

DIGITAL HUMAN AVATAR PLATFORM

Dihuava

Intelligent · Immersive · 100% Local AI

Zero Cloud Dependency GDPR Compliant Full Offline Operation Multilingual

100%

5,000

67+

32+

ON-DEVICE AI DAILY INTERACTIONS VOICE PROFILES LANGUAGES

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What is Dihuava ?

Dihuava

The AI-Powered Digital Human Avatar Platform by HS Global AI

OVERVIEW

A New Era of Human–AI Interaction

Dihuava is a fully self-contained, enterprise-graded digital human avatar platform developed by HS Global AI. It powers lifelike AI assistants on interactive display systems — kiosks, holographic screens, and smart panels — enabling businesses to deploy intelligent, conversational digital humans that operate with zero cloud dependency, ensuring uncompromised performance, privacy, and reliability.

100% Local AI — Your Data Never Leaves the Device

Unlike cloud-dependent solutions, Dihuava processes every voice input, language query, and AI response entirely on the local device. No audio, text, or personal interaction data is transmitted to any external server — making it the ideal choice for regulated industries and privacy-conscious organizations.



Life like Digital Avatars

Photo realistic digital humans powered by advanced AI that can listen, understand context, and respond naturally — with multiple persona options including Retail, Healthcare, and Corporate avatars. Custom avatar uploads are also supported.



Real-Time Voice Interaction

Built-in speech recognition converts spoken language to text on-device in real time. Voice Activity Detection (VAD) intelligently filters ambient noise, ensuring accurate hearing in offices, retail floors, and outdoor public spaces.



On-Device Language Model

A fully local Large Language Model (LLM) understands natural language, processes complex queries, and generates contextually rich responses — entirely offline. No internet required for conversation generation.



RAG Knowledge Base

Upload your business documents (PDF, TXT, CSV, MD) directly into Dihuava's Retrieval-Augmented Generation (RAG) engine. The avatar can answer queries grounded in your own knowledge base — all processed locally.

Core Platform Capabilities at a Glance

- ◆ Fully offline AI speech recognition
- ◆ Multi-environment VAD configuration
- ◆ Product catalog with AI vocabulary
- ◆ Real-time system health monitoring
- ◆ Up to 5,000 daily interactions
- ◆ Offline mode for air-gapped deployments
- ◆ 67+ cached voice synthesis profiles
- ◆ Custom persona & avatar support
- ◆ Multilingual: English, Chinese, Spanish and 29+ More Languages
- ◆ License-based device activation
- ◆ 10 concurrent session support
- ◆ Gender-selectable avatar presentation

SUPPORTED LANGUAGES

32+ Offline Languages | Local TTS | No Internet Required

Dihuava supports multilingual AI conversations with fully offline speech synthesis and language processing. All voice generation runs locally on-device, ensuring maximum privacy, security, and uninterrupted operation.



PREMIUM VOICES

• English
(en)

• Spanish
(es)

• Chinese Mandarin
(zh)



SUPPORTED OFFLINE LANGUAGES

ASIAN LANGUAGES

Hindi (hi) • Japanese (ja) • Korean (ko) • Chinese Mandarin (zh)
Indonesian (id) • Vietnamese (vi)

EUROPEAN LANGUAGES

French (fr) • German (de) • Italian (it) • Portuguese (pt) • Russian (ru)
Dutch (nl) • Danish (da) • Finnish (fi) • Swedish (sv) • Polish (pl)
Czech (cs) • Slovak (sk) • Slovenian (sl)

ADDITIONAL EUROPEAN LANGUAGES

Croatian (hr) • Romanian (ro) • Hungarian (hu) • Bulgarian (bg)
Greek (el) • Estonian (et) • Latvian (lv) • Lithuanian (lt)
Ukrainian (uk)

MIDDLE EASTERN LANGUAGES

Arabic (ar) • Turkish (tr)



KEY BENEFITS

- ✓ Fully Offline Operation
- ✓ Real-Time Conversations
- ✓ Enterprise Security
- ✓ On-Premise Deployment
- ✓ No Internet Dependency
- ✓ Multi-Language Support

32+ LANGUAGES • OFFLINE AI • ENTERPRISE READY

Data Privacy & Compliance

100% On-Device Processing · Zero Cloud · GDPR-Ready Architecture

Your Data Never Leaves the Device



Dihuava is built from the ground up with a privacy-first, offline-first architecture. Every AI model — language understanding, speech recognition, voice synthesis, and semantic search — runs entirely on local hardware. No conversation data, voice recordings, or user interactions are transmitted to HS Global AI servers or any third-party cloud platform.

GDPR Compliant

PDPA Ready

HIPAA Friendly

Air-Gap Deployable

Data Residency

Zero Telemetry



GDPR Compliance

All personal voice and interaction data is processed and retained exclusively on the local device. No data transfer to third-party servers — satisfying GDPR's data minimization and storage limitation principles.



Healthcare & HIPAA

Patient interactions remain on-premises. No Protected Health Information (PHI) traverses public networks, making Dihuava suitable for hospital lobbies, clinic receptions, and patient guidance kiosks.

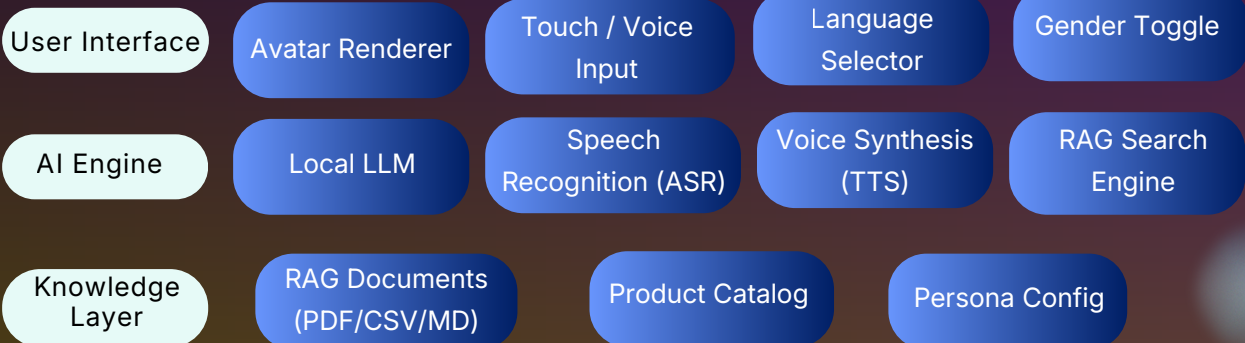


Banking & Finance

Financial institutions can deploy Dihuava with confidence that sensitive customer conversations, account inquiries, and advisory sessions remain within their secure perimeter.

ARCHITECTURE

Dihuava — On-Device AI Architecture



Air-Gap & Offline Mode

Dihuava supports fully air-gapped deployments — no internet connection is required at any stage of operation. Models are distributed via OneDrive/SharePoint during initial setup, then run autonomously on-device indefinitely. This makes it suitable for government facilities, secure financial offices, and high-security healthcare environments.

Software Features

Environment Configuration · Persona Management · Knowledge Base

ENVIRONMENT SETTINGS

Adaptive VAD Sensitivity Profiles

Dihuava's Voice Activity Detection (VAD) system dynamically adapts to the deployment environment. Administrators select a profile that matches the acoustic conditions of their location — ensuring consistent, accurate voice capture whether indoors or outdoors.

Indoor Patient

INDOOR

ACTIVE

Optimized for offices and homes. Designed for natural conversations with longer pauses — ideal for patient and deliberate dialogue styles.

Indoor Responsive

INDOOR

Tuned for meeting rooms and quick-service environments. Enables fast back-and-forth exchanges with minimal latency between utterances.

Outdoor Patient

OUTDOOR

Built for public spaces and high-noise environments. Tolerates ambient noise and natural interruptions — robust performance in shopping centres and transport hubs.

PERSONA MANAGEMENT

Customisable AI Assistant Personalities

Dihuava ships with multiple pre-configured persona profiles, each purpose-built for a different deployment context. Organizations can also upload entirely custom avatar packages — enabling a fully branded digital human presence.



Retail Sales Assistant

A friendly and knowledgeable assistant for retail environments. Greets shoppers, answers product queries, promotes offers, and guides customers through purchase decisions using the active product catalog.



Healthcare Assistant

A professional, calm, and authoritative persona tailored for healthcare settings. Provides patient direction, appointment guidance, and multilingual explanations in clinic and hospital environments.



Corporate Helpful Assistant

A polished assistant designed for corporate office environments. Manages visitor reception, HR enquiries, executive presence, and internal communications with a professional demeanor.



Upload Custom Avatar

Organizations can supply a signed avatar ZIP package to deploy an entirely custom digital human — enabling brand-specific personas, executive hologram representations, or industry-specific characters.

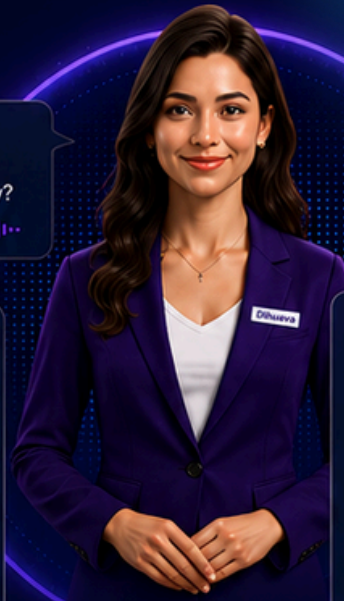
Custom Avatars

Dihuava Digital Human

Your Brand. Your Avatar. Your Customer Experience.

Custom Avatars let any business put their own branded digital human on screen — a realistic, talking AI presenter that greets customers, answers questions, and showcases products by voice.

Upload once, go live in minutes — speaking naturally, showing products, and handling real customer conversations in 32+ languages.



Hello!
How can I help you today?

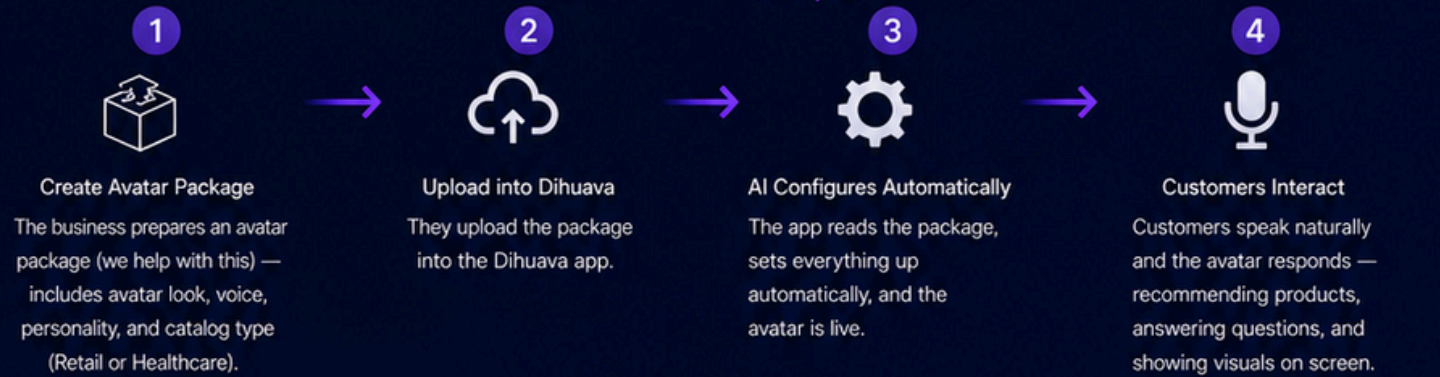
I recommend this product for you.

- Product Knowledge AI
- Multi-Currency Support
- Offline Ready
- Retail & Healthcare Ready
- Plug & Play Deployment
- Brand Customisation

- 32+ Languages
- Arabic (ar), Bulgarian (bg), Croatian (hr), Czech (cs), Danish (da), Dutch (nl), English (en), Estonian (et), Finnish (fi), French (fr), German (de), Greek (el), Hindi (hi), Hungarian (hu), Indonesian (id), Italian (it), Japanese (ja), Korean (ko), Latvian (lv), Lithuanian (lt), Polish (pl), Portuguese (pt), Romanian (ro), Russian (ru), Slovak (sk), Slovenian (sl), Spanish (es), Swedish (sv), Turkish (tr), Ukrainian (uk), Vietnamese (vi), Chinese (zh), Spanish (es).

Go from zero to a working branded assistant the same day. No coding. No technical setup.

How it Works (Simple)



Great Use Cases

Retail Showrooms
A digital sales assistant that recommends jewelry, clothing, or electronics by occasion and budget.

Healthcare Clinics
A concierge that helps patients find the right service or doctor and explains visit preparation.

Events & Kiosks
A branded presenter that engages visitors and answers FAQs hands-free.

Corporate Reception
Professional visitor guidance, information support, and multilingual assistance for enterprises.

Multi-Location Brands
The same avatar and catalog deployed across many stores, consistent everywhere.

“ Transform Static Catalogs Into Living Digital Sales Experiences.

The client uploads their brand once, and Dihuava handles the rest — voice, visuals, languages, and accurate product knowledge.

It's the difference between a website and a knowledgeable salesperson who never takes a break.

Launch Your Own AI Digital Human

Upload. Configure. Engage. Grow.

Software Features

Environment Configuration · Persona Management · Knowledge Base

AD BANNER

Digital Human Ad Banner

The Ad Banner turns the screen into a rotating promotional display whenever the avatar is idle and waiting for a customer. Instead of a blank or static screen between conversations, the business shows its own ads, offers, and announcements — like built-in digital signage.



What the customer can show



Up to 10 images or videos

in a rotating slideshow



Each slide has a headline + short message

(e.g. "Festive Sale — Up to 40% Off", "New Arrivals This Week")



Slides auto-rotate on a timer

the business controls (default every 8 seconds)



Turn the whole banner on or off

anytime

How it works (simple version)

1

The business opens the Ad Banner settings in the app.



2

Uploads their promo images or videos and types a headline + message for each.



3

Sets how fast slides rotate, and switches it on.



Everything is stored on the device — no internet needed to display ads, and no technical setup.

Why it matters for sales



Free advertising space
every idle moment becomes a marketing opportunity, right at the point of sale.



Always current
staff can swap promos in seconds for sales, festivals, or new stock.



Zero extra hardware
uses the same screen the avatar already runs on.



Drives engagement
eye-catching offers pull customers in to start a conversation with the avatar.

Selling points (one-liners)

- ✔ "Turn your idle screen into a 24/7 promo board."
- ✔ "Update your in-store ads in seconds — no designer, no IT."
- ✔ "Advertise and assist on one screen: ads when idle, AI salesperson when engaged."

Great use cases

- Retail — flash sales, new collections, loyalty offers
- Clinics — health camps, vaccination drives, new services
- Events/kiosks — sponsor logos, schedules, announcements

AI Product Catalog: Smart Visual Selling — Powered by On-Device AI

How It Works

Dihuava's AI Product Catalog turns a simple CSV file into an intelligent, visual sales experience. When a customer asks about a product :

- The digital human instantly recommends the best match
- Displays real photos and videos on screen
- Speaks about only what's being shown
- Creating a seamless audio visual selling experience.
- Everything runs 100% on-device.

How It Works : 3 Simple Steps

Upload

Drop a CSV file + product images/videos in the product catalog system

Meta Data Creation

Dihuava auto-generates vocabulary, translations, search index & product database

Customer Interaction

Customer interacts with dihuava using natural language and AI filters based on meta data to generate recommendations

Key features of the catalog

Simple CSV Upload : with pre defined columns . Business owners update their catalog in minutes, not days. Supports images (.jpg, .png, .webp) and videos (.mp4, .webm, .mov). as product catalog assets.

AI Meta Data Generation : The LLM automatically analyzes your catalog and generates synonyms, spelling variations, and domain-specific terms. A customer saying "gold bracelet", "bangle", or even "bracelat" all match the right product.

Smart Recommendation Engine , with dynamic Ranking " It uses a ranking method to recommend the most relevant product. It also understands natural queries like 'under \$500' or 'budget-friendly' to find the best options.

Visual Product Display (PIP) "picture in picture" : Product photos and videos appear on screen alongside the avatar in real-time.

Audio Visual Sync : The avatar discusses only the product being displayed. Zero hallucination exact price, exact features, with deterministic explanations. What the customer sees is what the avatar says.

Multilingual Auto-Translation : Catalog content is automatically translated into all languages using a glossary-first approach for accuracy, with LLM fallback for unknown terms. One CSV, every language.

Catalog Versioning & Rollback : Every catalog update creates a new version. Switch to the latest or roll back to any previous version with zero downtime.

AI MODELS

All Intelligence Runs On-Device

Dihuava bundles four distinct AI subsystems, each installed and executed locally. Models are distributed via a secure download mechanism (OneDrive/SharePoint or a custom URL) and cached on the device for fully autonomous offline operation.

Language Model

Local LLM for AI conversation generation. Understands user intent, generates contextually appropriate responses, and maintains conversational state without cloud access.

✓ Installed & Ready

Search Engine

On-device semantic search and document retrieval powering the RAG knowledge base. Enables accurate, citation-grounded answers from uploaded business documents.

✓ Installed & Ready

Voice Synthesis (TTS)

Natural voice generation with 67+ cached voice profiles. Supports multiple languages and gender options. Offline TTS ensures zero latency voice output independent of internet status.

✓ 67 Voices Cached

Speech Recognition (ASR)

High-accuracy voice-to-text conversion processed entirely on-device. Supports continuous listening with VAD filtering to eliminate noise and capture only meaningful utterances.

✓ Installed & Ready

VOICE SYNTHESIS MODES

Offline Mode

Local TTS — zero latency, zero dependency, packaged language models

Online Mode

Cloud TTS — expanded language library when connected

System Mode

OS-level speech engine as a lightweight fallback



Offline Voice Languages

Bundled on-device TTS models — no internet required. Selected during initial setup and cached locally.



Online Voice Languages

When internet connectivity is available, Dihuava connects to a cloud TTS service unlocking a significantly broader language and accent library — ideal for multilingual or international deployments.

Expanded multilingual library via cloud

KNOWLEDGE BASE & CATALOG



RAG Document Upload

Upload business documents in PDF, TXT, Markdown, or CSV format (up to 10 MB each). The knowledge base is indexed locally and enables the avatar to answer customer questions grounded in your actual content.



AI Product Catalog

Upload a structured product catalog — Dihuava automatically generates AI vocabulary from your products, features, and assets. Supports versioning with rollback capability for catalog updates without downtime.

SYSTEM HEALTH

Real-Time Service Monitoring

Dihuava's built-in health dashboard provides operators with live visibility into the status and response times of every internal service. Auto-refresh mode continuously monitors system integrity with a single glance.

COMMUNICATION SERVICE

ONLINE

3 sec response time

CONVERSATION ENGINE

ONLINE

2 sec response time

VOICE ENGINE

ONLINE

Ready · 67 voices cached

SPEECH RECOGNITION

ONLINE

Ready for input

API SERVICE

ONLINE

0ms (local socket)

SEARCH SERVICE

ONLINE

9 ms semantic search

LICENSE MANAGEMENT

Secure Device Activation & Feature Gating

Each Dihuava deployment is activated via a unique license key tied to the specific device hardware ID. The license controls feature access, session limits, and interaction quotas — ensuring fair use and commercial integrity across deployments.



Device-Bound Activation

Each license is cryptographically bound to a unique device hardware fingerprint. Licenses cannot be transferred or reused across machines.



Usage Quotas

Up to 5,000 daily interactions and 10 concurrent sessions. Clear expiry visibility with days-remaining counter and on-demand refresh.



Offline Mode Included

Licensed devices can operate in full offline mode — voice, AI, and responses all function without network access. No silent license "phone home."

MULTILINGUAL INTERFACE

· International-Ready Platform

Dihuava's entire operator interface supports multiple languages, ensuring deployment teams worldwide can configure and manage the system in their native language. The platform ships with all 32+ languages (Simplified) UI localizations out of the box.

Internationalization Features

- Offline all 32+ languages UI localizations included
- Avatar speaks in operator-selected language
- Online: Expanded cloud language library
- AI Models screen available in
- Settings menu available in local language
- Offline: All 32+ language bundled models
- License screen fully localized ()
- Language toggle accessible from main screen

Industry Applications

Dihuava

Purpose-Built for Real-World, Privacy-Critical Deployments

USE CASES

Dihuava's offline-first architecture and customizable persona system make it uniquely suited for industries where data privacy, uptime, and natural human interaction are non-negotiable.



Banking & Financial Services

AI digital advisors that assist clients in a private, compliant manner — entirely on-premises.

Account opening & loan guidance Investment advisory in-branch KYC & document explanation 100% local — no client data leaves the branch Real human hologram executive presence



Retail & Commerce

Interactive AI brand ambassadors that work 24/7, even during network outages.

›Product discovery & recommendations ›Real-time promotional offers ›Catalog-driven product queries ›Multilingual customer engagement ›Works offline during network downtime



Healthcare & Clinics

Patient guidance and front-desk assistance with full privacy compliance.

›Patient wayfinding & registration ›Multilingual health information ›Appointment check-in assistance ›HIPAA-compatible — no PHI transmission ›24/7 lobby & reception coverage



Corporate & Enterprise

AI receptionists and executive holograms that streamline workplace interactions.

Visitor check-in & management HR & policy FAQ assistant Executive hologram presence Internal communications kiosks Secure — no data leaves the office perimeter



Education & Training

Lifelike AI tutors and trainers that deliver engaging learning experiences.

Interactive classroom-style tutoring On-demand training delivery Student Q&A from knowledge base Operates in schools without internet Supports multilingual instruction



Tourism & Exhibitions

Immersive holographic guides that enrich visitor experiences in any venue.

›Museum & gallery interactive guides ›Trade show & exhibition assistants ›Tourist information in local language ›Works in remote areas without connectivity ›Attracts and engages crowds visually



Trusted Across Asia-Pacific & Middle East

HS Global AI operates as a trusted technology partner in Singapore and the UAE, with Dihuava deployments spanning retail, finance, healthcare, and enterprise verticals across the region. Our offline-first Edge AI architecture ensures Dihuava performs reliably in markets with varying connectivity infrastructure.

Technical Specifications

Dihuava

SOFTWARE PLATFORM

Specification	Details
AI Architecture	100% On-Device Edge AI — no cloud dependency
Language Model	Local LLM (Large Language Model) — on-device inference
Speech Recognition	On-device ASR with Voice Activity Detection (VAD)
Voice Synthesis	Local TTS (Offline) · 67+ voice profiles · Offline: EN, ZH, ES and 29+ more language bundled · Online: Expanded multilingual cloud library · System: OS fallback
Knowledge Base	RAG (Retrieval-Augmented Generation) · PDF, TXT, CSV, MD · Max 10 MB per file
Product Catalog	AI-generated vocabulary · Version control · Rollback support
Session Capacity	Up to 10 concurrent sessions
Daily Interaction Limit	Up to 5,000 interactions per day (license-controlled)
Supported Languages	English, Chinese , Spanish and 29+ more languages
Persona Profiles	Retail, Healthcare, Corporate · Custom avatar upload (signed ZIP)
Environment Profiles	Indoor Patient · Indoor Responsive · Outdoor Patient
License Type	Device-bound license key · Annual renewal · Offline-capable
Health Monitoring	Real-time dashboard · 6 service status indicators · Auto-refresh
Model Distribution	OneDrive / SharePoint URL or custom URL · One-time download
Data Privacy	Zero external data transmission · GDPR-compatible · Air-gap deployable

Dihuava

Digital Human Avatar Platform · By HS Global AI

100% On-Device AI · Zero Cloud · PDPA Ready · Air-Gap Deployable

Data Residency

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WHATSAPP



WECHAT



WHATSAPP



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