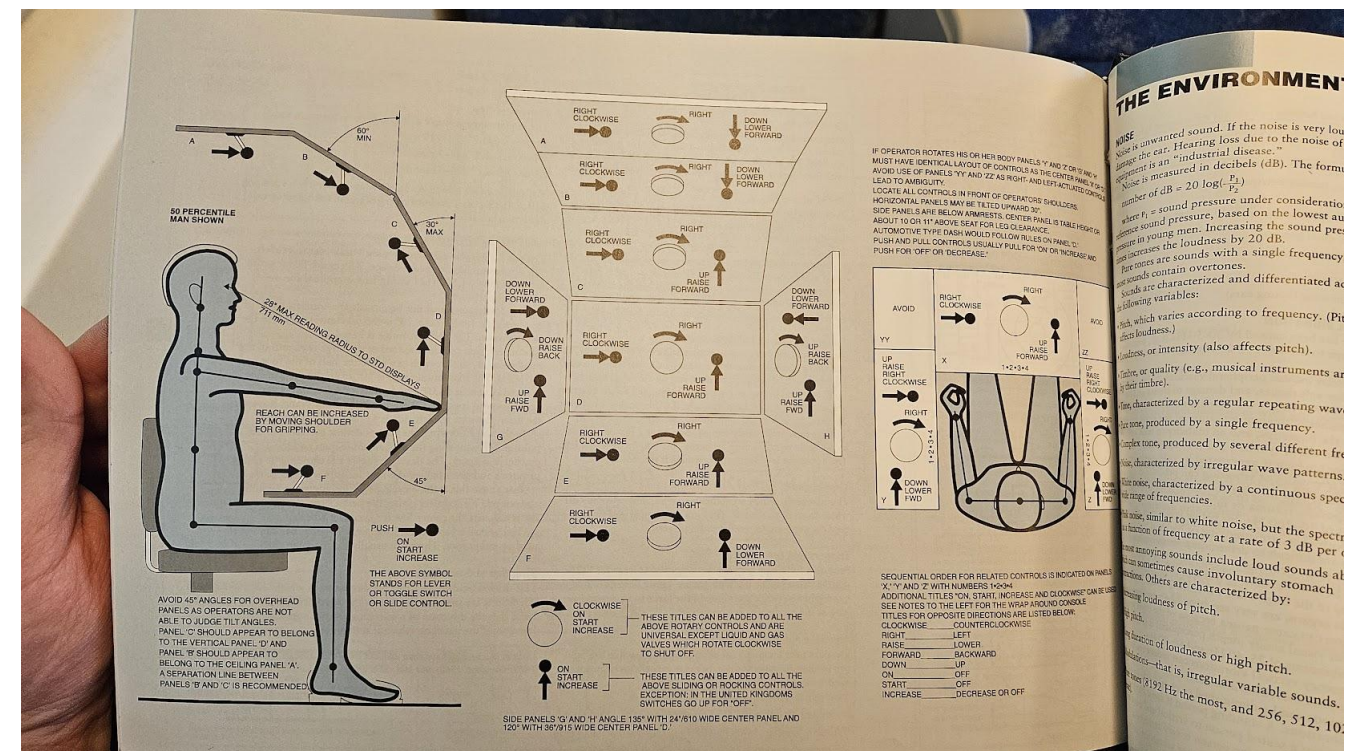




# Book to Have:



## The Measure of Man and Woman: Human Factors in Design





# Microphone Stand Stuff





# Microphone: Voice

Supercardioid

Earthworks:  
ETHOS

# Microphone Stands

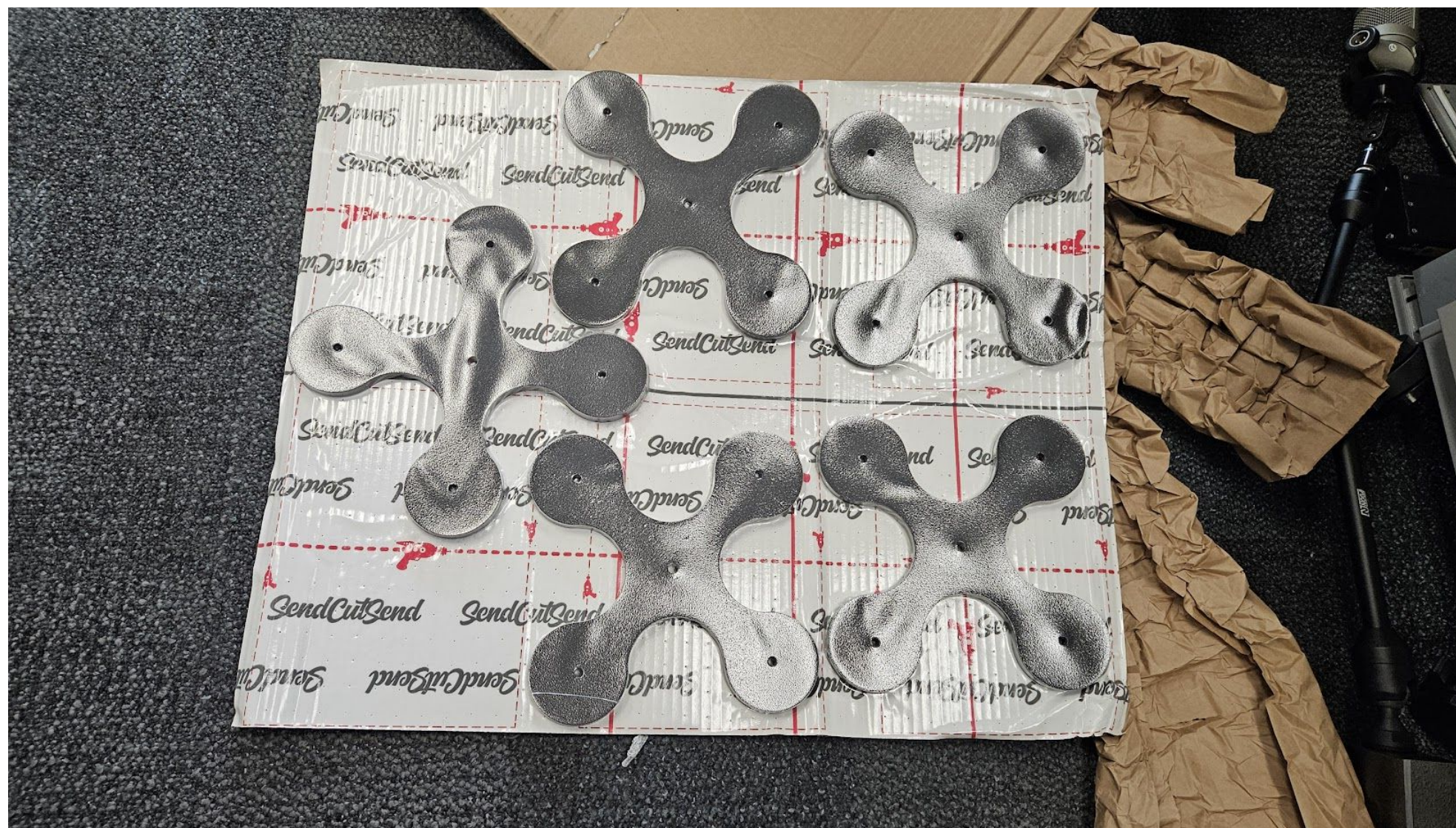


RØDE DS2 Desktop Studio





# Diy: Microphone Stands

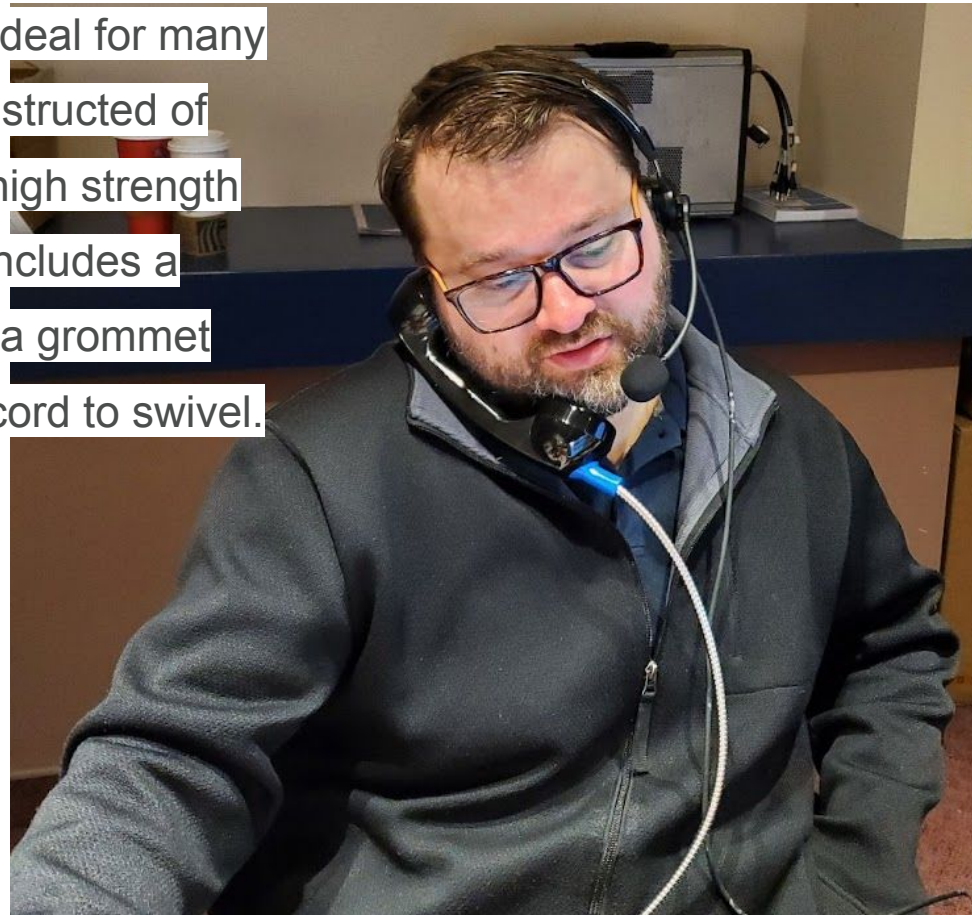




# Monitoring: Hand-Set

## USB Handset

The USB Handset features our high-quality handset assembly equipped with both a micro-USB and a standard USB. This handset is ideal for many kiosk applications. The handset is constructed of durable ABS plastic combined with a high strength 24" stainless cord and steel lanyard. Includes a metal swivel retainer which serves as a grommet and a cord anchor while allowing the cord to swivel.



<https://payphone.com/USB-Handset.html>

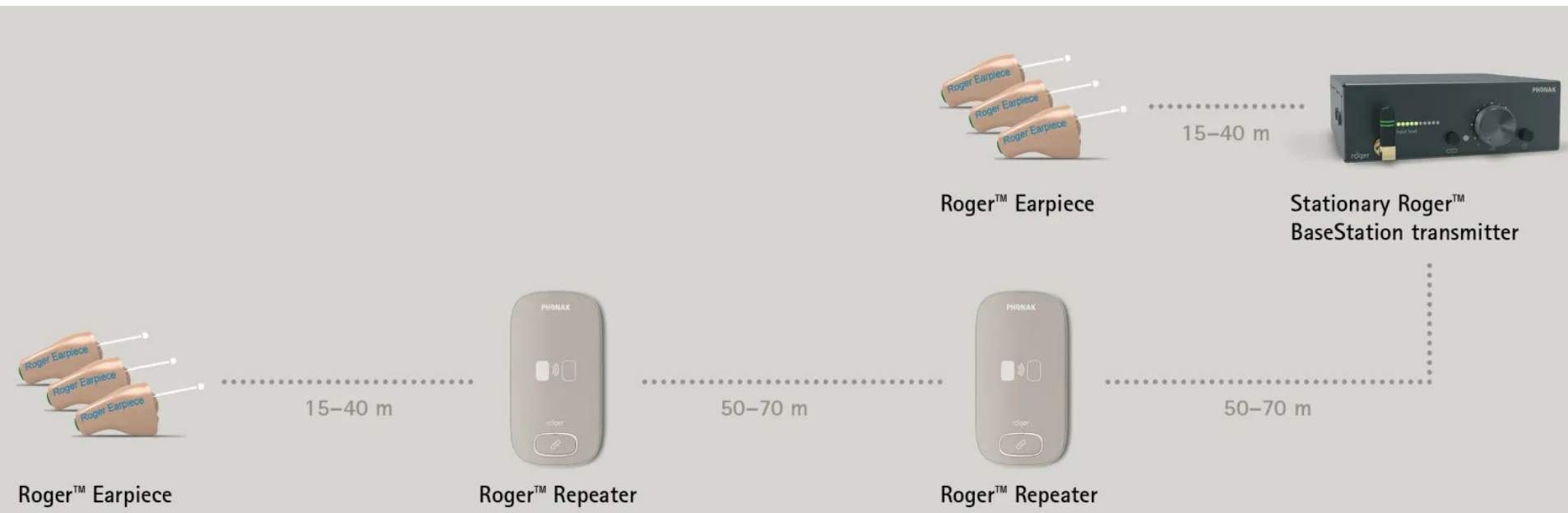
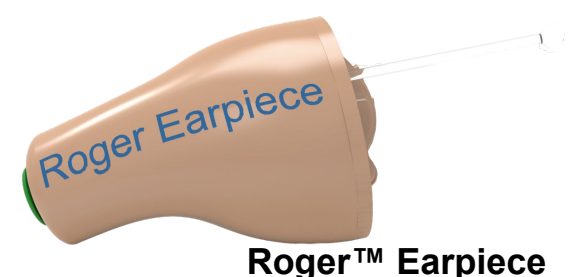


# Microphone: Wireless



Rode WIRELESS PRO  
Compact Microphone  
System

# Monitoring: invisible In Ear





# Microphone: Next Gen Wireless

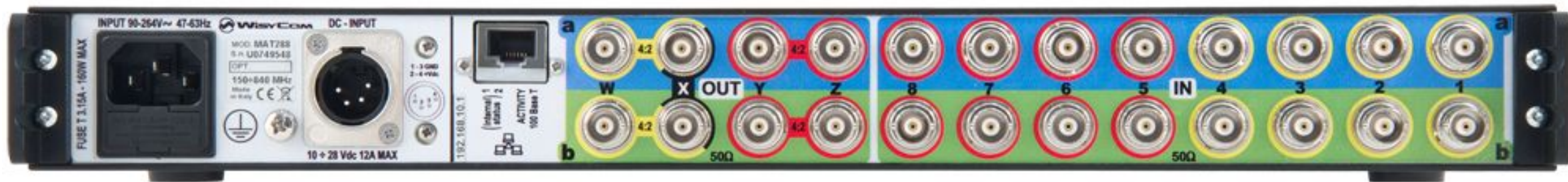


# Microphone: Next Gen Wireless





# Wireless: Antenna Management

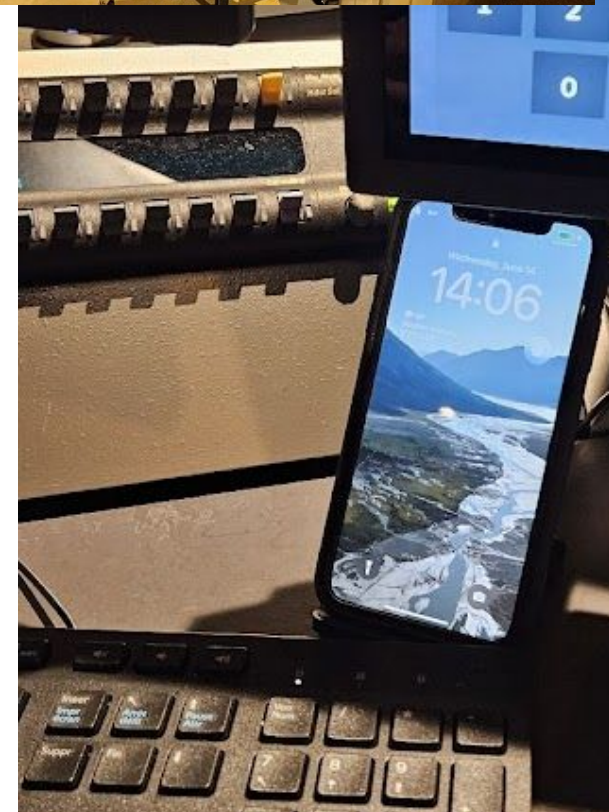
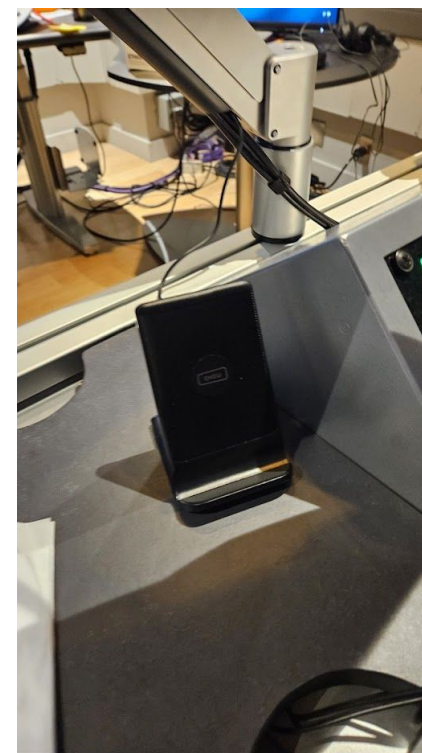
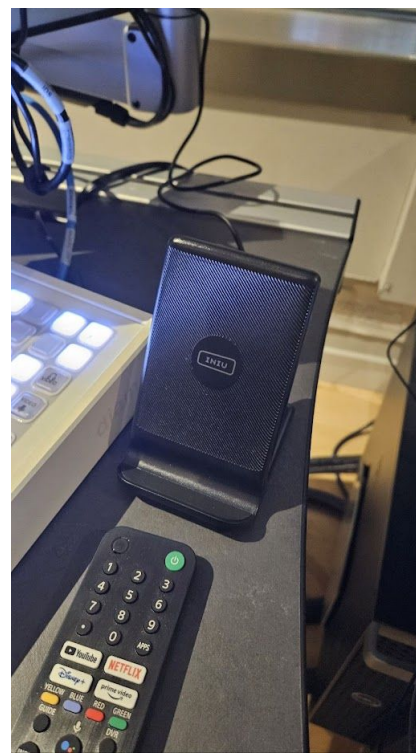




# Tool: Wireless Charger



Anker 2-Pack 313 Wireless Charging Stand





# Power Distribution Units

Eaton Managed Rack Pdu 1.44 Kw  
Max 120V 12A 50-60Hz 1U  
Single-Phase Pdu



Managed rackmount PDU monitors/manages/provide- s reliable/cost effective power distribution to connected mission critical equipment

**Eaton Managed Rack  
PDU 1.92 kW max 120V  
16A 0U 24 Outlet  
Single-Phase PDU**

Horizontal power distribution unit supports 1U horizontal mounting in most EIA-standard 19 inch racks  
Wide operating temperatures

monitor load levels to prevent overloads that cause downtime



# Tool: Tone Generator

## Minirator MR-PRO / MR2

The Minirator MR-PRO provides a full set of analog audio signals including sine wave, pink noise, white noise, delay test signal, polarity test signal, stepped sweep and continuous sine sweep. Further, a set of wav-files, useful for system optimization, is stored in the internal flash memory. Add your own personal favorites to this set.





# Digital Multimeter + Leads



Fluke 233 Remote Display  
Multimeter



Fluke TL175 Twistguard  
Test Leads, 2 mm Diameter  
Probe Tips



# Tool: Bench Oscilloscope



The oscilloscope offers up to 100 MHz analog bandwidth, 4 analog channels, and 16 digital channels (with the RPL1116 probe kit for "plus" models).

It features a 1 GSa/s sample rate, 24 Mpts memory depth, and 60,000-frame real-time waveform recording and playback.

Advanced tools include serial bus triggering/decoding, mixed signal analysis, and a dual 25 MHz waveform generator (on "-S" models).

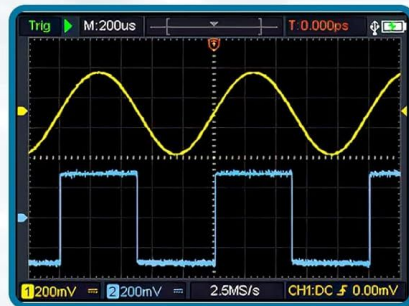
The device is user-friendly, compact, with a 7-inch WVGA display, low noise floor, and extensive connectivity options like USB and LAN.



# Tool: O-DMM-G

## 3 IN 1 Oscilloscope & Multimeter & Waveform Generator

Oscilloscope



Multimeter



Waveform Generator

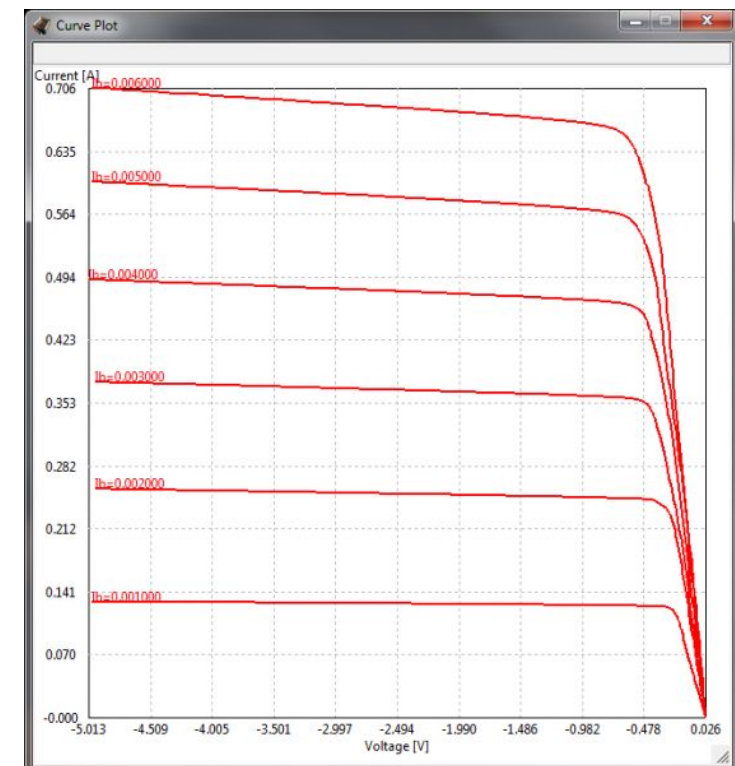
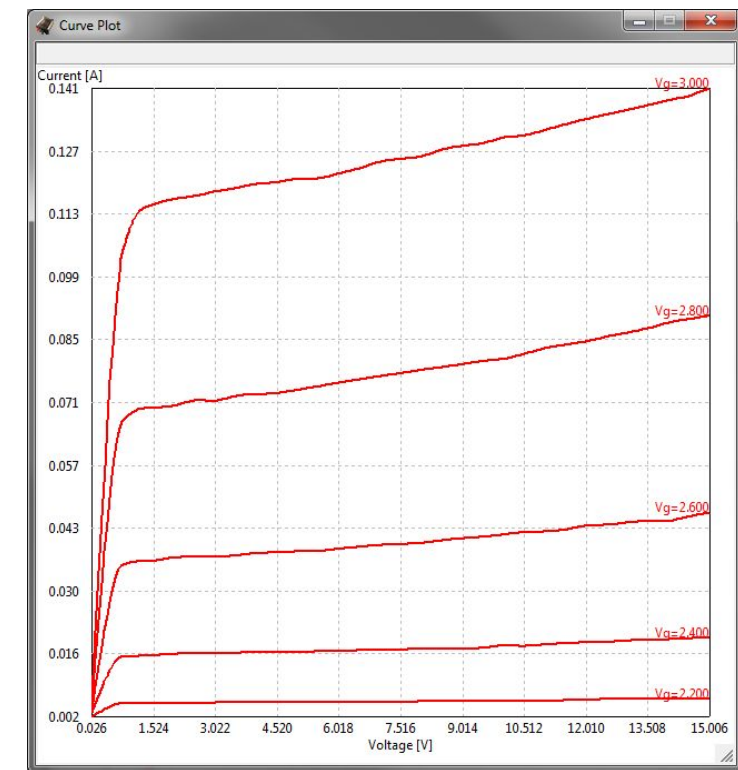


HANMATEK 3 in 1 Handheld Oscilloscope Multimeter 100 Mhz Waveform Generator Oscilloscope with 2 Channels 3.5"TFT, HO102S Professional oscilloscope Multimeter with Memory Function

# Tool: Curve Tracing



CTR-201 Curve Tracer



<https://www.syscompdesign.com/product/ctr-201/>



# Tool: Tube Matching

## MaxiPreAmp II Digital Preamp Tube Tester

12AX7, 12AU7 and 7025 can be tested. With optional adapters the MaxiPreamp will also measure 6DJ8, 6N1P, 6H30 and octal type dual triodes such as 6SL7 and 6SN7.

<https://maximatcher.com/product/maxipreamp-ii/>



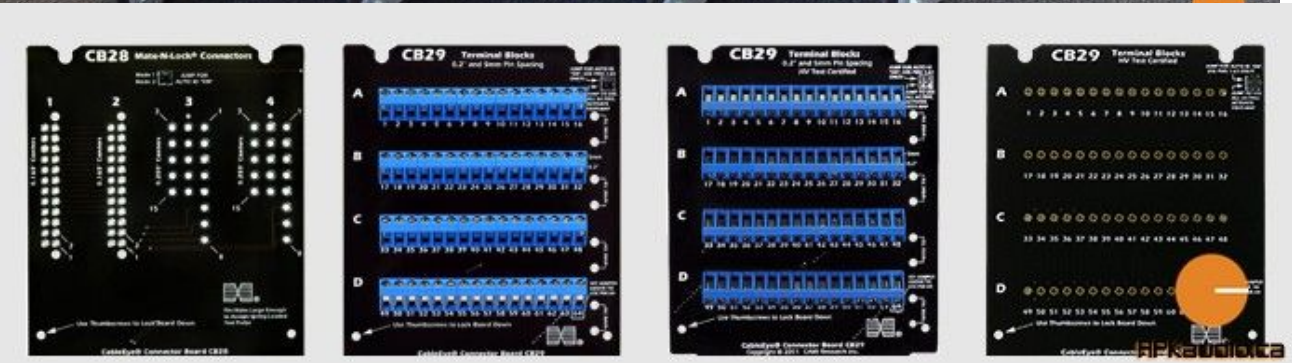
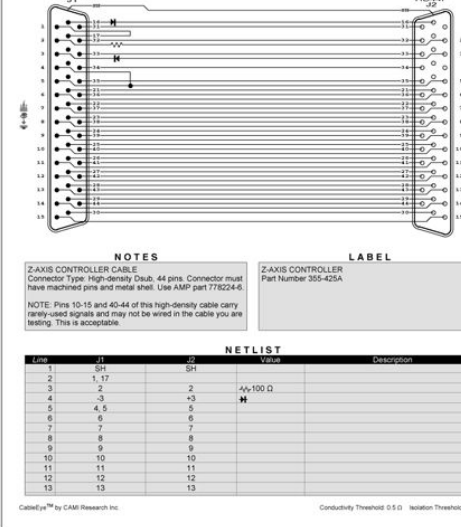
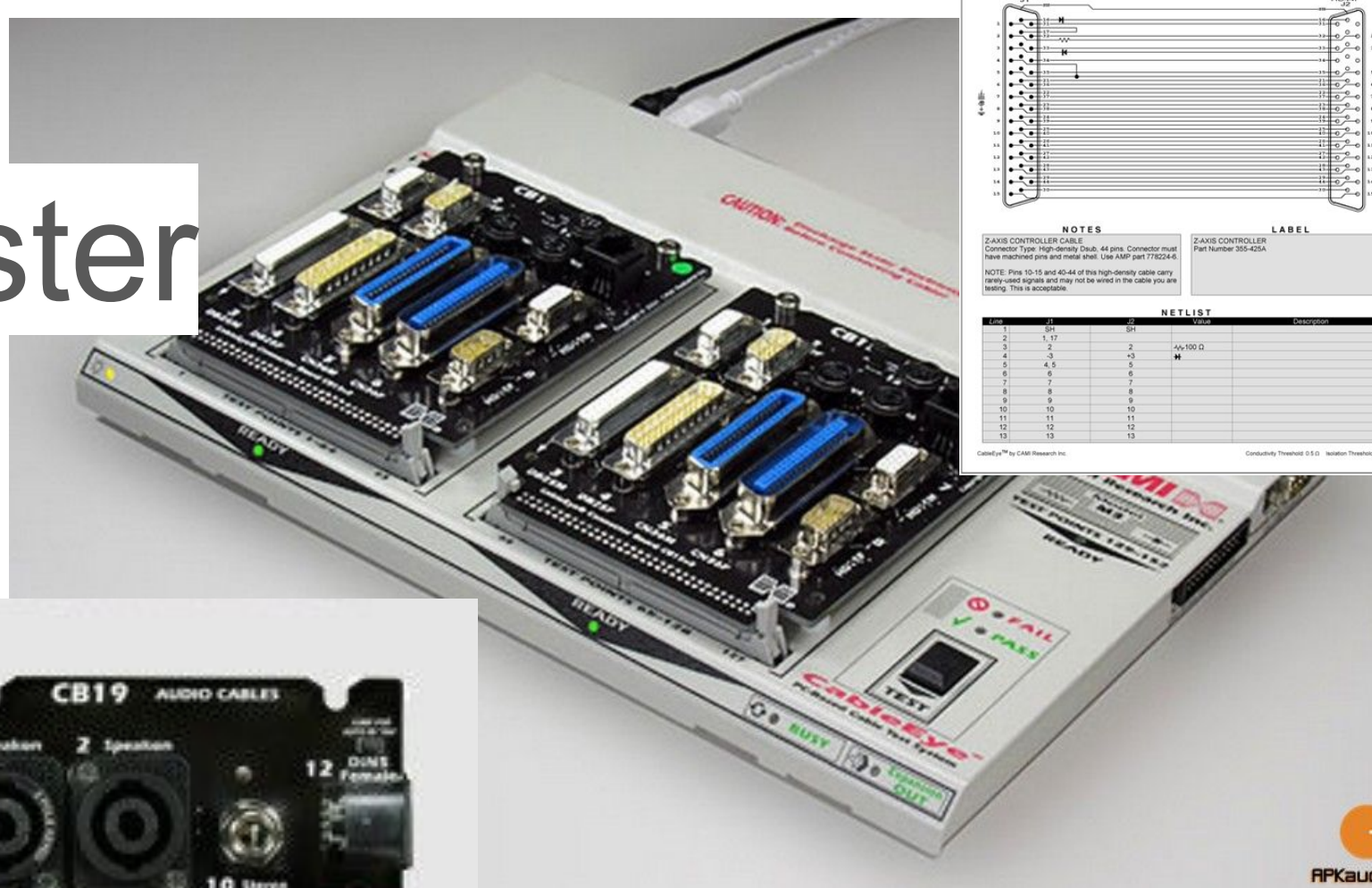
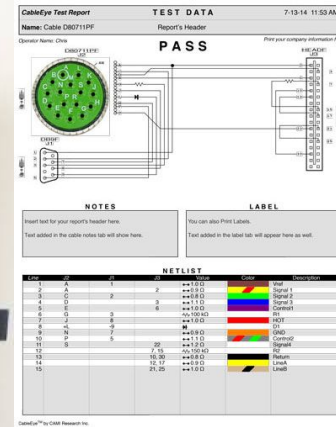
# Tool: Cable Tester



<https://soundtools.com/products/xlr-sniffer-sender>



# Ultimate Cable Tester



<https://www.camresearch.com/cable-testers/cable-continuity-tester.html>



# Tool: Inductive Amplifier

- Signal Tracing
- Buzz Killing

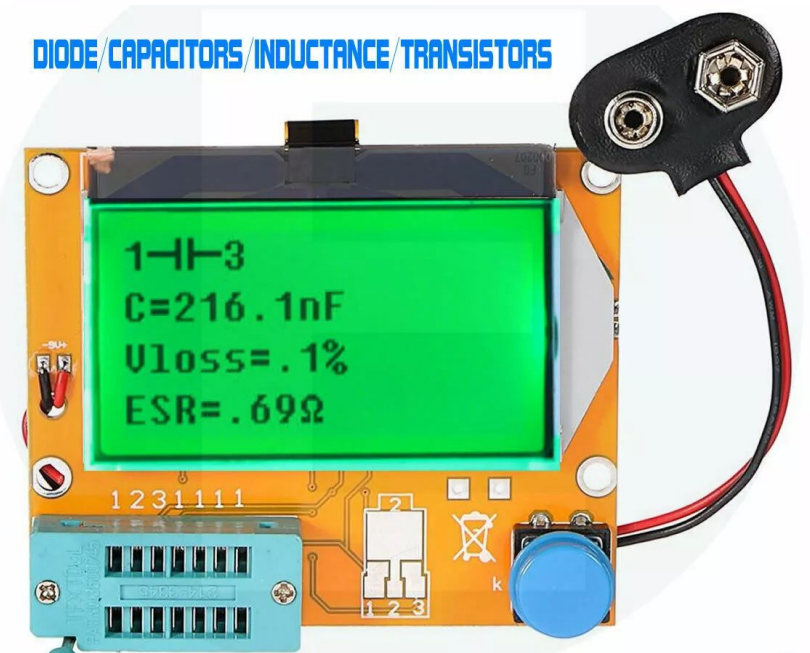
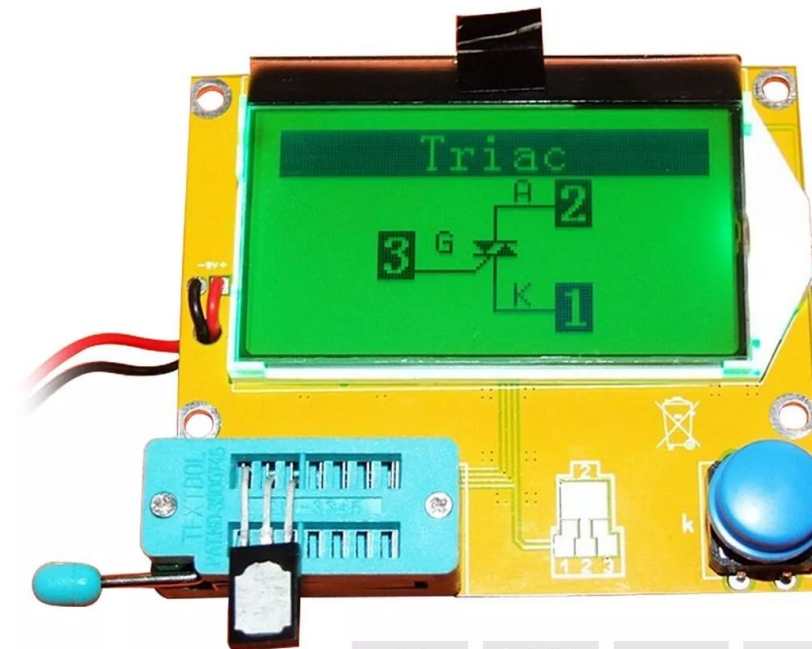




# Tool: Multi Component Tester

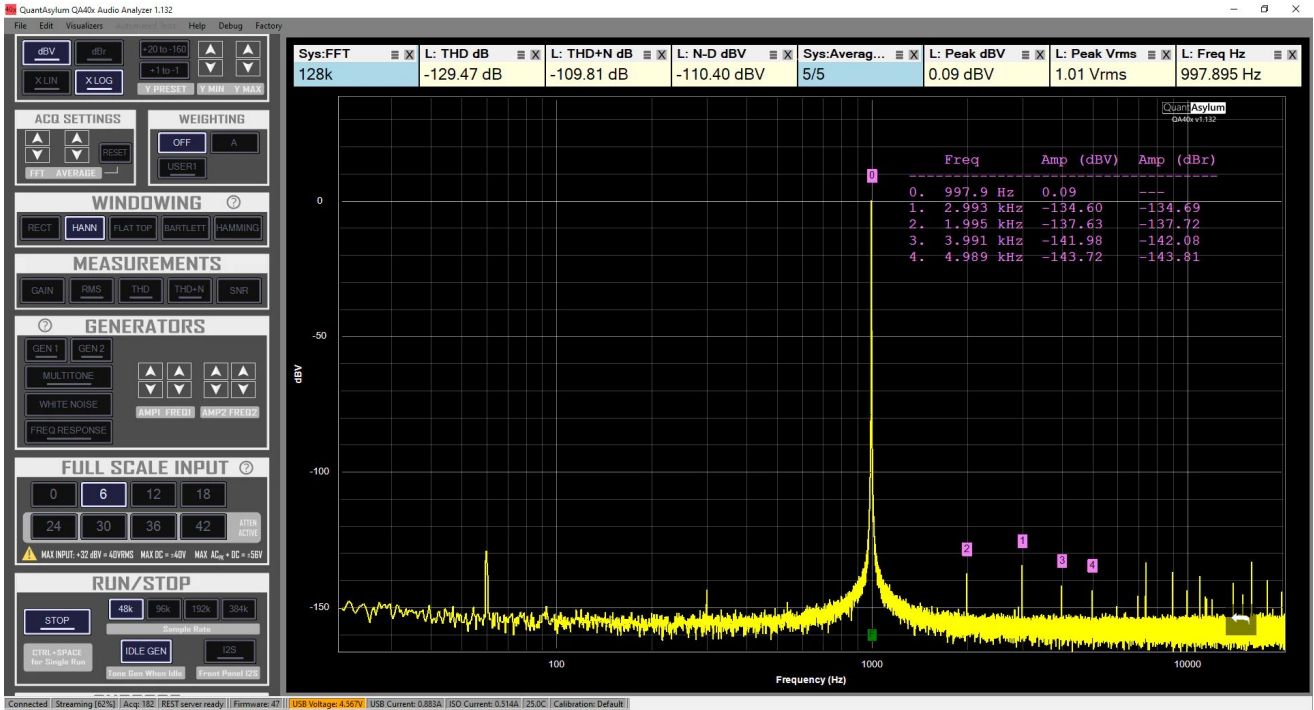
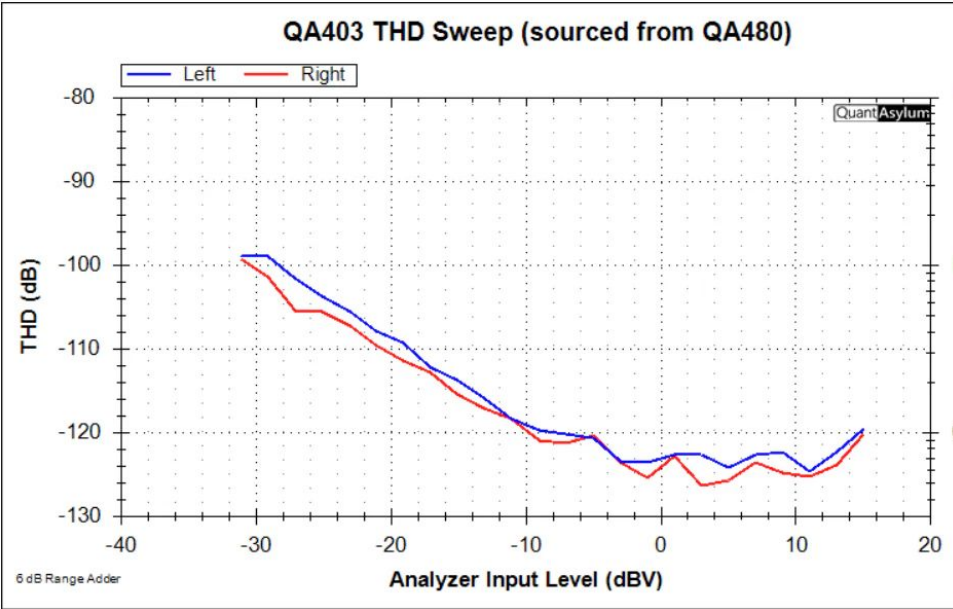


Digital Transistor Tester Meter Diode Triode  
Capacitance



# Tool: Audio Measurement

## QA403 Audio Analyzer



<https://quantasylum.com/products/qa403-audio-analyzer>



# Tool: Contact Cleaner



MG Chemicals 801B Super Contact Cleaner with PPE, 4.5 oz Aerosol



1210 Corporate Drive, Burlington, Ontario,  
Canada L7L 5R6

# Tool: Air Blaster

Hydrayne Air Blaster 2.0,  
Hydrayne Turbo Jet,  
Hydrayne Turbo Fan,  
Compressed Air Duster,  
1500w Electric





# Tool: Wire ferrules



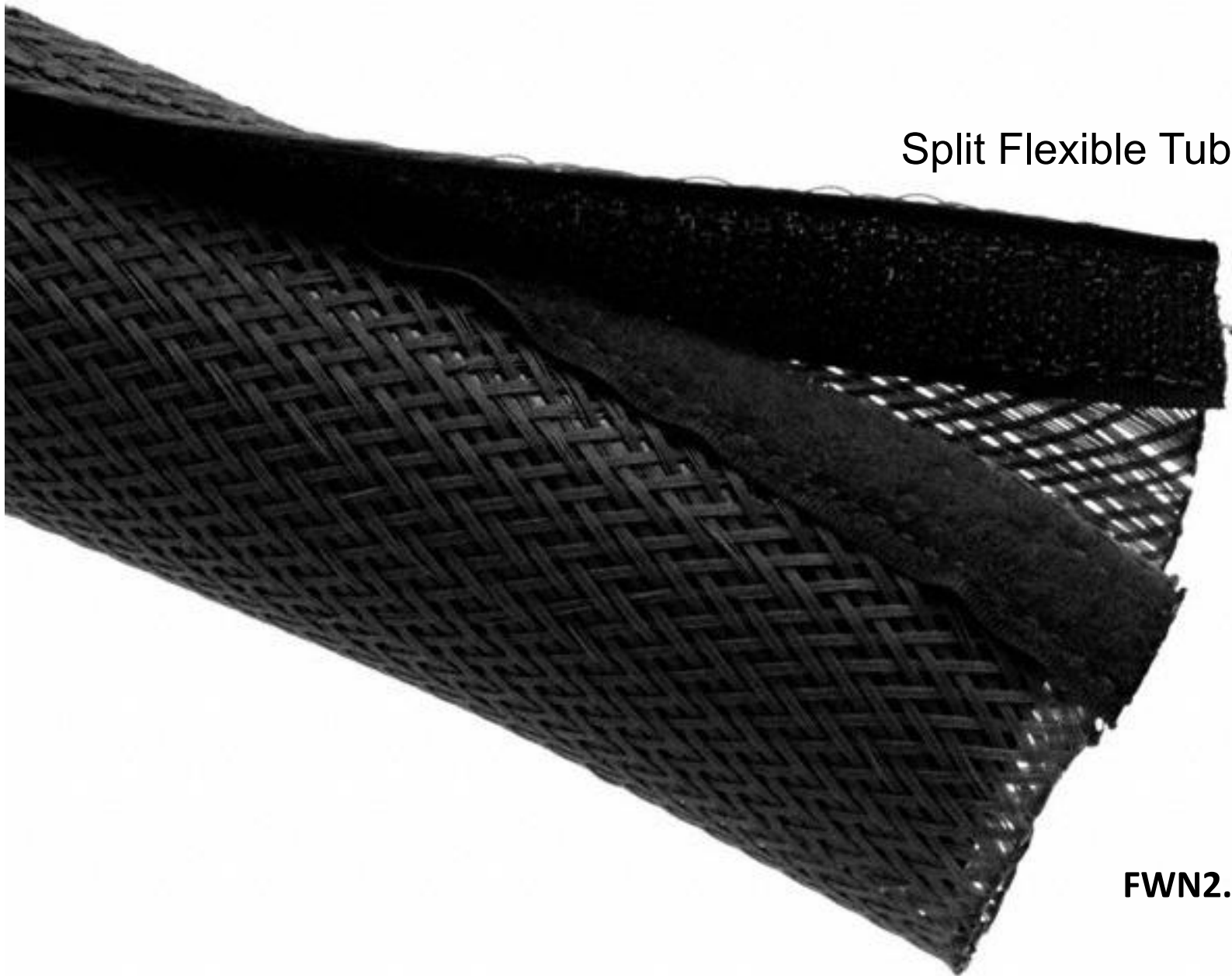


# Tool: HellermannTyton sleeves





# Cable Management Solutions



Split Flexible Tube

FWN2.00BK100

GENERAL PURPOSE

- Heavy Duty Hook and Loop Closure for Frequent Access
- Expands to Fit Over Inline Connectors and Splices
- Halogen Free
- Temperature Range -94°F to 257°F
- Melt Temp. 482°F

### Flexible Control & Management With Easy On, Easy Off Access

FLEXO® WRAP (FWN) is an exclusive product engineered and manufactured by Techflex®. FWN provides the perfect solution to a wide variety of unique application challenges.

The color matched hook and loop closure provides for easy on and off installation, as well as instant and convenient access for harness break-outs and rework of any specific section along the entire length of the run. Combined with the expandable, open weave design, FWN will conform to a wide variety of bundle diameters and will wrap around irregular shapes.

All grades of FWN cut cleanly with a hot knife.

FLEXO® WRAP is designed for quick and easy management of wire, cable, and hose assemblies. Just separate the hook and loop fasteners along the edge of the material....

and slip the entire length of FWN around or under your harness or component assembly. The wide expandability range allows FWN to easily fit around...

odd-shaped connectors and gently constrict around the diameter of your wires. When the FWN is in place, simply seal the hook and loop along the edges.

Easy and secure cable organization.

WH	White
GY	Gray
PG	Platinum Gray
BK	Black

Nominal Size	Part #	Hook & Loop Width	Standard Spool Put-Ups		Available Colors	Lbs/100'
			Bulk Spool	Shop Spool		
1/2"	FWN0.50	1/4"	100'	20'	WH, GY, PG & BK	1.30
3/4"	FWN0.75	5/8"	100'	15'	WH, GY, PG & BK	1.80
1 1/4"	FWN1.25	5/8"	100'	12'	WH, GY, PG & BK	2.30
2"	FWN2.00	5/8"	100'	10'	WH, GY, PG & BK	3.20
2 1/2"	FXN2.50BK	5/8"	100'	10'	BK	3.75

1 (833) SLEEVING  
www.techflex.com

Contact your account representative for additional color availability.



# Cable Management Solutions



VELCRO Brand Cut to Length Straps



# Tool: Console labeling tape



Bluetooth Label Printer

KODAK Label ERA Label

# Amazing New Connectors

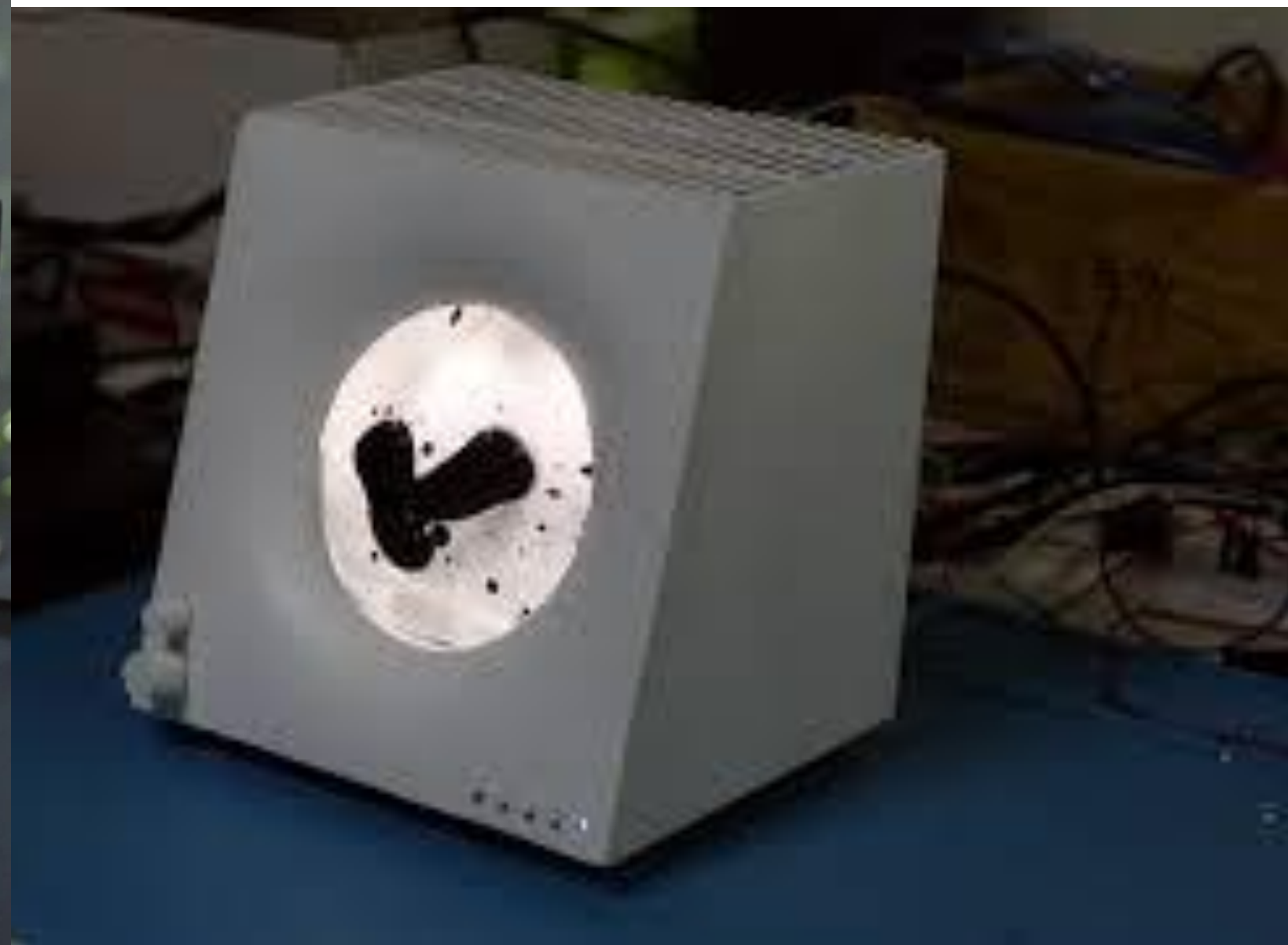
**Neutrik NE8MXR-B-TOP  
Retractable-Shell  
etherCON Cable  
Connector**





# Sonic Sculptures

<https://burnslap.me/>



# THANK YOU

| @ Like . Audio



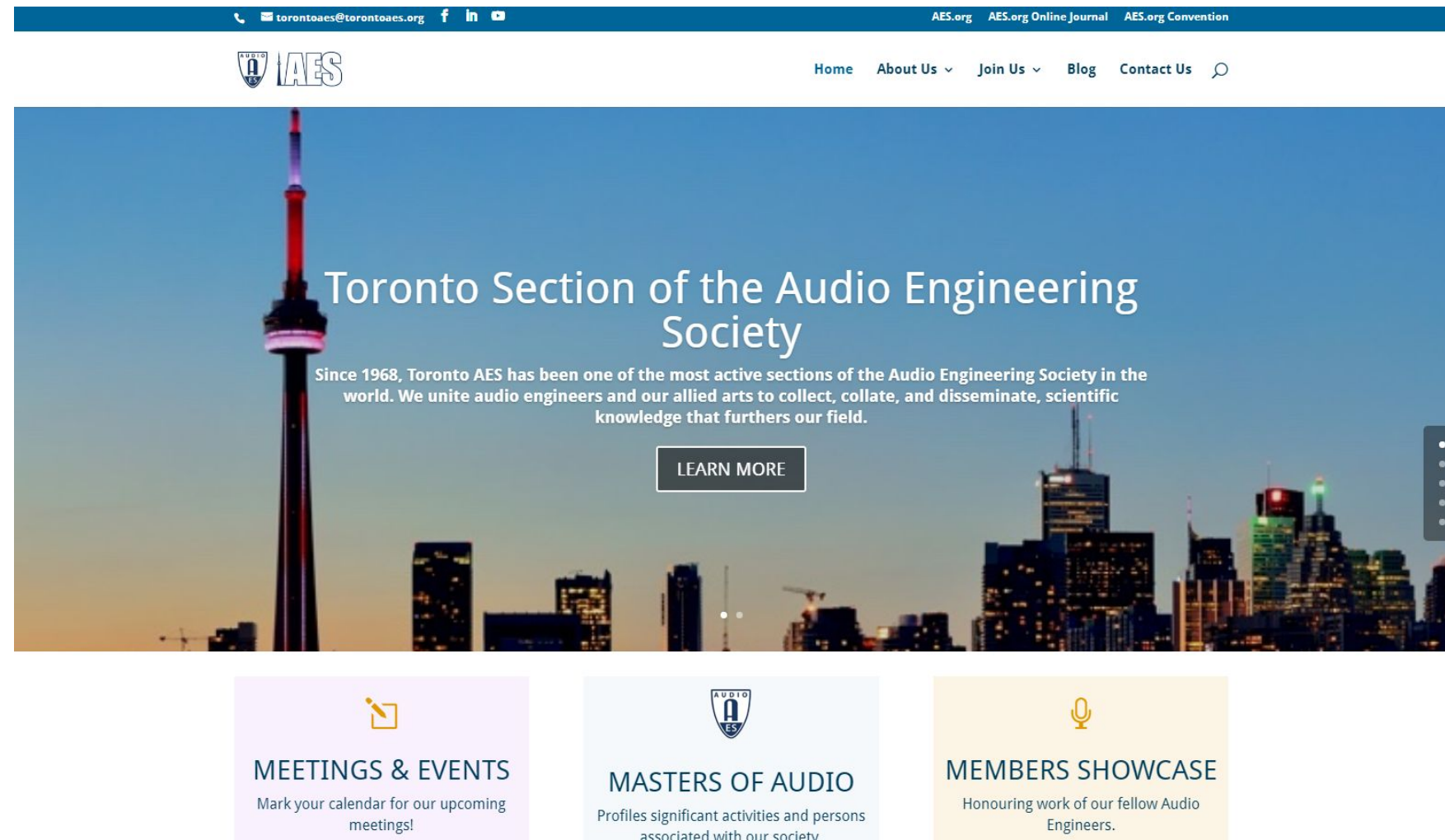


December 10th

Gadgets,  
Gizmos, and  
Great Gear for  
the New Year!



# TorontoAES.org





## Toronto AES Appreciates the Continuing Sponsorship and Support of



### OUR SUPPORTERS

