

## Intelligent Video Streaming Software

### I. Product Description

The Jin Zhi Lingxuan LX-MGW1000 series products are designed with a cross-platform architecture, integrating multifunctional streaming media software products such as video terminal device access, video file simulation of video streams, video pushing, location tag management, and media streaming forwarding. They can run stably on ARM and X86 architectures, helping customers quickly build wide area network video applications based on the B/S architecture, widely used in supermarkets, small shops, hotels, internet cafes, hotels, and various small-scale monitoring and interconnection scenarios with rich home broadband resources.

### II. Product Features

#### 1. Function Introduction

- Supports automatic scanning and access of devices with protocols such as ONVIF, GB28181, RTSP;
- Supports simulating video files into real-time video streams;
- Built-in B/S client for plug-in-free playback, achieving split-screen browsing, video playback, device configuration management, OTA upgrades, and other functions;
- Supports adding and deleting devices individually or in batches, easy to use;
- Supports remote operation and maintenance, supports OTA upgrades;
- Supports on-demand pushing, designated address pushing, and other hybrid pushing modes;

Please note: The product's appearance and color are subject to change. The actual product shall prevail.

- Supports video stream distribution protocols such as RTMP, HLS, HTTP-FLV,

WebSocket-FLV, RTSP, GB28181;

- Optional: Supports loading algorithms for analysis (specific functions are related to the selected hardware chips);
- Optional: Supports fast slicing of images in videos.

## **2. Adaptation to Software and Hardware Environments**

- Supports cross-platform operation, runs on chips such as RK3399, RK3568, Sunway BM1684, Kunpeng 920;
- Supports domestic Xin Chuang environment;The underlying design is in C++, with strong performance and low resource consumption;
- Can be customized to support other hardware environments.

## **III. Application Scenarios**

Suitable for users to quickly build video applications based on the B/S architecture (no plug-ins required), quickly integrate video resources from small places such as convenience stores, pharmacies, internet cafes, bars, restaurants, fire protection places, new energy, etc., to achieve rapid networking and full utilization.

## **IV. Core Selling Points**

Cross-platform, supports Xin Chuang, plug-in-free playback, supports ARM and X86, video live broadcasting, GB28181, GA/T 1400, media streaming forwarding, transcoding.

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## V. Feature List

System Name	Module Name	Feature Point	Description
Device Protocol Support	Access and Distribution Protocols	Access Protocol	RTSP/Onvif/GB28181/Video Files
		Distribution Formats	RTMP, HLS, HTTP-FLV, WebSocket-FLV, RTSP, GB28181
Business Management System	Device Status	Device Status	Displays the operation and usage of CPU, memory, hard disk, etc.
		System Information	Displays device name, software and hardware version, system time, communication status with the platform, activation status, network connection status, and other information
	Split-screen Preview	Video Presentation	Displays access video location information in a tree list form, showing the number of online and total access
		Split-screen Display	Supports 1, 4 split-screen forms for video playback display, supports fuzzy query channel name
	Video Playback	Video Playback	Supports playback of video recordings for corresponding channels based on channels and time ranges
	Configuration Management	Device Management	Supports adding cameras individually or in batches, supports the addition, editing, and deletion of national standard camera channels, supports searching and locating by name, type, status, IP address; supports simulating video stream access for video files
		Task Management	Supports viewing the status of added tasks
		Fire Gateway Configuration (Optional)	Supports pushing fire data in various ways such as MQ, HTTP, configurable push parameters such as IP address, port number, protocol, username, password, etc.
	Advanced Settings	Platform Access	Supports configuration of communication parameters with cloud business platforms, operation and maintenance platforms; supports parameter configuration for GA/T1400 access; supports parameter configuration for GB28181 access methods
		Network Settings	Supports configuration of device name, latitude and longitude, installation address information; supports configuration of device network interface addresses

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	Other	System Settings	Supports log level settings, supports manual/automatic restart strategy settings, supports device authorization management
		Time Synchronization	Supports device operating time zone, time settings, supports NTP time synchronization settings
		Files and Upgrades	Supports manual web remote firmware upgrades, supports OTA operation and maintenance system firmware upgrades
	User Management	Password Modification	Supports reconfiguration of user passwords

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