

# SB-520 Streaming Box

Quick Guide | 操作手冊 | 操作手冊





## Federal Communications Commission Statement Class A

For a Class A digital device or peripheral, the instructions furnished to the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



## European Community Compliance Statement

Class A

This product is herewith confirmed to comply with the requirements set out in the Council Directives on the approximation of the laws of the Member States relating to Electromagnetic Compatibility Directive (EMC) 2014/30/EU, Low Voltage Directive (LVD) 2014/35/EU.



## Waste Electrical and Electronic Equipment Directive

The mark of crossed-out wheeled bin indicates that this product must not be disposed of with your other household waste. Instead, you need to dispose of the waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. For more information about where to drop off your waste equipment for recycling, please contact your household waste disposal service or the shop where you purchased the product.

## CAN ICES-3(A)/NMB-3(A)

Canada - Canada Industry Canada (IC) Labeling Requirements

Every manufacturer or importer shall ensure import or before offering for sale, as appropriate, that each unit of the type that they offer for sale bears, in allocation convenient for inspection, a permanent label or marking containing (in French and English), the following statement:

ICES-003 (Interference - Causing Equipment Standards)

"This class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada."



## Disclaimer

All pictures contained in this documentation are example images only. The images may vary depending on the product and software version. Information presented in this documentation has been carefully checked for reliability; however, no responsibility is assumed for inaccuracies. The information contained in this documentation is subject to change without notice.

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For more information, please visit [www.aver.com](http://www.aver.com).

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## Headquarters

Address 8F, No.157, Da-An Rd., Tucheng Dist., New Taipei City 23673, Taiwan

Website [www.aver.com](http://www.aver.com)

Support [www.aver.com/Technical-Support](http://www.aver.com/Technical-Support)

## Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Follow all instructions.
4. Heed all warnings.
5. Do not use the apparatus on uneven or unstable surfaces.
6. Do not use this apparatus in a wet environment or near water.
7. Unplug the apparatus before cleaning. Clean only with a dry cloth.
8. Use in a well ventilated environment. Do not block any ventilation openings.
9. Use the apparatus within ambient temperatures 32–122°F (0–50°C).
10. Use power sources within the specified voltage range.
11. Do not place heavy objects on the apparatus.
12. Do not install near heat sources such as radiators or stoves.
13. Do not defeat the safety purposes of the polarized or grounding-type plug.
14. Protect the power cord from being walked on or pinched, particularly where the cord connects with plugs or adapters.
15. Only use the attachments and accessories specified by the manufacturer.
16. Unplug this apparatus during lightning or when unused for prolonged periods of time.
17. Do not modify or disassemble the apparatus in any way.
18. Refer all servicing to AVer Customer Service.
19. Do not dispose the apparatus as general household waste. Dispose in accordance with local environmental laws.

## 重要安全說明

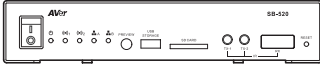
1. 仔細閱讀這些說明。
2. 妥善保存這些說明。
3. 遵守所有的指示。
4. 注意所有的警告。
5. 請勿將本產品安裝於不平穩的表面。
6. 請勿在潮濕或靠近水的地方使用本產品。
7. 清潔前請拔除電源。僅使用乾布清潔。
8. 請於通風的環境使用本產品。請勿堵住通風口。
9. 請於規格溫度範圍 32–122°F (0–50°C) 使用本產品。
10. 請使用額定電壓範圍內的電源。
11. 請勿放置重物於本產品上。
12. 請勿安裝於熱源附近如暖器或火爐旁。
13. 請勿破壞極性或接地插頭的安全防護設計。
14. 請保護電源線，勿使其被踩踏或碾壓，特別是與插頭或變壓器的連接處。
15. 僅使用製造商指定的配件及零件。
16. 打雷或長時間不使用時請拔除電源。
17. 請勿以任何方式改造或拆解本產品。
18. 如需維修請洽本公司客服人員。
19. 請勿當作家庭垃圾任意丟棄。請遵從當地環境法規妥善處理。

## 重要安全说明

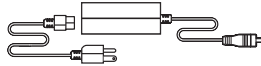
1. 仔细阅读这些说明。
2. 妥善保存这些说明。
3. 遵守所有的指示。
4. 注意所有的警告。
5. 请勿将本产品安装于不平稳的表面。
6. 请勿在潮湿或靠近水的地方使用本产品。
7. 清洁前请拔除电源。仅使用干布清洁。
8. 请于通风的环境使用本产品。请勿堵住通风口。
9. 请于规格温度范围 32–122°F (0–50°C) 使用本产品。
10. 请使用额定电压范围内的电源。
11. 请勿放置重物于本产品上。
12. 请勿安装于热源附近如暖器或火炉旁。
13. 请勿破坏极性或接地插头的安全防护设计。
14. 请保护电源线，勿使其被踩踏或碾压，特别是与插头或变压器的连接处。
15. 仅使用制造商指定的配件及零件。
16. 打雷或长时间不使用时请拔除电源。
17. 请勿以任何方式改造或拆解本产品。
18. 如需维修请洽本公司客服人员。
19. 请勿当作家庭垃圾任意丢弃。请遵从当地环境法规妥善处理。

## Package Contents

Check that the following items are included in your package. Package contents may vary depending on your country of purchase.



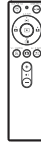
SB-520



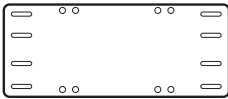
Screw-On  
Power Adapter & Cable



Quick Guide



Remote Control



Base Rack Mount



Long Rack Mount



Short Rack Mount x 2

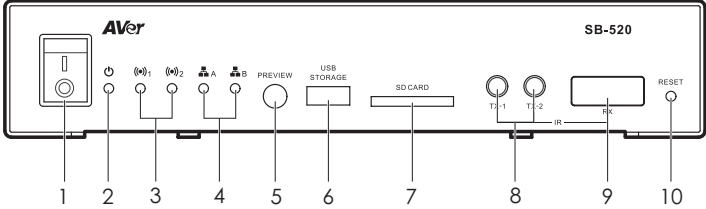


Screw x 8

## Overview

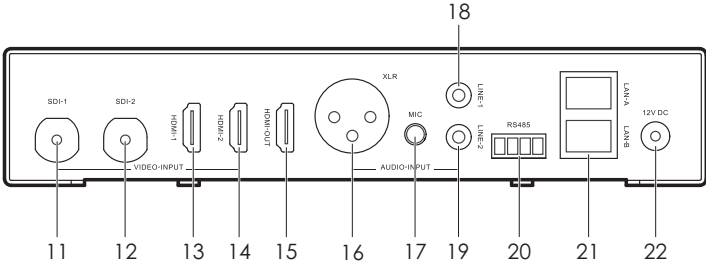
These are the ports and connectors of **SB-520**.

### Front View



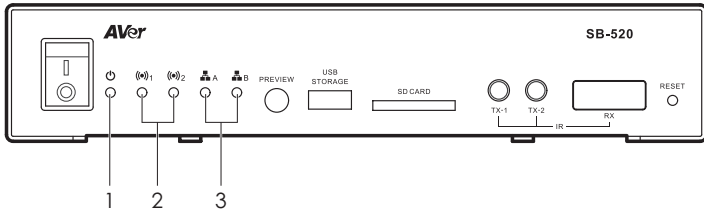
- |   |  |    |   |
|---|--|----|---|
| 1 | Power Switch                               | 6  | USB Drive Port                                  |
| 2 | Power LED                                  | 7  | SD Card Slot                                    |
| 3 | Stream Status LED 1 & 2                    | 8  | IR Port 1 & 2                                   |
| 4 | LAN Status LED A & B                       | 9  | IR Sensor                                       |
| 5 | Preview Button<br>(Output 1 <--> Output 2) | 10 | Reset Button<br>(long press for 5 sec to reset) |

### Rear View



- |    |              |    |                            |
|----|--------------|----|----------------------------|
| 11 | SDI-1 Input  | 17 | MIC Input                  |
| 12 | SDI-2 Input  | 18 | LINE-1 Input               |
| 13 | HDMI-1 Input | 19 | LINE-2 Input               |
| 14 | HDMI-2 Input | 20 | RS485 Port (not supported) |
| 15 | HDMI Output  | 21 | LAN-A & LAN-B Ports        |
| 16 | XLR Input    | 22 | 12V DC Input               |

## LED Indications



When the unit is powered on, the blue LED indicator lights up and starts to flash. **SB-520** is ready when the blue indicator goes from flashing to solid blue.

Please refer to the following table to check the status of LED indicators.

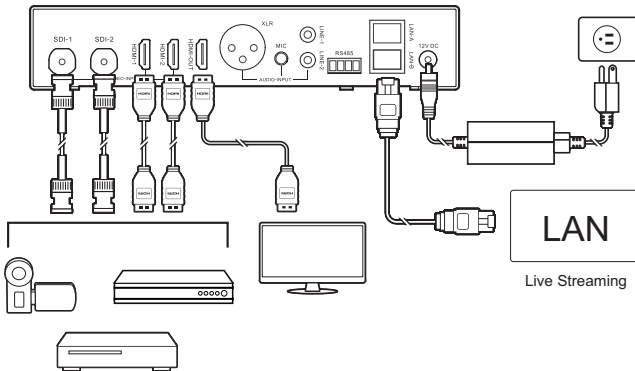
No.	LED	Icon	Indicator	Status
1	Blue		Power	No light: Powered off Flashing blue: Turning on / off, storage full Solid blue: Powered on
2	Green		Stream-1 Stream-2	No light: No streaming Solid green: Streaming / Recording Flashing green: Error
3	Green		LAN-A LAN-B	No light: No connection Solid green: 100M/1,000M connected Flashing green: 100M/1,000M streaming

## Connections

You can connect up to four sets of sources to **SB-520** at the same time. Recommended connections are as follows:

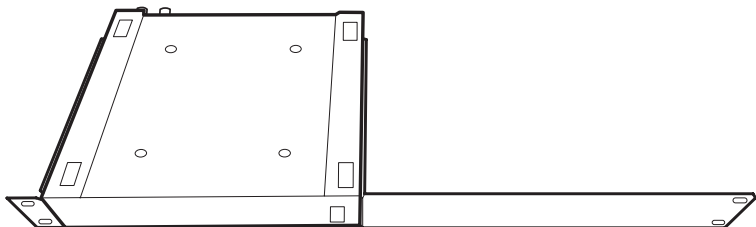
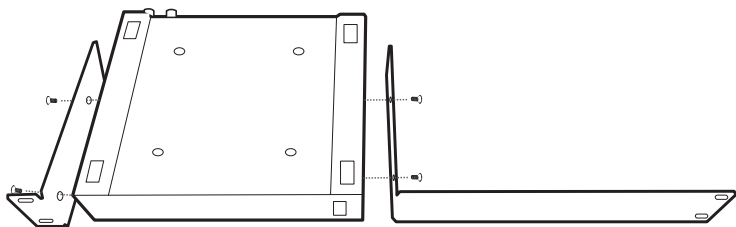
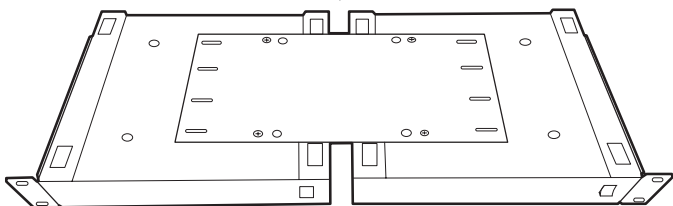
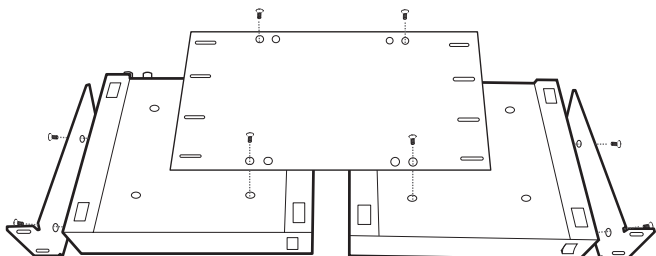
Connect two HDMI and two SDI cables to **SB-520**. You can also connect a display to HDMI-OUT to monitor your outgoing content.

Note: RS485 port is reserved.

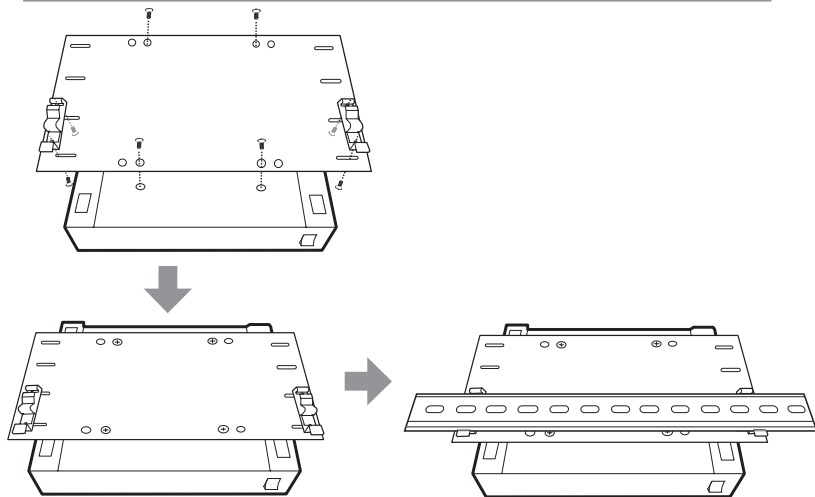


## Rack Mounting Procedures

**SB-520** can be easily fitted into various mounts or brackets using the included rackmount kit.

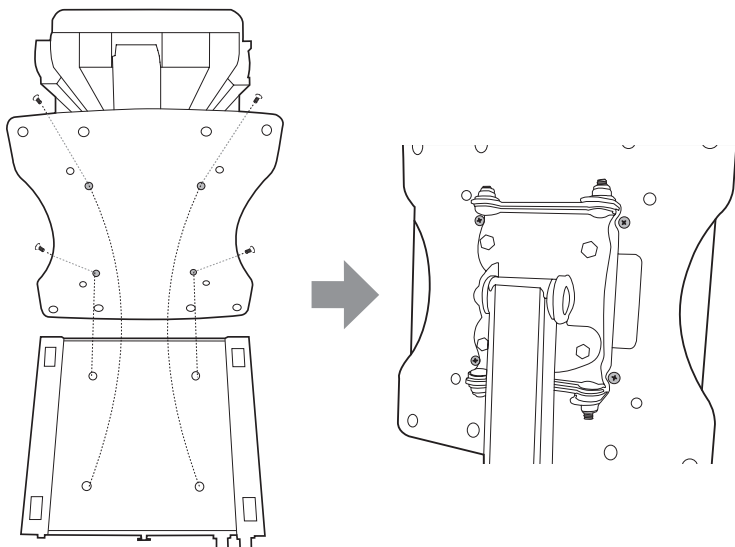


## DIN Rail Mounting Procedures



Note: DIN clips and rail are not included.

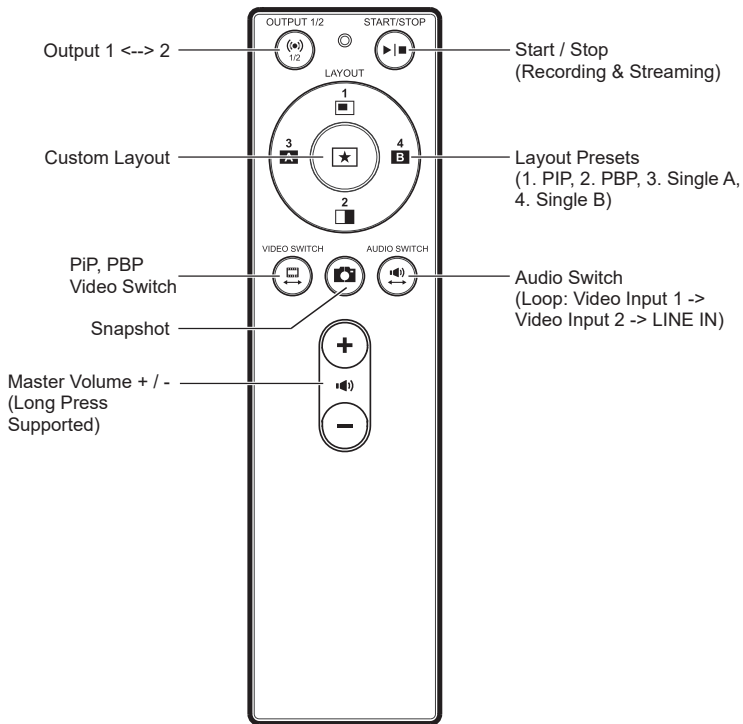
## VESA Mounting Procedures



Note: VESA bracket is not included.

## Remote Control

The remote controller gives you quick access to **SB-520** features.



## Online Resources & Support

To learn more about AVer products and download the latest user manual, please visit AVer websites below.

Download:

<https://presentation.aver.com/download-center/v20/08/113/891>

Support:

<https://www.aver.com/technical-support>

## Specifications

Product Name	SB-520
Video Interface	HDMI 1.4b x 2, 3G-SDI x 2, Audio Embedded
Audio Interface	3.5mm Line-In x 2, 3.5mm Mic-in x 1, XLR x 1
Connectivity	Ethernet x 2
Channels	2
Video Format	H.265, H.264
Max. Resolution	1080p60
Audio Format	AAC
Transport Protocol	TCP, UDP, RTMP, RTP, RTSP, RTMPS, HLS
Preview Output	HDMI 1.4b
Layout	PIP, PBP, single, up to 15 layouts
Storage	Network: NAS Local: USB 3.0, SD Card
Operating Environment	Temperature: 0–50°C / 32–122°F Humidity: 0–80% RHNC
Storage Environment	Temperature: -40–70°C / -40–158°F Humidity: 0–90% RHNC
IR	IR Receiver (for remote control) IR Blaster
Power	Locking power supply 12V/5A
Weight	1.15 kg (2.54 lbs)
Dimensions	210.5 mm (L) x 179.2 mm (W) x 42.5 mm (H) (8.29" x 7.06" x 1.67")

Note: Specifications are subject to change without prior notice. More functions are under development. Please refer to our website for the latest details.

## 繁體中文

### 盒內配件

- SB-520
- 可鎖式電源轉接器
- 操作手冊
- 遙控器
- 底部固定架
- 長型固定架
- 短型固定架 (2)
- 螺絲 (8)

### 外觀簡介

以下是 SB-520 的燈號及接孔。

#### 正面

1. 電源開關
2. 電源燈
3. 串流狀態燈 1 & 2
4. LAN 狀態燈 A & B
5. 預覽按鍵 (輸出 1 <--> 輸出 2)
6. USB 硬碟插孔
7. SD 卡插孔
8. 紅外線端口 1 & 2
9. 遙控紅外線感應器
10. 重置按鍵 (長按 5 秒)




#### 背面

11. SDI-1 輸入
12. SDI-2 輸入
13. HDMI-1 輸入
14. HDMI-2 輸入
15. HDMI 輸出
16. XLR 輸入
17. MIC 輸入
18. LINE-1 輸入
19. LINE-2 輸入
20. RS485 孔 (不支援)
21. LAN-A & LAN-B 孔
22. 12V DC 輸入

### LED 燈號

當設備開啟時，藍色 LED 燈亮起並開始閃爍。當藍色 LED 燈從閃爍變為恆亮時，表示 SB-520 已就緒。

以下為 SB-520 LED 狀態燈號表。

No.	LED	圖示	指示燈	狀態
1	藍		電源	熄燈：關機 閃爍：關機中 / 開機中 / 存儲空間已滿 恆亮：開機
2	綠		串流 -1 串流 -2	熄燈：無串流 恆亮：串流中 / 錄製中 閃爍：錯誤
3	綠		LAN-A LAN-B	熄燈：無連接 恆亮：100M / 1,000M 連接中 閃爍：100M / 1,000M 串流中

### 硬體連接

您最多可以同時將四組信號源連接到 SB-520。

推薦的連接如下：

將兩個 HDMI 和兩個 SDI 電纜連接到 SB-520。您也可以連接一個螢幕到 HDMI-OUT 以監看傳出內容。

注意：RS485 孔為保留。

### 固定架安裝

使用隨附的固定架安裝套件，您可輕鬆地將 SB-520 安裝到機架中。

注意：DIN 夾與固定架不包含在內。

注意：VESA 支架不包含在內。

### 遙控器

遙控器可讓您方便又快速地控制 SB-520 的功能。

- 輸出 1 <--> 輸出 2
- 自定編排
- PIP, PBP 視訊切換
- 快照
- 主音量 + / - (支援長按)
- 開始 / 停止 (錄製 & 串流)
- 佈局預設 (1. PIP · 2. PBP · 3. 單 A · 4. 單 B)
- 音頻開關 (循環：視訊輸入 1 -> 視訊輸入 2 -> LINE IN)

### 網路資源與技術支援

如要了解有關 AVer 產品更多信息並下載最新的用戶手冊，請到 AVer 網站。

下載：

<https://tw.presentation.aver.com/download-center/v20/08/114/893>

支援：

<https://www.aver.com/technical-support>

## 简体中文

### 盒内配件

- SB-520
- 可锁式电源转接器
- 操作手册
- 遥控器
- 底部固定架
- 长型固定架
- 短型固定架 (2 个)
- 螺丝 (8 个)

### 外观简介

以下是 SB-520 的信号灯及接口。

#### 正面

1. 电源开关
2. 电源灯
3. 串流状态灯 1&2
4. LAN 状态灯 A&B
5. 预览按键 (输出 1<--> 输出 2)
6. USB 硬盘插孔
7. SD 卡插孔
8. 红外线端口 1&2
9. 遥控红外线感应器
10. 重置按键 (长按 5 秒)




#### 背面

11. SDI-1 输入
12. SDI-2 输入
13. HDMI-1 输入
14. HDMI-2 输入
15. HDMI 输出
16. XLR 输入
17. MIC 输入
18. LINE-1 输入
19. LINE-2 输入
20. RS485 孔 (不支持)
21. LAN-A & LAN-B 孔
22. 12V DC 输入

### LED 指示灯

当设备开启时，蓝色 LED 灯亮起并开始闪烁。当蓝色 LED 灯从闪烁变为恒亮时，表示 SB-520 已就绪。

以下为 SB-520 LED 状态灯号表。

No.	LED	图示	指示灯	状态
1	蓝		电源	熄灯：关机 闪烁：关机中 / 开机中 / 存储空间已满 恒亮：开机
2	绿		串流 -1 串流 -2	熄灯：无串流 恒亮：串流中 / 录制中 闪烁：错误
3	绿		LAN-A LAN-B	熄灯：无链接 恒亮：100M/1000M 连接中 闪烁：100M/1000M 串流中

### 硬件连接

您最多可以同时将四组信号源连接到 SB-520。

推荐的连接如下：

将两个 HDMI 和两个 SDI 电缆连接到 SB-520。您也可以连接一个屏幕到 HDMI-OUT 以监看传出内容。

注意：RS485 孔为预留。

### 固定架安装

使用随附的固定架安装套件，您可轻松地将 SB-520 安装到机架中。

注意：DIN 夹与固定架不包含在内。

注意：VESA 支架不包含在内。

### 遥控器

遥控器可以让您快速又方便的控制 SB-520。

- 输出 1<--> 输出 2
- 自定义编排
- PiP/PBP 视讯切换
- 快照
- 主音量 +/- (支持长按)
- 开始 / 停止 (录制 & 串流)
- 布局预设 (1.PiP 2.PBP 3.单 A 4.单 B)
- 音频开关 (循环：视讯输入 1 -> 视讯输入 2 -> LINE IN)

### 网络资源与技术支持

如要了解有关 AVer 产品更多信息并下载最新的用户手册，请到 AVer 网站。

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