

----- TV Side -----

USB 3.0/2.0

2.0 (1)

----- TV Rear -----

RF In

1 (Horizontal)

Composite In (CVBS + Audio)

1 (Component, Horizontal)

Component in (Y,Pb,Pr) + Audio

1 (Composite)

Digital Audio Out

1 (Horizontal)

HDMI (4K 60p)

2 (6G : 2)

RS232C

USB to RS232C

Accessories

Remote Control

L-Con

Power

Voltage, Hz

100 ~ 220V ac 50Hz

Standby (Stand by mode)

0.5W

Dimension (W*D*H)(mm)

Set (with Stand)

906 x 179 x 580

Set (without Stand)

906 x 56.7 x 524

Weight (kg)

Set (with Stand)

9.4

Set (without Stand)

9.1

QUESTIONS? LET US HELP

Product Support

Simply choose a support option from the icons below:

Phone

Call an LG Support Representative on:
Hong Kong:(852) 3543-7777
Macau:(853) 0800-498

Monday to Friday : 09:00 to 19:00
Saturday - Sunday : Close
Public Holidays: Close

Email

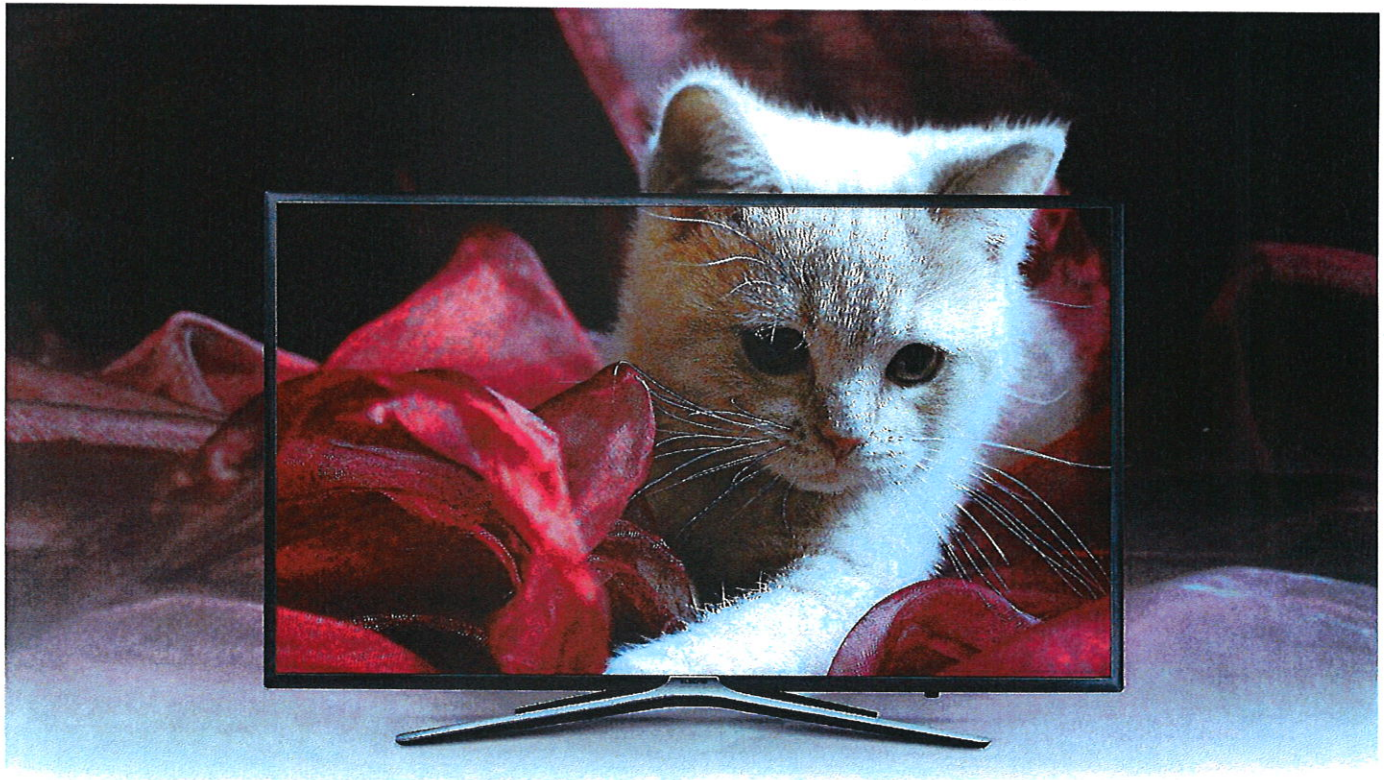
[Send LG Support your inquiry.](#)

RECENTLY VIEWED



LG ULTRA HD TV

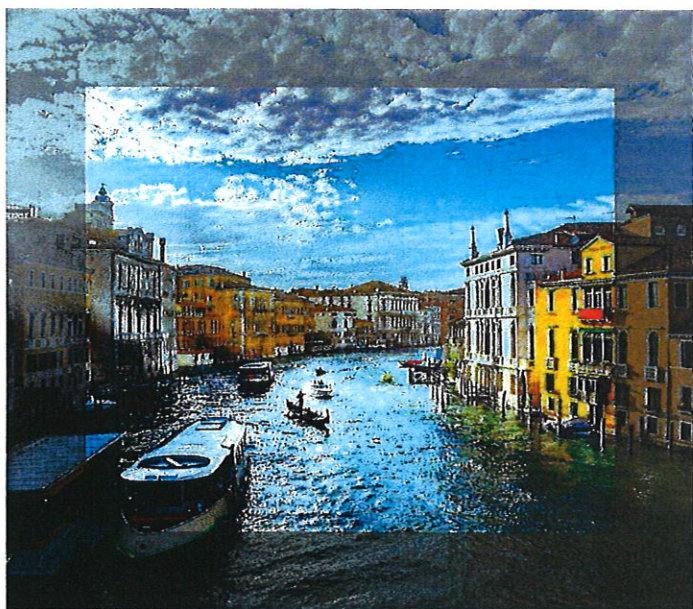
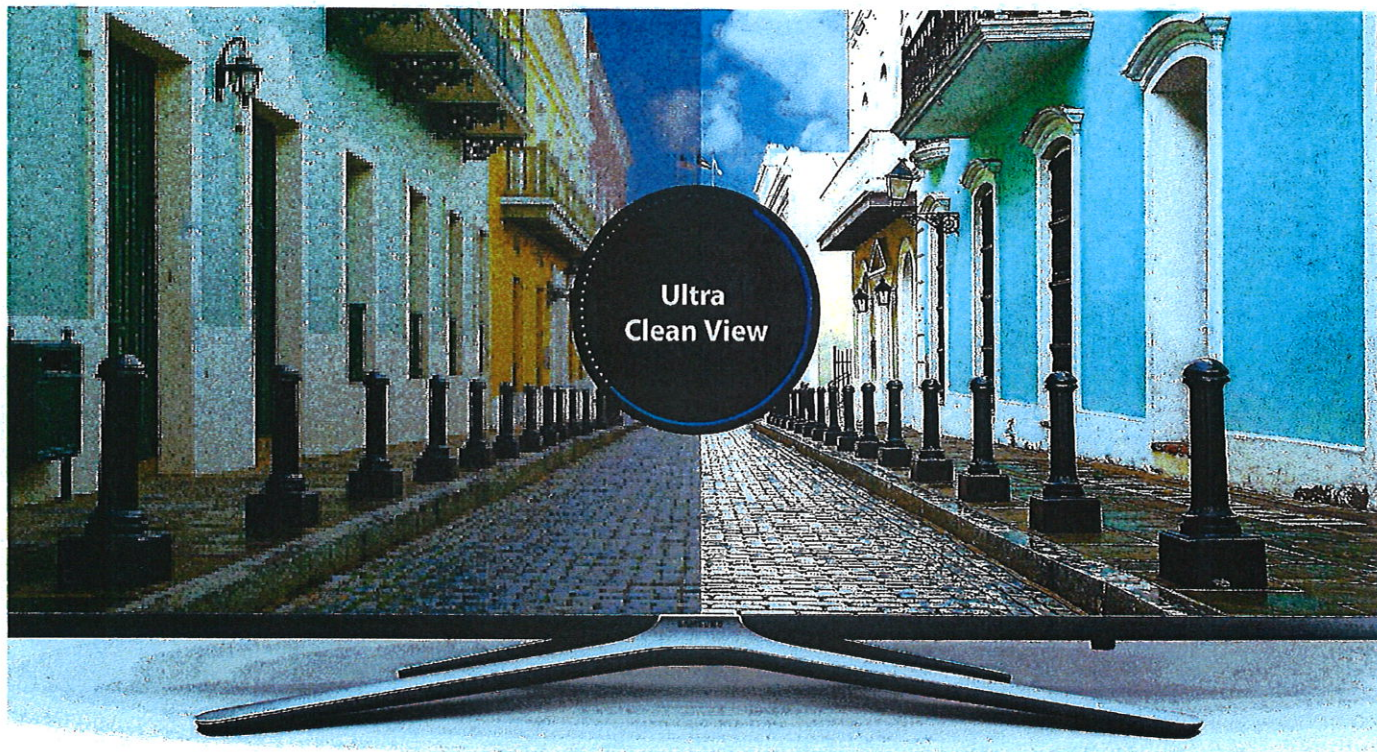
40UF6710



* El producto puede variar respecto al mostrado en la Imagen. Por favor, visita nuestra galería de productos.

Imágenes más nítidas

Disfruta de toda la calidad de imagen Full HD gracias a la tecnología Ultra Clean View, que utiliza un avanzado algoritmo para filtrar y reducir el ruido de las imágenes. Solo verás imágenes limpias y nítidas.

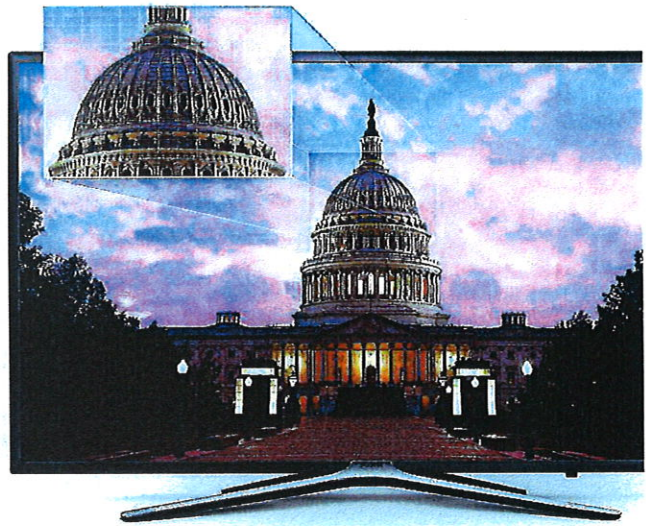


Mayor contraste

Las imágenes ganan realismo en tu televisor. Al aplicar diferentes niveles de contraste según la posición del objeto en el plano genera una mayor sensación de profundidad, aportando más realismo a cada escena.

Micro Dimming Pro

La tecnología Micro Dimming Pro analiza cada zona de la imagen para ofrecer negros más oscuros y blancos más puros. Disfruta de sombreados y color en detalle.



PurColor

Gracias a la tecnología PurColor, disfruta de todo tu entretenimiento con colores naturales y detalles realistas.

Diseño fino y elegante

Cuenta con un diseño cuidado y elegante, adaptándose a la perfección a cualquier espacio.



Todo el control en tu mano

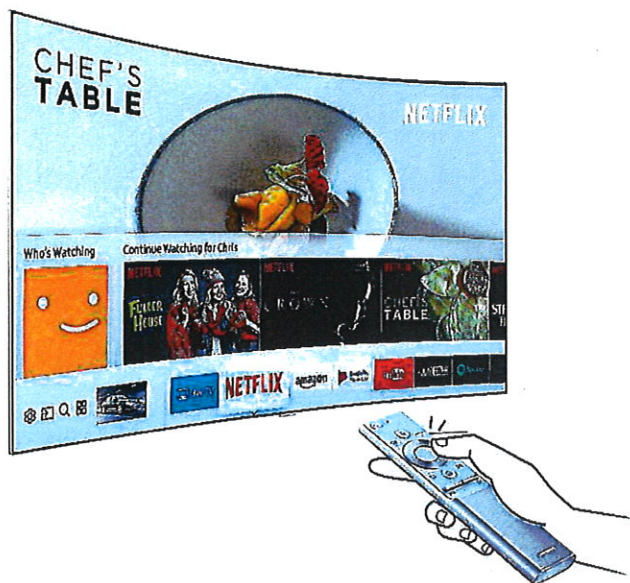
Con uno es suficiente. Controla todos tus dispositivos conectados con un único mando. Además con el control por voz disfrutarás mucho más la experiencia con tu televisor. Todo el poder en la palma de tu mano.



*Para disfrutar de Netflix necesitas contratar sus servicios.

Smart View

Navega fácilmente y controla tu televisor desde tu Smartphone o tablet. También podrás compartir los contenidos de tu móvil y disfrutarlos en tu televisor más fácilmente, gracias a su misma Interfaz.



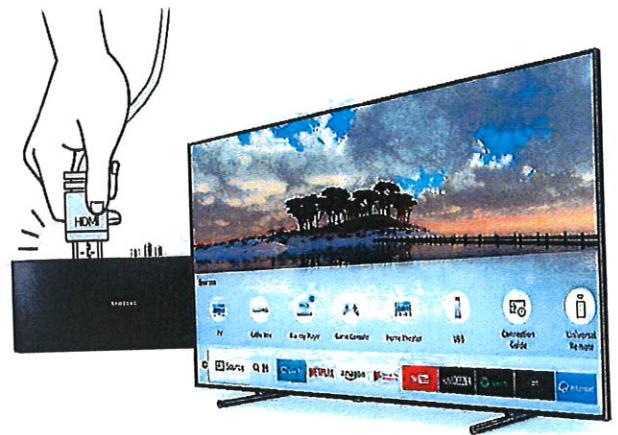
Smart Hub

Todo lo que quieres ver en un único lugar. Una gran variedad de contenido para ti en una sola pantalla. Accede fácilmente a lo que te interesa, sin necesidad de abrir, gracias a las vistas en miniatura.

Auto detección

Con la función de reconocimiento de fuente automática, tu televisor es capaz de identificar qué dispositivo has conectado por HDMI, para que pases de un dispositivo a otro sin problema.

*Los dispositivos deben estar conectados a One Connect a través de un cable HDMI.



ConnectShare Movie

Reproduce tus contenidos favoritos en tu televisor utilizando un USB. Podrás ver películas, fotos o escuchar música.

*Los formatos admitidos incluyen AVI, ASF, MP3, JPEG entre otros. Consulta el manual para ver el listado completo de formatos compatibles.



Aún más inteligente

SAMSUNG
QLED TV

HBO
ESPAÑA



TODAS
LAS TEMPORADAS DE
JUEGO DE TRONOS
EN SAMSUNG
SMART TV

LA ÚNICA SMART TV
CON LA APP DE HBO ESPAÑA

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5

Serie

1,920 × 1,080

Resolución

3

HDMI

2

USB

OCULTAR TODAS LAS ESPECIFICACIONES

Serie

5

Pantalla

Tamaño de pantalla
43"

Resolución
1,920 × 1,080

Vídeo

Motor de Imagen
HyperReal

PQI
800

Ratio de Contraste Dinámico
Mega Contrast

Micro Dimming
M/D Pro

Wide Colour Enhancer (Plus)
Sí

PurColor
Sí

5/7/2018

Televisor Plano 43" Full HD Smart TV K5505 |SAMSUNG

Contrast Enhancer
Sí

Auto Motion Plus
Sí

Modo cine
Sí

Audio

Dolby Digital Plus
Sí

Codec DTS
Sí

Salida de sonido (RMS)
20W

Tipo de altavoz
2CH(Down Firing con Bass Reflex)

Multitroom Link
Sí

Audio Bluetooth
Sí

Smart Service

Interacción por voz
Inglés Británico, Español, Francés,
Italiano, Alemán

Navegador web
Sí

Soporte One App
Yes

Smart View
Yes

Sintonizador

Sintonizador digital
DVB-T2C

Sintonizador analógico
Sí

CI (Interfaz común)
CI+(1.3)

HbbTV
HbbTV 1.5

Conectividad

HDMI
3

USB
2

Entrada componente (V/Pb/Pr)
1

Entrada compuesta (AV)
1(Usó común para componentes Y)

Entrada de red (LAN)
Sí

Salida de Audio Digital (Óptica)
1

Entrada RF (Terrestre/Entrada cable/Entrada Satélite)
1/1(Usó común para Terrestre)/0

CI Slot
1

HDMI A / Retorno al Canal
Sí

Conexión rápida HDMI
Sí

Wi-Fi Integrado
Sí

Anynet+ (HDMI-CEC)
Sí

Diseño

Diseño
Slim

Tipo de marco
VNB

Slim
Step-up Slim

Color Frontal
Dark Titan

Tipo de piana
Quad

Convergencia

Mirroring de TV a Móvil
Sí

Mirroring (DLNA) de Móvil a Televisor
Sí

Bluetooth de bajo consumo
Sí

Wi-Fi Direct
Sí

Características Adicionales

Instant On
Sí

Procesador
Quad Core

Accesibilidad
Guía de Voz/ Ampliar/ Alto
Contraste/ Mando Aprende TV/ Audio
Multi-Salida

Digital Clean View
Sí

Búsqueda Automática de Canales
Sí

Auto Apagado
Sí

Televisor Plano 43" Full HD Smart TV K5505 |SAMSUNG

Subtítulos	ConnectShare™ (HDD)	ConnectShare™ (USB 2.0)
Sí	Sí	Sí
POP Incorporado	EPG	USB Grabador
Sí	Sí	Sí
Modo gaming	Idiomas Sistema Operativo	BT HID Integrado
Sí	27 Idiomas Europeos	Sí
Soporte USB HID	Cambio de hora	Compatible con mando universal
Sí	Sí	Sí
Ultra Clean View		
Sí		

Características Eco

Sensor Eco	Clase de Eficiencia Energética
Sí	A+

Intensidad Máxima

Fuente de Alimentación	Consumo de Energía (Máx.)
AC220-240V 50/60Hz	95 W

Dimensiones

Dimensión con Caja (mm)	Dimensión con Peana (mm)	Dimensión sin Peana (mm)
1115.0 x 673.0 x 123.0 mm	972.9 x 635.0 x 250.7 mm	972.9 x 570.0 x 55.1 mm

Peso

Peso con Caja (kg)	Peso con Peana (kg)	Peso sin Peana (kg)
13,5 kg	10,5 kg	9,5 kg

Accesorios

Modelo de Mando a Distancia	Baterías (para el Mando)	Samsung Smart Control (Incluido)
Smart Control	Sí	Sí
Compatible con Soporte Mini	Compatible con Soporte VESA	Manual de Usuario
Sí	Sí	Sí
e-Manual	Cable Alimentación	Cable Slim Gender
Sí	Sí	Sí

OCULTAR TODAS LAS ESPECIFICACIONES

Aún no hay reseñas de usuarios.

SE EL PRIMERO EN HACER UNA RESEÑA

55LN577s

LED, 55", Full HD, 100HZ MCI, Smart TV

Producto Descontinuado

Características Clave

Dimensiones: 1249x 791 x 297mm

MANDO MAGIC control universal con reconocimiento de voz y gestos (opcional)

Smart TV: Contenido ilimitado y navegador libre

Smart Share: Reproduce los contenidos de tu ordenador

Disponible Sizes: 55" | Descontinuado

55"	<u>50"</u>	<u>47"</u>	<u>42"</u>	<u>39"</u>
------------	------------	------------	------------	------------

Dónde Comprar



Especificaciones Técnicas

Soporte

Añadir para comparar

COMPARTIR

Cerrar

Pantalla

Tamaño (pulgadas)
55

Resolución
1920 x 1080

Tipo de Pantalla
LED

Sistema de escaneado (Hz)
MCI 100Hz

Sintonizador

Recepción TV Digital
Sí

Terrestre
DVB-T

Cable
DVB-C

Satélite
DVB-S2

HBBTV

DG/AG, FS, ES, BN, PL, CZ + α

Vídeo

Triple XD Engine
XD-Engine MultiCore 6x

Optimizador de resolución
Sí

Optimizador de color
Sí

Optimizador de Imagen
Sí

Modos de Imagen
7 Modos (Vivid/ Standard/ Cinema/ Sport/ Game/
Expert1/ Expert2)

Relación de Aspecto
8 modos (16:9, Just scan, Original, Full Wide, 4:3, 14:9,
Cinema Zoom 1, Zoom)

Reducción de Ruido
Sí

Real Cinema 24P
Sí

Subtítulos para DivX (idiomas)
36 idiomas

Formatos de lectura por USB
DivX HD, JPEG, JPS, MPO

Descarga de APPs vía USB
Sí

Audio

Mono, Estéreo, Dual

Sí

Decodificador Dolby Digital

Sí

Decodificador DTS

Sí

Altavoces

2 altavoces 1 vía

Potencia de Audio

10W + 10W

Subwoofer

Sí

Clear Voice II

Sí

Modos de Sonido

6 modos (Standard, Music, Cinema, Sport, Game, User setting)

Audio Codec

AC3(Dolby Digital), EAC3,HAAC,AAC, Mpeg, MP3, PCM, DTS

Smart TV

Versión Smart TV

Smart TV 4.0

Navegador libre

Sí, Flash 11 y HTML5

Contenidos Premium

Sí :Terra TV, la Sexta, wuaki, ADN stream, El País, AS, facebook, Twitter, Google maps, Youtube, entre otros

App Store

Sí, con más de 1000 aplicaciones

Game World

Sí

Social Center

Sí

Skype

Sí, cámara opcional VC400

2D reconocimiento de movimientos

VC400 => Volumen, Control del canal, TV Off

On Now Recommendation

Sí

Cámara TV

Opcional

Wi-Fi

Sí, Integrado

Wi-Fi Direct

Sí

Mando Magic Control

Opcional, Magic control Standard con 5 modos: voz, gestos, puntero, scroll y universal (controla con el mando sintonizador externo, altavoces, blu-ray, dvd y TV de cualquier marca)

Controlable desde Smart Phone (android), i-phone

Sí

Screen Share

MHL

Sí

Miracast

Sí

Imagen en segundo dispositivo

Sí

WiDi

Sí

DLNA	Visionado en teléfono móvil
Sí	Opcional

Otros

Timemachine II	Graba TV & Entrada externa (Euroconector)
Sí, grabación por USB	Sí

Grabación programada/directa/TV apagado	Ver TV & grabar
Sí	No

Graba & Navega simultáneamente	Graba & Cambia de Entrada (HDMI)
Sí	Sí

EPG	Smart Energy Saving
Sí	Sí

Control parental	Teletexto
Sí	Sí, 2000 páginas

Edición de programas	Despertador
Sí	Sí

Etiquetado de entradas	Reloj Auto/manual
Sí	Sí

Grabación USB

Sí, grabación por USB con disco duro entre 40 GB y 1 TB con formato NTFS o FAT32. La TV formatea el disco duro.

Conexiones Laterales

Ranura CI+ para TDT de pago	HDMI 1.4 Simplink
Sí	x3

USB

3 Puertos USB 2.0 (1 USB Grabador)

Conexiones Traseras

Antena /Cable y Satélite	Compuesto + Audio
Sí.	1 (H, Component & Audio Sharing)

Euroconector	Componentes (Y,Pb,Pr) + Audio
Sí	Sí

Salida Óptica

Sí

Entrada Audio PC

Sí, compartida con AV2

LAN (Para SmartTV y DLNA por cable)

Sí

Salida Auriculares

Sí

ECO Información

Clasificación Energética

A+

Dimensiones (ancho - alto - fondo)

Medidas sin soporte (mm)

1249 x 725 x 79.1

Medidas con soporte (mm)

1249 x 791 x 297

Peso del Equipo (sin soporte) - kg

18.7 Kg

Peso del Equipo (con soporte) - kg

20.8 Kg

Dimensiones VESA - sin soporte (mm)

400 x 400

Cumplimiento normativo

[ETIQUETA ENERGÉTICA](#) ↓[FICHA DE PRODUCTO](#) ↓[WEB INFO](#) ↓[Más Información de Conformidad](#)

QUEREMOS AYUDARTE

¿Buscas Actualizaciones, Manuales o Descargas?

Soporte del Producto

¿Necesitas más ayuda? Usa nuestros servicios online:



Guías & Soluciones



Registrar un Producto



Reparar un Producto



Atención al Cliente

VISTO RECIENTEMENTE



LED, 55", Full HD,
100HZ MCI, Smart
TV

55LN577s

SIGUE LAS ÚLTIMAS NOTICIAS

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60UF770V ★★★★★ 4.5 (28) [Write a review](#)

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[Reviews](#)

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Close

Display

Screen size (in.)
60

Display Type
LED

4K
Yes

Resolution
3840 x 2160

Micro Pixel Control (Local Dimming)
Yes

Video

Tru ULTRA HD Engine
Yes

Triple XD Engine
Yes

ULTRA Luminance
Yes

Tru Black Control
Yes

Aspect Ratio Correction
8 modes (16:9, Just scan, Original, Full Wide, 4:3, 14:9, Cinema Zoom 1, Zoom)

Real Cinema 24p
Yes

4K Upscaler
Yes

Dynamic Scanning
Yes

Active Noise Reduction
Yes

Natural Colour
Yes

Dynamic Clear White
Yes

Dynamic Colour Enhancer
Yes

Smart Picture Mode
Yes

Motion Eye Care
Yes

Picture Mode
9 modes (Vivid,Photo,Standard,Eco, Cinema,Game,Soccer, isf Expert1, isf Expert2)

HEVC Codec
4K 60P, 4K 30P, 2K 60P

Audio

Mono/Stereo/Dual (MTS/SAP)

Yes

DTS Decoder

Yes

Audio Output

10W + 10W

Speaker System

2.0Ch Speaker System (2 way 4 SPK)

Dolby Digital Decoder

Yes

Surround System

ULTRA Surround

Tweeter

Yes

Sound Status Mode

6 modes (Standard, News, Music, Cinema, Sport, Game)

Smart Sound Mode

Yes

Sound Optimizer

3 modes (Off, Stand Type, Wall-mounted Type)

Clear Voice

Yes (Clear Voice 2)

Optical Sound Sync

Yes

Wireless Sound Sync

Yes

Private Sound Sync

Yes

apt-X Encoder

Yes

DVR

Recording

External Hard Drive

Time Shift (live playback)

External Hard Drive

Watch & Record

External Input watch & record, Smart function using & record

External Input Record

RF/Composit

Scheduled Recording

Manual, According to broadcasting information, Recommend, Voice, Series recording

Smart TV(webOS)

Launcher (Recent / Home / My apps)

Yes

LG Store

Yes

Live Menu

Recommend, Channels, Recordings

Smart Share

Media Share - Remote App

Yes

Media Share - Network File Browser

Yes

Media Share - Google Dial

Yes

Screen Share - Miracast

Yes

Screen Share - WiDi

Yes

Jack Pack (Side)

USB 2.0

2

USB 3.0

1

HDMI

3

CI slot

Yes

Jack Pack (Rear)

RF In

2

Full Scart

1

Composite In (CVBS + Audio)

1

Component in (Y,Pb,Pr) + Audio

1

Digital Audio Out (Coaxial/ Optical)

1(Optical)

PC Audio Input

1

LAN

1

RS-232C (Control / SVC)

1

Headphone out

1

Connectivity

Wi-Fi Ready / Built-in

Set Built-in

WiFi Direct

Yes

Simplink

Yes

Simultaneous Audio

Yes

USB

Divx (HD)

Yes

Picture

JPEG, JPS, MPO

External Device App Download

Yes

Audio Codec

AC3(Dolby Digital), EAC3, HE-AAC, AAC, MP2, MP3, PCM, DTS, RA, WMA

Dimensions - WxHxD (mm)

SET (w/o stand) (mm)

1348 x 782 x 58.5

Including stand (mm)

1348 x 841 x 338

in Carton

1492 x 880 x 175

VESA Dimensions (mm)

300 x 300

Weight (Kg)

SET (w/o stand kg)

23.3

Including stand (kg)

25.9

In Carton

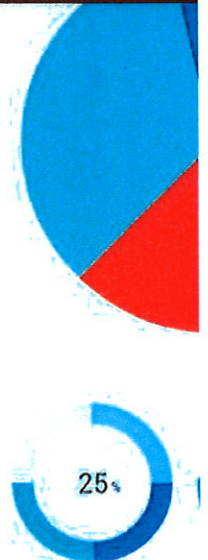
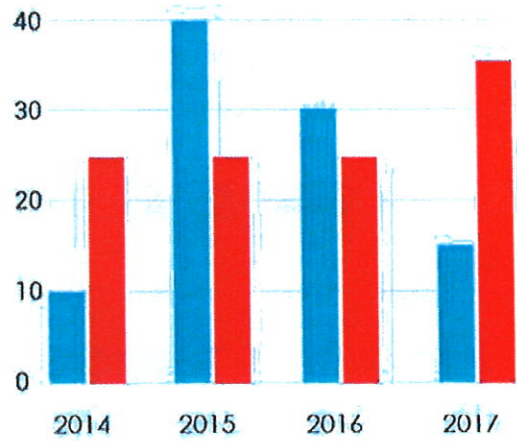
29.9

Compliance Information

[ENERGY LABEL\(60UF770V-ZB\)](#) ↓[ENERGY LABEL\(60UF770V-ZL\)](#) ↓[PRODUCT FICHE\(60UF770V-ZA\)](#) ↓[PRODUCT FICHE\(60UF770V-ZB\)](#) ↓[PRODUCT FICHE\(60UF770V-ZL\)](#) ↓[WEB INFO\(60UF770V-ZB\)](#) ↓[WEB INFO\(60UF770V-ZL\)](#) ↓[More Compliance Information](#)

NEC Ultra High Definition Large Format Displays

75", 86" and 98" Commercial Displays Ideal for Digital Signage Applications



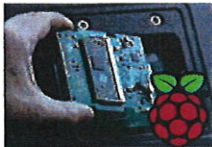
Brand new UHD displays in an aesthetically-focused design allows for seamless integration into any digital signage environment while maintaining the commercial ruggedness necessary for the retail, educational and corporate environments

Beyond Standard Signage

With industry leading experience in superior design and customer focus, the NEC large C series allow for clear, detailed imagery for unobtrusive digital messaging. New contemporary and slim mechanical design with focused aesthetics allows for the smooth and stylistic integration into any type of environment. Their full metal chassis coupled with real-time temperature sensors and integrated cooling fans maintain the professional quality necessary for commercial environments. With an anti-glare screen and ultra high definition panel, customers can enjoy the perfect image in any circumstance. These displays come equipped with a wide range of the latest connectivity interfaces including three separate HDMI 2.0 interfaces, two separate DisplayPort interfaces and a DisplayPort Out connection to complement the native Ultra High Definition at 60Hz panel. These displays also include expandability options such as the Open Pluggable Specification (OPS) and Raspberry Pi Compute Module slots for source integration directly into the display. The NEC C series boasts 350 cd/m² brightness that allows for efficient readability in higher ambient light situations and is ideal for 24/7 signage in airports, quick-serve restaurants, and retail.

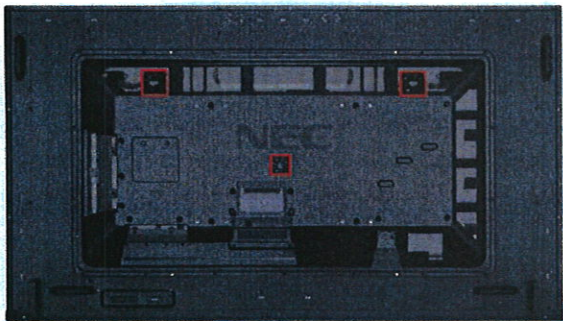
Scalable Computing Power

Integrated computing options allow for cable free signage for any type of situation. The on-board multimedia player can be utilized for simple signage applications by allowing auto-play off of USB or SD card and content transfer via LAN. For more advanced signage systems, these displays contain an industry first ability to integrate a Raspberry Pi Compute module for near limitless potential and application. Finally, each display adheres to the Open Pluggable Specification that gives the ability to seamlessly integrate a full PC, HDBaseT receiver or other options directly into the unit.

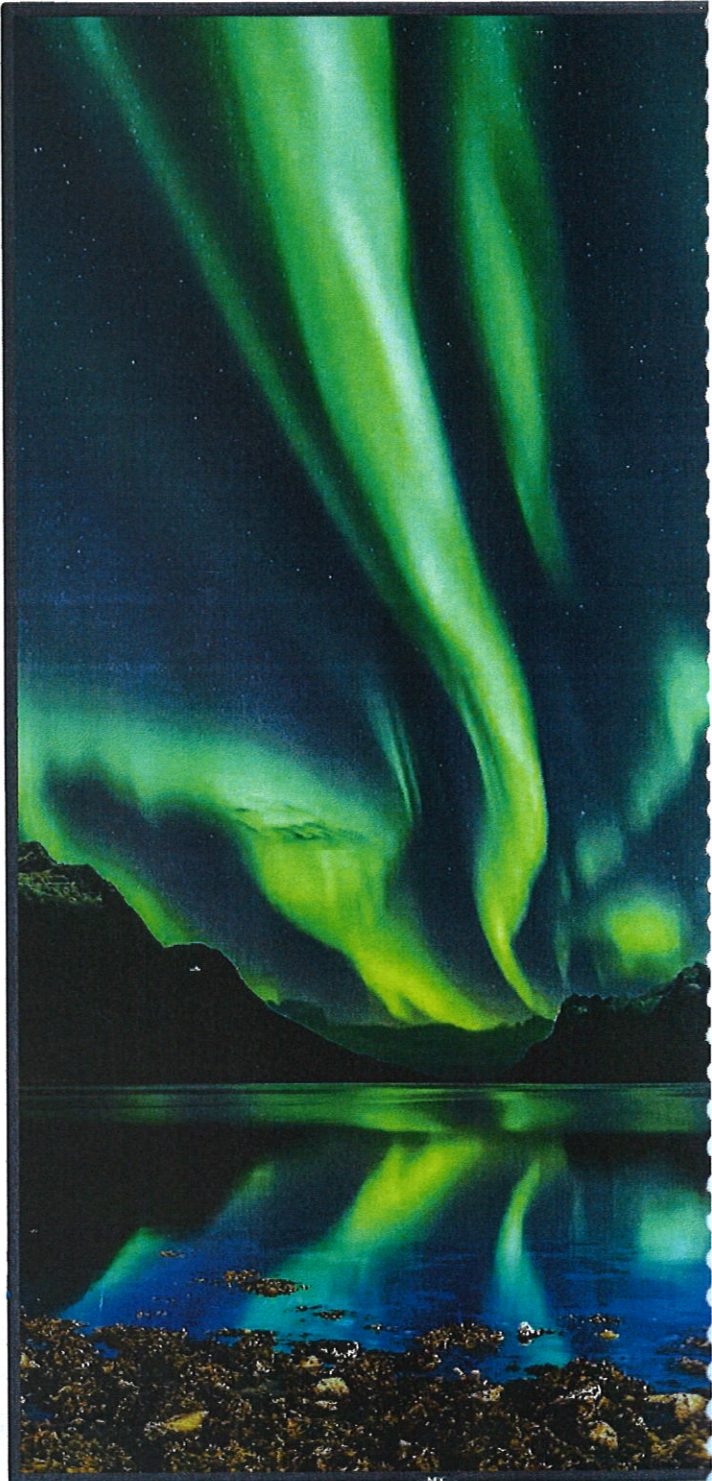


Advanced Heat Management

Monitoring and managing the temperature of each display is crucial to secure reliability and longevity. An industrial-strength, premium-grade panel with additional thermal protection, internal temperature sensors with self-diagnostics, and fan-based technology allows for 24/7 operation, and protects your display investment. Without thermal management, displays can be prone to damaging heat over time. This damaging heat will lower the picture quality and life expectancy of the product. Integrated cooling fans automatically turn on and stay on when high internal temperatures are detected. These will stay on until the heat is properly dissipated and the display remains under proper temperature thresholds.



Location of Thermal Management Cooling Fans



Anti-Glare Panel

Each of the new large C series commercial displays come equipped with a high haze panel that scatters ambient lighting rather than reflecting it like most other displays. This allows for content to always be viewable and onlookers to have perfect screen readability in any situation.



With Anti-Glare



Without Anti-Glare

Blue ON LED and Ambient Light Sensor

New mechanical structure allows for sleeker LED and ambient light sensor design. Auto dimming of the LED backlights can be utilized through the ambient light sensor allowing for the brightness to change depending on the external lux in the room of installation.



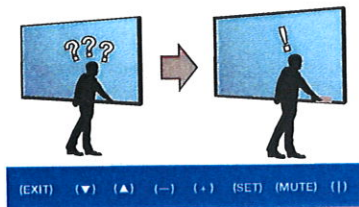
SpectraView Engine

Enhanced imaging performance through advanced settings of all relevant parameters allow full control of brightness, color, gamma and uniformity via integrated color-critical chipset.



Key Guide

New Key Guide function allows for easier access to buttons when manually controlling the unit via the buttons on the back of the display by adding a graphic on the screen that directs the customer to the correct button layout in both landscape and portrait modes.



Aesthetically Focused Design

Brand new mechanical design focuses on smooth, sleek curves, thinner bezels, reduced depth and reduced overall weight while maintaining the quality and reliability for efficient 24/7 runtime capabilities.



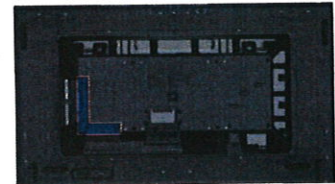
NaViSet Administrator 2

This software is an all-in-one remote support solution that runs from a central location and provides monitoring, asset management and control functionality of the majority of NEC display devices and Windows computers. It is ideal for multi-device installations over larger infrastructures.



L-Shaped Connectivity

Connectivity is located on both the bottom and side of the display to allow for easy access regardless of orientation.



Intelligent Wireless Data Function

The built-in near field communication (NFC) chip allows data to be read and written via a mobile phone or tablet PC. Users can significantly reduce installation costs as displays can be easily configured and serviced using the NEC NFCAndroid app. This is extremely useful for larger rollouts as it can be utilized even when the display is powered off.



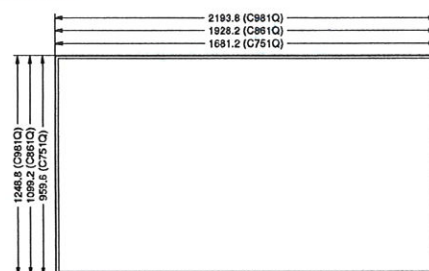
Removable Logo

When mounting from Landscape to Portrait orientation, there is now the ability to change the orientation of the logo or remove it all together.



MODEL	C751Q	C861Q	C981Q			
LCD MODULE	Panel Technology			E-LED, S-IPS	D-LED, S-IPS	
	Viewable Image Size			75"	86"	98"
	Native Resolution			3840 x 2160		
	Brightness (Typical/Maximum)			245 cd/m ² / 350 cd/m ²		
	Contrast Ratio (Typical)			1200:1 native, not including localized dimming		1300:1 native, not including localized dimming
	Viewing Angle			178° Vert., 178° Hor. (B9U/B9D/B9U/B9R) @ CR>10		
	Aspect Ratio			16:9		
	Displayable Colors			Over 1.07 Billion		
	Orientation			Landscape and Portrait		
	Panel Haze (%)			28		
	CONNECTIVITY	Input Terminals			HDMI 2.0 x3 (with HDCP), DisplayPort 1.2 x2 (with HDCP)	
Digital			None			
Audio			3.5mm Mini Jack, HDMI Audio x3, DisplayPort Audio x2			
External Control			LAN (100Mbit), 3.5 Mini Jack IR Remote, RS232C			
Data			microSD (Media Player), USB 2.0 (Media Player), USB 2.0 (Service), USB Type-B (Upstream), USB 2.0 x2 (Compute Module, USB CM1 is Powered 5V/2A)			
Output Terminals			DisplayPort (Outputs DisplayPort1 and OPS (1CH DisplayPort Only))			
Analog			None			
Audio			3.5mm Audio Mini Jack, External Speaker Jack x2			
External Control			LAN (100Mb)			
POWER CONSUMPTION		On (Typ/Max Brightness/Overall Max)			195W/250W/375W	230W/300W/425W
	Network Standby			2W		
	Normal Standby			0.5W		
	Current Rating			4.4A @ 100V, 1.9A @ 240V	5.0A @ 100V, 2.1A @ 240V	6.1A @ 100V, 2.6A @ 240V
	Speaker Rating			Integrated 10W x 2, Optional 15W x 2		
PHYSICAL SPECIFICATIONS	Bezel Width (UR, T/B)			14.8mm/14.8mm/ 14.8mm/14.8mm	15.3mm/15.3mm/ 15.3mm/15.3mm	15.9mm/15.9mm/ 15.9mm/15.9mm
	Net Dimensions (Without stand; W x H x D)			66.2 x 37.8 x 2.8in. 1681.2 x 959.6 x 71.1mm	75.9 x 43.3 x 2.9in. 1928.2 x 1099.2 x 74.3mm	86.4 x 49.2 x 3.7in. 2193.8 x 1248.8 x 93.0mm
	Net Weight (Without Stand)			115.7lbs / 52.6kg	127.2 lbs / 57.8kg	198.6 lbs / 90.0kg
	VESA Hole Configuration			8x M8 x 16mm (600 x 400, 400 x 400)		
	Sensors			Ambient Light Sensor: Integrated and programmable Human Sensor: Optional through KT-RC2 Accessory Temperature Sensor: Integrated and programmable; linked to cooling fans NFC Sensor: Integrated, works in conjunction with free NEC Intelligent Wireless Data Application		
ENVIRONMENTAL CONDITIONS	Operating Temperature			0 to 40C		
	Operating Humidity			20-80%		
	Operating Altitude			3000m (9843R)		
LIMITED WARRANTY	3 years Advanced Replacement					
ADDITIONAL FEATURES	HDR Gamma Support (HLG and PQ), Localized Dimming, Ambient Light Sensor, AMX Support, Auto ID/Auto TileMatrix, Automated Email Alert Function, CEC Support through HDMI, Crestron Roomview Support, DICOM Simulation, Display Browser Control, Display Wall Calibrator Compatible, High Haze Panel, Image Flip, Intelligent Wireless Data (NFC), Key Guide, Media Player through Browser Control/SD Card/USB, Multi Picture Mode, NaViSet Administrator 2 Compatible, OSD Rotation for Portrait Orientation, OPS Compatible, PJ Link Support, Point Zoom Function, Power USB Port (5V/2A), Programmable LUT x3, Raspberry Pi Compute Module Compatible, Removable Logo Ornament, Real Time Clock, SpectraView Engine Support, SNMP Support, 24-Hour Scheduler Function					
SHIPS WITH	3m AC Power Cord, 1.8m HDMI cable, 1.8m DisplayPort Cable, IR Remote Control, Batteries, CD-ROM (User Manual)					
OPTIONAL ACCESSORIES	Table Top Stand (ST-801), Optional Speakers (SP-TF1), All OPS Option Cards, Raspberry Pi Compute Module 1 and 3 with optional NEC Interface Board, Large Wall Mount (WMK-6598), Regular Wall Mount (WMK-3257 for, V754Q, and V864Q only) Slim Wall Mount (WMK-3255S for V754Q/V864Q), Human Sensor (KT-RC2)					

Dimensions



Options

OPS PC's

OPS-PCAEQ-PS2

OPS-APIS-PS

OPS-TCIS-PS



SDI

HD-SDI SB-01HC

3G-SDI SB-04HC



HDBaseT SB-07BC



Compute Module

Compute Module Interface Board DS1-1F10CE

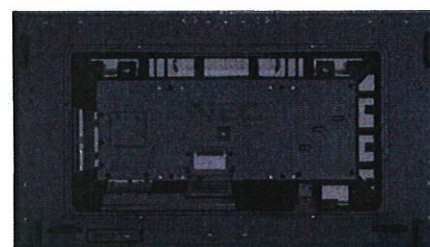
NEC Raspberry Pi Compute Module RP3CM16GB



Tabletop Stand ST-801

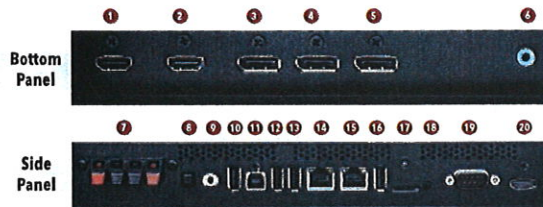


Speaker SP-TF1



Input Panels

- | | |
|-------------------------------------|---------------|
| 1. HDMI IN2 | 13. USB CM2 |
| 2. HDMI IN3 | 14. LAN1 |
| 3. DisplayPort IN2 | 15. LAN2 |
| 4. DisplayPort IN1 | 16. USB MP |
| 5. DisplayPort OUT | 17. microSD |
| 6. Audio IN | 18. REMOTE IN |
| 7. External Speaker Terminal | 19. RS-232C |
| 8. Internal/External Speaker Switch | 20. HDMI IN1 |
| 9. Audio OUT | |
| 10. USB1 | |
| 11. USB2 | |
| 12. USB CM1 (2A) | |

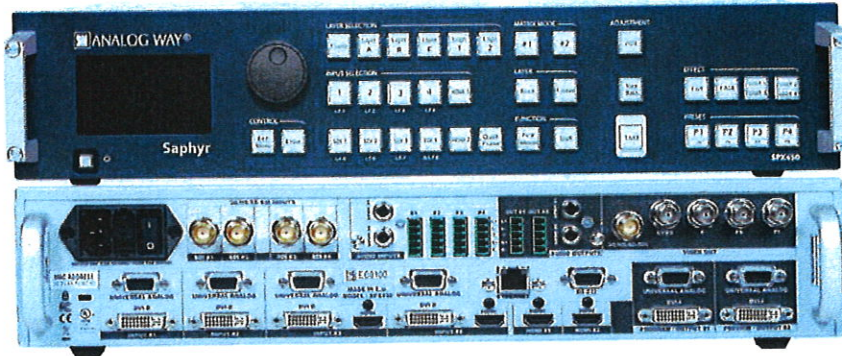


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Saphyr - Ref. SPX450

Mezclador Seamless Switcher Multi-Capa de Alta Resolución con 10 entradas y Matriz nativa



ENTRADAS



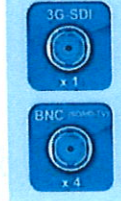
PROGRAMA/ SALIDA #1



PREVIO/ SALIDA #2



SALIDA VIDEO



CARACTERÍSTICAS



Saphyr

- ▶ Plataforma Midra™
- ▶ Nuevo Software de Control Remoto: RCS² (Windows, Mac & Linux)
- ▶ Rapidez en el procesamiento y las conmutaciones
- ▶ 2 modos de trabajo: Mezclador, Matriz Nativa
- ▶ Hasta 3 capas sobre Background fijo
- ▶ Retardo muy bajo
- ▶ Audio Digital compatible con DVI-D & HDMI
- ▶ Avanzado control de audio con el RCS²
- ▶ Rápido enrutamiento del audio
- ▶ Modo Quick Frame
- ▶ Nueva gestión EDID en 6 entradas
- ▶ Capacidad para leer y mostrar los datos EDID de salida
- ▶ Nuevo procesamiento desentrelazado
- ▶ Formatos de salida personalizados
- ▶ Posibilidad de trabajar sobre la salida de Programa sin pasar por el Previo
- ▶ Nuevas características de Congelado (Entrada/capa/pantalla)
- ▶ Nuevos Ajustes Automáticos
- ▶ Capacidad de conmutación entre cualquier entrada (16 conectores disponibles)
- ▶ Nuevo filtro 3D para las fuentes SDTV
- ▶ Salidas totalmente redimensionables
- ▶ Posibilidad de cropear los Frames y Logos
- ▶ Nuevo Previo en modo Mosaico
- ▶ Nueva presentación en el Previo en OSD (gran número de información)
- ▶ Salida de vídeo (CVBS, YPbPr, 3G-SDI)

Características más importantes

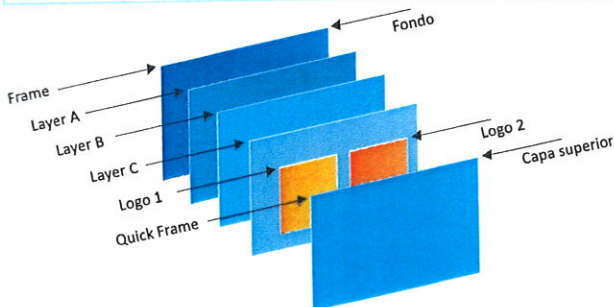
- 10 entradas Seamless
- 2 salidas (Programa y Previo)
- 16 conectores disponibles en las entradas (4xDVI-D, 4xHDMI, 4xAnálogicas Universales & 4x3G/HD/SD-SDI)
- Resolución informática hasta 2K
- Todas las capas en vivo: Redimensionables
- Capa: Pan & Zoom ampliable hasta un 1000%
- Capa: Efectos de Entrada / Salida
- Capa: Borde y Sombra (Borde: 1 Color, 1 Ancho, 1 Alto)
- Transiciones: Fade (Fundido), Corte, Cortinillas y Desplazamiento
- Capa Dinámicos (Transiciones de A a B) con Giro, Zoom o Cropeado
- El Audio de todas las entradas puede ser embebido o desembebido
- Audio en modo breakaway
- Capa superior de Audio
- Rápido enrutamiento del audio
- Compensación del Retardo del Audio
- Audio estéreo balanceado en todas las salidas
- 2 S/PDIF de entrada y 2 S/PDIF de salida
- Test patterns internos
- Croma/Luma Key y Titulación
- 8 Presets de Memoria por salida
- 8 Full Frames, 8 memorias de Logo & 1 Logo animado
- HDCP Compatible
- Previo en modo Mosaico: 1 imagen en vivo y 9 con refresco rápido o 10 imágenes con refresco rápido

Saphyr controlable por

- ▶ RCS²: Software de Control Remoto
 - ▶ RK-350: Panel Remoto
 - ▶ ORC50: Controladora remota Orchestra
 - ▶ VRC300: Controladora remota High-End Ver-tige (disponible a principios de 2016)
 - ▶ Modulos Crestron: Serie 2 & Serie 3*
 - ▶ Modulos AMX*
- *Disponibles en www.analogway.com

Modos de Trabajo

- 2 modos de trabajo: Mezclador, Matriz Nativa
- Seamless switching en modo Mezclador y Previo 1 capa
- Seamless switching en modo Matriz Nativa
- 1 Titulación sobre Background vivo, en modo Mezclador o Matriz Nativa
- 1 Titulación + 1 capa sobre Background fijo en modo Mezclador o Matriz Nativa
- 1 capa sobre Background fijo en modo Mezclador o Matriz Nativa
- 1 capa sobre Background vivo en modo Mezclador
- 2 capas sobre Background vivo en modo Mezclador
- 3 capas sobre Background fijo en modo Mezclador

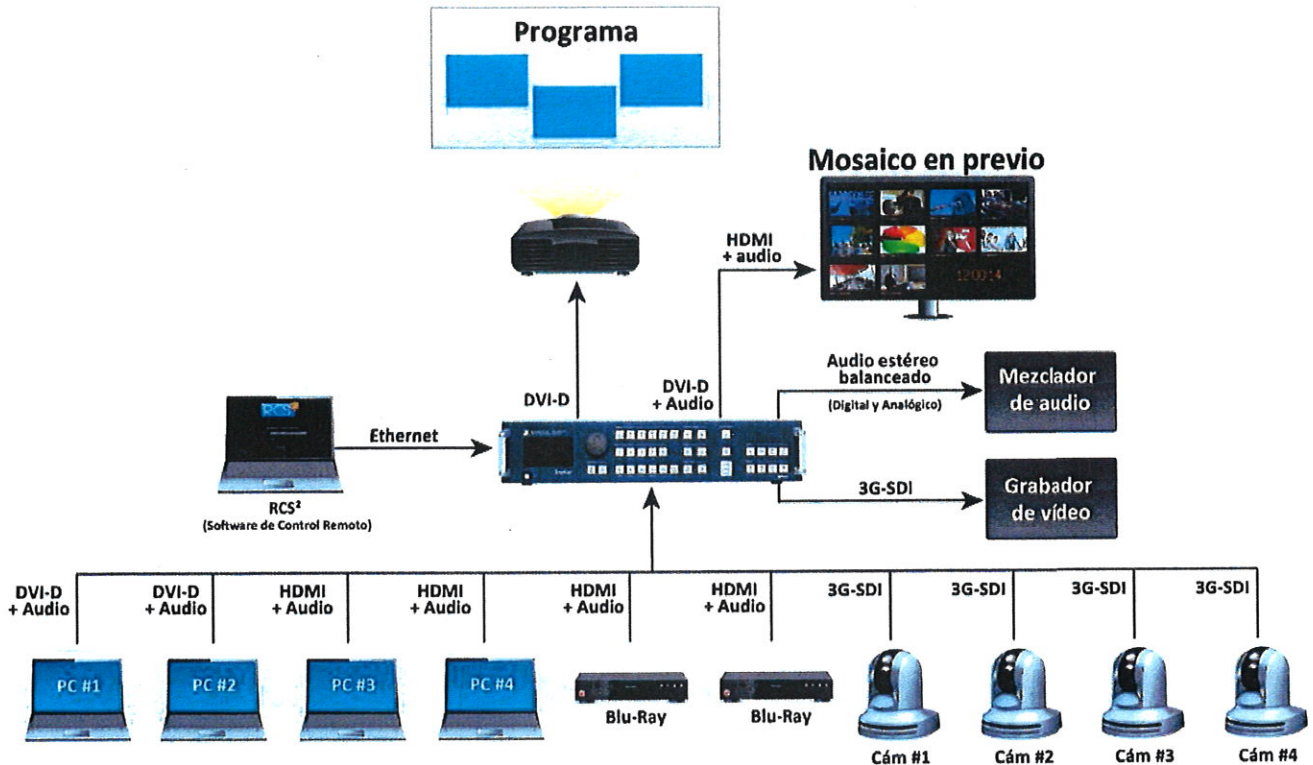


El Quick Frame permite de forma instantánea poner un Frame memorizado sobre todas las capas.

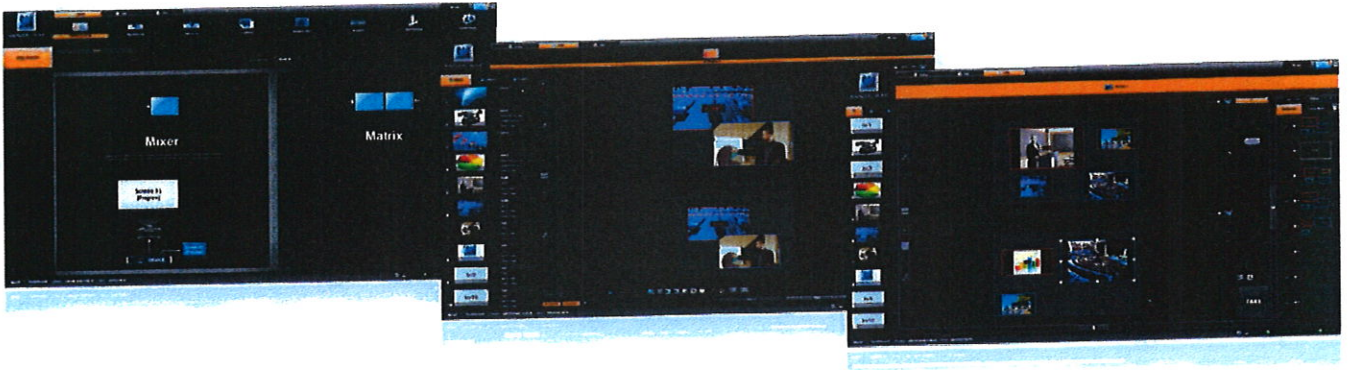


ANALOG WAY
Pioneers in Analog, Leaders in Digital

► Configuración de Mezclador



- El RCS² presenta un interface amigable consistente en 3 secciones independientes: Setup (configuración), Edit (Edición) y Live (Directo). Un modo Preconfig (pre configuración), nos indica de un modo sencillo configurar paso a paso el sistema. Es compatible con las últimas versiones de Windows™ y Apple OS™ (Adobe Air™).
- Por medio de los presets en forma de miniaturas, permite que los operadores puedan preparar sus eventos y utilizarlos en el directo.
- Una secuencia innovadora permite organizar los presets y utilizarlos, pinchando y arrastrando.



Dimensiones:

- D 15.75" x W 17.3" x H 3.46"
- D 400 mm x W 440 mm x H 88 mm

Peso:

- 6,3 Kgs
- 13,9 lbs

Alimentación:

100-240 VAC ; 2.5A ; 50/60Hz ; 110W

Se suministra con:

- 1 x cable de alimentación
- 1 x Cable Ethernet cruzado
- 1 x Software de Control Remoto (RCS²)*
- 1 x Set compuesto de 6 terminales Phoenix de 5 pines
- 1 x Kit para Rack 19"
- 1 x Manual de Usuario (PDF)*
- 1 x Guía rápida

Garantía:

Tres años sobre componentes y mano de obra en fábrica.



*Todos los manuales, Guías rápidas y el RCS² están disponibles en www.analogway.com



Especificaciones sujetas a cambios sin previo aviso

Todas las especificaciones técnicas están disponibles en nuestro sitio web

SHURE®

LEGENDARY
PERFORMANCE™

ULX-D® Wireless Systems



ULX-D® DIGITAL WIRELESS SYSTEMS

Shure ULX-D™ Digital Wireless offers uncompromising 24-bit audio clarity and extremely efficient RF performance with single, dual, and quad channel receivers for any size professional sound reinforcement application. Generations ahead of any other available system in its class, ULX-D brings a new level of performance to professional sound reinforcement.

Uncompromising Professional Digital Wireless

- 24-bit/48 kHz digital audio that delivers incredibly clear and accurate sound reproduction
- 20 Hz – 20 kHz frequency range with flat response
- Greater than 120 dB dynamic range
- Wide selection of trusted Shure Microphones

Extremely Efficient and Reliable RF Performance

- Up to 64 MHz overall tuning range (region dependent)
- Up to 17 active transmitters in one 6 MHz TV channel (22 on an 8 MHz TV channel)
- High Density mode enables up to 63 active transmitters in one 8 MHz TV channel
- Rock-solid signal stability with no audio artifacts over the entire 100 meter range
- Optimized scanning automatically finds, prioritizes, and selects the cleanest frequencies available

Scalable, Intelligent Hardware

- Single (half-rack), Dual and Quad (full-rack) receiver form factors
- AES 256-bit encryption equipped for secure wireless transmission
- Dante™ digital networked audio over Ethernet
- Wireless Workbench® 6 software compatible for advanced coordination, monitoring, and control
- Compatible with the Shure SB900A Rechargeable Battery and SBC chargers

APPLICATIONS

Installed Sound

Critical Audio
Performances

High channel counts

Secure Presentation

PRODUCT HIGHLIGHTS

24-bit/48 kHz Digital
Wireless Audio

High Density Mode

Single, Dual, and Quad
Channel Receivers

Advanced Rechargeability

Dante™ Networked Audio
over Ethernet

ULX-D System Specifications

RF Carrier Range	174 - 216 MHz, 470 - 865 MHz, 1492 - 1525 MHz, 1785 - 1805 MHz, varies by region (See Frequency Range and Output Power table)
Working Range	100 m Note: Actual range depends on RF signal absorption, reflection and interference.
RF Tuning Step Size	25 kHz, varies by region
Image Rejection	>70 dB, typical
RF Sensitivity	-98 dBm at 10 ⁻⁶ BER
Latency	<2.9 ms
Audio Frequency Response	ULXD1: 20 Hz – 20 kHz (±1 dB) ULXD2: 30 Hz – 20 kHz (±1 dB) Note: Dependent on microphone type
Audio Dynamic Range	XLR Analog Output: >120 dB, A-weighted
System Gain @ +10	Dante Digital Output (Dual and Quad receivers): 130 dB (typical), A-weighted
Total Harmonic Distortion	<0,1%
-12 dBFS input, System Gain @ +10	
System Audio Polarity	Positive pressure on microphone diaphragm produces positive voltage on pin 2 (with respect to pin 3 of XLR output) and the tip of the 6.35 mm output.
Operating Temperature Range	-18°C to 50°C Note: Battery characteristics may limit this range.
Storage Temperature Range	-29°C to 74°C Note: Battery characteristics may limit this range.

Frequency Range

Band	Range (MHz)	Transmitter Output (mW)
V51	174 to 216	1/10/20
G50	470 to 534	1/10/20
G51	470 to 534	1/10/20
G52	479 to 534	1/10
H51	534 to 598	1/10/20
H52	534 to 565	1/10
J50	572 to 636	1/10/20
K51	606 to 670	1/10/20
L50	632 to 696	1/10/20
L51	632 to 696	1/10/20
P51	710 to 782	1/10/20
R51	800 to 810	1/10/20
JB (Tx only)	806 to 810	1/10
AB (Rx and Tx)	770 to 810	"A" band (770.250-805.750): 1/10/20 "B" band (806.125-809.750): 1/10
Q51	794 to 806	1/10/20
X50	925 to 932	1/10
Z17	1492 to 1525	1/10/20
Z18	1785 to 1805	1/10/20

* accessible via password

Furnished Accessories

All Systems	
PS43*	Power supply
95T9279*	1/2 Wave Receiver Antenna (2)
95K2035	2' BNC Cable (2)
98A8994	BNC Bulkhead Adapter (2)
90AZ8100	Rackmount Hardware kit
95A16941	5' ethernet cable
80B8201	2 x AA batteries (bodypack systems)
Handheld Systems	
95T9279	Microphone Clip (handheld systems)
95B2313	Handheld Zipper Bag (bodypack systems)
Bodypack Systems	
95G9043*	Bodypack Antenna
95A2313	Bodypack Zipper Bag (bodypack systems)

* region specific part # (US part listed)

NOTE:

This Radio equipment is intended for use in professional sound reinforcement and similar applications. This Radio apparatus may be capable of operating on some frequencies not authorized in your region. Please contact your national authority to obtain information on authorized frequencies and RF power levels for wireless microphone products.

Rechargeable Power Management (sold separately)

SB900A Rechargeable Battery

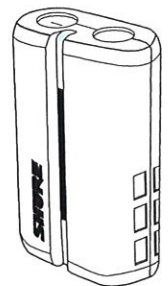
ULX-D transmitters are compatible with the SB900A lithium-ion rechargeable battery, which provides up to 11 hours of continuous use and precise tracking of remaining life and charge cycle details.

SBC200 Dual Docking Recharging Station

This compact and portable unit charges batteries while in transmitters or out. Up to 4 SBC200's can be chained together to run off one power supply.

SBC800 Eight Battery Recharging Station

This compact and portable unit charges up to 8 SB900A batteries to full capacity within 3 hours, with status LEDs to indicate power levels. SB900A batteries fit securely in the charger for easy, efficient storage and transport.



Battery Runtime (ULXD1 & ULXD2)

Battery Type	1 mW	10 mW	20 mW
SB900A	<11 hours	<11 hours	>7 hours
Alkaline	<10 hours	<10 hours	<5,5 hours
NiMH	<10 hours	<10 hours	<8 hours
Li-primary	12.5-18 hours	12.5-18 hours	9.5-12 hours

ULXD2 Wireless Handheld Transmitter

Overview

The Shure ULXD2 is a handheld wireless transmitter compatible with ULX-D™ Digital Wireless Systems. Offering premium 30 Hz – 20 kHz audio quality, advanced rechargeability options, and a wide selection of interchangeable Shure microphone heads, the ULXD2 delivers uncompromising wireless performance for professional sound reinforcement applications. The ULXD2 is offered with SM58®, SM86, SM87A, Beta 58A®, Beta 87A, Beta 87C, and KSM9.

- 30 Hz to 20 kHz range with flat frequency response (actual response is microphone dependent)
- Interchangeable Shure microphone cartridges, including the legendary SM58®
- >120 dB dynamic range
- 1, 10, and 20 mW selectable RF output power
- 5 segment battery fuel gauge
- Shure lithium-ion rechargeable battery pack provides up to 11 hours of battery life, precision metering in hours and minutes, and zero memory effect
- Up to 11 hours continuous use with 2 x AA batteries
- Backlit LCD with easy to navigate menu and controls
- 100 meter operating range
- Rugged metal construction
- Independent frequency and power lockout

Product Specifications

Gain Offset Range	0 to 21 dB (in 3 dB steps)
Battery Type	Shure SB900A Rechargeable Li-Ion or AA/LR6 batteries (1,5 V)
Battery Runtime @ 10 mW	Shure SB900A: >11 hours Alkaline: 11 hours (See Battery Runtime Chart)
Dimensions	256 mm x 51 mm L x Dia.
Weight	340 g, with SM58 head, without batteries
Housing	Machined aluminum

Audio Input

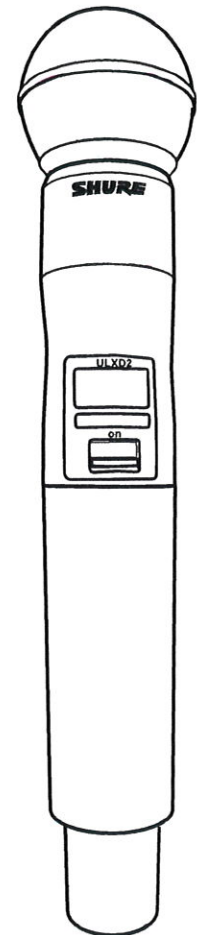
Configuration	Unbalanced
Maximum Input Level 1 kHz at 1% THD	145 dB SPL (SM58), typical Note: Dependent on microphone type
Preamplifier Equivalent Input Noise (EIN) System Gain Setting ≥ +20	120 dBV, A-weighted, typical

RF Output

Antenna Type	Integrated Single Band Helical
Occupied Bandwidth	<200 kHz
Modulation Type	Shure Proprietary Digital
Power	1 mW, 10 mW, 20 mW (See Frequency Range and output power table, varies by region)

Microphone Options

ULXD2/SM58	ULXD2 Handheld Transmitter with SM58 Cardioid Microphone
ULXD2/SM86	ULXD2 Handheld Transmitter with SM86 Cardioid Microphone
ULXD2/SM87A	ULXD2 Handheld Transmitter with SM87A Supercardioid Microphone
ULXD2/BETA 58	ULXD2 Handheld Transmitter with Beta 58A Supercardioid Microphone
ULXD2/BETA 87A	ULXD2 Handheld Transmitter with Beta 87A Supercardioid Microphone
ULXD2/BETA 87C	ULXD2 Handheld Transmitter with Beta 87C Cardioid Microphone
ULXD2/KSM9	ULXD2 Handheld Transmitter with KSM9 Cardioid/Supercardioid Microphone
ULXD2/KSM9HS	ULXD2 Handheld Transmitter with KSM9HS Hypercardioid/Subcardioid Microphone
ULXD2/KSM8	ULXD2 Handheld Transmitter with KSM8 Cardioid Microphone



ULXD2 Wireless Handheld Transmitter

ULXD4 Digital Wireless Receiver

Overview

The Shure ULXD4 is a half-rack wireless receiver for use with ULX-D™ Digital Wireless Systems. With an expansive set of professional features, including 24-bit/48kHz digital audio quality, efficient and intelligent RF performance, and AES 256-bit encryption, ULX-D offers uncompromising wireless tailored for professional sound reinforcement.

- Up to 72 MHz tuning range
- Digital predictive switching diversity
- Intelligent scanning automatically finds the cleanest frequencies to be manually deployed to transmitters over IR sync
- Interference detection and alerts provided on both the receiver and WWB6
- Front panel gain adjustment buttons provide up to 60 dB additional gain
- AES 256-bit encryption-enabled for applications where secure transmission is needed
- Ethernet networking for streamlined setup across multiple receivers, WWB6 integration (coming soon), and AMX and Crestron control
- Support for frequency coordination with Axient Spectrum Manager (coming soon)
- Rugged metal chassis
- Intuitive front panel LCD menu and controls
- Easily readable LCD with adjustable contrast and brightness
- Audio and RF LED meters with peak indicator
- Various options of front panel lockout
- XLR and 1/4" outputs
- Removable 1/2 wave antennas
- Furnished rack hardware, antenna front mount cables, and ethernet cable

Product Specifications

Dimensions	197 mm x 171 mm x 42 mm, H x W x D
Weight	913 g, without antennas
Housing	Galvanized Steel

RF Input

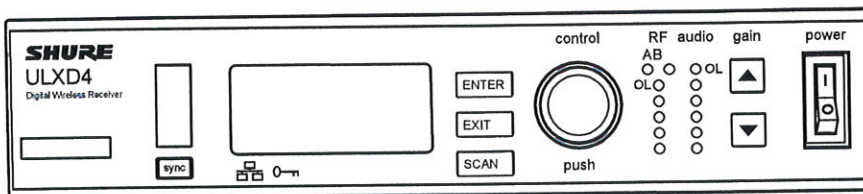
Spurious Rejection	>80 dB, typical
Connector Type	BNC
Impedance	50 Ω
Bias Voltage	12 - 13 V DC, 170 mA maximum, per antenna

Audio Output

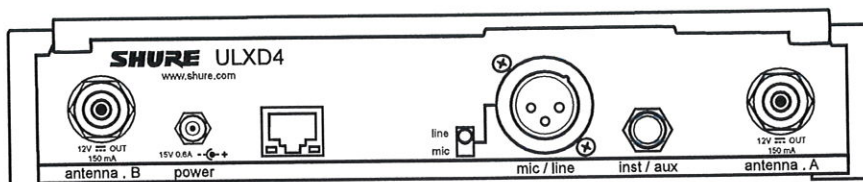
Gain Adjustment Range	-18 to +42 dB in 1 dB steps (plus Mute setting)
Configuration	1/4" (6.35 mm): Impedance balanced (Tip = audio, Ring = no audio, Sleeve = ground) XLR: Balanced (1 = ground, 2 = audio +, 3 = audio -)
Impedance	1/4" (6.35 mm): 100 Ω (50 Ω Unbalanced) XLR: 100 Ω
Full Scale Output	1/4" (6.35 mm): +12 dBV XLR: LINE setting = +18 dBV, MIC setting = -12 dBV
Mic/Line Switch	30 dB pad
Phantom Power Protection	1/4" (6.35 mm): Yes XLR: Yes

Networking

Power Over Ethernet (PoE)	No, protected
Network Interface	Single Port Ethernet 10/100 Mbps
Network Addressing Capability	DHCP or Manual IP address
Maximum Ethernet Cable Length	100 m



ULXD4 Front Panel



ULXD4 Back Panel

ULXD4D Dual Channel Digital Wireless Receiver

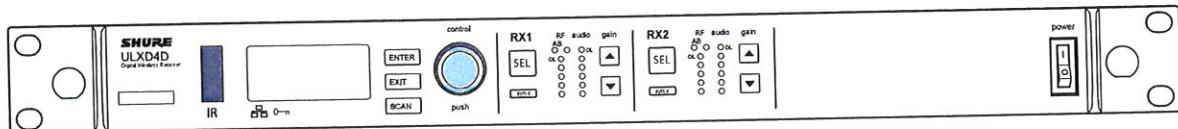
Overview

The Shure ULXD4D Dual Channel Digital Wireless Receiver offers two channels of uncompromising audio quality, RF signal stability, and advanced setup features in a space-efficient single rack unit. Digital wireless processing delivers premium 24-bit/48 kHz audio and RF spectrum efficiencies that dramatically increase the number of available compatible channels. With an expansive set of enhanced features including AES 256-bit encryption for security and Dante™ digital networking for audio over Ethernet, the ULXD4D brings a new level of performance to professional sound reinforcement.

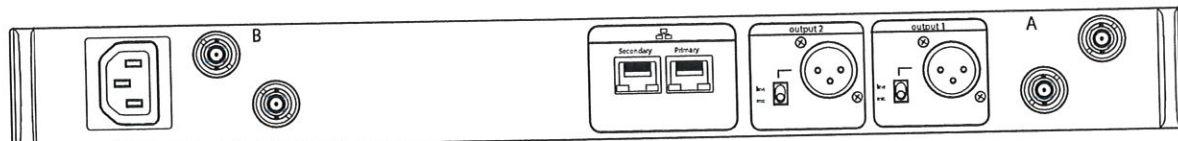
- Two receivers in a rugged 1RU metal chassis with internal power supply
- Up to 72 MHz tuning range (region dependent)
- Digital predictive switching diversity
- High Density mode optimizes ULX-D systems to simultaneously operate significantly more channels in applications up to 30 meters
- RF cascade ports allow distribution of RF signal to another unit
- Optimized scanning automatically finds, and prioritizes the cleanest frequencies to be manually deployed to transmitters over IR sync
- Bodypack Frequency Diversity ensures uninterrupted audio for mission-critical applications
- AES 256-bit encryption-enabled for secure transmission
- Audio summing routes both audio channels to each XLR receiver output
- Dante™ digital networked audio over Ethernet
- Individual gain controls, LED meters, and XLR outputs for each channel
- Up to 60 dB independently adjustable gain for each channel
- Ethernet networking for streamlined frequency coordination and deployment across multiple receivers
- Wireless Workbench® 6 (WWB6) software integration for advanced coordination, monitoring, and control (coming soon)
- AMX and Crestron control
- AXT600 Axient™ Spectrum Manager compatible
- Interference detection and alerts provided on both the receiver and WWB6
- Intuitive front panel LCD menu and controls with various options of lockout
- Audio and RF LED meters with peak indicator
- XLR connectors with switchable mic/line output level
- Remoteable ½ wave antennas
- Ethernet cable included

Product Specifications

Dimensions	44 mm x 482 mm x 274 mm, H x W x D
Weight	3.36 Kg, without antennas
Housing	Steel; Extruded Aluminum
Power Requirements	100 to 240 V AC, 50 - 60 Hz, 0.26 A max.
RF Input	
Spurious Rejection	>80 dB, typical
Connector Type	BNC
Impedance	50 Ω
Bias Voltage	12 - 13 V DC, 150 mA maximum, per antenna
Audio Output	
Gain Adjustment Range	-18 to +42 dB in 1 dB steps (plus Mute setting)
Configuration	XLR: Balanced (1 = ground, 2 = audio +, 3 = audio -)
Impedance	100 Ω
Full Scale Output	LINE setting = +18 dBV, MIC setting = -12 dBV
Mic/Line Switch	30 dB pad
Phantom Power Protection	Yes
Networking	
Network Interface	Dual Port Ethernet 10/100 Mbps, 1 Gbps
Network Addressing Capability	DHCP or Manual IP address
Maximum Ethernet Cable Length	100 m
RF Cascade Output	
Connector Type	BNC: For connection of 1 additional receiver
Configuration	Unbalanced, passive
Impedance	50 Ω
Insertion Loss	0 dB



ULXD4D Front Panel



ULXD4D Back Panel

ULXD4Q Quad Channel Digital Wireless Receiver

Overview

The Shure ULXD4Q Quad Channel Digital Wireless Receiver offers four channels of uncompromising audio quality, RF signal stability, and advanced setup features in a space-efficient single rack unit. Digital wireless processing delivers premium 24-bit/48 kHz audio and RF spectrum efficiencies that dramatically increase the number of available compatible channels. With an expansive set of enhanced features including AES 256-bit encryption for security and Dante™ digital networking for audio over Ethernet, the ULXD4Q delivers the most wireless performance in a single rack space.

- Four receivers in a rugged 1RU metal chassis with internal power supply
- Up to 72 MHz tuning range (region dependent)
- Digital predictive switching diversity
- High Density mode optimizes ULX-D systems to simultaneously operate significantly more channels in applications up to 30 meters
- RF cascade ports allow distribution of RF signal to another unit
- Optimized scanning automatically finds, and prioritizes the cleanest frequencies to be deployed to transmitters over IR sync
- Bodypack Frequency Diversity ensures uninterrupted audio for mission-critical applications
- AES 256-bit encryption-enabled for secure transmission
- Audio summing routes two or more audio channels to combinations of receiver outputs. Use each channel's gain adjustment to reach the desired mix
- Dante™ digital networked audio over Ethernet
- Individual gain controls, LED meters, and XLR outputs for each channel
- Up to 60 dB independently adjustable gain for each channel
- Ethernet networking for streamlined frequency coordination and deployment across multiple receivers
- Wireless Workbench® 6 software integration for advanced coordination, monitoring, and AMX and Crestron control
- Compatible with the AXT600 Axient™ Spectrum Manager
- Interference detection and alerts provided on both the receiver and WWB6
- Intuitive front panel LCD menu and controls with lockout feature
- LCD with adjustable contrast and brightness
- Audio and RF LED meters with peak indicator
- XLR connects with switchable mic/line output level
- Remoteable ½ wave antennas

Product Specifications

Dimensions	44 mm x 482 mm x 274 mm, H x W x D
Weight	3.45 Kg, without antennas
Housing	Steel; Extruded Aluminum
Power Requirements	100 to 240 V AC, 50-60 Hz, 0,32 A max.

RF Input

Spurious Rejection	>80 dB, typical
Connector Type	BNC
Impedance	50 Ω
Bias Voltage	12 - 13 V DC, 150 mA maximum, per antenna

Audio Output

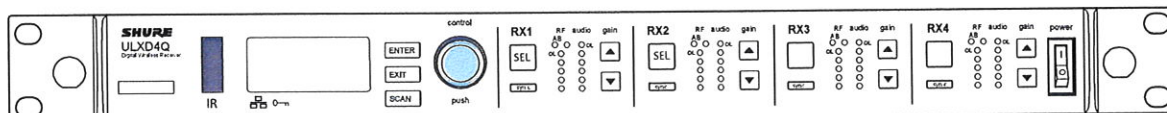
Gain Adjustment Range	-18 to +42 dB in 1 dB steps (plus Mute setting)
Configuration	XLR: Balanced (1 = ground, 2 = audio +, 3 = audio -)
Impedance	100 Ω
Full Scale Output	LINE setting = +18 dBV, MIC setting = -12 dBV
Mic/Line Switch	30 dB pad
Phantom Power Protection	Yes

Networking

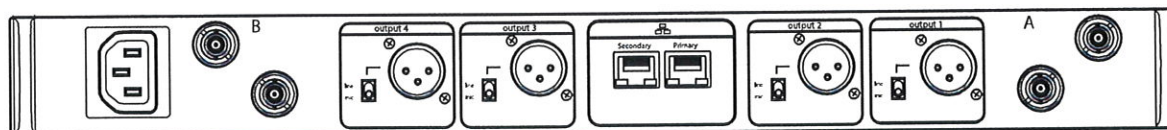
Network Interface	Dual Port Ethernet 10/100 Mbps, 1 Gbps
Network Addressing Capability	DHCP or Manual IP address
Maximum Ethernet Cable Length	100 m

RF Cascade Output

Connector Type	BNC: For connection of 1 additional receiver
Configuration	Unbalanced, passive
Impedance	50 Ω
Insertion Loss	0 dB



ULXD4Q Front Panel



ULXD4Q Back Panel

ULXD6 Wireless Boundary Transmitter

Overview

The ULXD6 wireless boundary transmitter combined with ULX-D or QLX-D digital receiver deliver uncompromising digital audio clarity and solid RF performance in a form factor that fits perfectly in business settings.

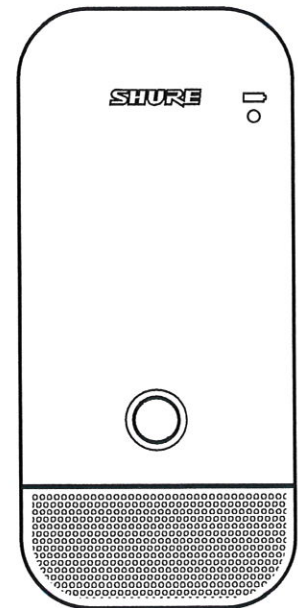
- Available in UHF TV band
- AES 256-bit encryption for secure transmission
- Low-profile boundary form factor for meetings and events where quick setup and teardown is important
- Very short latency (<3 msec)
- Long transmission range (up to 300 feet / 100 meters)
- SB900A rechargeable battery pack provides up to 9 hours of battery life
- Standard AA alkaline batteries are additional power options
- SBC450 (4-bay) and SBC850 (8-bay) Networked Charging Stations for docked charging of 4 or 8 ULXD6 transmitters
- Configurable Mute button (Toggle, Push-to-Mute, Push-to-Talk, disabled) and Mute LED behavior
- Adjustable RF power, high-pass filter, and power lock settings

Product Specifications

Gain Offset Range	0 to 21 dB (in 3 dB steps)
Battery Type	Shure SB900A Rechargeable Li-Ion or AA/LR6 batteries (1.5 V)
Battery Runtime @ 10 mW	Shure SB900A: up to 9 hours 20 minutes Alkaline: up to 8 hours 40 minutes
Dimensions	114 mm x 62 mm x 34 mm (4.48 in. x 2.43 in. x 1.35 in.) H x W x D
Weight	241 g with AA batteries
Housing	Molded Plastic
RF Output	
Antenna Type	Integrated PIFA
Impedance	50 Ω
Occupied Bandwidth	< 200 kHz
Modulation Type	Shure Proprietary Digital
Power	1 mW, 10 mW, 20 mW (See Frequency Range and output power table, varies by region)

Available Models

ULXD6/O	Wireless Boundary Transmitter, Omnidirectional
ULXD6/C	Wireless Boundary Transmitter, Cardioid



ULXD6 Wireless Boundary Transmitter

ULXD8 Wireless Gooseneck Base Transmitter

Overview

The ULXD8 Wireless Gooseneck Base Transmitter combined with ULX-D or QLX-D digital receivers deliver uncompromising digital audio clarity and solid RF performance in a form factor that fits perfectly in business settings.

- Available in UHF TV band
- AES 256-bit encryption for secure transmission
- Convenient gooseneck form factor for meetings and events where quick setup and teardown is important
- Designed for use with Shure Microflex MX405, MX410 and MX415 gooseneck microphones
- Very short latency (<3 msec)
- Long transmission range (up to 300 feet / 100 meters)
- Rechargeable SB900A battery pack provides up to 9 hours of battery life
- Standard AA alkaline batteries are additional power options
- SBC450 (4-bay) and SBC850 (8-bay) Networked Charging Stations for docked charging of 4 or 8 ULXD8 transmitters
- Configurable Mute button (Toggle, Push-to-Mute, Push-to-Talk, disabled) and Mute LED behavior
- Adjustable RF power, high-pass filter, and power lock settings

Product Specifications

Gain Offset Range	0 to 21 dB (in 3 dB steps)
Battery Type	Shure SB900A Rechargeable Li-Ion or AA/R6 batteries (1,5 V)
Battery Runtime @ 10 mW	Shure SB900A: up to 9 hours Alkaline: up to 8 hours 20 minutes
Dimensions	137 mm x 78 mm x 41 mm (5.39 in. x 3.08 in. x 1.60 in.) H x W x D
Weight	293 g with AA batteries
Housing	Molded Plastic

RF Output

Antenna Type	Integrated PIFA
Impedance	50 Ω
Occupied Bandwidth	<200 kHz
Modulation Type	Shure Proprietary Digital
Power	1 mW, 10 mW, 20 mW (See Frequency Range and output power table, varies by region)



ULXD8 Wireless Gooseneck Base Transmitter

Microphone Options

MX405LP/C	Cardioid, 5" (12.7 cm), bi-color status indicator, less preamp
MX405LP/S	Supercardioid, 5" (12.7 cm), bi-color status indicator, less preamp
MX405RNP/N	No microphone cartridge, 5" (12.7 cm), light ring, less preamp
MX410LP/C	Cardioid, 10" (25.4 cm), bi-color status indicator, less preamp
MX410LP/S	Supercardioid, 10" (25.4 cm), bi-color status indicator, less preamp
MX410RNP/N	No microphone cartridge, 10" (25.4 cm), light ring, less preamp
MX410LPDF/C	Cardioid, 10" (25.4 cm), bi-color status indicator, less preamp, dualflex
MX410LPDF/S	Supercardioid, 10" (25.4 cm), bi-color status indicator, less preamp, dualflex
MX410RNPDF/C	Cardioid, 10" (25.4 cm), light ring, less preamp, dualflex
MX410RNPDF/S	Supercardioid, 10" (25.4 cm), light ring, less preamp, dualflex
MX410RNPDF/N	No microphone cartridge, 10" (25.4 cm), light ring, less preamp, dualflex
MX415LP/C	Cardioid, 15" (38.1 cm), bi-color status indicator, less preamp
MX415LP/S	Supercardioid, 15" (38.1 cm), bi-color status indicator, less preamp
MX415RNP/N	No microphone cartridge, 15" (38.1 cm), light ring, less preamp
MX415LPDF/C	Cardioid, 15" (38.1 cm), bi-color status indicator, less preamp, dualflex
MX415LPDF/S	Supercardioid, 15" (38.1 cm), bi-color status indicator, less preamp, dualflex
MX415RNPDF/C	Cardioid, 15" (38.1 cm), light ring, less preamp, dualflex
MX415RNPDF/S	Supercardioid, 15" (38.1 cm), light ring, less preamp, dualflex
MX415RNPDF/N	No microphone cartridge, 15" (38.1 cm), light ring, less preamp, dualflex

SBC450 & SBC850 Networked Charging Stations

Overview

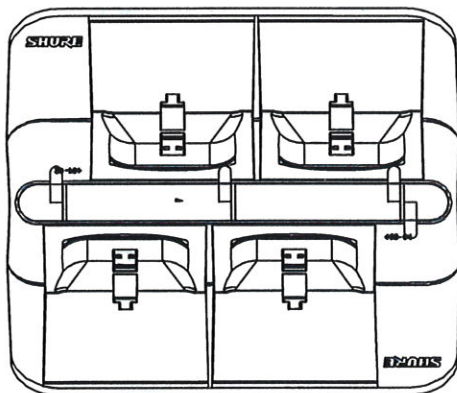
4-bay and 8-bay Networked Charging Stations charges up to 4 or 8 ULXD6 or ULXD8 transmitters that are equipped with the SB900A rechargeable battery. The transmitters simply slide into the charger; no need to remove the SB900A battery. When the Chargers are connected to a network, charging status of transmitters can be viewed remotely and settings or firmware can be updated while transmitters are in the charger, using Shure Wireless Workbench, SystemOn software or third-party room control systems.

Product Specifications

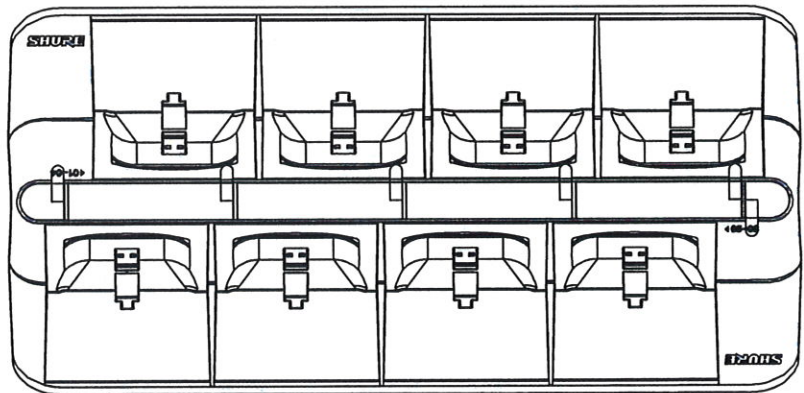
Charge Time	15 minutes = 1 hour runtime; 1 hour = 50% charged; 3 hours = 100% charged
Network Interface	10/100 Mbps Ethernet
Power Requirement	15 V DC @ 4.0 A maximum, supplied by external power supply (tip positive)
Housing	Molded Plastic, Cast Zinc Alloy
Dimensions	SBC450 82 mm x 224 mm x 192 mm (3.23 in. x 8.83 in. x 7.56 in.), H x W x D SBC850 82 mm x 392 mm x 192 mm (3.23 in. x 15.43 in. x 7.56 in.), H x W x D
Weight	SBC450 1.59 kg (3.51 lbs) SBC850 2.67 kg (5.89 lbs)
Operating Temperature Range	0°C (32°F) to 45°C (113°F)
Storage Temperature Range	-29°C (-20°F) to 74°C (165°F)

Available Models

SBC450	Networked Charging Station, 4 Ports
SBC850	Networked Charging Station, 8 Ports



SBC450 Networked Charging Stations



SBC850 Networked Charging Stations

SHURE[®]
LEGENDARY
PERFORMANCE™

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Jakob-Dieffenbacher-Str. 12,
75031 Eppingen, Germany

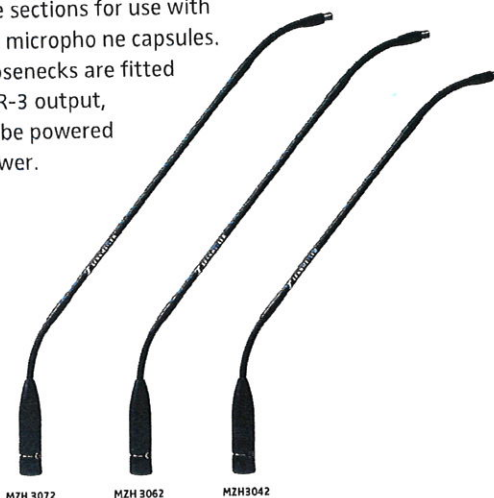
Phone: +49-7262-92490
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Email: info@shure.de
www.shure.eu

MZH 3042 MZH 3062 MZH 3072 Installed sound goosenecks

FEATURES

- Sturdy and elegant metal gooseneck for unobtrusive miking
- RF shielding against intermodulation from wireless equipment/devices

The MZH 3042, MZH 3062 and MZH 3072 are metal goosenecks with two flexible sections for use with the ME 34, ME 35 and ME 36 microphone capsules. The rugged, matte black goosenecks are fitted with a balanced, floating XLR-3 output, enabling the microphone to be powered from 12 – 48 V phantom power.



ARCHITECT'S SPECIFICATIONS

The unit shall be streamlined in appearance, with a boom diameter of 8 mm (.31"), an overall length of 40 cm (15.75"), 60 cm (23.6"), or 70 cm (27.5"), and a double bend to facilitate precise positioning. It must also be finished with a durable anti-reflective matte black coating and have a pre-amp housed within its XLR-3 connector housing. The unit must be mountable using a table stand, direct to surface receptacle or via a silent shock mount system. The unit shall accept the ME34, ME35 and ME36 microphone capsules. The unit shall be a Sennheiser MZH 3042. The unit shall be a MZH 3062. The unit shall be a MZH 3072.

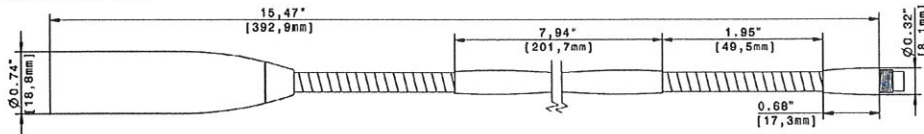
TECHNICAL DATA

Connection	XLR 3
Phantom Powering	P 12 - P48 V
Coating	matte black
Diameter	6 mm (0.24")
	8 mm (0.32")
	8 mm (0.32")
Length	400 mm (15.75")
	600 mm (23.62")
	700 mm (27.56")
Number of flexible elements	2
Weight (goosenecks)	110g (35 oz.)
	130g (41 oz.)
	135g (43 oz.)
Delivery includes	MZH 3042
	MZH 3062
	MZH 3072

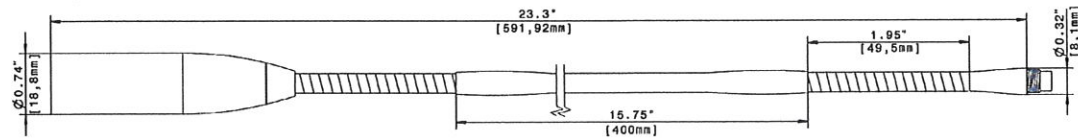
MZH 3042 MZH 3062 MZH 3072 Installed sound goosenecks

DIMENSIONS

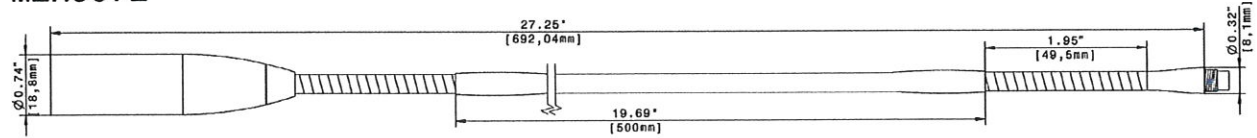
MZH3042



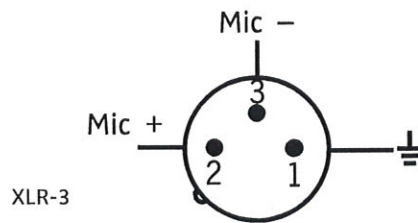
MZH3062



MZH3072



CONNECTIVITY



PRODUCT VARIANTS

MZH 3042, black	Cat. No. 009384
MZH 3062, black	Cat. No. 500652
MZH 3072, black	Cat. No. 500653
MZH 3042 NX, Nextel grey	Cat. No. 500811
MZH 3062 NX, Nextel grey	Cat. No. 500812
MZH 3072 NX, Nextel grey	Cat. No. 500813

RECOMMENDED ACCESSORIES

MZT 30, installation XLR3F connector	Cat. No. 005085
MZS 31, shockmount	Cat. No. 005087
MZTX 31 PTT, tablestand (with push-to-talk)	Cat. No. 500457
MZFS 80, floorstand	Cat. No. 500651

Contact your local Service Partner:

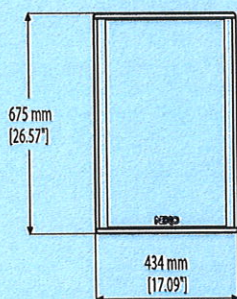
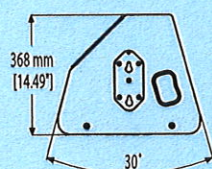
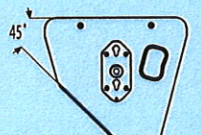
Sennheiser electronic GmbH & Co. KG
Am Labor 1, 30900 Wedemark, Germany
www.sennheiser.com

 **SENNHEISER**

PS15-R2 Loudspeaker

NEXO

PS15



Key Features

- High-power system (136dB Peak SPL @ 1m) with 15in LF and 2in HF drivers.
- Rotatable asymmetrical horn and unique cabinet architecture ensure versatility; user-adaptable for both PA and stage monitoring applications.
- Two-way, switchable passive or active design for precise performance-matching to user requirements.
- Sophisticated control electronics ensure reliable, linear operation.
- Supported with a full range of mounting and flying accessories.

System Applications

- High-power mid-sized touring, installed PA for clubs, AV, theater, Houses of Worship, broadcast, etc.
- High-quality, extremely powerful stage monitoring for AV, theatre, cabarets, broadcast, etc.
- Fill-in system for any PA requiring side, down and near-field augmentation.

NEXO
www.nexo.fr

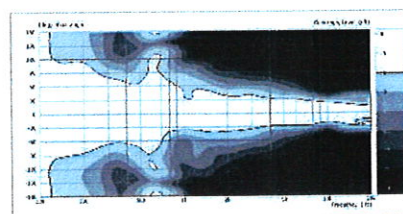


A high power system capable of producing 136dB Peak SPL, the new PS15-R2 Loudspeaker can be safely driven with up to 2000 Watts of amplifier power. Controlled by the new, dedicated PS 15 TDController-R2, or the NXAMP Powered Controller, the PS15-R2 achieves high SPLs and wide bandwidth performance, despite being only half the weight and volume of common trapezoidal loudspeaker systems.

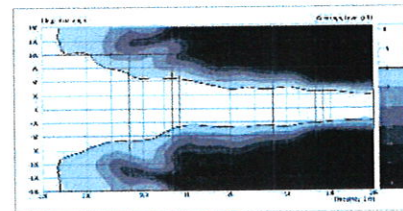
Along with the flexible coverage patterns enabled by NEXO's proprietary constant directivity asymmetrical dispersion horn, the architecture and weight balance of the PS15-R2 are designed to provide both uncompromised PA and stage monitor performance from a single speaker.

Left and Right versions of the PS15-R2 have been developed to provide a true stereo image – particularly important for wedge applications.

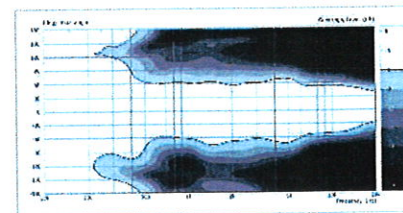
The 2-way passive 8Ω design uses a single amplifier channel to deliver bi-amped performance, reducing system cost, size and complexity, while the new cabinet design incorporates a pole mount and a new hardware adapter compatible with a vast array of touring and fixed installation accessories.



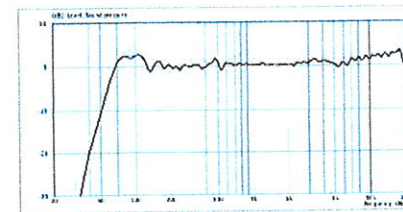
PS15-R2 horizontal coverage, +25°



PS15-R2 horizontal coverage, 0°



PS15-R2 horizontal coverage, -25°

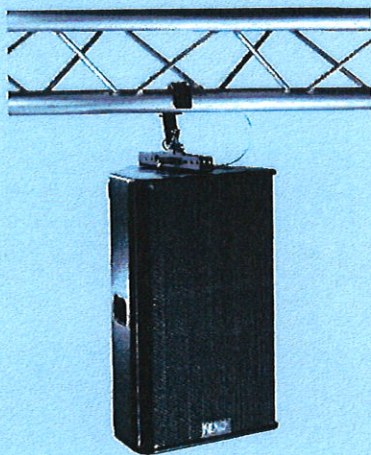


PS15-R2 response

PS15-R2 Loudspeaker

NEXO

PS15



NEXO is one of the world's leading sound reinforcement loudspeaker manufacturers. Founded in 1979, the company is dedicated to crafting practical solutions with solid engineering. Each new design begins with a proprietary sophisticated computer simulation process that allows every parameter to be extensively modeled and simulated, leading to breakthrough cost and performance gains. NEXO's comprehensive product line includes loudspeakers, analogue and digital control electronics and amplification; all designed to deliver consistent sound quality and long term reliability for a broad range of applications.

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NEXO

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PS15-R2 LOUDSPEAKER PRODUCT FEATURES

Components	LF 1 x 15" (38 cm) long excursion Neodymium 8Ω driver. HF 1 x 2" throat, 3" Titanium diaphragm compression driver + Low Distortion, Constant Directivity Asymmetrical Dispersion Horn.
Height x Width x Depth	675 x 434 x 368 mm (26.57" x 17.08" x 14.48").
Weight	28 kg (62 lbs).
Speakon Connectors	2x4 pole in & loop thru (switch passive to active inside).
Construction	Baltic Birch Ply finished with textured black coating.
Fittings	Handles 2 metal recessed pockets.
Front Finish	Moulded dark grey metal grille.
Flying Points	Two plate connecting with external accessories.
Stand fittings	Built in steel stand fitting (35mm / 1 3/8").

SYSTEM SPECIFICATIONS PS15-R2 with PS15 TDController-R2

Frequency Response [a]	50 Hz - 18 kHz ±3 dB.
Usable Range @-6dB [a]	47 Hz - 18 kHz.
Sensitivity 1W @ 1m [b]	102 dB SPL Nominal / 99 dB SPL Wideband.
Nominal Peak SPL @ 1m [b]	133 to 136 dB Peak.
HF Dispersion [c]	50° to 100° Horizontal x 55° Vertical Rotatable Horn, 4 positions.
Directivity : Q & DI [c]	Q : 16 Nominal / DI : 12 dB Nominal (f > 1.5 kHz).
Crossover Frequencies	1.1 kHz Passive or Active (internally switchable).
Nominal Impedance	Passive 8Ω or Active LF 8Ω, HF 16Ω.
Recommended Amplifiers	Passive 1000 to 2000 W 8Ω. Active LF 1000 to 2000 W 8Ω / HF 250 to 500 W 16Ω. Important: Active mode only available on NXAMP.

SYSTEM OPERATIONS

Electronic Controller	The PS15TD Controller-R2 is precisely matched to the PS15-R2 & RS15 cabinets and includes protections. Using PS15-R2 & RS15 without a properly connected PS15 TDController-R2 will result in poor sound quality and can damage the components.
Dispersion configuration	After dismantling the front grille from its fixings, the HF Horn can be rotated in 4 positions for dispersion configuration.
Sub-bass	The PS15-R2 can be used without optional RS15 Sub-bass. Active two-way operation with RS15 is included in the PS15 TDController-R2. One RS15 matches 2 x PS15-R2, additional RS15 may be used for enhanced LF capability.
Speaker Cables	PS15R2 are wired 2-/2+ on Input Speakons in Passive Mode. PS15R25 are wired LF 1-/1+ & HF 2-/2+ on Input Speakons in Active Mode. Please refer to RS15 User Manual for RS15 for RS15 connection.

SHIPPING & ORDERING SPECIFICATIONS

Packaging	PS15-R2 is packaged as a single product.
Shipping Weight & Volume	33 kg (72.6 lbs) / 0.2 cubic metres (7 cubic feet).
Accessories	A full selection of mounting Accessories is available, please contact your Nexo Agent for details.

As part of a policy of continual improvement, NEXO reserves the right to change specifications without notice.

[a] Response curves & data : Anechoic Far Field for the PS15-R2 + PS15TDController-R2. Half-Space Anechoic radiation for the RS15R2 + PS15TDController-R2.

[b] Sensitivity & Peak SPL data : these will depend on spectral distribution and crest factor of program material. Measured with band limited Pink Noise. Nominal refers to Voice Decade (300 Hz - 3 kHz), Wideband to the specified ±3 dB range. Data are for speaker + processor + recommended amplifier combinations.

Peak SPL is at clipping of recommended amplifier. Measurements made with PS15-R2s in passive operation mode.

[c] Directivity curves & data : obtained by computer treatment on off axis response curves.

E&OE September 2009.

Architectural and Engineering Specifications

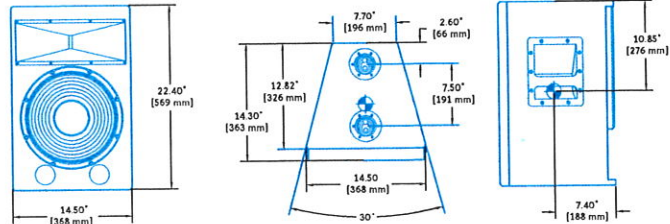
The 2-way loudspeaker system shall have one 15 inch shielded Neodymium 8Ω cone transducer and a 2 inch compression driver on a low distortion constant directivity asymmetrical dispersion horn. The system's horizontal coverage shall range from 50° to 100°, with vertical coverage of +25° and -30°. The user shall be able to rotate the horn in 4 directions as required by the application. The system shall have a Q of 16 and a Directivity Index that is 12 at frequencies above 1.5kHz. Nominal Sensitivity shall be 102dB (99dB wideband). When driven by a NEXO NXAMP 4x1, NXAMP 4x4 a PS15 TDController-R2 or by a NX242 properly connected to amplification capable of delivering 1000 to 2000 Watts into an 8Ω (nominal) load the system shall be capable of 133dB to 136dB peak SPL, with a frequency response of 50Hz to 18kHz ±3dB (47Hz to 18Hz -6dB). The system shall include an active or passive crossover with internal switching. Electrical connections shall be made via one of the two 4-pole NL4AMP SPEAKON connectors.

The system shall have a tuned ported multi-angle enclosure constructed of 18ply Baltic birch, finished in either black or white textured coating and having exterior dimensions no greater than 675mm H x 434mm W x 368mm D (26.6in H x 17.1in W x 14.5in D); the system shall weigh 29.0kg (65.0lbs). Exterior hardware shall include 1 metal plate, 2 attachment points and 1-pole socket. Interior components shall be protected by a powder coated perforated steel grille. The system shall be the NEXO PS15 R2 with a PS15 TDController-R2, NXAMP 4x1, NXAMP 4x4 or NX242.

LIMITED WARRANTY

NEXO loudspeakers and electronics are covered against defects in workmanship or materials for a period of two (2) years from the original date of purchase. At the option of NEXO the defective item will be repaired/replaced with no charge for materials/labour. The item is to be adequately packaged and dispatched, pre-paid, to a NEXO authorised distributor/service centre. Unauthorised repair shall void the warranty. The NEXO warranty does not cover cosmetics or finish and does not apply to any items which in NEXO's opinion have failed due to used abuse, accidents, modifications or any type of misuse. All images and text herein are the property of NEXO SA, and deemed accurate, although specifications are subject to change without notice.

UPA-1P : Compact Wide Coverage Loudspeaker



Dimensions 14.50" w x 22.40" h x 14.30" d
(368 mm x 569 mm x 363 mm)

Weight 77 lbs (34.93 kg)

Enclosure Premium birch plywood

Finish Black textured

Protective Grille Powder-coated hex-stamped steel, foam covering

Rigging Four ring and stud pan fittings, two on both top and bottom. Working load for each fitting is 420 lbs (190.51 kg), 1/5 the cabinet breaking strength (with straight tensile pull); 3/8" or metric M10 nut plates optional

The UPA-1P loudspeaker provides high power output, low distortion, and consistent polar response in a compact, vented two-way enclosure. The loudspeaker features a 12-inch cone low-frequency driver and a 3-inch-diaphragm compression driver coupled with a 100-degree horizontal by 40-degree vertical constant-Q horn. The versatile UPA-1P has many sound reinforcement applications, as a main front-of-house loudspeaker in small to mid-sized venues, as a fill loudspeaker in larger systems, and more.

The UPA-1P is distinguished by the extraordinarily smooth and predictable behavior of its proprietary high-frequency horn. The result of intensive research in Meyer Sound's anechoic chamber, the patented UPA-1P horn design exhibits constant Q. The beamwidth remains consistent within close tolerances, in both the horizontal and vertical planes and across the horn's operating frequency range of 1200 Hz to 18 kHz. The result is uniform attenuation of all frequencies outside the specified beamwidth with mini-

mal side lobing. Uniformly predictable polar behavior takes much of the guesswork out of system design and assures arrays that exhibit minimal destructive interference.

The UPA-1P is biamped with a proprietary two-channel, class AB/bridged power amplifier with complementary MOSFET output stages. Total peak power output is 550 watts; audio is processed through an electronic crossover and correction filters for phase and frequency response, as well as driver protection circuitry. Phase-corrected electronics ensure flat acoustical amplitude and phase response, resulting in exceptional impulse response and precise imaging.

The field-replaceable amplifier/processing package incorporates Meyer Sound's Intelligent AC™, which auto-selects the correct operating voltage, suppresses high voltage transients, filters EMI and provides soft-start power-up. The high common-mode rejection of the laser-trimmed differential input circuit permits long signal runs through a simple shielded twisted-pair

cable. Audio input modules accommodate a range of applications. The standard version offers looping XLR input and output connectors, while an enhanced looping version adds polarity switching (the looping output is not affected) and input attenuation (0 dB to -18 dB). A summing mono version with two inputs is also available.

The durable trapezoidal enclosure is covered with a black textured hard-shell finish. A protective hex-stamped steel grille and charcoal grey foam cover are included. Standard rigging points are four ring and stud pan fittings (two each, top and bottom) with load rating of 420 lbs (190.51 kg) at a 5:1 safety factor. Adjustable yokes and pole mount adaptors are available. Options include weather protection, custom color finishes, and cabinets with no handles for fixed applications requiring specific cosmetics.

The UPA-1P is compatible with the RMS™ remote monitoring system, which offers comprehensive monitoring of system parameters on a Windows®-based network.

FEATURES & BENEFITS

- Exceptional fidelity, power capability and extended high-frequency performance
- Extraordinarily flat amplitude and phase response for tonal accuracy and precise imaging
- Wide, symmetrical pattern covers broad listening areas
- Constant-Q horn affords uniform response throughout the coverage area
- Predictable array performance ensures system design flexibility
- Surprising power capability in a compact package

APPLICATIONS

- Concert halls, clubs, houses of worship
- Theatrical sound reinforcement
- Portable and installed audio-visual systems
- Cinema surround sound and effects
- Compact voice reinforcement systems
- Frontfill and under balcony

UPA-1P SPECIFICATIONS

ACOUSTICAL		Operating Frequency Range¹ 60 Hz – 18 kHz Frequency Response² 80 Hz – 17 kHz ± 4 dB Phase Response 600 Hz – 16 kHz $\pm 35^\circ$ Maximum Peak SPL³ 133 dB Dynamic Range >110 dB
COVERAGE		Horizontal 100° Vertical 40°
CROSSOVER⁴		1200 Hz
TRANSDUCERS		Low Frequency One 12" cone driver Nominal impedance: 2 Ω Voice coil size: 3" Power-handling capability: 400 W (AES) ⁵ High Frequency One 3" compression driver Nominal impedance: 16 Ω Voice coil size: 3" Diaphragm size: 3" Exit size: 1.4" throat Power-handling capability: 100 W (AES) ⁵
AUDIO INPUT		Type Differential, electronically balanced Maximum Common Mode Range ± 15 V DC, clamped to earth for voltage transient protection Connectors Female XLR input with male XLR loop output or VEAM all-in-one (integrates AC, audio and network) Input Impedance 10 k Ω differential between pins 2 and 3 Wiring Pin 1: Chassis/earth through 220 k Ω , 1000 pF, 15 V clamp network to provide virtual ground lift at audio frequencies Pin 2: Signal + Pin 3: Signal – (optional polarity reversal switch) ⁶ DC Blocking Case: Earth ground and chassis CMRR Differential DC blocking up to maximum common mode voltage >50 dB, typically 80 dB (50 Hz – 500 Hz) RF Filter Common mode: 425 kHz; Differential mode: 142 kHz TIM Filter <80 kHz, integral to signal processing Nominal Input Sensitivity 0 dBV (1 V rms, 1.4 V pk) continuous average is typically the onset of limiting for pink noise and music Input Level Audio source must be capable of producing a minimum of +20 dBV (10 V rms, 14 V pk) into 600 Ω to produce maximum peak SPL over the operating bandwidth of the loudspeaker
AMPLIFIER		Type Two-channel complementary MOSFET output stages (class AB/bridged) Output Power⁷ 550 W total THD, IM, TIM <.02 % Load Capacity 2 Ω low channel, 16 Ω high channel Cooling Convection; 24 V DC output for optional external fan
AC POWER		Connector PowerCon or VEAM Voltage Selection Automatic, continuous range from 90 V AC to 265 V AC Safety Agency Rated Operating Range 100 V AC – 240 V AC; 50/60 Hz Turn-on and Turn-off Points⁸ 90 V AC on, no turn-off, only fuse-protect above 265 V AC Current Draw: Idle Current 0.25 A rms (115 V AC); 0.13 A rms (230 V AC); 0.3 A rms (100 V AC) Max Long-Term Continuous Current (>10 sec) 2.8 A rms (115 V AC); 1.4 A rms (230 V AC); 3.2 A rms (100 V AC) Burst Current (<1 sec) 3.2 A rms (115 V AC); 1.6 A rms (230 V AC); 3.7 A rms (100 V AC) Ultimate Short-Term Peak Current Draw 5.0 A pk (115 V AC); 2.5 A pk (230 V AC); 5.8 A pk (100 V AC) Inrush Current <9 A pk (115 V AC and 230 V AC)
RMS NETWORK (OPTIONAL)		Equipped for two-conductor, twisted-pair network, reporting amplifier operating parameters to system operator's host computer.

NOTES:

1. Recommended maximum operating frequency range. Response depends on loading conditions and room acoustics.
2. Free field, measured with 1/3 octave frequency resolution at 4 meters.
3. Measured with music at 1 meter.
4. At this frequency, the mid- and high-frequency transducers produce equal sound pressure levels.
5. Power handling is measured under AES standard conditions: transducer driven continuously for two hours with band-limited noise signal having a 6 dB peak-average ratio.
6. Two additional input module options are available with a polarity reversal switch and an attenuator (0 dB to -18 dB): one looping and one with two inputs for mono summing.
7. Amplifier wattage rating based on the maximum unclipped burst sine-wave rms voltage that the amplifier will produce into the nominal load impedance. Low channel 30 V rms (42 V pk) into 2 ohms; high channel 32 V rms (45 V pk) into 16 ohms.
8. No automatic turn-off voltages. Voltages above 265 V AC are fuse protected but may cause permanent damage to the power supply. Voltages below 90 V AC may result in intermittent operation.

Made by Meyer Sound Laboratories
Berkeley, California USA
European Office:
Meyer Sound Lab, GmbH
Carl-Neuberg-Strasse 19
96151 Pöhl, Germany

 N775

 3K59 COMMERCIAL
AUDIO SYSTEM
US LISTED

UPA-1P – 04.076.016.01 A

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ARCHITECT SPECIFICATIONS

The loudspeaker shall be a self-powered, full-range system. The transducers shall consist of a 12-inch diameter cone driver and a 3-inch diaphragm compression driver on a 100-degree horizontal x 40-degree vertical horn.

The loudspeaker system shall incorporate internal processing electronics and a two-channel amplifier. Processing functions shall include equalization, phase correction, signal division and protection for the high- and low-frequency sections. The crossover point shall be 1200 Hz. Each amplifier channel shall be class AB/bridged with complementary MOSFET output stages. Burst capability shall be 550 watts total with nominal 16-ohm resistive load for the high-frequency channel and 2-ohm for the low-frequency channel. Distortion (THD, IM, TIM) shall not exceed 0.02%.

Performance specifications for a typical production unit shall be as follows, measured at 1/3-octave resolution: Operating frequency range shall be 60 Hz to 18 kHz. Phase response shall

be $\pm 35^\circ$ from 600 Hz to 16 kHz. Maximum peak SPL shall be 133 dB at 1 meter. Horizontal coverage shall be 100 degrees and vertical coverage shall be 40 degrees.

The audio input shall be electronically balanced with a 10 k Ω impedance and accept a nominal 0 dBV (1 V rms, 1.4 V pk) signal. Connector shall be XLR (A-3) type female with parallel looping male. RF filtering shall be provided, and CMRR shall be greater than 80 dB from 50 Hz to 500 Hz. Two additional input module options shall be offered with an attenuator and polarity reversal switch: one with loop-through output, and another with two summing inputs instead of the loop-through input and output.

The internal power supply shall perform automatic voltage selection, EMI filtering, soft current turn-on and surge suppression. Powering requirements shall be nominal 100, 110 or 230 V AC line current at 50 or 60 Hz. UL and CE operating voltage range shall be 100 to 240 V AC. Maximum peak current

draw during burst shall be 5 A at 115 V AC, 2.5 A at 230 V AC and 5.8 A at 100 V AC. Current inrush during soft turn-on shall not exceed 9 A at 115 V AC. AC power connectors shall be PowerCon or VEAM all-in-one multi-pin connector.

The loudspeaker system shall provide facilities for installing Meyer Sound's optional RMS remote monitoring system.

All loudspeaker components shall be mounted in an acoustically vented trapezoidal enclosure constructed of premium birch plywood with a black textured hard-shell finish. The front protective grille shall be powder-coated hex-stamped steel covered by charcoal gray foam. Dimensions shall be 14.50" wide x 22.40" high x 14.30" deep (368 mm x 569 mm x 363 mm). Weight shall be 77 lbs (34.93 kg). Rigging points shall be four ring and stud pan fittings, two each on top and bottom, rated at 420 lbs (190.51 kg) per fitting, based on a 5:1 safety factor.

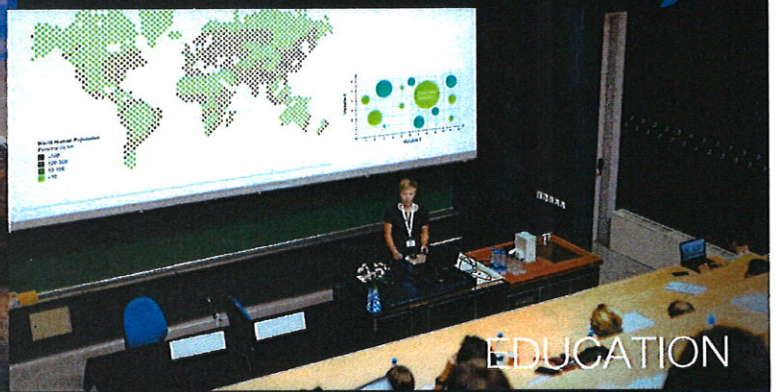
The loudspeaker shall be the Meyer Sound UPA-1P.



MUSEUMS



BUSINESS



EDUCATION

See the Advantages of Panasonic's Laser Technology

SOLID SHINE Laser and DLP™ Projection Balances Image Quality with 20,000-hour Maintenance-free*1 Endurance



Harnessing Full-Spectrum Color with Up to 10,400 lm (Center)*2 Brightness

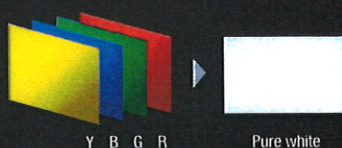
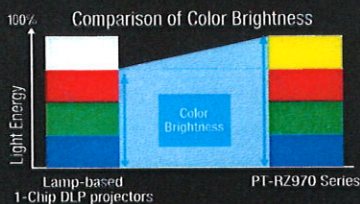
With next-generation DLP™ technology delivering high-resolution detail and dual laser modules outputting up to 10,400 lm (Center)*2 of brightness, Quartet Color Harmonizer to reduce energy loss from the light source, and robust heat-resistant phosphor wheel, the Panasonic SOLID SHINE Laser system produces scintillating images with unfailing reliability.

Superior White Balance and Color Reproduction

The Quartet Color Harmonizer wheel mechanism captures a wider color space than comparable projectors, which allows white to be reproduced realistically on screen. Some conventional projectors can't achieve an accurate white balance, so images can appear with a distracting greenish tint. Not the case with Panasonic SOLID SHINE Laser projectors.

SOLID SHINE Laser Maintains Picture Quality for Longer

Thanks to the long-lasting dual solid-state laser modules, there are no lamps to replace, and image color/brightness degrades very gradually in consistent, linear fashion. As well as reducing maintenance hassle, out-of-the-box picture quality is preserved longer.



*1 At this time the brightness will have decreased to approximately half of its original level (Dynamic Contrast Mode 3, Image Mode: Dynamic). Panasonic recommends cleaning or checkup at point of purchase after about 20,000 hours. Light source lifetime may be reduced depending on environmental conditions. Replacement of parts other than the light source may be required in a shorter period.

*2 PT-RZ970/RW930 features 10,000 lm, PT-R770/RW730 7,200 lm, PT-R760/RW620 6,200 lm, and PT-RX110 12,400 lm of brightness (measured at center of screen).

Powerful Brightness, Excellent Picture Quality, Lasting Reliability

Dynamic Contrast Function for High Contrast

The PT-RZ970 Series directly modulates laser power output to achieve high contrast with low power consumption. Digitally controlled frame-by-frame scene-linking modulation ensures highly precise output adjustment, while accurate 10,000:1^{*3} contrast is delivered even when bright and dark scenes frequently interchange.



Bright Image



Dark Image

Detail Clarity Processor 3 Sharpens the Finest Details

This unique Panasonic circuit optimizes the sharpness of each image based on the super high, high, medium, and low frequency components of the extracted image information. The resulting images are expressed with natural, convincing realism.



Conventional Projector



Detail Clarity Processor 3

System Daylight View 3 for Sharp and Vivid Images in Bright Environments

Panasonic's premium System Daylight View 3 prevents images from washing out in well-lit environments and enhances brightness perception in multi-projector mapping applications by adjusting sharpness and gamma curves and correcting colors. The result is greater visual impact even in challenging conditions.



Conventional Projector

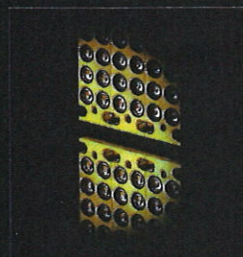


System Daylight View 3

Consistent, Stable Performance

Stable 24/7 Operation with Light-source Failover Protection

Dual Drive Laser Optical Engine groups laser diodes into two discrete modules. A failsafe redundancy circuit works to minimize brightness- and color-uniformity loss should a laser diode fail, making the PT-RZ970 Series ideal for mission-critical applications. Further, brightness decreases more gradually and consistently than lamp-based projectors over a 20,000-hour^{*4} maintenance-free projection period.



^{*3} With Dynamic Contrast Mode set to 3. ^{*4} At this time the brightness will have decreased to approximately half of its original level (Dynamic Contrast Mode 3 Image Mode Dynamic). Panasonic recommends cleaning or check-up at point of purchase after about 20,000 hours. Light source life may be reduced depending on environmental conditions. Replacement of parts other than the light source may be required in a shorter period.

Dust-Resistant Airtight Optical Block

The PT-RZ970 Series' optical block is airtight, ensuring consistent, long-lasting image quality for up to 20,000 hours^{*4} without maintenance. The optical block design passed stringent testing to assure utmost reliability in environments with up to 0.15 mg of particulate matter per cubic meter (based on American Society of Heating, Refrigerating, and Air-Conditioning Engineers [ASHRAE] and Japanese Building Maintenance Association guidelines). The structure prevents brightness degradation from dust intrusion.

Clean Environment	WHO Europe Guideline for Dust Resistance	Japanese Building Maintenance Association ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers)
0.030 $\mu\text{g}/\text{m}^3$	0.110 $\mu\text{g}/\text{m}^3$	0.150 $\mu\text{g}/\text{m}^3$
CLEAN		DUSTY
		Panasonic Dust Test Standard

Selectable Operational Modes Maintain Image Quality Longer

Approx. 20,000 Hours^{*4} of Continuous Operation

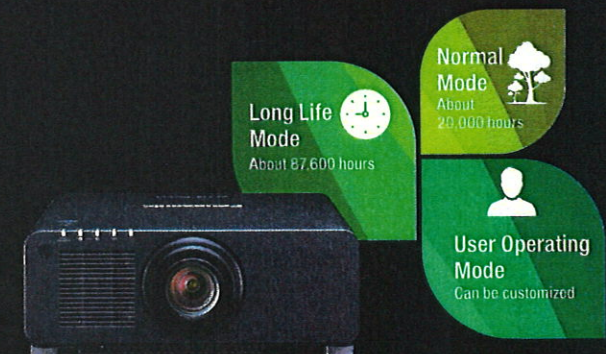
In Normal Mode, the PT-RZ970 Series can operate continuously for about 20,000 hours^{*4}. In Eco Mode, this is extended to around 24,000 hours^{*4} of continuous operation. These modes enhance suitability for education and signage applications.

Up to 10 Years^{*5} Operation with Constant Brightness Modes

In environments where full brightness is not necessary, such as surveillance, control, and simulation rooms, constant operation modes extend light-source replacement to up to 87,600 hours^{*5} in Long Life 3 Mode—about 10 years of 24/7 projection—with consistent brightness and color.

User Operating Mode

In addition to preset operating modes, the PT-RZ970 Series can be customized to achieve your preferred balance of brightness performance or extended life.



^{*5} With Operating Mode set to Long Life 3. Long Life 3 Mode is tested in a near-box projection environment, which is not compliant with ASHRAE. 24 h-us/day x 365 days/year x 10 years = 87,600 hours. Replacement of parts other than the light source may be required in a shorter period.

ME 36

hypercardioid installed sound microphone

FEATURES

- Highly directional mini shotgun microphone
- Low noise and large transponse range
- Thin and elegant for unobtrusive miking
- Interference tube rotates for optimum alignment
- Gold plated contact points for Maintenance-free long term operation
- Large range of high quality goosenecks and mounting options

The **ME 36** is a permanently polarized condenser microphone capsule for use with Sennheiser MZH goosenecks. This mini shotgun microphone features a hypercardioid / lobar directivity for an outstanding background noise rejection. In combination with the 15cm short gooseneck MZH 3015 it facilitates inconspicuous placement. The ME 36 is suitable for a very wide range of applications including: conference, public address, studio, broadcast, video and others.



ARCHITECT'S SPECIFICATIONS

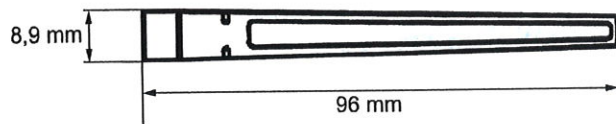
A mini shotgun microphone for speech transmission shall be unobtrusive in appearance. The microphone provides a hypercardioid/lobar directivity and shall be powered with 12 to 48V phantom powering. The microphone shall cover a frequency range of 40Hz to 20kHz, the equivalent noise level must not exceed 23 dB weighted A. For connection with Sennheiser MZH goosenecks a high quality screw thread shall be provided. The electrical contact points shall be gold plated. The housing of the microphone shall be made from metal, finished with a non reflective black coating. Various mounting options and goosenecks shall be available. The microphone shall be Sennheiser ME 36.

TECHNICAL DATA

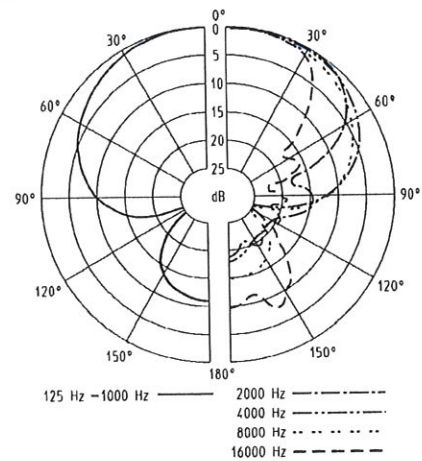
Transducer principle	pre-polarised condenser microphone
Acoustics	hypercardioid / lobar
Frequency response	40Hz - 20 kHz
Impedance.....	50 Ohm
Minimal terminating impedance	1 kOhm
Maximum sound pressure level.....	130 dB SPL
Equivalent noise level	23 dBA
Equivalent noise level weighted as per CCIR 468-3	34 dB
Phantom powering.....	P12 - P48 V
Current consumption	250 µA
Weight	17g (6 oz.)
Dimensions	ø 8,2 x L96 mm (ø 0.33" x 3,78")
Coating.....	matte black
Delivery includes.....	ME 36 microphone MZW 36 windshield

ME 36 hypercardioid installed sound microphone

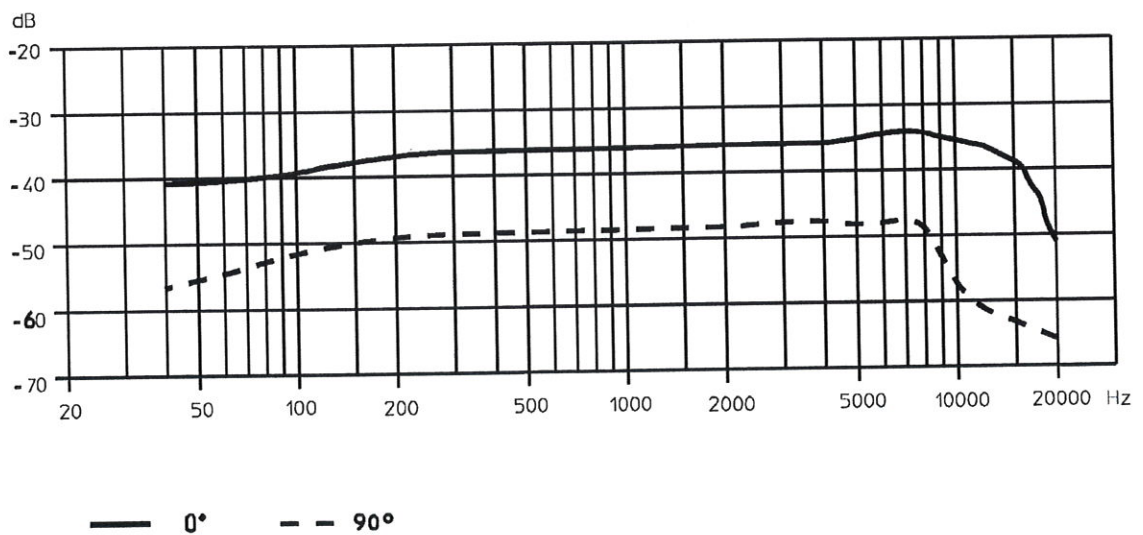
DIMENSIONS



POLAR PATTERN



FREQUENCY RESPONSE



PRODUCT VARIANTS

ME 36, black	Cat. No. 005065
ME 36 NX, Nextel grey	Cat. No. 500818
ME 36 W, white	Cat. No. 005066

RECOMMENDED ACCESSORIES

MZH gooseneck series: MZH 3015, MZH 3040, MZH 3042,
MZH 3062, MZH 3072

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www.sennheiser.com

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