TRIN CHERA

REFUGIO SONORO

RIDER TÉCNICO

David Sarmiento - Responsable Técnico
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SONIDO

SISTEMA P.A.

LINE ARRAY APG UNILINE COMPACT

10 x UC206N (Narrow coverage)
- 3 acoustic ways / bi-amp
- 2 x 6.5" Neodymium Low/Mid cone drivers
- 1 x Isotop15TM (5" Neodymium / HF 1", coaxial drivers)

2 x UC206W (Wide coverage)
- 3 acoustic ways / bi-amp
- 2 x 6.5" Neodymium Low/Mid cone drivers
- 1 x Isotop15TM (5" Neodymium / HF 1", coaxial drivers)

4 x UC115B (Flown LOW)
- Uniline Compact bass speaker
- 1 x 15" Neodymium (4" voice coil)
- Dual Interactive Chamber Pass Band

4 x UC118i (Sub Suelo/ground)
- Uniline Compact infra-bass speaker
- Neodymium 1 x 18" driver, 4" ventilated voice coil
- Complex band-pass load

2 x APG DA12 AES
- APG DSP amplifier, 4 x 3000 W @4 Ohms by Powersoft
- Analog/AES-EBU/inputs.

4 x Polipastos 1000kg

4 x Sistema Volado APG Uniline Compact

CONTROL F.O.H

El Control se encuentra situado en el balcón superior de la sala, a 15m del sistema de sonido, con una diferencia de altura de 2,5m respecto al público. Informe de la respuesta y ajuste del equipo tanto en sala como en posición de mezcla en documentos adjuntos.

Mezclador P.A. digital Behringer X-32 (32 IN -16 OUT, Midas Preamp)
- Expansion Card X-DANTE - 32x32 channel Ultra low latency.

Splitter Analógico 32 in

Sistema Intercom Altair

MEDIDAS ESCENARIO

7m ancho x 5m profundo + provocador 5m x1,40m

4m a techo 1,15 altura sobre pista.

CONTROL MONITORES

Mezclador monitores digital Behringer X-32 (32 IN -16 OUT, Midas Preamp)

ESCENARIO

9 x Cuñas 15” Turbosound TFM 302 (1 X 1" + 1 X 15”) (+ 1 cue)

2 x Cuñas 15” Musicson COAX – 15 M para Drumfill (1 X 1" + 1 X 15")

2 x Sidefill compuesto por SUB EV Eliminator 18“ + 2 X 12

6x Etapas de Potencia Behringer INuke 6000

20 x Stand Micrófono (Cortos y Largos)

6 x Juegos de 4 patas para Tarimas Aluminio de 30 cm.

2 x Juegos de 4 patas para Tarimas de Aluminio de 60 a 100cm.

6 x Tableros de Tarima de 2x1

Cableado de señal y corriente (XLR/JACK/RCA/SPEAKON)

MICROFONÍA

AKG 2x D-112 / 1 x C-1000

SENNHEISER 3 x e-604 /1 x e-606 / 1 x e-912

SHURE 1x Beta 52 /1x BETA91 /1x Beta 56 /2x Beta-57 /5x SM-57 /10x SM-58

AUDIO TECHNICA 2 x AT2035

FOSTEX 2 x MC-10

4 x DI Klark Teknik / 2 x Behringer di 100 / 2 x DI Samson (stereo) Direct Plus

1x Behringer di 4000 (4ch)

ILUMINACIÓN

MATERIAL

10 x LED Wash/Beam/Spot 300W (contra)

10 x LED Wash 19x15w (Contra)

5 x Eurolite Theatre CW100 (Frontal)

3 x Par LED RGB (frontal para trasera)

6 x Cabeza móvil Starkville MH-X25Led Spot (Frontal)

6 x Cabeza Móvil Starville Bolwbeam 604 (Contra)

2 x Starville Led Matrix (Cegadoras)

3 x Starville Wildwash (Strobo Led RGB)

6m x 6m Estructura truss Aluminio 30x30cm

5x Polipastos 1000 Kg

1 x Máquina de Humo Starville AFH 600 + Ventilador

CONTROL ILUMINACIÓN

El Control se encuentra situado en el balcón superior de la sala, a 15m del escenario, con una diferencia de altura de 2,5m respecto al público

CHAMSYS MAGIC Q PC con CHAMSYS PC WING .

PC con procesador Intel I5 4770k. 8Gb RAM 4Gb RAM Video Pantalla Táctil 24''

VÍDEO

MATERIAL

3 x Pantalla Samsung 50'' (Barras)

2 x Proyección 65'' (Alas escenario)

1 x Proyección 3x2m (Fondo escenario) Optoma 3000 Lumens

1 x Proyección 3x2m (VIP)

4 x Cabezas móvil dmx con GOPRO HERO 3BLACK+ (en escenario)

2x Sony Handycam + trípode (en control)

6x convertidor activo hdmi-sdi

6 x convertidor activo sdi-hdmi

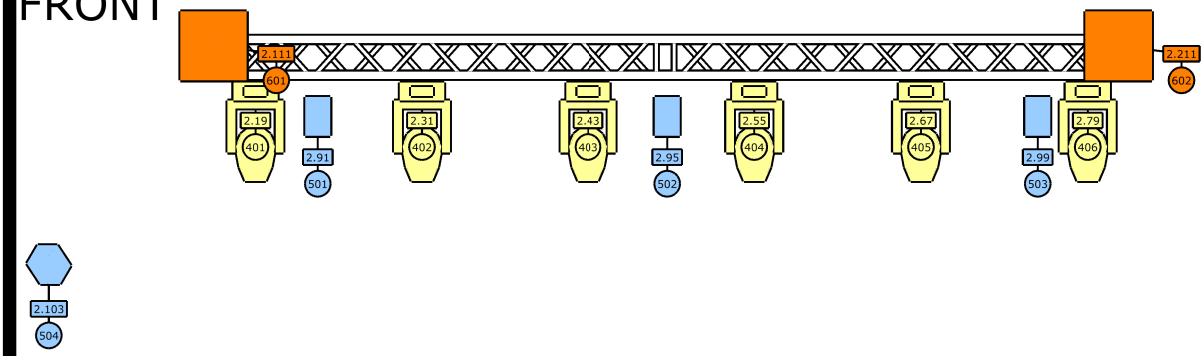
Cableado HDMI, mini HDMI, micro HDMI y HD-SDI (12G)

CONTROL VIDEO

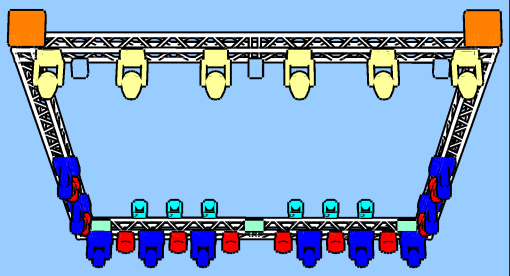
2 x Sistema de realización Blackmagic ATEM TELEVISION STUDIO(HD hasta 1080i)

PC i7 4770 Control Chamys Magicq PC táctil para cámaras robotizadas

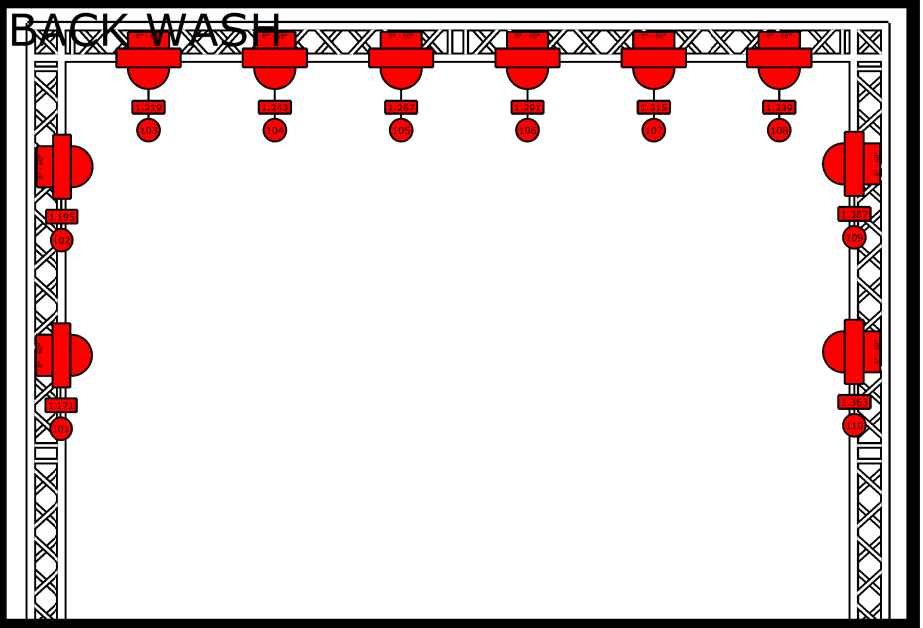
FRONT



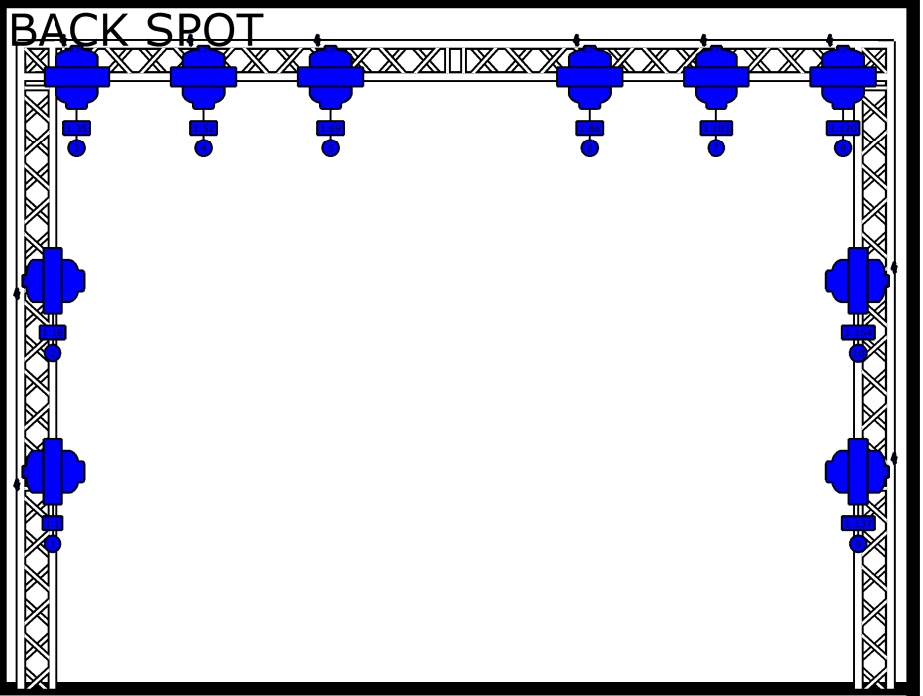
ISOMETRICA



BACK WASH



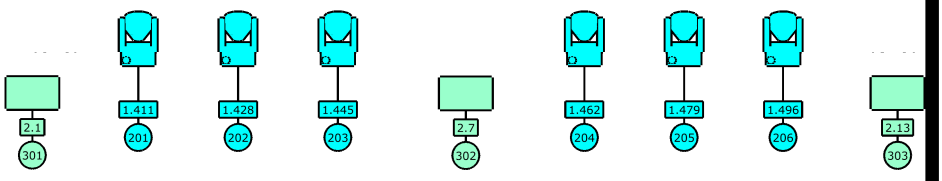
BACK SPOT



LEYENDA

- LED Zoom 19X15 24CH (10)
- STAIRVILLE LED 100W BWS Light 17CH (10)
- STAIRVILLE Bowl Beam 604 LED MKII RGBW 17CH (6)
- STAIRVILLE MH-X25 LED Spot 12CH (6)
- EUROLITE LED Theatre COB 100 WW/CW 4CH
- EUROLITE Wild Wash 648 LED RGB DMX 6CH (3)
- STAIRVILLE LED Matrix Blinder 5x5 DMX 28CH (2)

TRUSS BACK Strobe+Beam



LA TRINCHERA

Sound configuration

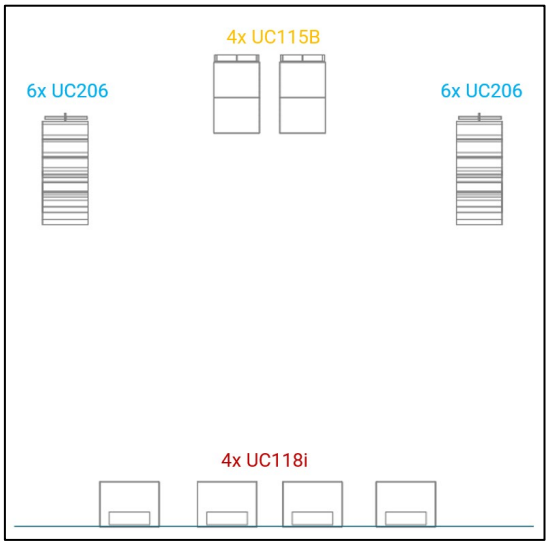
Sala Trinchera – Refugio Sonido
C/ Parauta 25
Málaga

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8 rue Johannes Gutenberg, 44340 Bouguenais, France - |www.arbane-groupe.com

SYSTEM DESIGN

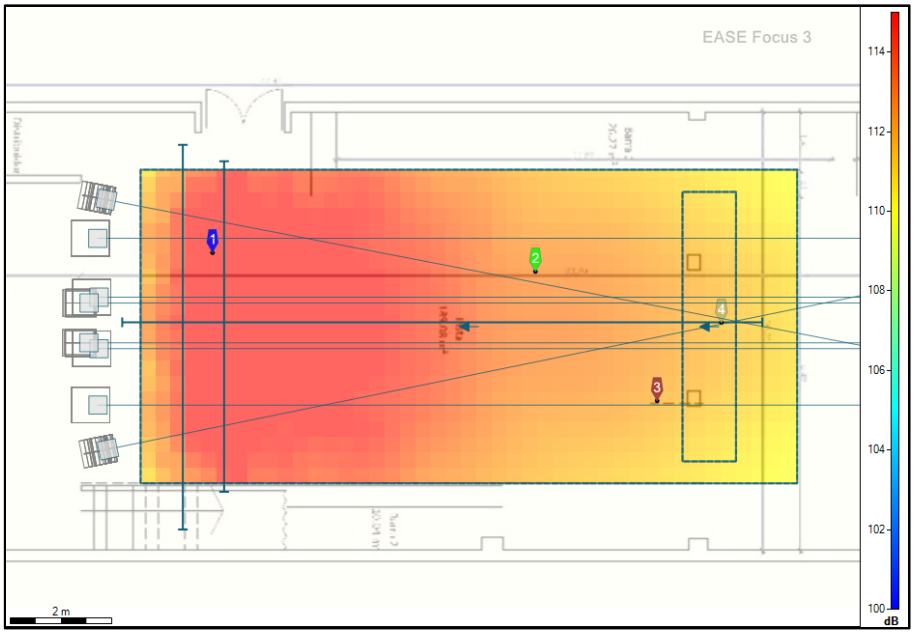
The system is a full 5 way modular line-array system APG Uniline Compact, consisting in :

- **One stereo 3 way line-source system hanging** (UC206) : **80 Hz – 20kHz**.
  6 cabinets per side :
  - 5x UC206N (70°horizontal)
  - 1x UC206W (105° horizontal)
- **4x Bass speakers hanging** (UC115B) : **60 - 110 Hz**
- **4x Sub-Bass ground speakers** (UC118i) : **35 - 60Hz**



1. La Trinchera APG System design - front view

ACOUSTIC SIMULATION



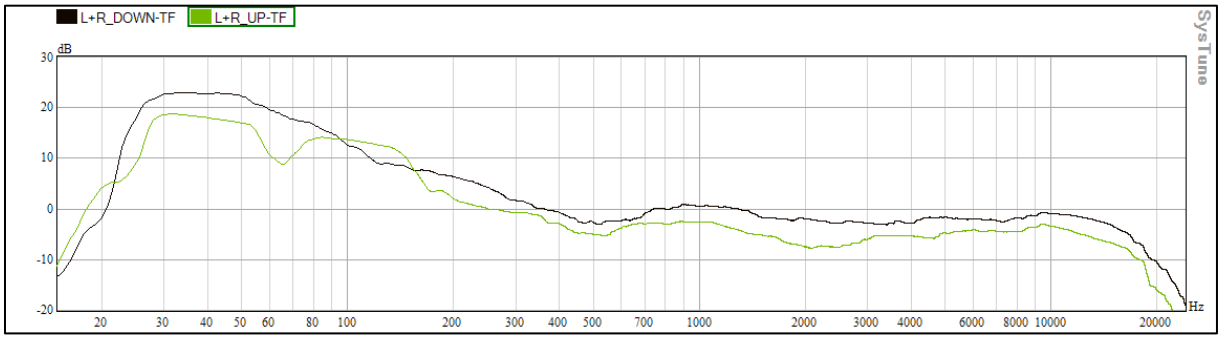
2. La Trinchera - Sound coverage - dB(A)

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FINAL EQ : public audience and upper mix position

The frequency responses below are measured at a height of 1,7m, with the entire system (LEFT + RIGHT + BASS + SUBS) working.

- Black plot = downstairs (audience)
- Green plot = upstairs (mix position)



3. La Trinchera - Frequency response (1 octave smoothing)

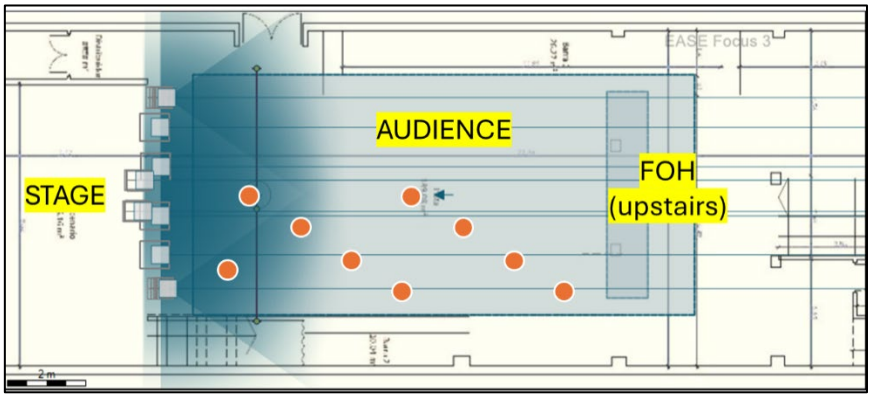
The response is similar, with about 3dB less upstairs. The contour is 22dB.

MEASUREMENTS PROCEDURE

Measurements were made with multiple microphones positions in the audience area (with averaging:

- Microphones on the ground for low frequencies
- Microphones at 1,7m height fo high frequencies

Please see below the microphones positions used:

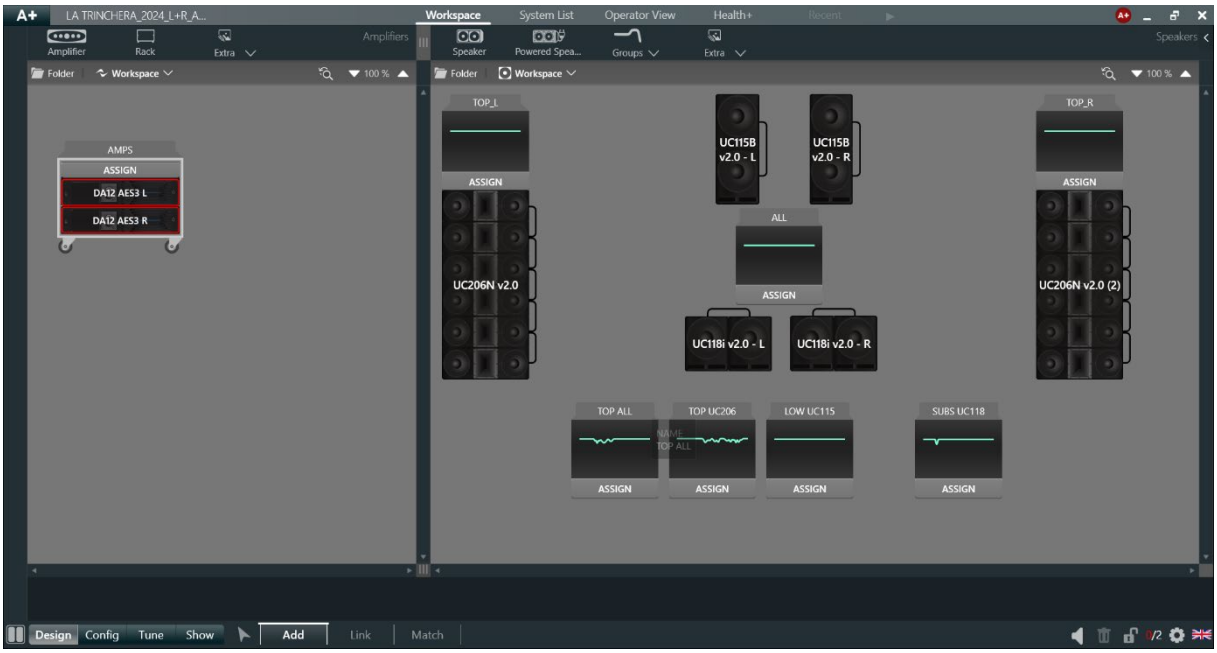


4. La Trinchera - Microphone positions

AMPLIFIER CONTROL

Amplification is made with 2x APG by Powersoft DA12 amplifiers.

Main page – global configuration (Powersoft Armonia Plus v2.7 software) :



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Please see below the Eq made on the system:

1. UC206 (Mid-high):

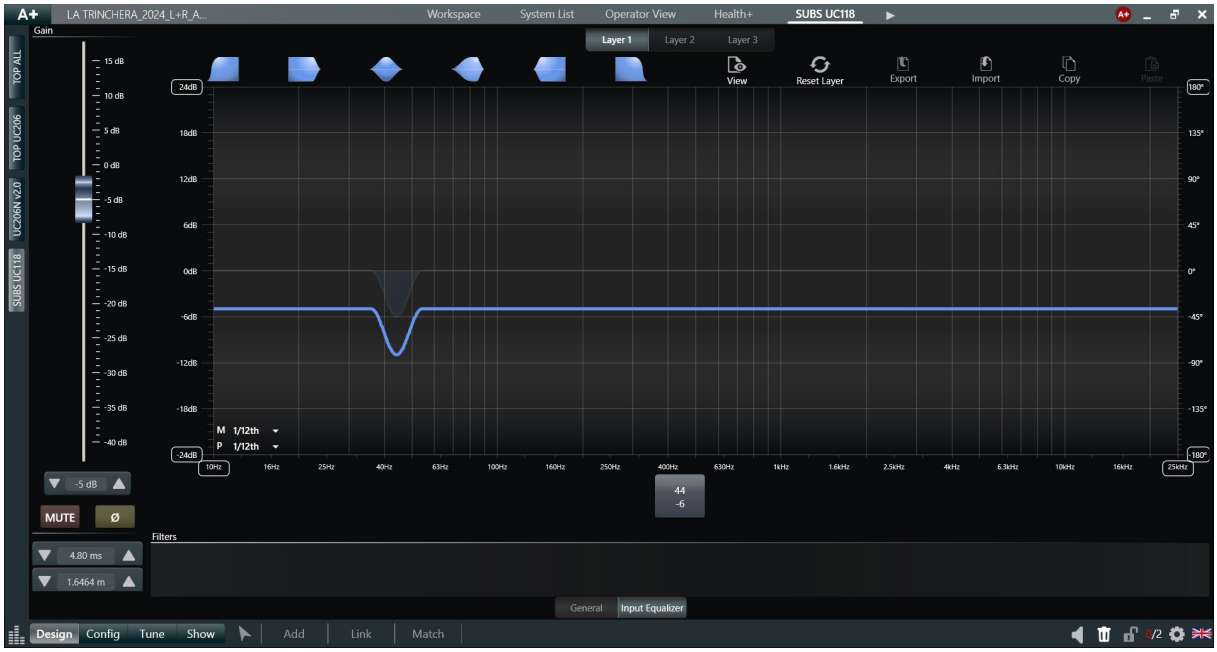


2. UC206 + UCC15B (Low):



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3. UC118i (Sub):



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