

CharacterConsole

Main Program Feature List

One-page overview of the core live-interaction, camera, AI, and control features.

CharacterConsole is a live voice-and-visual interaction platform built for show vehicles, exhibits, and character-driven displays. It combines offline speech, cloud AI, camera awareness, media playback, navigation, and operator controls in one interface designed for real-time use.

- Offline-first voice interaction with fast local transcription, response playback, wake word support, typed input, and performance-mode tuning.
- Online AI fallback with OpenAI support, Hybrid Gemma behavior, and automatic failover handling when local Ollama is unavailable.
- Fish Audio integration for generated voice playback, streamed speech output, and managed audio generation workflows.
- Up to eight camera inputs with individual camera launch/view controls and dedicated camera preview windows.
- Camera preview controls including keep-on-top behavior, background monitoring, and persistent per-window display preferences.
- Face detection and recognition using local processing or AWS Rekognition, with remembered identities and camera-based people awareness.
- Object detection using local detection or AWS Rekognition label/object analysis across camera feeds.
- Per-camera enablement for face detection and object detection so only selected cameras participate in visual analysis.
- Scene-aware audience interaction features such as room quips, intros, and camera-triggered commentary logic.

- GPS and navigation views with Google Maps integration, custom branded vehicle-location icon support, recentering, and street-view presentation.
- Built-in information features including weather, time, sports, internet answers, and online/offline response routing.
- Extensive settings for prompts, memory, learning mode, triggers, playback timing, UI appearance, response styling, and runtime behavior.
- Console Manager connectivity for remote monitoring, communication diagnostics, remote shutdown/deactivation, and update delivery.
- Update packaging and deployment support with delta-update ZIP creation for smaller, faster release distribution.

CharacterConsole turns a vehicle or display into an interactive character that can hear, speak, see, detect, remember, guide, and perform.