4K Splitter with Switch

LM-SP420

User Manual

For the safety of you and equipment, please read the safety instructions carefully before using this equipment. If you have any queries in use, please read the instructions first. A detailed description of device operation is provided in the main body. If there is still doubt, please contact us. We will give you a satisfactory reply as soon as possible.

If there is any change in the instruction manual, without prior notice, please understand.

Catalog

Chapter 1. Installation instructions

1	Power adapter	This equipment supports 100-240V AC input. In order to make the equipment work properly, please do not replace our standard power adapter easily.
2	Power off	Turn off all the power supply, unplug the power plug, etc. to ensure the safety of you and the equipment.
3	Cables	It is not possible to place objects on power lines, signal lines, communication lines and other cables. Cables should be avoided from being trampled or squeezed to prevent leakage or short circuit.
4	Signal cables	When the signal line is inserted or pulled from the equipment, the equipment needs to be cut off so as not to damage the equipment. If not,The damage is not in warranty
5	Heat dissipating hole	There may be openings on the outside surface of the equipment for heat dissipation. Do not block these openings to avoid heat accumulation, damage to the equipment or cause fire hazards.
6	Equipment placement	Equipment should be reasonably placed, such as standard rack, chassis, cabinet, or placed on a stable and flat work table to prevent equipment from falling.
7	Environment	The environment of equipment should pay attention to dust proof and moisture proof, especially prevent liquid from soaking and splashing into the equipment.
8	Repair	All maintenance work should be done by professional maintenance personnel. Do not attempt to repair equipment without training. To avoid the danger of electric shock, do not unlock the case.
9	Safety precautions	1, there is electricity inside the equipment, non professional maintenance personnel shall not open the chassis, in order to avoid any danger. 2, strictly prohibit water droplet or water splashing, strictly prohibit putting any liquid container container on the equipment. 3, in order to prevent fire, the equipment should not be near the fire source. 4, in order to fully ventilate, the front and back panels of the equipment should maintain at least 20CM gap. 5, If the equipment makes strange noise, smoke or odor, the power plug should be unplugged immediately and handled by professional maintenance personnel. 6, in case of thunder or long absence, please unplug the power supply.

		7, do not plug any object from the ventilation hole of the equipment, so as to avoid damage to the equipment or electric shock. 8, it is not suitable to place this equipment in near water or other damp places. 9, it is not suitable to place this equipment near heat sink or other high temperature places. 10, please properly arrange the power cord to prevent breakage. 11, under the following circumstances, the power plug of this equipment should be removed and handled by professional maintenance personnel. 1) when the plug power cord is damaged or worn; 2) when liquid splashes into the equipment. 3) when the equipment falls or the chassis is damaged. 4) when the equipment has obvious functional abnormalities or performance changes; 5) Regularly check whether the fan is working properly, if the fan is not working, it should be immediately unplugged and switched off the power supply of the equipment, handled by professionals.
This equipment is not suitable for non professionals to operate and debug. Users must receive professional training and guidance.		

Chapter 2. Product overview

This equipment is a multi-functional UHD video processor, a single device can complete multi-signal switching, signal distribution, signal amplification and so on. The product supports 4 channels of HDMI signal input, N channels of HDMI signal output, input and output signals up to 3840*2160@30Hz UHD. At the same time, all input signals of the product can support synchronous switching between video and audio.

Features

1, support 4 channel HDMI1.4 input, the maximum resolution can reach 3840*2160@30Hz or 4096*2160@24Hz;

2, support HDCP1.4 to solve blue DVD signal.

3, any HDMI signal can be selected to output to multiple screens.

4. Modular designed. The output can be customized according to the actual situation of customers. The single machine supports 4-20 channels of customized output.

5, output resolution is input resolution, up to 3840*2160@30Hz or 4096*2160@24Hz;

6, the maximum output distance can reach more than 20 meters.

7, the adoption of the standard 19 inch 1U chassis, 100-240V AC input, universal national.

2.1 Technical parameter

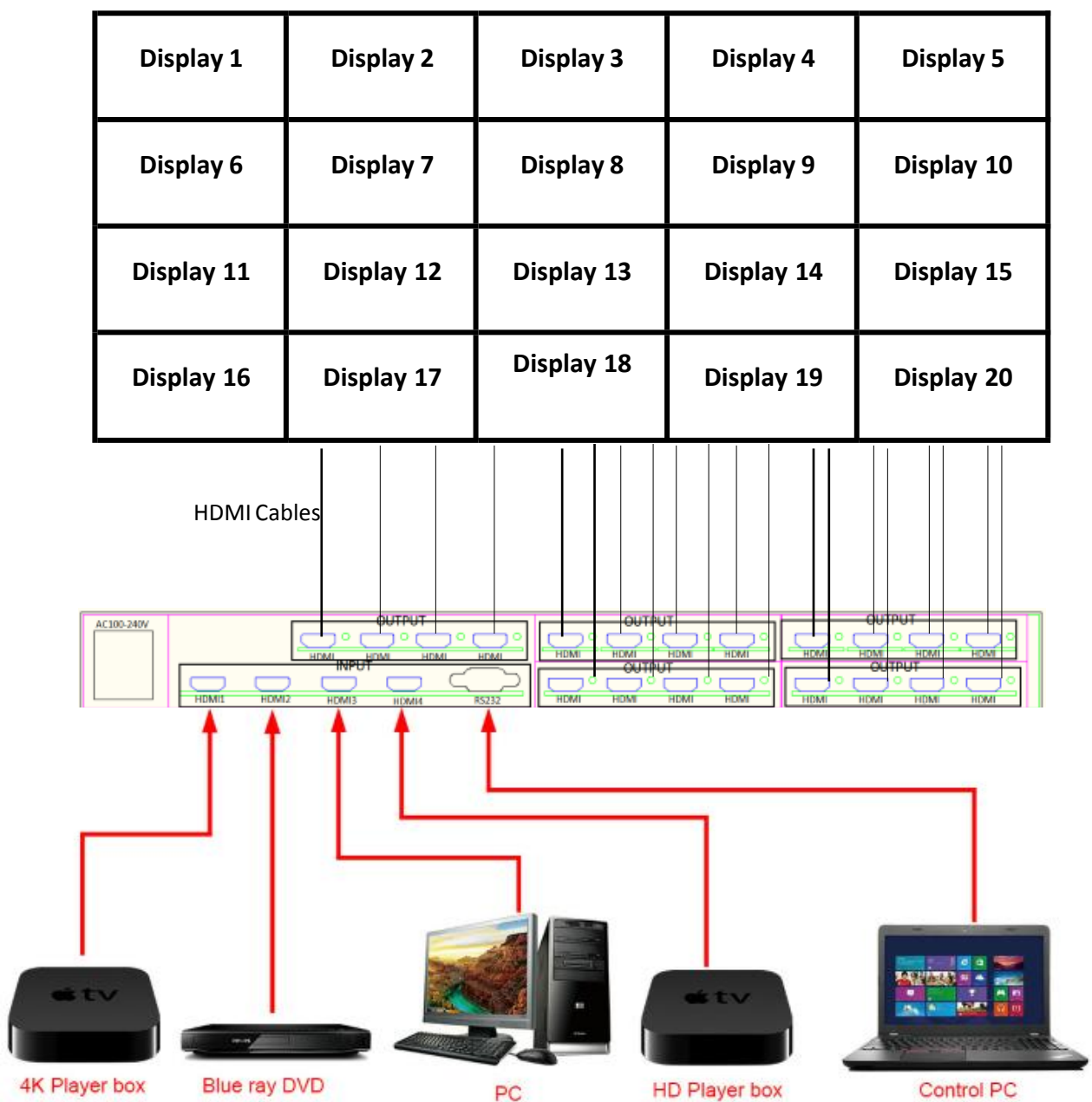| Name	Specifications
Input signal	
HDMI signal	HDMI1.4(HDCP1.4)
Output signal	
HDMI output	4-20 channel HDMI output
Other	
Control	Key panel,Remote control, RS-232 serial port
Power supply	AC100-240V
Power waste	60W Max.
Size	
Dimension	440mm(L)x240mm(D)x44mm(H)
Weight	3.5Kg

2.2、Control protocol

Baud rate：9600　　　Data bit：8　　　Check bit：None　　　Stop bit：1

HDMI1: 1SO　　　　　　　HDMI2: 2SO

HDMI3: 3SO　　　　　　　HDMI4: 4SO

2.3、 Product topological graph

Display 1	Display 2	Display 3	Display 4	Display 5
Display 6	Display 7	Display 8	Display 9	Display 10
Display 11	Display 12	Display 13	Display 14	Display 15
Display 16	Display 17	Display 18	Display 19	Display 20

HDMI Cables

AC100-240V

OUTPUT
HDMI HDMI HDMI HDMI

INPUT
HDMI1 HDMI2 HDMI3 HDMI4 RS232

OUTPUT
HDMI HDMI HDMI HDMI

OUTPUT
HDMI HDMI HDMI HDMI

OUTPUT
HDMI HDMI HDMI HDMI

OUTPUT
HDMI HDMI HDMI HDMI

4K Player box　　　Blue ray DVD　　　PC　　　HD Player box　　　Control PC

Chapter 3.　　Panel operation introduction

①②　　　　　　　　　　　　　　　　　　⑦

③　　④　　⑤　　⑥

①	LED light (Current channel have signal, the light is on,if not,is off)	②	Remote control receiver
③	HDMI1 input signal	④	HDMI2 input signal
⑤	HDMI3 input signal	⑥	HDMI4 input signal
⑦	Power on/off		

Chapter 4. Introduction of remote control operation

HDMI1

HDMI2

HDMI3

HDMI4

HDMI1

HDMI2

HDMI4

HDMI13