

## Specifications for S8 High-Performance Color System



**SonoScape**

THE PIONEER OF COLOR DOPPLER ULTRASOUND IN CHINA

Product Overview

## General Specification

The high performances of the SonoScape S8 stem from the advanced ultrasound Doppler imaging technologies that include full digital beam-former, wide dynamic range, multi-beam processing, etc.

The ergonomic user-friendly design enables user to customize the system according to the specific application needs, and the graphic exam icon assure you familiar with the system in few minutes.

## Advanced Technologies

- Digital Front-End
- Dual-Beam Processing
- Compound Imaging
- Micro Scan Processing
- Harmonic Imaging
- High Pulse Repetition Frequency
- Panoramic Imaging
- 4D Imaging
- Graphic Exam Icon

## Standard components

- Color Mode
- PW Mode
- CW Mode
- THI Mode
- 3D Mode
- Dicom

- Cardiac Package
- OB Package
- Urology Package
- Vascular Package
- Small Part Package
- MLA Probe
- Tee Probe
- Phased Array Probe
- 12MHZ Probe
- ECG Support
- Steer M Support
- TDI Support
- HPRF Support
- Dual Beam Support
- Panoramic Imaging
- u-SCAN Support
- Color M Support
- IMT Support

## Optional Functions

- 4D Imaging
- B Flow Support
- Dicom Wklist Support

## System Overview

### Applications

- Abdominal
- Cardiology
- Obstetrical
- Gynecological

## Specifications for S8 High-Performance Color System

- Musculoskeletal
- Vascular
- Urological
- Small Parts And Superficial
- Pediatric
- Anaesthesia

### Scanning Methods

- Electronic Convex Sector
- Electronic Linear
- Electronic Phased Array Sector

### Sweep Angle

- Curved Probe: 70 degree or more
- Phased Array Probe: 90 degree or more
- Micro-curved Probe: 193 degree or more

### Transducer Types

- Convex Array
- Micro convex Array
- Linear Array
- Phase Array

### Operating Modes

- B-Mode
- M-Mode
- TDI-Mode
- Color Flow Mode(CFM)
- Power Doppler Imaging(PDI)
- Pulse Wave Doppler(PWD)

- Continuous Wave Doppler(CWD)
- 3D/4D Imaging
- Color M Mode
- Steer M-Mode

### Display Modes

- Gray-scale imaging
- Color: Color Doppler, Power Flow and Directional Power Flow Imaging, TDI
- THI(Tissue Harmonic Image)
- Dual B, Quad Display
- B and M, display format selectable
- B and Doppler
- B+Color
- Dual B(Flow)
- Triplex mode: B, Flow, and PW/CW Doppler
- B, Flow, and Color M
- Simultaneous Refresh Display
- Variable screen size: Change the screen ratio of 2D and Doppler/M in duplex or triplex mode
- Panoramic Imaging
- Compound Imaging
- Trapezozd Imaging

### Standard Features

- Frame Rate: 510 frames/sec or more
- Display Gray Scale:256 levels
- Digital Channel Number:1024

## Specifications for S8 High-Performance Color System

- Probe Elements: Up to 256

### Media & Peripherals

- Color Desk Jet Pinter(optional)  
HP5850/6840/6848/6940/K5400dn
- B/W Video Pinter(optional)  
UP895MD
- Color Video Pinter(optional)  
Sony UP-20

### System Menu Setting

- File Manager
  - Copy、 Paste、 Delete
  - Convert to PC Format
  - Display Report Files Only
  - Display Image Files Only
  - Multiple Selection
  - Search
- Set Time/Date
- Facility Name
- Dicom
- System Information
  - Control Number
  - Software Version
- System Setting
  - General Setting
    - ◆ Language Setting
      - English
      - Simple Chinese
      - Spanish

- Russian
- French
- Italian
- ◆ Screen Saver
- ◆ Trackball Sensitive
- ◆ Clip Format
  - CIN
  - WMV
  - AVI
- ◆ Date Format
  - mm/dd/yyyy
  - yyyy/mm/dd
  - dd/mm/yyyy
- ◆ Caps Lock: on/off
- ◆ Print Size
- ◆ Still Format
  - PPM
  - JPG
  - BMP
  - TIF
- Set Printer
  - ◆ Printer Driver
  - ◆ Video Invert
  - ◆ Insert Driver
- Set Calculation Menu
  - ◆ 2D Mode
    - Angle
    - Volume
    - Volume L×W×H
    - Doppler Area

Specifications for S8 High-Performance Color System

- Vascular
- Small Part
- Obstetrical/ Gynecological
- Left Ventricle
- Urologic
- Mitral Valve Diam
- Lv Outflow Diam
- Pul.Valve Diam
- ◆ PW Mode
  - Flow Velocity
  - Acceleration
  - Time
  - Heart Rate
  - Cardiac
  - Obstetrical/ Gynecological
  - Vascular
- ◆ M Mode
  - Distance
  - Time
  - Slope
  - Heart Rate
  - left Ventricle
  - Mitral Valve
  - Aortic Valve
- Set Measurement Method
  - ◆ BPD Method
    - Hadlock
    - Jeanty
  - ◆ FL Method
    - Hadlock
- Hohler
- Jeanty
- ◆ CRL Method
  - Robinson
  - Hadlock
  - Nelson
- ◆ EFW Method
  - WEI/SAB HC,AC,FL
  - Shepard AC,BPD
  - Hadlock1 AC,FL
  - Hansman AC,FL,HC
  - Tokyo BPD,APTD,TTD,FL
  - Hadlock2 HC,AC,FL
  - Hadlock3 BPD,AC,FL
  - Hadlock4 HC,AC
  - Hadlock5 BPD,HC,AC,FL
  - Shinozuka BPD,AC,FL
  - Warsof FL,AC
- ◆ BSA setting
  - Eastern
  - Western
- ◆ Measure Method
  - Ellipse
  - Trace
- ◆ Package
  - All Package
  - Icon Driven
- ◆ Continue Dist: on/off
- ◆ Dop Auto
  - AUTO

## Specifications for S8 High-Performance Color System

- SEMI-AUTO
- ◆ Define OB table
  - Create
  - Edit
  - Delete
- Annotation Edit
  - ◆ Insert
  - ◆ Delete
  - ◆ Edit
  - ◆ Save
- Define quick key
  - ◆ GS (Gestational Sac diameter)
  - ◆ CRL (Crown Rump Length)
  - ◆ BPD (Biparietal Diameter)
  - ◆ HC (Head Circumference)
  - ◆ AC (Abdominal Circumference)
  - ◆ FL (Femur Length)
  - ◆ NT (Nuchal Translucency)
- Load Default
  - ◆ Load
  - ◆ Create
  - ◆ Retrieve

### **Post-Processing**

- RAW data digital processing
- Read Zoom up to 10x

#### **B Mode**

- GSC
- Chroma
- LT→RT

- Play/Stop
- Loop Speed
- Start
- End
- Frame By Frame

#### **Color Flow Mode**

- C Map / Direct. D
- B Reject
- Flow Invert
- Loop Speed
- Start
- End
- Play/Stop
- Frame By Frame

#### **PW/CW -Mode**

- Chroma
- Video Invert
- Display Format
- Start
- End
- Frame By Frame
- Baseline

#### **M-Mode**

- Chroma
- Video Invert
- Display Format
- Start
- End
- Frame By Frame

## Scanning Parameters

### B-Mode

- Focus: Up to 12, focus span adjustable
- zoom: Max.  $\geq 10$ , Show zoom X value
- TGC(Time Gain Control) 8 slide controls
- Tissue acoustic : Adjustable according to tissue type ( 1400-1700,10 steps each )
- Dynamic range-compression selections: 20-280 (probe dependent)
- Gain:0-255 adjustable
- Depth: 32.9 cm Max (probe dependent)
- GSC(gray scale curve) 7 steps selectable
- Persist (Frame correlation): 0-95 (probe dependent)
- Chroma: Max.13 selectable
- SEC.WIDTH: B Image width adjustable
- SEC.POS: B image lateral position adjustable
- Line Density: 3 selections (high/med/low)
- Adapt . IM Fusion : 15 kinds
- Biopsy Guide: on/off  
Biopsy Offset adjustable  
Biopsy Angle adjustable
- Left and Right Inversion
- Up and Down Inversion
- Trapezoid Image: ON/OFF ( liner array probe )
- u-Scan: adjustable
- Compound Image: ON/OFF
- Frequency : 5 steps

- Power: 1 to 100 changeable, 1 steps each
- B Steer Mode

### Color Flow Mode/TDI Mode

- Triple beam function
- Frame Rate: max 25 frames/sec
- Color Area Size and Position: adjustable
- Persistence: 0-80(probe dependent )
- Frequency Range: 5 steps
- Pulse Repetition Frequency: 0.5-12KHZ
- Steer Angle: 5 kinds (linear probe )  
Max.  $\pm 20$  degrees,  
0,  $\pm 16$ ,  $\pm 20$  changeable
- Baseline:  $\pm 15$  steps
- Filter: Up to 750 Hz (exam dependent)
- B and B(Flow) Simultaneous Real-time Display
- Color Map: 6 kinds
- Imaging Area and Position (adjustable)
- B Reject: 0-255
- Flow Invert: ON/OFF
- Left /right: ON/OFF
- Line Density: 2 kinds (low and high)
- Color Distribution Display in Freeze Mode.

### M-Mode

- sweep speed: 2、4、6、8sec/plane
- Chroma: 5 kinds selectable
- Video Invert: ON/OFF
- Frequency: 5 steps
- M Process: Switch average or peak

## Specifications for S8 High-Performance Color System

detection processing for the M vector display.

- Steer M: 3 lines, Display Frame Rate
- Display format: H1/2、 H1/4、 V1/3、 V1/2、 V2/3、 O1/4

### **Spectral Doppler**

- Doppler methods
  - ◆ PW (pulsed wave) Doppler
  - ◆ CW Doppler
- One Button Optimization function
- Doppler Envelope function in Real time
- High Pulse Repetition Frequency  
PW: 1-20KHz (exam dependent)  
CW: 1-24KHz
- Max velocity range:  
0.0004-40.9 m/s ( pw )  
0.0013-49.1 m/s ( cw )
- BaseLine Shift: up to 17 steps
- Angle correction: 0-80 degrees
- Dynamic Range: 10 steps selectable
- Steer Angle: 5 kinds (linear probe )  
Max.  $\pm 20$  degrees,  
0,  $\pm 16$ ,  $\pm 20$  changeable
- Spectrum Inversion: Possible
- Angle Correction: on /off
- Sample Volume Size for PW Doppler:  
1 -20 mm, changeable in 1 mm step
- Sweep Speed: 2、 4、 6、 8sec/plane
- Chroma: Max.5 Kinds adjustable

- Video Invert: on/off
- 2D Refresh: on/off
- Display format: H1/2、 H1/4、 V1/3、 V1/2、 V2/3、 O1/4

### **3D/4D Mode**

- 3 arbitrary sections simultaneously
- Clear Roi
- Restore Roi
- Crop: on/off
- Roi Mode: on/off
- Hide Roi: on/off
- Render Mode: Vol、 MaxIP、 X-ray
- Auto Rotate (45、 90、 180、 270、 360 degrees adjustable )
- Trace Cut: on/off
- Undo Cut
- Clip Plane: on/off
- Opacity Offset: 0-255 adjustable
- Opacity Slope: 0-255 adjustable
- Multi-slice:Ref A、 Ref B、 Ref B
- Slice Spacing: 0.5-2.0 adjustable
- Scan Method: Lin、 Sec
- Z Scale: adjustable
- Z Angle: 10-170° adjustable
- Rotate X
- Rotate Y
- Rotate Z
- Zoom
- Move L-R



## Specifications for S8 High-Performance Color System

- Move U-D
- Display mode
  - ◆ Dual Display
  - ◆ Quad Display
  - ◆ Full Display 3D
  - ◆ Full Display 4D
- Cine Review: on/off
- Sweep Angle:20-75 degrees
- Rescan: on/off
- Image Quality: high、 med、 low
- 4D Gain: adjustable
- Frame Rate: 5 frames/sec or more
- Print
- full scan of the Region of interest
- Save images

### **Integrated Data Management System**

- Hard Disk memory capacity: 160 G
- Storage media:USB Drive

### **Storage of Images and Cine**

- Cine loop: 10000 frames or more
- Cine loop time:60 seconds or more
- Real time single/dual static and dynamic Image storage
- Archived image can be viewed on PC
- Cropboard function: in Freeze Mode
- Cine play back mode for Dop.
- Doppler Cine Sound Play Back Function

### **DICOM Network Communication**

- Conformity to DICOM Standard: Service class user of storage, (for details, please refer to the DICOM conformance statement issued by SonoScape.)
- Storage: Directly transmits image with patient information to a DICOM file server

### **Physiological Signal Display**

- ECG, Pulse wave
- ECG Lead-three lead system
- ECG Gain: adjustable
- ECG Position: adjustable
- ECG Invert:on/off
- R-Trigger:on/off
  - ◆ Trigger Delay: adjustable
  - ◆ Frame Count: adjustable

### **User Interface**

#### **Operator Keyboard**

- Alphanumeric Keyboard
- Shortcuts Keyboard
- Integrated Recording Keys for Remote Control of Peripheral Devices and DICOM Devices
- 8 TGC Pods
- Integrated function key

#### **Character and icon**

- Character Input Area: ID, Name, DOB,Sex, Weight, Height, LMP etc

## Specifications for S8 High-Performance Color System

- Body Mark:52 kinds

### Electrical Power

- Voltage:100/220 Volts AC
- Current: 3.15 Amps
- Frequency:50/60Hz

### Display Screen

- 15-inch High-Resolution Color LCD monitor
- Contrast and bright: 0-100 changeable

### Environmental Requirements

#### In operation

- Temperature:+10 to +40 degrees C
- Relative Humidity: 30% to 75% (non condensing)
- Atmospheric pressure: 700 to 1060hPa

#### In Storage/Transportation

- Temperature: -20 to +55 degrees C
- Relative humidity: 20%- 90% (non condensing)
- Atmospheric Pressure: 700 to 1060hPa

### Probe Connectors

- Active Connectors: 2 connectors

### Optional Probe

- Phased Array Probe ( Cardiology )  
→2P1 (1.9-6 MHZ)

→5P1 (4.2-11 MHZ)

- Linear Probe ( Vascular, Small Part )

→L741 (5-16 MHZ)

→L742 (4.5-15 MHZ)

→L743 (5-16 MHZ)

→L752 (4.5-15 MHZ)

→10L1 (4.5-15 MHZ)

→L541 (3.7-8 MHZ)

- Curved Probe ( Abdomen, OB/GYN )

→C344 (2-7 MHZ)

→C362 (2-7 MHZ)

→C542 (3.7-11 MHZ)

- Micro-curved Probe ( Transvaginal )

→6V1 (3.9-15 MHZ)

→6V3 (3.9-15 MHZ)

- Micro-curved Probe ( Cardiology )

→C311 (2-6 MHZ)

→C611 (4-13 MHZ)

- 4D Probe

→VC6-2 (2-7 MHZ)

- Linear,Surgical ( Surgery )

→10I2 (4.5-15 MHZ)

### Measurements/Calculations

- **General Measurements/Calculations**

#### On B-Mode

→Distance ( real time、 freeze )

→Area and circumference (Trace, Ellipse)  
( real time、 freeze )

→Volume (L×W×H,Area×L)

## Specifications for S8 High-Performance Color System

→Angle

### **On M-Mode**

→Velocity

→Distance

→Time

→Heart rate

→Slope

### **On Spectral Doppler**

→Time Interval

→Velocity

→Velocity Ratio

→Velocity Time Integral

→Heart Rate

→Velocity

→Acceleration

→Resistance Index

→Pulsatility Index

→Pressure half time

→PV(peak Velocity)

→Mean Flow Velocity

→End diastolic Velocity

→PG((Pressure gradient)

→Auto Trace

→Manual trace

### **On Color Mode**

→Color Flow Velocity

→Doppler Area

→proximal Isovelocity surface area

### **On 4D-Mode**

→Distance

→Area and circumference

→Volume

### **• Obstetrical/ Gynecological**

#### **Measurements & Calculations**

##### **B Mode**

→GS (Gestational Sac diameter)

→CRL (Crown Rump Length)

→BPD (Biparietal Diameter)

→HC (Head Circumference)

→AC (Abdominal Circumference)

→FL (Femur Length)

→CER (Cerebellum)

→OFD (Occipitofrontal Diameter)

→Fibula (Fibula Length)

→Foot (Foot Length)

→AA (Abdominal Area)

→APAD (Anteroposterior Abdominal  
Diameter)

→HA (Head Area)

→Humerus (Humerus Length)

→Kidney (Kidney Length)

→APTD (Anteroposterior Trunk Diameter)

→OOD (Outer Orbital Diameter)

→Radius (Radius Length)

→TAD (Transverse Abdominal Diameter)

→TC (Thoracic Circumference)

→THD (Thoracic Diameter)

→Tibia (Tibia Length)

→TTD (Transverse Trunk Diameter)

## Specifications for S8 High-Performance Color System

- Ulna (Ulna Length)
- Umb VD (Umbilical Vein Diameter)
- NT (Nuchal Translucency)
- LV (Lateral Ventricle)
- UT L (Uterus Length)
- UT H (Uterus Height)
- UT W (Uterus Width)
- Cx (Cervix)
- En-T (Endometriosis)
- Rt OV L (Right Ovary Length)
- Rt OV H (Right Ovary Height)
- Rt OV W (Right Ovary Width)
- Lt OV L (Left Ovary Length)
- Lt OV H (Left Ovary Height)
- Lt OV W (Left Ovary Width)
- AFI (Amniotic Fluid Index)
- HIP ( Hip Joint )
- Dominant Follicle
- EFA(Estimated Fetal Age)
- EDD(Estimated Date of Delivery)
- EFW ( Estimated Fetal Weight)
- AUA(Average Ultrasound Age)
- Fetal HR(Fetal Heart Rate)
- PW Mode**
- Umb A (Umbilical Artery)
- MCA (Middle Cerebral Artery)
- Rt Uterin A (Right Uterine Artery)
- Lt Uterin A (Left Uterine Artery)
- Fetal AO (Fetal Aorta)

### • Cardiac measurements

#### **B-Mode**

- Left Ventricular Fuction Measurement
  - ◆ Single Plane Ellipse Method
    - LVALd: Left Ventricular Long-axis  
Area at end Diastole
    - LVLd: Left Ventricular Long-axis  
Length at end Diastole
    - LVALs: Left Ventricular Long-axis  
Area at end Systole
    - LVLs: Left Ventricular Long-axis  
Length at end Systole
  - ◆ Biplane Ellipse Method
    - LVALd: Left Ventricular Long-axis  
Area at end Diastole
    - LVALs: Left Ventricular Long-axis  
Area at end Systole
    - LVAMd: Left ventricular short-axis  
area at end diastole
    - LVIDd: Left ventricular short-axis  
diameter at end diastole
    - LVAMs: Left ventricular short-axis  
area at end systole
    - LVIDs: Left ventricular short-axis  
diameter at end systole
  - ◆ Bullet
    - LVAMd: Left ventricular short-axis  
area at end diastole
    - LVAMs: Left ventricular short-axis  
area at end systole

Specifications for S8 High-Performance Color System

- LVLd: Left ventricular long-axis length at end diastole
- LVLs: Left ventricular long-axis length at end systole
- ◆ Simpson Method
  - LVAMd: Left ventricular short-axis area at end diastole
  - LVAMs: Left ventricular short-axis area at end systole
  - LVAPd: Left ventricular short-axis area at the level of the papillary muscle at end diastole
  - LVAPs: Left ventricular short-axis area at the level of the papillary muscle at end systole
  - LVLd: Left ventricular long-axis length at end diastole
  - LVLs: Left ventricular long-axis length at end systole
- ◆ Cube
  - IVSTd: Interventricular septal thickness at end diastole
  - LVIDd: Left ventricular short-axis diameter at end diastole
  - LVPWd: Left ventricular posterior wall thickness at end diastole
  - IVLTs: Interventricular septal thickness at end systole
- LVIDs: Left ventricular short-axis diameter at end systole
- LVPWs: Left ventricular posterior wall thickness at end systole
- ◆ Teichholz
  - LVLDd: Left ventricular short-axis diameter at end diastole
  - LVIDs: Left ventricular short-axis diameter at end systole
- ◆ Gibson
  - LVLDd: Left ventricular short-axis diameter at end diastole
  - LVIDs: Left ventricular short-axis diameter at end systole
- ◆ Biplane Disk
  - Diastole 2CH
  - Diastole 4CH
  - Systole 2CH
  - Systole 4CH
- Mitral Valve Diam
- Lv Outflow Diam
- Pul.Valve Diam
- M-Mode**
- Left Ventricular Fuction Measurement
  - ◆ Cube
    - LVIDd: Left ventricular short-axis diameter at end diastole
    - LVIDs: Left ventricular short-axis diameter at end systole

Specifications for S8 High-Performance Color System

<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>diameter at end systole</li> </ul> </li> <li> <ul style="list-style-type: none"> <li>➤ LVPWd: Left ventricular posterior wall thickness at end diastole</li> </ul> </li> <li> <ul style="list-style-type: none"> <li>➤ LVPWs: Left ventricular posterior wall thickness at end systole</li> </ul> </li> <li>◆ Gibson           <ul style="list-style-type: none"> <li>➤ LVLDd: Left ventricular short-axis diameter at end diastole</li> <li>➤ LVIDs: Left ventricular short-axis diameter at end systole</li> </ul> </li> <li>◆ Teichholz           <ul style="list-style-type: none"> <li>➤ LVLDd: Left ventricular short-axis diameter at end diastole</li> <li>➤ LVIDs: Left ventricular short-axis diameter at end systole</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>→INT IL (Internal iliac)</li> <li>→EXT IL (External iliac)</li> <li>→ILIAC (Common iliac)</li> <li>→CFA (Common Femoral Artery)</li> <li>→PROFUN (Profunda)</li> <li>→LT CIR (Lateral Circumflex)</li> <li>→SFA(Superficial Femoral Artery)</li> <li>→POP (Popliteal Artery)</li> <li>→PTA (Posterior Tibial Artery)</li> <li>→PERON (Personal Artery)</li> <li>→ATA (Anterior Tibial Artery)</li> <li>→DR PED (Dorsalis Pedis)</li> <li>→%A REDUC (Area reduction percent)</li> <li>→%D REDUC (Diameter reduction percent)</li> <li>→PI (Pulsatility Index)</li> <li>→RI (Resistive Index)</li> <li>→S/D (Systolic/Diastolic Ratio)</li> <li>→PG((Pressure gradient)</li> <li>→PV(peak Velocity)</li> <li>→IMT</li> </ul>
<p>→Mitral Valve Measurement</p> <p>→Aortic Valve Measurement</p> <p><b><u>PW-Mode</u></b></p> <p>→Mitral Valve Measurement</p> <p>→Aortic Valve Measurement</p> <p>→Tricuspid Valve Measurement</p> <p>→Pulmonary Valve Measurement</p> <p>→TEI Index Doppler Measurement</p> <p><b>• Vascular Measurements Calculations</b></p> <p>→ICA (Internal Carotid Artery)</p> <p>→ECA (External Carotid Artery)</p> <p>→CCA (Common Carotid Artery)</p>	<p><b>• Urological Measurements Calculations</b></p> <p>→Left Kidney</p> <p>→Right Kidney</p> <p>→Left-Renal Cortex</p> <p>→Right-Renal Cortex</p> <p>→Left-Adrenal Gland</p> <p>→Right- Adrenal Gland</p> <p>→Bladder Volume</p>

## Specifications for S8 High-Performance Color System

→Residual Urine

- ◆ Urine Area
- ◆ Urine Height

→Whole Prostate Volume

→Trans Zone Volume

→Left-Seminal Vesicles

→Right- Seminal Vesicles

→Left-Testicle

→Right- Testicle

### • **Small Part Measurements**

→L-Thyroid

→R-Thyroid

→Thyroid Isthmus

→L-Superior Parathyroid

→L-Inferior Parathyroid

→R-Superior Parathyroid

→R-Inferior Parathyroid

### • **Report functions**

→Obstetrical /Gynecological report

( revisability )

- ◆ Obstetrical Curve
- ◆ Fetal Anatomy
- ◆ Biophysical Profile
- ◆ Fetal Compare
- ◆ Picture
- ◆ Comment

→Cardiac function report ( revisability )

→Vascular report

→Urological report

→Small Part report

→IMT report

## Specifications for S8 High-Performance Color System

- The specifications are subject to change without notice.
- Not all the products are available in all countries.
- Please contact your local Sonoscape representative.

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