

## ZOMBIEPHONE FX

BUNKER ANALOG · PRECISION RHYTHM

DOC USER MANUAL

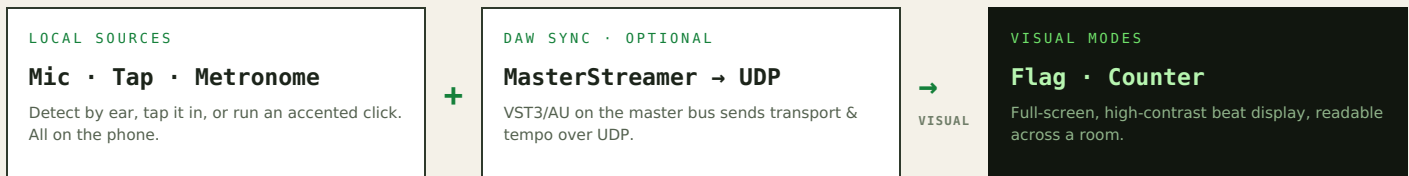
REV 1.1 · 2026

TYPE BKR-BPM

TEMPO DETECTOR &amp; VISUAL METRONOME · TYPE BKR-BPM

## BKR BPM DETECTIVE

A multi-mode rhythm tool for the studio and the stage. Detects tempo from the room through the microphone, taps it in by hand, drives an accented metronome, and — paired with BKR MasterStreamer — locks a full-screen visual beat display to your DAW over Wi-Fi. Built so a drummer or player can read the count from across the room. No cables, no extra hardware.



<b>DETECT</b>	Live microphone tempo detection · spectral-flux onset · 60–200 BPM
<b>TAP</b>	Manual tap-tempo with averaging · 30–300 BPM range
<b>METRONOME</b>	Accented click · configurable time signature · phosphor-green readout
<b>DAW SYNC</b>	Receives BKR MasterStreamer transport (VST3/AU) · visual only
<b>VISUAL</b>	Flag Mode (split flash) · Counter Mode (7-segment beat number)
<b>LINK</b>	UDP / Wi-Fi · port 9003 (default, editable)
<b>PLATFORM</b>	Android 8+ · portrait

## 01 Local Modes

## 02 Visual Modes

<b>LIVE – MIC DETECTION</b>	<b>FLAG MODE</b>
Tap <b>LIVE</b> and grant mic access. The app listens to the room and estimates tempo from rhythmic onsets, settling on a stable BPM after a few bars. Best with a clear, steady beat. The VU meter shows input level.	Full-screen, split top/bottom. The top half flashes <b>green</b> on the downbeat; the bottom half flashes <b>white</b> on every other beat. Instant attack, fast decay — built to be read at a glance from a distance. Tap to exit.
<b>TAP – TAP TEMPO</b>	<b>COUNTER MODE</b>
Tap <b>TAP</b> in time with the music. Two taps give a reading; more taps refine it. The figure feeds straight into the metronome. Pauses of a few seconds reset the average.	A giant 7-segment beat number filling the screen. On the downbeat the display <b>inverts</b> — full green field, number knocked out in black — so beat 1 is unmistakable. Tap to exit.
<b>PLAY – METRONOME</b>	<b>ENABLING VISUAL MODES</b>
Tap <b>PLAY</b> for an accented click. The downbeat sounds higher (1200 Hz) than the other beats (900 Hz). Set the grouping with the <b>TIME SIGNATURE</b> presets. Nudge tempo with the <b>+ / –</b> controls on the BPM display.	The <b>FLAG</b> and <b>COUNTER</b> buttons light up once a beat source is running — the local metronome (PLAY) or an active, playing DAW Sync. Otherwise they stay dim.

## ONE TOOL, TWO WORLDS

Use it standalone for practice, songwriting, and live cueing — or bridge it to your DAW for a frame-honest visual count during tracking and overdubs. The full-screen visual modes don't care which source drives them.

## 03 DAW Sync Setup

DAW Sync is optional and lives in **Settings** (the gear icon, top of the main screen, next to info). It mirrors your DAW's beat to the visual modes over Wi-Fi. The sync is **visual only** — no click is generated from the network, so there's nothing to drift against your DAW's own audio.

- 1 Same Wi-Fi.** Put the phone and the computer on the same router. Ethernet or Wi-Fi on either side is fine, as long as it's the same network.
- 2 Open Settings, note the IP.** Tap the gear icon. The DAW Sync panel shows this phone's address under **IP**, with the listen **PORT** (9003 by default).
- 3 Activate the receiver.** Tap **ACTIVATE DAW SYNC**. Status changes to **Listening on port 9003**.
- 4 Point MasterStreamer at it.** In the plugin's Timecode & Tally panel, type that IP, leave the port at 9003, and check **ACTIVATE UDP TIMECODE STREAM**.
- 5 Press play.** The panel border turns green and shows the live DAW BPM & time signature. The FLAG and COUNTER buttons enable on the main screen.

### CONNECTED WHEN

The DAW Sync panel border turns green and reads **DAW: nnn BPM · PLAYING** the moment you hit play. A small ● DAW SYNC indicator stays on the main screen while sync is active.

### USE THE PHONE'S REAL IP

Enter the phone's actual network address (e.g. `192.168.x.x`) in MasterStreamer — not a broadcast address. Many routers drop subnet broadcast, and the stream won't arrive.

### REQUIRES BKR MASTERSTREAMER

DAW Sync only displays — it needs the BKR MasterStreamer VST3/AU plugin on the DAW's master bus to send it anything. See the MasterStreamer manual for that side. Local modes (mic, tap, metronome) need no plugin.

## 04 Settings & Troubleshooting

### SETTINGS — DAW SYNC PANEL

<b>STATUS</b>	Stopped / Listening / Receiving
<b>IP</b>	This device's current address
<b>PORT</b>	9003 default · range 1024–65535
<b>DAW BPM/TS</b>	Live tempo & meter once playing

#### PORT NOTE

Changing the port here only changes what this app listens on — update the same number in MasterStreamer's Timecode & Tally panel, or the stream stops arriving.

#### PRIVACY

Everything stays on your local network. No cloud, no account, no server-side recording — the app only listens for UDP packets on your Wi-Fi. Mic audio for LIVE detection is processed on-device and never leaves the phone.

### TROUBLESHOOTING

SYMPTOM	CHECK
<b>LIVE won't lock a tempo</b>	Needs a clear, steady beat. Background noise or a sparse groove makes detection drift — try TAP instead.
<b>Visual buttons stay dim</b>	No beat source active. Press PLAY for the local metronome, or activate DAW Sync and start the DAW.
<b>DAW Sync stuck on Listening</b>	Is ACTIVATE UDP TIMECODE STREAM checked in MasterStreamer, the right IP entered, and the DAW playing?
<b>Worked, then stopped</b>	Router likely reassigned this phone's IP. Recheck IP in Settings and re-enter it in MasterStreamer.
<b>Never worked</b>	Router's client/AP isolation may block devices from seeing each other — turn it off.
<b>Jittery visual count</b>	Weak Wi-Fi or older chipset power-saving. Move closer to the router, or disable battery optimization for the app.

### FASTEST TEST

Activate DAW Sync, start playback with the Timecode stream on in MasterStreamer, and watch the panel border. Green border + a moving BPM confirms packets are arriving.