

Kommander KPLS26

All-in-one video controller

Version: v1.0

Release date: November 2023



Specifications



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Professional Ultra HD Video Display
Control system integrated solution and service provider

Version record

Version number	Change details	Release time
V1.0	First edition released	2023.11

Overview

Kommander KPLS26 all-in-one controller supports 4-channel digital signal input and 10 network port outputs. The maximum load of the whole machine is 6.4 million pixels. It adopts pure hardware FPGA architecture and can run continuously for 365×24 hours to meet the small-pitch applications. Configuration requirements for the large screen control system.

Features

- The stand-alone machine has 10 network ports, the single network port can carry 650,000 pixels, the maximum load of the whole machine is 6.4 million pixels, the width can reach 10,240 points, and the height can reach 8,192 points.
- 3.5mm audio output, audio and video synchronous output and input
- Support multiple digital signal interfaces, including 3-way HDMI1.3 and 2-way DVI-D input sources and 2-way USB
- WIFI, Ethernet port, U disk multiple communication methods
- Support signal source hot backup.
- Built-in 8GB (5G available for users), support U disk expansion
- Support one-key black screen/still function.
- Black edge removal/cutting function: solve the black edge problem generated by the front-end signal, and do arbitrary cutting for any signal source (still keep the full screen state).
- Support key lock to prevent misuse.
- The display brightness and contrast of the overall output screen can be adjusted in real time and quickly.
- The K-HDR function supports SDR-to-HDR image optimization technology, which can improve the contrast of ordinary SDR videos, enhance image details, and make ordinary videos have HDR effects.

Panel description



Name	Function Description
Switch	Device power switch
LCD screen	Display the device setting menu and the current status of the device

Input ports	<ul style="list-style-type: none"> ● DVI-1: click to switch directly to DVI-1 signal ● DVI-2: click to switch directly to DVI-2 signal ● HDMI-1: click to switch directly to HDMI-1 signal ● HDMI-2: click to switch directly to HDMI-2 signal ● HDMI 1.3: input interface, external signal ● USB2.0 *2, Update program via U disk ● Audio: 1/8" TRS audio input, 3.5mm stereo jack, 2.0Vp-p / 10 KΩ ● Input source status light: <ul style="list-style-type: none"> - Steady on: The input signal connected is normal - Flashing: No signal source is connected or the connected signal source is abnormal
Output ports	<ul style="list-style-type: none"> ● The stand-alone machine has 10 network ports ● HDMI 1.3*1, 1/8" (3.5mm) TRS, output interface, loop out signal ● Audio output port*1: 3.5mm Audio output port
Control Ports	<ul style="list-style-type: none"> ● USB-CFG * 1: USB-CFG interface, used to connect PC host computer control
	<ul style="list-style-type: none"> ● COM*1: RS232 interface, used to connect the central control equipment; Data transfer rates of 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 (BT)
	<ul style="list-style-type: none"> ● RJ45*1 - 100M input network port, access to LAN, can be directly connected to PC
WIFI	<ul style="list-style-type: none"> ● Wifi Antenna interface ● Wifi STA+AP Dual mode, can be connected to the router, can be used as a hotspot for mobile phone, computer connection
Output Interface	<ul style="list-style-type: none"> ● Used to transfer data to receiving card. Single network port loading: 650,000 pixels ● Total load: 6.4 million pixels, the widest 10,240 points, and the highest 8,192 points
Function shortcut key	<ul style="list-style-type: none"> ● Window; shortcut key for screen switching ● Mode: user mode shortcut key ● Function: common function shortcut keys ● Out: output black screen shortcut key

Menu	<ul style="list-style-type: none"> ● Menu: Click to enter or return to the main menu interface ● OK: Confirm button ● Navigation: Click to enter navigation debugging ● Return: Click to exit the current interface
Knob	<ul style="list-style-type: none"> ● Press the knob to confirm selection ● Rotate the knob to select menu options or adjust parameters



Specifications

Machine specification

Input power	100-240V AC~50/60Hz
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Input adapter power	DC 5V/4A Power supply
Operating temperature	0-45°C
Operating humidity	5%-95%, no condensation
Dimensions	483×270.5×73mm (L×W×H) 247.2×138.5×51.1mm (L×W×H)
Net weight	4Kg
Overall power consumption	60W
Hardware performance	1.6GH, quad-core CPU, 3D GPU 1GB@600MHz DDR3 high-speed memory Support 1080p@60fps hard decoding playback Support 1080p@30fps hardware encoding
Storage	Built-in 8GB storage (5G available)
Wifi connect distance	20m (Unobstructed)
Support multimedia format	
Video format	AVI, WMV, MPG, RM/RMVB, VOB, MP4, FLV and other common video formats; Supports same time playback of multiple videos
Audio format	MPEG-1 Layer III, AAC etc.
Image Format	Support bmp, jpg, png etc.
Text form	Single line text, static text, multi-line scrolling text, office, etc.
Clock	Real-time clock, multi-regional clock display and management.
OSD	Support 32bit true color OSD, can be displayed in any position, support video/graphics mixing, can superimpose graphics on the video.