

Features and Specifications

RS-D7R SYSTEM CONTROL CD RDS TUNER

- Tuner**
- RDS (PI, PS, AF, TP/TA), PTY (Search and Alarm), News Interrupt feature and Radio Text
 - High-speed PLL ARC 5 synthesiser tuner with BSA (Best TP Station Auto Search), BSM (Best Stations Memory) and PNS (Pulse Noise Suppressor)
 - 24 station presets
- CD Player**
- High-quality CD mechanism with copper-plated chassis
 - Hi-bit conversion
 - Digital Direct
 - Fast forward/reverse
 - Track Search/Scan/Repeat
 - Track/Manual search
 - Random Play
- Last Position Memory
 - Disc Title Memory
 - CD Text
 - CD-R/CD-RW playback with Skip Play
- Audio**
- IP-Bus input/output
 - Optical input/output
- General**
- Full audio control of RS-A9 Digital Integrated Amplifier
 - Multi-CD Control with Disc Title Memory, List Search and CD Text
 - Source TV Control
 - DAB Tuner Control
 - Source DVD Control
 - External Unit Control via IP-Bus (2 units)
- AUX-In (with optional CD-RB20)
 - Slide-type Remote Control
 - Digital Clock
 - OEL white-colour display illumination
 - Display Off mode
 - Rotary volume
 - High-quality auto-flap mechanism (motor driven)
 - Removable front panel with safety warning beep
 - Cellular telephone auto muting
 - Flexible angle installation (0 – 60°)
 - OFC (Oxygen-Free Copper) power cables
 - Copper-plated chassis
 - Aluminium finished front panel

DEQ-P90 DIGITAL PREAMP/EQUALISER

- 31-band L/R independent graphic equaliser (1/3 oct) with level control (0.5 step, ±12 dB)
 - 4-way independent L/R crossover network (High, Mid, Low, Subwoofer)
 - Crossover frequency: 20 Hz – 20 kHz (1/3 oct)
 - High: LPF: 8 – 20 kHz; HPF: 1.6 – 20 kHz
 - Mid: LPF: 2 – 20 kHz; HPF: 200 Hz – 10 kHz
 - Low: LPF: 250 Hz – 10 kHz; HPF: 25 – 250 Hz
 - Subwoofer: LPF: 25 – 250 Hz; HPF: 20 – 100 Hz
 - Slope: 0°, -6, -12, -18, -24, -30, -36 dB/oct
 - Phase: Normal/Reverse
 - Level: +10 – -24 dB
 - Mute
 - Time Alignment for clear sound focus
 - Listening Position selector (FR/FL/F/OFF)
 - 24-bit Burr-Brown D/A converters
 - High-performance 8 times oversampling digital filter
 - Optical digital input for connection with DEX-P90RS
 - High Voltage output
 - Gold-plated 8-channel RCA output (High/Mid/Low/Subwoofer)
 - Parametric Bass/Treble
 - Electronic Volume
 - Gold-plated power screw terminals
 - Copper-plated chassis
 - Installation kit
- * Not available for HPF of high mode.

RS-A9 DIGITAL INTEGRATED AMPLIFIER

- DSP/Network/Equaliser features**
(See amplifier charts at right and next page for RS-A9 amplifier features and specifications)
- 3 ultra-high-performance 32-bit floating-point SHARC Digital Signal Processors (DSP)
 - FIR Filter
 - Linear phase and minimum delay phase
 - L/R independent power supply and amplifier circuit
 - 31-band L/R independent graphic equaliser (1/3 oct) with level control (0.5 step, ±12 dB)
 - 3-band L/R independent parametric equaliser (1/3 oct) with level control (0.5 step, ±12 dB)
 - 4-way independent L/R crossover network (High, Mid, Low, Subwoofer)
 - Crossover frequency: 20 Hz – 20 kHz (1/3 oct)
 - High: LPF: 8 – 20 kHz; HPF: 1.6 – 20 kHz
- Mid: LPF: 2 – 20 kHz; HPF: 160 Hz – 10 kHz
Low: LPF: 250 Hz – 10 kHz; HPF: 25 – 250 Hz
Subwoofer: LPF: 40 – 250 Hz; HPF: 20 – 100 Hz
- Slope: 0°, -6, -12, -18, -24, -36, -48, -72 dB/oct
 - Phase: Normal/Reverse
 - Level: High/Mid/Low: 0 – -24 dB (0.5 dB step); Subwoofer: +10 – -24 dB (0.5 dB step)
 - Mute
 - Time Alignment for clear sound focus
 - Listening Position selector (FR/FL/F/OFF)
 - Time/distance: 0 – 192.5 cm (0.77 cm step)
 - Level: 0 – -30 dB (0.5 dB step)
 - 24-bit multi-bit Burr-Brown D/A converters
 - High-performance 8 times oversampling digital filter
 - Ultra precise sound master clock circuit
- Up sampling (44.1 kHz → 96 kHz) by SRC (Sampling Rate Converter)
 - Optical input for digital connection with RS-D7R System Control CD RDS Tuner
 - 3 Optical outputs (Mid/Low/Subwoofer) for digital connection with RS-A7 Digital Power Amplifiers
 - Parametric Bass/Treble
 - Bass: 63, 100, 160, 250 Hz (±12 dB)
 - Treble: 4, 6.3, 10, 12.5 kHz (±12 dB)
 - Electronic (DAC) Volume
 - Non-magnetic power terminal and speaker terminal
 - Copper-plated chassis
- * Not available for HPF of high mode.

AMPLIFIERS FEATURES	RS-A9	RS-A7	PRS-A700	PRS-A500
Circuit type	Current Feedback/ Class AB	Current Feedback/ Class AB	Current Feedback/ Class AB	Current Feedback/ Class AB
Max. output power	4 x 100 W 2 x 300 W	4 x 100 W 2 x 300 W	4 x 100 W 2 x 300 W	2 x 200 W 1 x 600 W
LPF/HPF Network [-12 dB/oct]	Integrated DSP		40 – 120 Hz	40 – 120 Hz
Input level/gain control (L/R INDEPENDENT)			•	•
PWM (L/R INDEPENDENT) regulated MOSFET power supply			•	•
High voltage input capability (200 mV – 6.5 V)			•	•
Load impedance capability	• [2 – 8 Ω]	• [2 – 8 Ω]	• [2 – 8 Ω]	• [2 – 8 Ω]
24-bit multi-bit Burr-Brown D/A converter	•	•		
8x oversampling digital filter	• [96 kHz input]	• [96 kHz input]		
Optical digital input/output	1/3	2/-		
IP-Bus input/output	1/1	1/1		
Analogue SP	4 ch [HIGH, MID/LOW]/ 2 ch Bridge [HIGH]	4 ch [MID/LOW/SW] 2 ch Bridge		
DAC volume	• [60 step]	• [60 step]		
TA Volume	•	•		
Gold-plated RCA input			•	•
Gold-plated screw-type speaker terminals	• non-magnetic type	• non-magnetic type	•	•
Large gold-plated power/ground terminals (screw type)	• non-magnetic type	• non-magnetic type	•	•
High-performance balanced isolator circuit			•	•
MOSFET output section			•	•
Sampling frequency	44.1 kHz	44.1 kHz		
Mode selector	Address: Master Only Channel Select (H-H/H-M/H/L)	Address: 1 – 4 Mode: 3 position (MID/LOW/SW)		
Power indicator	•	•	•	•
Installation kit	•	•		

DEX-P90RS COMPONENT CD RDS TUNER

- Tuner**
- RDS (PI, PS, AF, TP/TA), PTY (Search and Alarm), News Interrupt feature and Radio Text
 - High-speed PLL ARC 5 synthesiser tuner with BSA (Best TP Station Auto Search), BSM (Best Stations Memory) and PNS (Pulse Noise Suppressor)
 - 24 station presets
- CD Player**
- 24-bit D/A converter with 8 times oversampling digital filter
 - High-quality CD mechanism
 - Hi-bit conversion
 - Fast forward/reverse
 - Track Search/Scan/Repeat
 - Track/Manual search
 - Random Play
 - Last Position Memory
- Disc Title Memory
 - CD Text
 - CD-R/CD-RW playback with Skip Play
- Audio**
- Separate Bass/Treble
 - Source Level Adjuster
 - Fader
 - 3 Gold-plated RCA pre-outs (Front + Rear + Non Fading)
 - High Voltage output
 - IP-Bus input/output
 - Optical digital input/output
- General**
- Full audio control of DEQ-P90 Digital Preamp/Equaliser
 - Multi-CD Control with Disc Title Memory and CD Text
- Source TV Control
 - DAB Tuner Control
 - Source DVD Control
 - External Unit Control via IP-Bus (2 units)
 - AUX-In (with optional CD-RB20)
 - Slide-type Remote Control
 - Digital Clock
 - OEL white display illumination
 - Display Off mode
 - Auto-flap mechanism
 - Removable front panel with safety warning beep
 - Cellular telephone auto muting
 - Flexible angle installation (0 – 60°)
 - Copper-plated chassis
 - Aluminium finished front panel

AMPLIFIERS SPECIFICATIONS	RS-A9	RS-A7	PRS-A700	PRS-A500
DIN output power (DIN 45324, +B = 14.4 V)			4 x 70 W or 2 x 210 W (4 Ω)	2 x 140 W or 1 x 500 W (4 Ω)
Continuous output power (RMS) watts 14.4 V [20 Hz – 20 kHz/4 Ω] [20 Hz – 20 kHz/2 Ω] (Bridged 4 Ω)	4 x 50 W (0.02 %) 4 x 75 W (0.02 %) 2 x 150 W	4 x 50 W (0.02 %) 4 x 75 W (0.02 %) 2 x 150 W	4 x 50 W (0.08 %) 4 x 75 W (0.8 %) 2 x 150 W	2 x 100 W (0.08 %) 2 x 150 W (0.8 %) 1 x 300 W
Frequency Response (Hz) (+0 dB, -1 dB)	10 – 100,000	10 – 100,000	10 – 80,000	10 – 80,000
Distortion (%)	< 0.002 (1 kHz/4 Ω)	< 0.002 (1 kHz/4 Ω)	0.003 (1 kHz/4 Ω)	0.003 (1 kHz/4 Ω)
S/N Ratio (dB)	105	105	> 108	> 108
Separation (100 Hz – 10 kHz) (dB)	> 80	> 80	> 70	> 70
Input Level Control			200 mV – 6.5 V	200 mV – 6.5 V
Max. Current consumption (A/4 Ω)	31.0	31.0	28.0	25.0
Chassis Size (W x H x D mm)	330 x 71 x 585	330 x 71 x 585	300 x 63 x 330	300 x 63 x 330
Unit Weight (kg)	13.0	13.0	5.8	5.8

TS-T01RS 3.5 cm SUPER WIDE-RANGE TWEETER

- Ø35 mm ion-plated titanium dual arc-ring diaphragm*
- Large neodymium magnet
- Heat-resistant aluminium ribbon voice coil
- Brass equaliser
- Spherical zinc die-cast frame
- Resonance-resistant structure tungsten holder*
- Gold-plated binding post-screw terminals
- Maximum input power: 120 W
- Nominal input power: 50 W
- 1,200 – 48,000 Hz, 95 dB (1 W/1 m)
- Impedance: 6 Ω
- Unit weight: 0.6 kg
- Dimensions: Ø68 x 64 (D) mm
- Cutout hole: Ø72 mm (with aluminium fitting bracket)
- Mounting depth: 46 mm (with aluminium fitting bracket)
- Aluminium fitting brackets included

TS-S01RS 7.7 cm MIDRANGE

- Pulp-based composite cone with reinforced ribs
 - DLC (Diamond Like Carbon) coated titanium centre cap
 - Corrugated design cloth surround with damping material
 - Large neodymium magnet
 - Heat-resistant copper ribbon voice coil
 - Full-basket structure 5-spoke zinc die-cast frame
 - Resonance-resistant structure tungsten damper holder with 5 points support*
 - Zinc die-cast back chamber
 - Gold-plated binding post-screw terminals
 - Maximum input power: 50 W¹ / 60 W² (f_c = 800 Hz, -12 dB)
 - Nominal input power: 15 W
 - 70 – 24,000 Hz¹ / 160 – 24,000 Hz², 86 dB (1 W/1 m)
 - Impedance: 4 Ω
 - Unit weight: 0.5 kg
 - Dimensions: Ø90 x 42 (D) mm¹ / Ø90 x 67 (D) mm²
 - Cutout hole: Ø72.5 mm¹ / Ø77 mm²
 - Mounting depth: 37.5 mm¹ / 60 mm²
- ¹Unit alone
²With back chamber

TS-M01RS 17 cm MID-BASS DRIVER

- Pulp-based composite cone with reinforced ribs
- Corrugated design Conex surround with new damping material
- Large neodymium magnet
- Heat-resistant copper ribbon voice coil
- Full-basket structure 5-spoke zinc die-cast frame
- Resonance-resistant structure tungsten damper holder with 5 points support*
- Gold-plated binding post-screw terminals
- Maximum input power: 120 W
- Nominal input power: 50 W
- 35 – 11,000 Hz, 89 dB (1 W/1 m)
- Impedance: 4 Ω
- Unit weight: 1.6 kg
- Dimensions: Ø174 x 75 (D) mm
- Cutout hole: Ø151 mm
- Mounting depth: 69 mm

* Patent pending

TS-W01RS 25 cm SUBWOOFER

- Centre cap integrated pulp-based composite cone
- Tapered thickness butyl rubber surround
- 12 large neodymium magnets
- Ø140 mm large-sized heat-resistant voice coil
- Aluminium die-cast frame
- Gold-plated binding post-screw terminals
- Shallow design
- Recommended enclosure volumes: 14 – 28 Litre
- Maximum input power: 300 W
- Nominal input power: 150 W
- 20 – 3,000 Hz, 86 dB (1 W/1 m)
- Impedance: 4 Ω
- Unit weight: 6.6 kg
- Dimensions: Ø276 x 94 (D) mm
- Cutout hole: Ø238 mm
- Mounting depth: 75 mm

UD-N01RS 2-WAY PASSIVE CROSSOVER NETWORK

- High-quality condenser
- Large hollow coil
- 70 µm thick copper film substrate
- High-rigid tungsten-blend case material
- Crossover Frequency: 5,000 Hz
- Low Pass Filter (LPF): -12 dB/oct
- High Pass Filter (HPF): -12 dB/oct
- Load impedance
- Mid-Bass (TS-M01RS): 4 Ω
- Tweeter (TS-T01RS): 6 Ω
- Tweeter attenuation: 0 dB/-3 dB
- Unit weight: 0.8 kg
- Dimensions (W x H x D): 182 x 43 x 106 mm

Each RS speaker is individually handcrafted by skilled speaker professionals, so it is necessary to measure each speaker's performance one by one. Therefore, you will find the exact parameters, specific to each individual speaker, enclosed in the speaker package. RS speakers are created with the highest quality standards and make it possible to achieve true sound perfection.

TS-T3PRS 3 cm FLUSH MOUNT SOFT DOME TWEETER

- Ø30 mm polyester fibre diaphragm
- Large neodymium magnet
- Aluminium die-cast flange
- Aluminium die-cast back chamber
- Removable metal mesh protector
- Maximum input power: 200 W
- Nominal input power: 60 W
- 1,000 – 30,000 Hz, 92 dB (1 W/1 m)
- Recommended crossover frequency: 3,000 Hz
- Impedance: 8 Ω
- Unit weight: 0.3 kg
- Dimensions: Ø87 x 45 (D) mm
- Cutout hole: Ø62 mm
- Mounting depth: 30 mm

TS-M7PRS 17 cm MID-BASS DRIVER

- KEVLAR® brand fibre composite cone
- Symmetrically balanced butyl rubber surround
- Aluminium die-cast frame
- Gold-plated binding post-screw terminals
- Ready for small enclosure application (e.g. kick panel) Recommended enclosure volume: 5 Litres
- Maximum input power: 200 W
- Nominal input power: 60 W
- 28 – 10,000 Hz, 91 dB (1 W/1 m)
- Impedance: 4 Ω
- Unit weight: 1.5 kg
- Dimensions: Ø170 x 76 (D) mm
- Cutout hole: Ø143 mm
- Mounting depth: 67 mm

TS-W12PRS 30 cm DUAL VOICE COIL C-TYPE SUBWOOFER

- KEVLAR® brand fibre composite cone
- Dual-layer rolled urethane surround
- Dual 4 Ω voice coil design (2 or 8 Ω)
- 2 Ω rated (parallel wired)
- 8 Ω rated (series wired)
- VCCS (Voice Coil Cooling System)
- 4-spoke aluminium die-cast frame
- Gold-plated binding post-screw terminals
- Recommended enclosure volumes: 28 Litre ±10 %
- Maximum input power: 1200 W
- Nominal input power: 300 W
- 15 – 2,000 Hz, 92 dB (1 W/1 m)
- Unit weight: 11.9 kg
- Dimensions: Ø322 x 152 (D) mm
- Cutout hole: Ø278 mm
- Mounting depth: 133 mm

UD-N2PRS 2-WAY PASSIVE CROSSOVER NETWORK

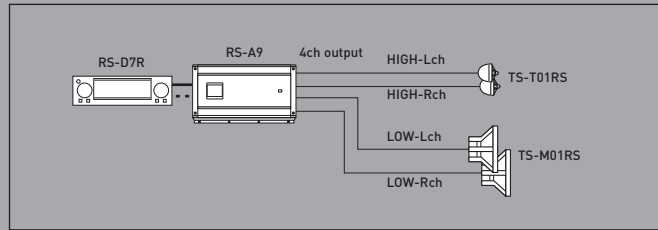
- EMI (Electromagnetic Interference) shielding chassis
- Selected quality devices
- Crossover Frequency: 3,000 Hz
- Low Pass Filter (LPF): -12 dB/oct
- High Pass Filter (HPF): -12 dB/oct
- Load impedance
- Midrange (TS-M7PRS): 4 Ω
- Tweeter (TS-T3PRS): 8 Ω
- Tweeter attenuation: 0 dB/-3 dB
- Nominal input power: 60 W
- Unit weight: 0.4 kg
- Dimensions (W x H x D): 142 x 33 x 95 mm

Disclaimer: Features and specifications of the products described or illustrated in this catalogue are correct at the time of printing but could change as production changes might occur. This catalogue may contain typographical errors and the colours of the depicted products may deviate slightly from reality. Consult your Pioneer dealer to ensure that actual features and specifications match your requirements. This catalogue may contain references to products that may or will not be available in your country.

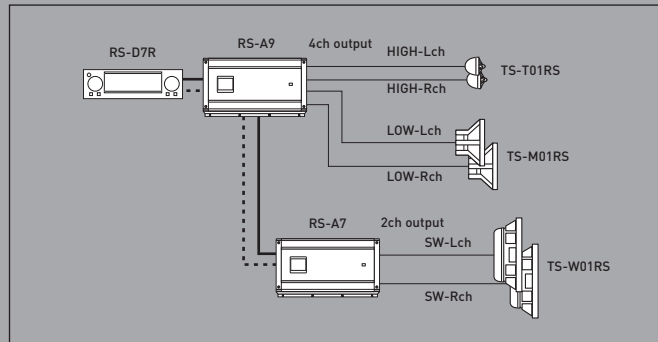
Recommended System Set-ups

You can design various systems with the ODR components, high-end RS speakers and/or PRS units, from a simple 2-way system to a full-fledged 4-way system. The ODR Full Balanced System (RS-A9 and three RS-A7's) is the perfect balanced system from the digital output in the circuit of the amplifier, delivering the utmost high-quality sound.

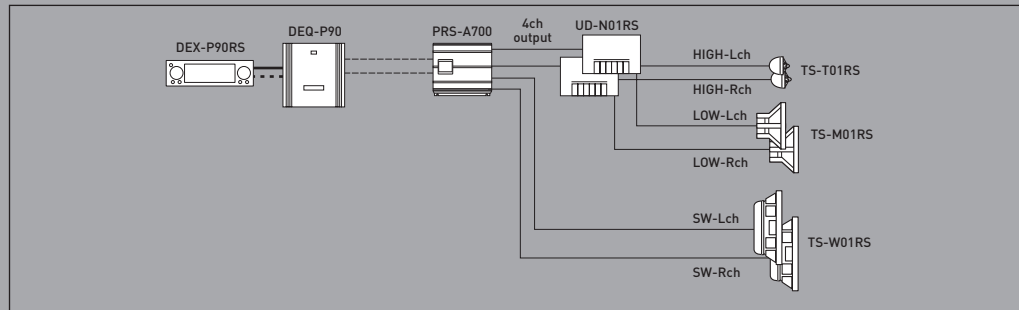
ODR & RS — 2-way System



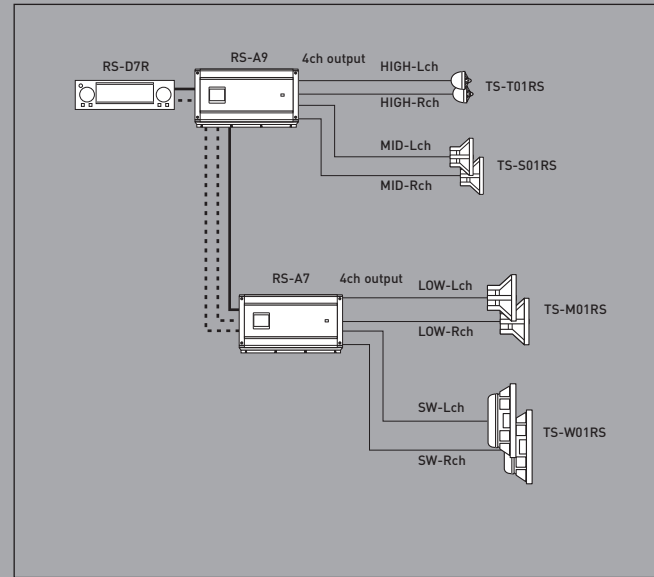
ODR & RS — 3-way System



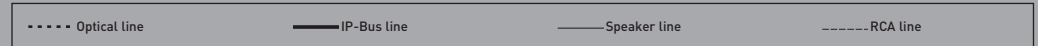
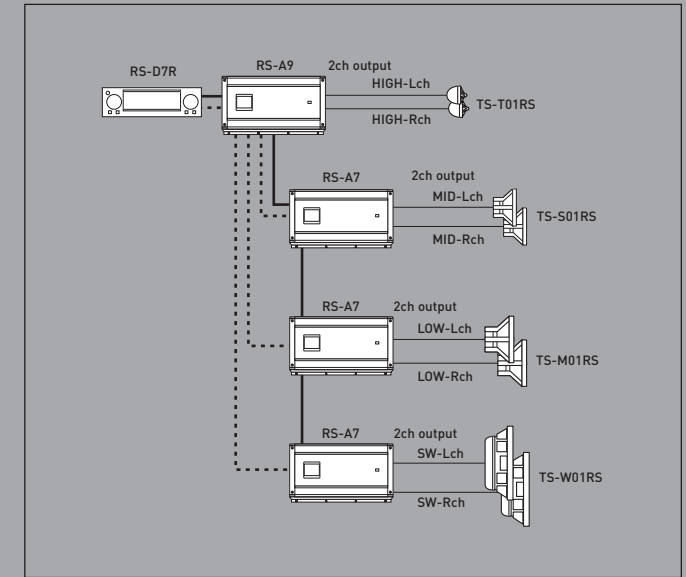
PRS & RS — 3-way System



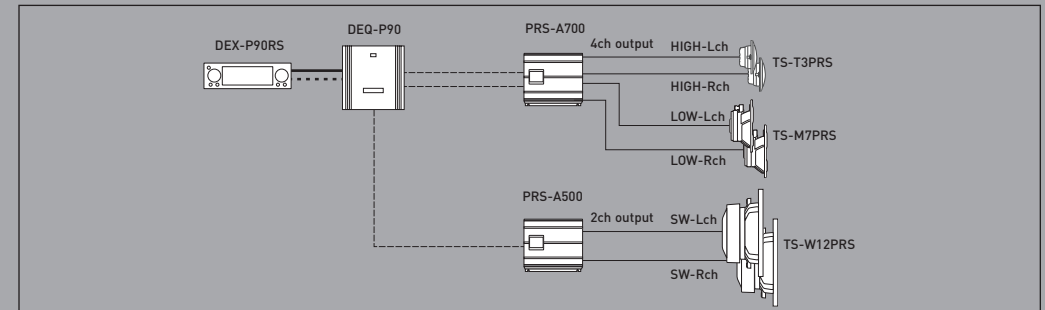
ODR & RS — 4-way System



ODR & RS — 4-way Full Balanced System



PRS — 3-way System



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 Haven 1087, Keetberglaan 1, B-9120 Melsele, Tel.: + 32 (0)3 570 05 11
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