



Network-Based Device Management
Software Windows 10/11 Compatible



Product Overview:

The DesignPro DP-508Pro SmartLink is a professional-grade power management controller engineered for mission-critical AV, broadcast, and control applications. It combines intelligent power sequencing with advanced digital monitoring to ensure safe, stable, and efficient power distribution across complex systems.

Featuring a responsive 4-inch high-resolution touchscreen, the DP-508Pro SmartLink delivers real-time monitoring of voltage, current, power consumption, and overall system status. This enables users to supervise, control, and protect connected equipment with precision and confidence.

With its robust construction and intuitive user interface, the DP-508Pro SmartLink is ideally suited for professional AV installations, Server Rooms, KTV systems, video production environments, and centralized control facilities—where reliability, uptime stability, and structured power delivery are essential.

Smart App Control via Tuya Smart / Smart Life Platform

The DP-508Pro SmartLink further enhances operational flexibility with remote control and monitoring via the Tuya Smart and Smart Life platforms. Users can manage power sequencing, control individual outputs, and monitor overall system status remotely through either mobile application—anytime, anywhere.

This capability allows system administrators and AV engineers to control and supervise power systems over the internet, making it ideal for distributed installations or unmanned sites. Whether managing a control room or server room from a remote location, or performing remote diagnostics and system checks, the Tuya Smart / Smart Life app integration delivers enhanced convenience, operational efficiency, and real-time responsiveness.

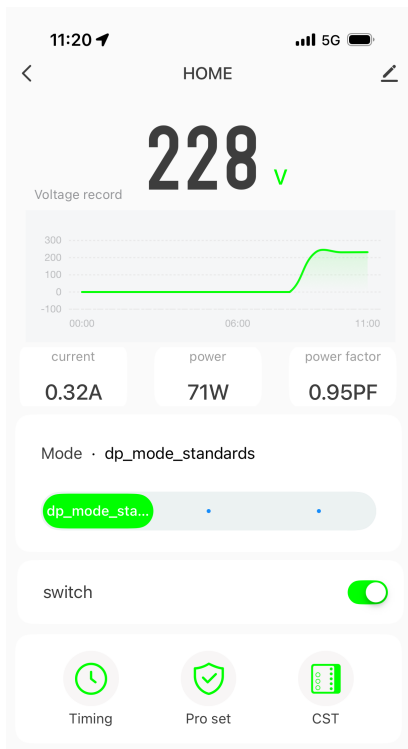
By combining professional-grade hardware with intelligent app-based control, the DP-508Pro SmartLink provides a modern, cloud-connected power management solution tailored for today's smart AV systems, IT infrastructure, Server Rooms, and centralized control environments.



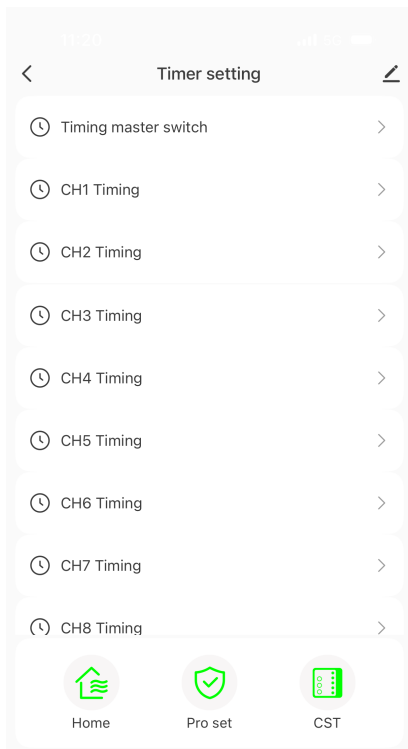
Smart App-Based Power Monitoring & Scheduling



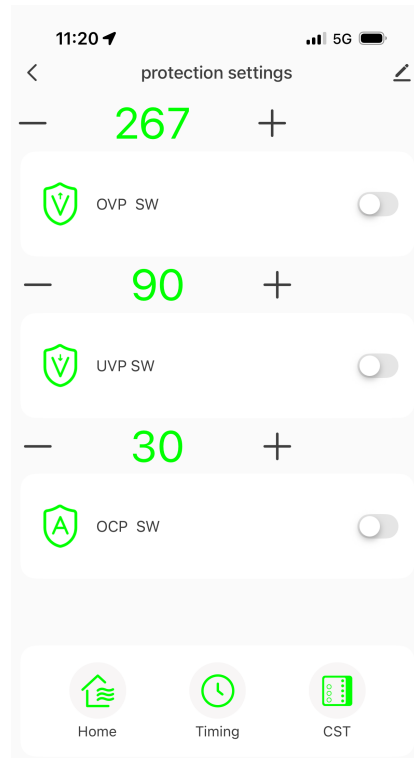
Real-Time Power Monitoring Dashboard



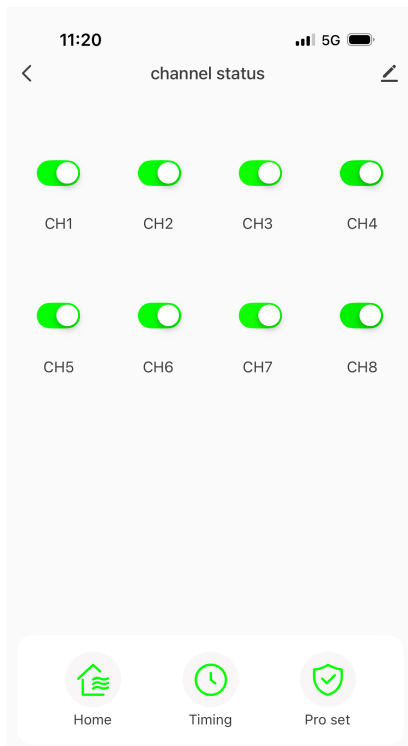
Centralized Timing & Channel Scheduling Menu



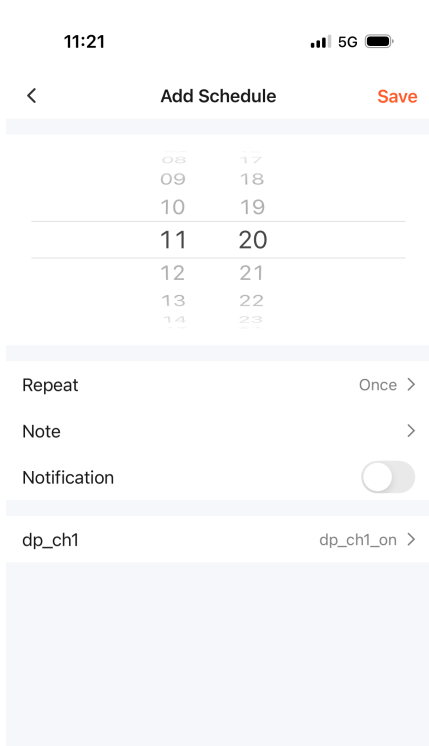
Advanced Electrical Protection Settings



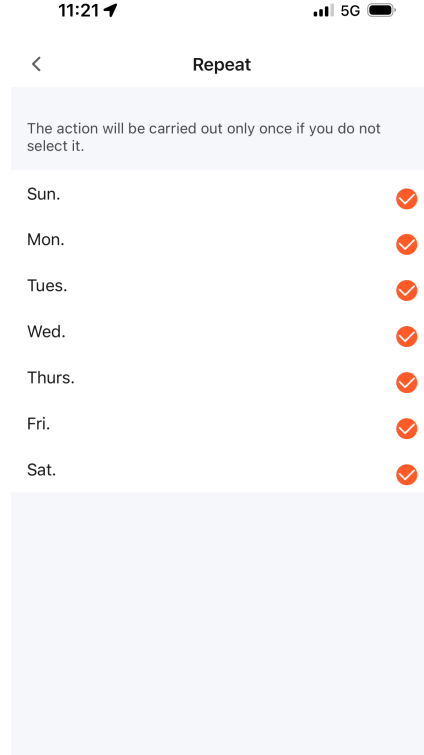
Individual Channel Status Control



Precise Task-Based Scheduling Setup



Weekly & Recurring Schedule Configuration



Key Features

Performance & System Architecture

- High-performance power management designed for mission-critical AV, broadcast, server room, and control environments
- Embedded RTOS (Real-Time Operating System) enabling stable multitasking and real-time response
- Intelligent digital power management with advanced system monitoring and protection

User Interface & Display

- Interactive graphical user interface (GUI) based on an advanced graphics library
- Built-in 4-inch high-definition touchscreen (480 × 800 pixels) with fast and responsive operation
- Supports external 4-inch HD display for mode selection, protection configuration, and status display (Chinese / English)
- Dual-language user interface: Chinese / English selectable

Power Control & Sequencing

- Independent control of 8 high-current power output channels
- Adjustable power-on and power-off delay for each channel (1–999 seconds, default 1 second)
- Intelligent power sequencing to enhance system stability and equipment safety
- Supports three operating modes: Standard / KTV / Video (individually selectable per application)

Protection & Safety

- Configurable overvoltage, undervoltage, and overcurrent protection with real-time alerts
- Fire alarm trigger input with on-screen alert pop-up and continuous buzzer warnings
- Comprehensive protection logic designed for continuous and unattended operation

Smart Control & Cloud Integration

- Smart cloud connectivity via Tuya Smart / Smart Life Platform
- Independent per-channel scheduling and power on/off timing configuration through the Tuya mobile app
- Remote monitoring and control anytime, anywhere via internet connection
- Seamless integration with Cloud IoT platforms for modern smart building and AV systems

Networking & Control Interfaces

- 10/100M Ethernet port supporting TCP/IP, UDP, RTU, MQTT, and HTTP protocols
- Centralized control via upper computer software over TCP/IP
- Supports monitoring of voltage, current, power consumption, and switch status in real time
- Full support for both network-based and serial-based control systems

Serial Communication & Expansion

- RS232 / RS485 control support with adjustable baud rates (4,800 – 921,600 bps, default 9,600)
- Unlimited device cascading via RS232 (maximum distance 10 meters; DB9 male-to-male crossover cable required)
- Supports reverse encoding and full device data readback for system integration

Monitoring & Energy Management

- Real-time monitoring of electrical parameters: Current (A) / Power (W) / Power Factor (PF)
- Cumulative electricity consumption tracking
- Cumulative device operating time recording (in minutes)
- Enhanced scheduling system: compatible with dual 24-hour timers and extended multi-task scheduling

Additional Control Functions

- Infrared (IR) control with selectable operating modes
- Flexible integration with third-party control systems and automation platforms



Application Scenarios

- Professional Audio-Visual Systems
- Server Rooms and IT Infrastructure
- KTV and Entertainment Venues
- Video Production Studios and Broadcast Rooms
- Corporate Conference and Board Rooms
- Command and Control Centers
- Smart Building and Centralized Power Management Systems

Highlighted Advantages

- Professional-grade power protection for mission-critical equipment
- Real-time monitoring of voltage, current, power consumption, and system status
- Intelligent sequential power control for enhanced system stability and equipment safety
- Remote monitoring and control via Cloud IoT platforms (Tuya Smart / Smart Life)
- Centralized management of multiple devices across distributed locations

Technical Specifications

Item	Specification
Working Voltage	90-267V AC
Maximum Total Power	5000W
Maximum Power per Channel	2500W
Display Screen	4-inch HD Touchscreen (480×800 pixels)
Ethernet Interface	10/100M
Supported Protocols	TCP/IP, UDP, RTU, MQTT, HTTP
Cloud Platform Compatibility	Huawei, Alibaba, Baidu, Tencent, OneNET
Cloud App Control	Tuya Smart / Smart Life
Management Software	Network-Based Device Management Software, Windows 10/11 Compatible
Device Cascading	RS232 (max 10 meters)
Central Control Interface	RS232 / RS485
Baud Rate Range	4800-921600 bps (default 9600)
Language Support	Chinese, English
Product Dimensions (W x D x H)	485 x 217 x 88 mm
Net Weight	Approximately 6.5 kg

