



SPC100 Series

Synchronous Signal Generator

Specification V4.0



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1 Update Records

Document Version	Release Time	Update Record
V4.0	June 17(th), 2025	First Release

2 Product Introduction

SPC100 series synchronous signal generator, support multiple BB signal or three-level signal output, using the chassis and board configuration, SPC100 synchronous signal generator is a video processor, studio, broadcast control system and virtual system in the high-quality synchronization signal source, is a synchronization system in the necessary equipment.

3 Product Features

- Supports multi-channel synchronous signal output
- Supports external phase locking
- Supports gain control
- External redundant adapter power supply for safety and reliability
- Signal standards: SMPTE170M, ITU624-2
- System: PAL, NTSC
- Interface: BNC 75 ohm
- Signal input amplitude: 100 mV $\pm$ 10%
- Return loss: >40 dB, 0.1 MHz to 6 MHz
- Differential gain: <0.5%
- Differential phase: <1%

4 Application Scenarios



5 Product Appearance

1U chassis



* Product photos are for reference only, please refer to the products actually purchased.

5.1 Data Interface Description

Name	Illustration
1U chassis	1U chassis, 6 slots, redundant power supply, aluminum alloy material, light weight, good heat dissipation

Synchronization Signal Generation Card



* Product photos are for reference only, please refer to the products actually purchased.

Name	Illustration
Synchronization Signal Generation Card	7-channel black field synchronous signal generator, 7-channel BB signal output, supports three-level signals

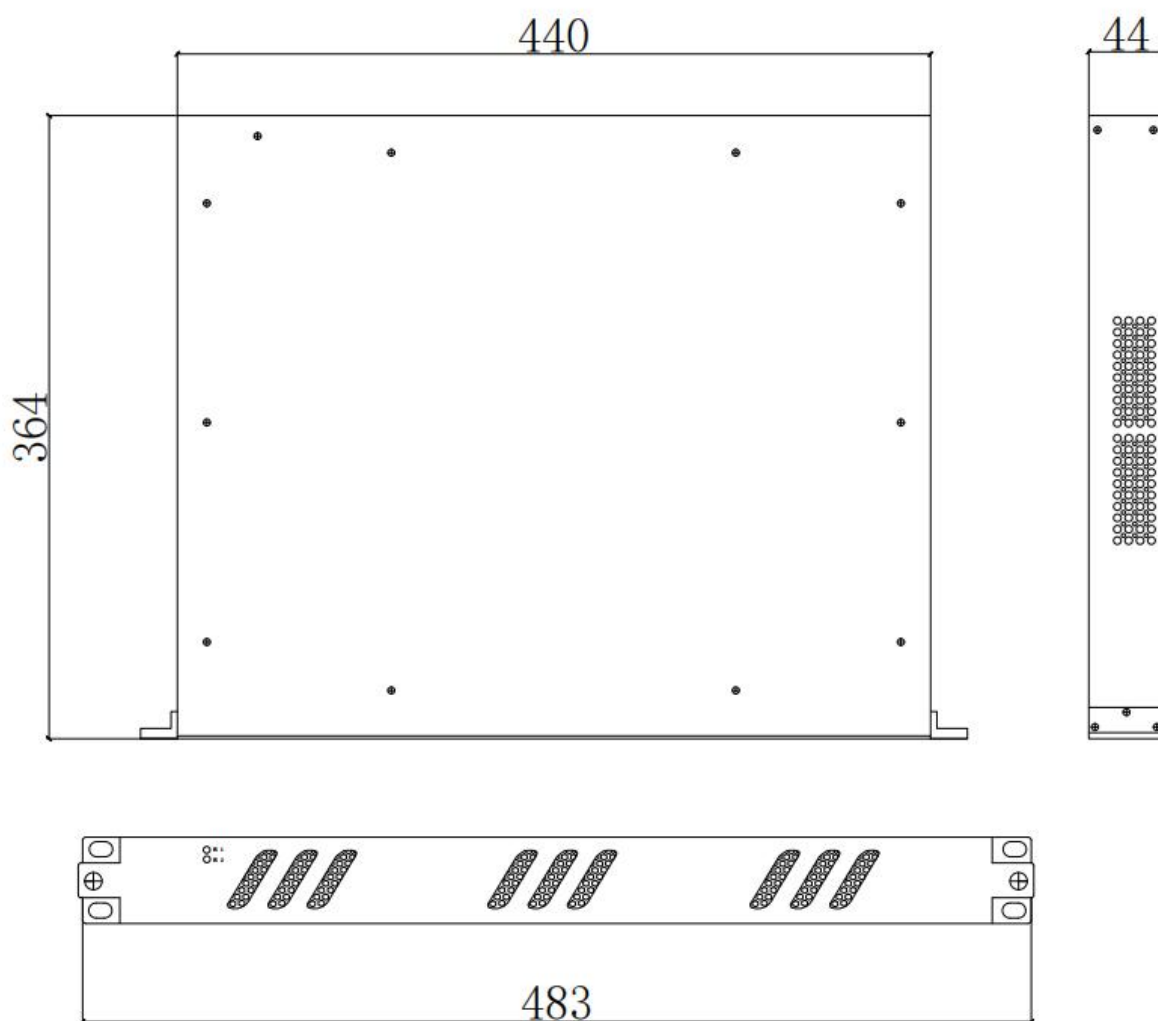
Simulated video card



* Product photos are for reference only, please refer to the products actually purchased.

Name	Illustration
Simulated video card	1 analog video input, 6 analog video outputs. Supports cable balancing, PAL/NTSC system adaptation, and gain control

5.2 Product Dimensions



Tolerance: ± 0.3 Unit: mm

6 Product Parameters

6.1 Basic Parameters

Product Name	SPC100 Synchronous Signal Generator					
Product Model	SPC100 -7	SPC10 0	SPC100 -17	SPC10 0	SPC100 -27	SPC100 -32
Chassis Type	1U					
Synchronous Signal Generator Card	1					
Maximum Quantity		1	2	3	4	5
Analog Video Distribution Card	7	12	17	22	27	32

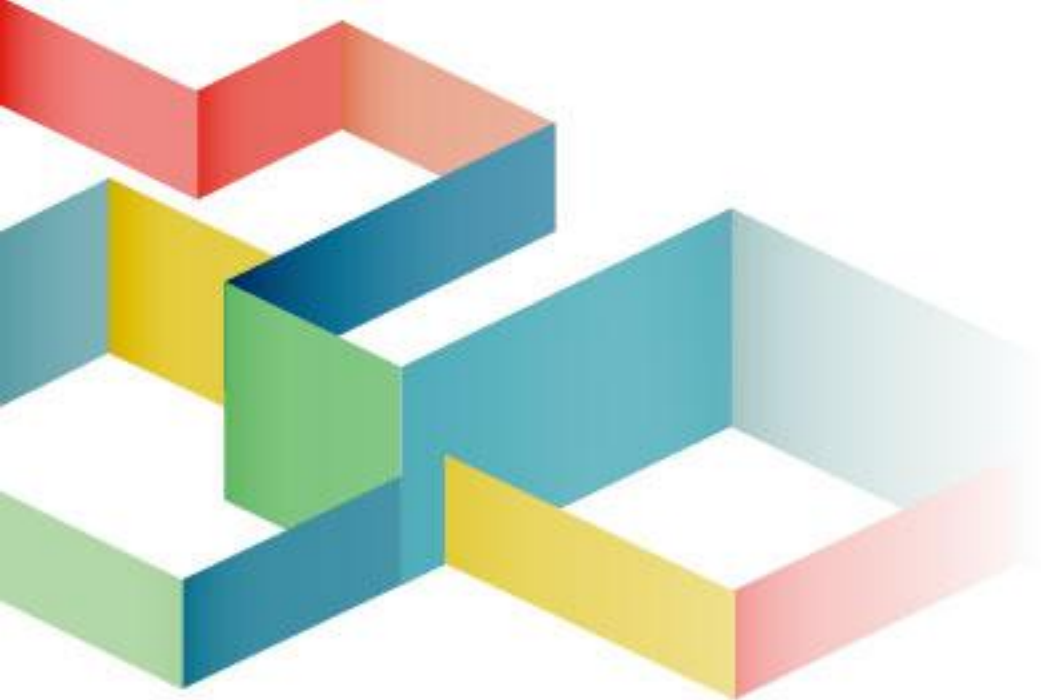
6.2 Product Specifications

Electrical parameters	Input voltage	DC 12V
Working environment	Working temperature	0°C~45°C
	Working humidity	0%RH~80%RH non-solidifying
Chassis Dimensions	483mm×364mm×44mm	
Net Weight	3.2Kg	

* Current and power consumption may vary according to different factors such as product usage, environment and settings.

7 Precautions

- The installation process must be completed by professionals.
- Must be antistatic.
- Please pay attention to waterproof and dust removal.



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