

Opus Series

New Audio & Multimedia Guides

Opus Click



Espro
Acoustiguide
Group

acoustiguide

The Next Generation of Interpretive Guides

Opus is a revolutionary series of compact and robust screen-based players, developed and designed specifically for on-site interpretation of museums and visitor venues.

This ground-breaking series of guides ushers in a new world of interpretive possibilities for institutions that value sophisticated design and require rugged, easy-to-use players. With Opus, institutions can provide visitors access to various digital resources – video, images and animation on top of the traditional audio – in a platform catering exactly to the needs of their visitors.

The high-performance computing capabilities of Opus will amaze visitors accustomed to sophisticated graphic images and digital movies: its processing speed and memory capacity enable delivery of high resolution video files and the CD-quality sound that users of consumer technology demand.

The content manager software is intuitive and flexible, allowing for simple additions and deletions of content, as well as more complex functions, like integration of timed audio with video and images.

Opus comes in two formats: Opus Click™ and Opus Touch™.

Opus Click™

a keypad-driven guide



High quality color landscape 55mm/2.2" screen;
automatic backlight

Self-lighting mobile phone style keypad

Numeric and programmable function keys

Scrolling function

Dedicated help key and site-specific customizable key

Opus Touch™

a touchscreen guide



High quality color portrait 72mm/2.83" screen;
finger touch sensitive, automatic backlight

On-screen interface allows hierarchical menus,
thumbnails, or traditional numeric entry

Self-lighting Play/Pause, Stop and programmable
function keys

Touch screen layouts optimized for fingers use - no
need for stylus

Developed and designed for Museums

Key features include:

Sleek design, rugged case, lightweight

Full color TFT LCD screen

Large, expandable memory

Compatible with a complete range of audio, video, image and animation multimedia formats

Dual listening mode, via internal speaker or through headset/ear piece

Full day usage between charges

Remote activation via IR & RF

Opus Content Manager Software - easy set up and install, can be used by client

Modular charging racks

Featuring a unique fold-out speaker, each player can be used either as a true wand or as a headset unit

Dual-use Design: Dual-listening mode





Opus Content Manager (OCM)

A proprietary software package

Software runs on Windows-based PC

Allows the creation and modification of content packages for Opus players

Friendly, easy to use interface

Enables setting of different behavioral attributes

Allows drag & drop of media files

Verifies package integrity

Controls package loading onto multiple Opus players

Superb Sound Quality

CD quality stereo sound

Range of 10 stepped volume levels

Over 500 hours of multi-lingual audio content

Highest Image Quality

Superb visual quality

QVGA resolution (320 x 240 pixels), full color

Over 28 hours of video, or 10,000 images



Memory

2GB memory; expandable

Holds multiple languages and tours

Guides can contain any combination of audio, images, animation or video clips

Content Delivery

Software supports audio, video, images and animation

Multiple ways to access content

Graphically-rich user interface with menu selection & navigation functions

Site-customizable screens

Opus Content Manager for easy on-site content handling



Access for All

Audio jack induction loop compatibility

Supports video programming for sign language tours

Raised marker on key no. 5 (Opus Click™)

Tested for suitability with disability regulations

Remote Triggering and Synchronization

Remote content activation via IR and RF technologies

Synchronization to external multimedia or show control systems

Fully compatible with Espro Acoustiguide's Positioning and Orientation technology: map-driven or object-driven modes





Data Collection & Visitor Surveys

Software tracks user “click stream”

Customized surveys can be incorporated into the guide’s audio/visual content

Produces easy-to-read reports formatted to enable further analysis

Bookmarking

Visitors can bookmark items of interest either for on-demand printing via MyCollection™ or other post-visit services such as emailing information home

Charging Rack

Charges the Opus re-chargeable batteries

Supports 25 Opus players

Lockable doors

Optimized for convenient operation with slanted-up insertion/removal of Opus players

Shallow foot-print

Modular Charging System

Innovative modular bay system allows installation flexibility and efficiency

Linked modules (5 players per charging module) can be wall-mounted, shelf-mounted, placed on a desk or in a drawer





Player Dimensions

Length: 132 mm/5.2" (speaker closed),

180 mm/7.0" (speaker open)

Width: 57 mm/2.2"

Depth: 24 mm/0.9"

Weight: 160 grams/5.2 oz (including battery and strap)

Energy

Li-Poly environmentally friendly rechargeable battery

Fully charged in 4 hours

Full day operation

Standards

Compliance to ISO9001:2000, CE, part 15 of the FCC rules and RoHS

International Headquarters
Espro Information Technologies
17 Atir Yeda St. Kfar Saba, ISRAEL
T. 972 9 763 4400 • F. 972 9 763 4411
info@acoustiguide.com

Subsidiaries

USA & Canada
Acoustiguide Inc. • T. 212 279 1300 • info@acoustiguide.com

England, Scotland, Ireland & Wales, Italy
Acoustiguide Ltd. • T. 44 20 7269 5150 • info@acoustiguide.co.uk

France, Belgium, Luxembourg
Espro Acoustiguide SAS • T. 33 1 42 60 69 68 • esprofrance@espro.com • manon@espro.com

Germany, the Netherlands
Acoustiguide GmbH • T. 49 30 78 77 36 0 • info@acoustiguide.de

Taiwan
Acoustiguide Asia • T. 886 2 2713 5355 • susan@acoustiguide.com.tw

Australia, New Zealand
Acoustiguide of Australia Pty, Ltd. • T. 61 2 9589 3240 • maryanne@acoustiguide.com.au

Representatives

Austria & Switzerland
Kulturmanagement Beratungsges m.b.H. • walther.hofmann@culturmanagement.com

Spain
Aldeasa S.A. • fernandopp@aldeasa.es • mjm@audioguiarte.com

Czech Republic, Slovakia
Promotion and Education • miroslava.kholova@audioguide.cz

China
Acoustiguide Shanghai
T. 86 21 5426 0077 • acoustsh@sh163.net

Russia
Delia Ltd. • alexgrin@rol.ru • delia-audio@rambler.ru

Mexico
Audio Guia • audioguia@prodigy.net.mx

www.acoustiguide.com

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CU 400

- **Plug-in charging**
- **Two charging slots**
- **Gentle quick-charge mode**
- **Status display**

Any wireless microphone system depends on sufficiently charged batteries in all the transmitters. There is nothing more embarrassing than a transmitter running out of juice in the middle of the show, or a voice fading as the transmitter battery dies.

The CU 400 charging unit puts an end to this kind of hassle. It can charge two batteries simultaneously to full capacity within one hour, and there is no risk of overcharging the batteries.

And what's best, you can leave the batteries inside the transmitters. The transmitters and charger use integrated charging contacts so all you have to do is plug the transmitters into the CU 400 charging unit and remove them after charging.

Specifications



Engineer's specifications

The charger shall be housed in a rugged plastic case with two multifunctional charging slots for charging WMS 450 and WMS 40 PRO Series wireless transmitters. Each charging slot shall accommodate a handheld or bodypack transmitter and the charger shall be capable of charging

any combination of transmitters (e.g., one HT 450 and one PT 450 simultaneously). The batteries shall remain inside the transmitter(s) during charging. The charger shall detect any dry (non-rechargeable) battery inside a transmitter and automatically stop the charging cycle if a dry battery is inserted. A status LED shall be placed in front of each charging slot. These tricolor (red/amber/green) LEDs shall indicate the charger's current operating status: amber - battery is being tested; red - battery is being charged; green - battery is fully charged and charging cycle finished; flashing red - error. The voltage and temperature shall be monitored during the charging cycle and a signal given at the end of a charging cycle to indicate that full capacity has been reached. All required safety parameters shall be monitored and the charging cycle stopped if one or more safety parameters fall below or exceed the acceptable range. Operating voltage shall be 5 VDC, 1.5 A max. The charger shall accept NiMH or NiCd rechargeable batteries with a minimum capacity of 1500 mAh. Typical charging current shall be 1.4 A when one charging slot is used and 0.7 A when both slots are used simultaneously, typical charging time 1.5 hours when one charging slot is used and 3 hours when both slots are used simultaneously (depending on battery type and capacity). The charger shall measure 188 x 115 x 78 mm (LxHxD), weigh approx. 420 g, and be enameled black.

DE

Die Ladestation CU800 wurde speziell für das Funksystem DMS800 entwickelt. Sie ist außerdem kompatibel mit DMS700. Sie besitzt zwei speziell geformte Lademulden zur Aufnahme der Sender DHT800 (mithilfe der beigegepackten Adapter) und DPT800. Damit können Sie zwei Sender mit Akkus gleichzeitig und völlig unabhängig voneinander aufladen. Sie brauchen die Akkus zum Aufladen nicht aus dem Sender herauszunehmen.

EN

The charging unit CU800 has been designed specifically for use with the DMS800 wireless system. It is also fully compatible with DMS700. The charger provides two charging slots specially shaped to accept the DHT800 (with the included adapters) and DPT800. The charging slots operate completely independently so you can charge two transmitters with rechargeable batteries simultaneously. You do not need to remove the batteries from the transmitter for charging.

FR

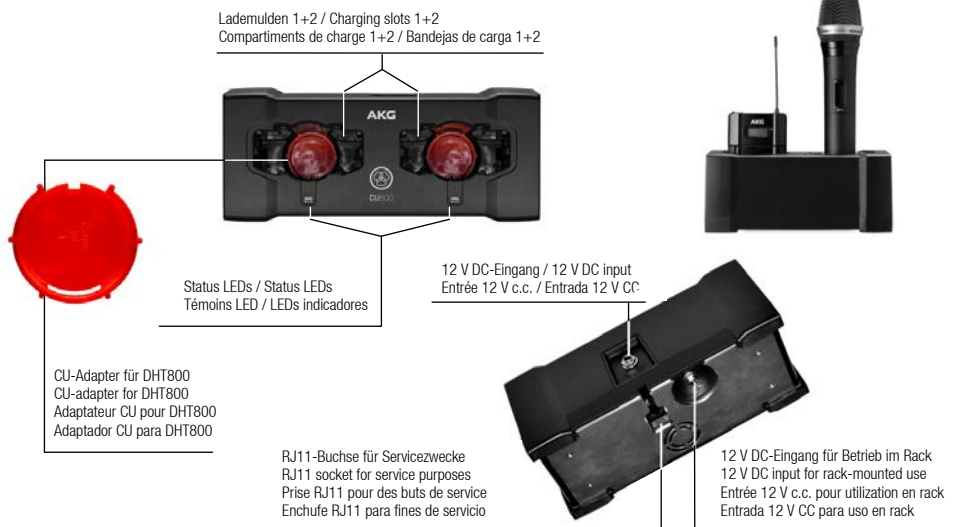
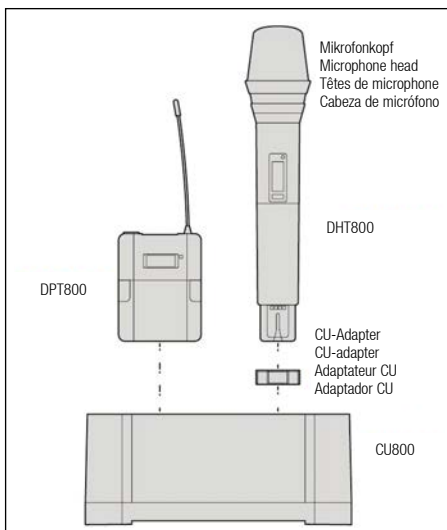
Le chargeur CU800 a été conçu spécialement pour le système sans fil DMS800. Il est aussi compatible avec DMS700. Le chargeur possède deux compartiments de charge dont les moulages correspondent aux émetteurs DHT800 (avec les adaptateurs inclus) et DPT800. Vous pouvez donc l'utiliser pour charger deux émetteurs avec accus simultanément et indépendamment l'un de l'autre. Vous pouvez charger des accus sans les sortir de l'émetteur.

ES

La estación de carga CU800 fue desarrollada especialmente para el sistema inalámbrico DMS800 y es también compatible con DMS700. La estación de carga dispone de dos bandejas de carga de forma especial para acoger los transmisores DHT800 (con los adaptadores incluidos) y DPT800. Con ello se pueden cargar dos transmisores con acumuladores en forma simultánea y completamente independiente. Para cargar los acumuladores no es necesario sacarlos del transmisor.



LADEN / CHARGING / CHARGER / CARGAR



FUNKTIONSWEISE DER STATUS-LEDs / STATUS LED INDICATIONS / FONCTIONNEMENT DES TÉMOINS LED / FUNCIONAMIENTO DE LOS LEDs INDICADORES

LED		Status / Status / Etat / Estatus
---		Die Ladestation ist betriebsbereit, in keiner Lademulde ist ein Sender eingesetzt. / The charger is ready to operate, no transmitter is inserted in a charging slot. Le chargeur est en ordre de marche, il n'y a pas d'émetteur dans le compartiment. / La estación de carga está en régimen de servicio, no se encuentra ningún transmisor en la bandeja de carga.
orange / orange orange / naranja		Spannung und Temperatur der im Sender eingesetzten Akkus werden überprüft. LED blinkt, bis Temperatur wieder im zulässigen Bereich liegt (5-40°C). The voltage and temperature of the batteries inside the inserted transmitter are being checked. LED flashes until temperature is within specified range (5-40 °C / 41-104 F). Le contrôle de la tension et de la température des accus dans l'émetteur est en cours. La LED clignote jusqu'à ce que la température se situe dans la fourchette spécifiée (5-40 °C). La tensión y la temperatura de los acumuladores insertados en el transmisor están siendo verificadas. El LED parpadea hasta que la temperatura se encuentre en la gama especificada (5-40 °C).
rot / red / rouge / rojo		Die Akkus werden geladen. / The batteries are being charged. / Recharge des accus en cours. / Los acumuladores se están cargando.
grün / green vert / verde		Die Akkus sind voll geladen, der Ladezyklus ist beendet. / The batteries are fully charged; the charging cycle is completed. Les accus sont chargés à fond, le cycle de charge est terminé. / Los acumuladores están completamente cargados, el ciclo de carga ha terminado.
>rot< / >red< >rouge< / >rojo<		Fehler / Error / Erreur / Fallo

BEDIENUNGSHINWEISE / OPERATING NOTES / CONSIGNES D'UTILISATION / NOTAS SOBRE EL MANEJO

DE

Schalten Sie den Sender vor dem Ladevorgang immer aus. Schalten Sie den Sender während des Ladezyklus niemals ein, weil die Ladestation dadurch möglicherweise das Ende des Ladezyklus anzeigt, bevor dieser tatsächlich beendet ist. Sie können den Sender jederzeit vor dem Ende des Ladezyklus aus der Ladestation entfernen und Sie können die im Sender befindlichen Akkus jederzeit nachladen, also auch bevor sie vollständig entladen sind. Um eine lange Lebensdauer der Akkus zu gewährleisten, empfehlen wir jedoch, die Akkus immer vollständig zu entladen, also erst dann nachzuladen, wenn der Sender eine geringe Akkukapazität anzeigt und die Akkus immer voll zu laden, also erst nach dem Ende des Ladezyklus aus der Ladestation herauszunehmen; sowie ausschließlich die in den „Technischen Daten“ empfohlenen Akkutypen zu verwenden. Vermeiden Sie Erschütterungen während des Ladezyklus und achten Sie darauf, dass die Ladestation fest auf einer harten Unterlage steht. Die Akkus erreichen erst nach einigen Ladezyklen die volle Kapazität. Wenn sich ein Sender mit vollgeladenen und ein Sender mit leeren Akkus in der Ladestation befinden, kann der Ladezyklus bis zu 10 Stunden dauern. Wenn Sie einen Sender mit normaler Batterie in die Ladestation einsetzen, wird nach dem Prüfvorgang und einer kurzen Ladezeit der Ladezyklus abgebrochen. Die STATUS-LED beginnt rot zu blinken.

EN

Always switch OFF the transmitter before charging. Never switch the transmitter ON during the charging cycle. This may cause the charger to falsely indicate a completed charging cycle before charging is actually completed. You may safely remove the transmitter at any time before the charging cycle is completed and you may safely charge the batteries inside the transmitter at any time, even before the batteries are completely discharged. However, to ensure a long lifetime of the rechargeable batteries we recommend to completely discharge the batteries every time, i.e., not to charge the batteries before the battery warning appears on the transmitter display and to charge the batteries to capacity every time, i.e., not to remove them from the charger before the charging cycle is completed. Use no batteries other than the rechargeable types recommended in "Technical Data". Make sure the charger will not be subjected to vibrations during the charging cycle and will rest firmly on a hard surface. Rechargeable batteries will only reach their full capacity after several charging cycles. If a transmitter with fully charged batteries and another one with dead batteries are in the charging slots, the charging cycle may take up to ten hours. If you insert a transmitter with a dry battery into the charger, the charging cycle will be stopped immediately after the battery test and a few minutes of charging the STATUS LED will start flashing red.

FR

Éteignez toujours l'émetteur avant le chargement. Ne mettez jamais l'émetteur sous tension pendant le cycle de charge; auquel cas le témoin indiquerait la fin du cycle de charge avant que ce dernier soit réellement terminé. Vous pouvez sortir l'émetteur du chargeur à un moment quelconque avant la fin du cycle de charge. Vous pouvez recharger les accus se trouvant dans l'émetteur à un moment quelconque, même s'ils ne sont pas complètement épuisés. Toutefois pour prolonger la durée de vos accus nous vous recommandons de toujours attendre que les accus soient complètement épuisés, autrement dit de ne pas les recharger tant que l'émetteur indique une faible capacité des accus y de toujours charger les accus à fond, autrement dit, ne les sortir du chargeur qu'une fois le cycle de charge terminé. Utilisez exclusivement des accus du type recommandé comme indiqué dans les "Spécifications". Évitez les vibrations pendant le cycle de charge et veillez à ce que le chargeur soit placé sur une base fixe et rigide. Les accus n'atteignent leur capacité maximale qu'au bout de quelques cycles de charge. S'il y a un émetteur avec des accus chargés à fond et un émetteur avec des accus épuisés dans les moules de charge, le cycle de charge peut durer jusqu'à 10 heures. Si vous mettez sur le chargeur un émetteur contenant une pile ordinaire, le cycle de charge sera interrompu immédiatement après le processus de contrôle et un début de charge. Le témoin LED se met à clignoter sur rouge.

ES

Apague siempre el transmisor antes de cargarlo. No encienda nunca el transmisor durante un ciclo de carga, ya que en este caso el LED puede indicar la terminación del ciclo de carga antes de que éste haya realmente terminado. El transmisor se puede retirar en cualquier momento de la estación de carga antes de haber concluido el ciclo de carga. Los acumuladores que se encuentran en el transmisor se pueden recargar en cualquier momento, es decir, también antes de que estén completamente descargados. No obstante, para garantizar una larga duración de los acumuladores, recomendamos descargar siempre completamente los acumuladores, es decir, volver a recargarlos tan solo cuando el transmisor indique una reducida capacidad de acumulador y cargar los acumuladores completamente, es decir, no sacarlos de la estación de carga antes de que haya concluido el ciclo de carga. Utilice exclusivamente los tipos de acumulador recomendados en los "Datos técnicos". Evite sacudidas durante el ciclo de carga y controle que la estación de carga esté colocada firmemente sobre un soporte duro. Los acumuladores llegan a su plena capacidad solamente después de varios ciclos de carga. Si hay un transmisor con acumuladores completamente cargados en una bandeja de carga y un transmisor con acumuladores descargados en la otra, el ciclo de carga puede durar hasta 10 horas. Si se introduce un transmisor con pilas normales en la estación de carga, el ciclo de carga se interrumpe después del procedimiento de control y de un breve tiempo de carga. El LED indicador empieza a parpadear en rojo.

TECHNISCHE DATEN / TECHNICAL DATA / SPÉCIFICATIONS / DATOS TÉCNICOS

Modell / Model / Modèle / Modelo	CU800
Typ / Type / Type / Tipo	Ladestation / Charging unit / Chargeur / Estación de carga
Betriebsspannung / Operating voltage / Tension de service / Tensión de servicio	12 V DC, max. 2 A / 12 V DC, 2 A max. / 12 V c.c. maxi 2 A / 12 V CC, max 2 A
Empfohlene Akkus / Recommended batteries / Accus recommandés / Acumuladores recomendados	NiMH oder NiCd-Akkus mit 1900 mAh Mindestkapazität / NiMH or NiCd rechargeable, minimum capacity: 1900 mAh NiMH or NiCd, capacité minimum de 1900 mAh / Acumuladores NiMH o NiCd con capacidad mínima de 1900 mAh
Netzspannung / AC voltage / Tension secteur / Tensión de red	100 – 240 V AC / 100 – 240 V AC / 100 – 240 V c.a. / 100 – 240 V CA
Ladestrom / Charging current / Courant de charge / Corriente de carga	typ. 1,4 A bei Betrieb einer Lademuße / typ. 1.4 A in single-slot mode typ. 1.4 A lorsqu'on utilise un compartiment / tip. 1,4 A para el funcionamiento de una sola bandeja de carga
Ladezeit / Charging time / Durée de la charge / Tiempo de carga	typ. 1,5 Stunden bei Betrieb einer Lademuße (abhängig von Akkutyp und -kapazität) typ. 1.5 hours in single-slot mode (depending on battery type and capacity) typ. 1,5 heures lorsqu'on utilise un compartiment (suivant le type et la capacité l'accu) tip. 1.5 horas para el funcionamiento de una sola bandeja de carga (dependiendo del tipo y de la capacidad de los acumuladores)
Abmessungen / Dimensions / Dimensions / Dimensiones	194 x 85 x 82 mm (7.68 x 3.35 x 3.23")
Nettogewicht / Net weight / Poids net / Peso neto	670 g (23.63 oz.)
Lieferumfang / Scope of delivery / Contenu de la livraison / Volumen de suministro	1x CU800 Ladestation, 1 Netzteil EU/US/UK/AU, 4x NiMH Akkus, Größe AA, 2x CU-Adapter 1x CU800 charger, 1x AC adapter EU/US/UK/AU, 4x AA size NiMH rechargeable batteries, 2x CU-adapter 1x chargeur CU800, 1x bloc secteur EU/US/UK/AU, 4x accus NiMH, dimension AA, 2x adaptateurs CU 1x estación de carga CU800, 1x alimentador de red EU/US/UK/AU, 4x acumuladores NiMH, tamaño AA, 2x adaptadores CU

KONFORMITÄTSERKLÄRUNG / DECLARATION OF CONFORMITY / DÉCLARATION DE CONFORMITÉ / DECLARACIÓN DE CONFORMIDAD

DE

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EN

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FR

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ES

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For other products and distributors worldwide visit www.akg.com. Specifications are subject to change without notice.



Printed in China (P.R.C.)

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help. Shielded cables and I/O cords must be used for this equipment to comply with the relevant FCC regulations. Changes or modifications not expressly approved in writing by AKG Acoustics may void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

HARMAN AKG ACOUSTICS GMBH, LAXENBURGER STRASSE 254, 1230 VIENNA AUSTRIA

HARMAN AKG ACOUSTICS, U.S., 8500 BALBOA BOULEVARD, NORTHRIDGE, CA 93129, U.S.A

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D 5/D 5 S

- **Extremely rugged vocal/speech microphone**
- **Available with or without on/off switch**
- **Patented AKG Laminated Varimotion diaphragm**
- **Spring steel wire-mesh grill**

The D 5 dynamic vocal microphone for lead and backing vocals delivers a powerful sound even on the noisiest stage. Its supercardioid polar pattern ensures maximum gain before feedback (for more details, visit www.feedbackisdead.com). The D 5 stands for a crisp sound that cuts through every mix.

AKG made the first microphone diaphragm ever whose thickness varies across its diameter. The new Laminated Varimotion diaphragm deep-drawing process allows the diaphragm itself to be fine-tuned with no extra tuning resonators, leading to a quantum leap in audio performance.

The dual shock mount eliminates any kind of mechanical noise for trouble-free live use. The audience will hear nothing but the pristine sound of your voice!

Available versions:

D 5: for standard applications.

D 5 S: with on/off switch.

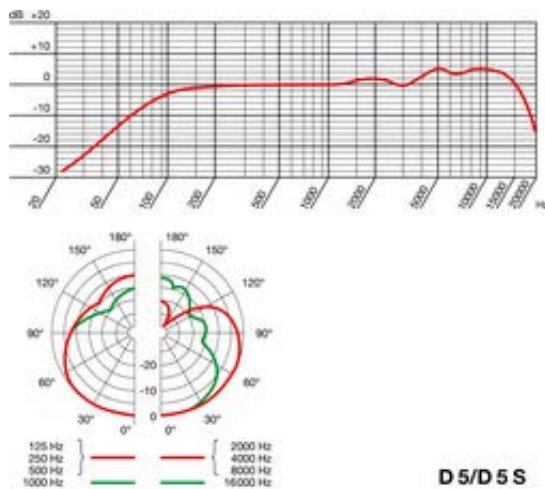
D 5 WL 1: D 5 microphone element with threaded connection for use with AKG wireless systems.

Specifications

Polar pattern	supercardioid
Frequency range	70 Hz to 20 kHz
Sensitivity	2.6 mV/Pa (-52 dBV)
Max. SPL	147/156 dB SPL (for 1% / 3% THD)
Equivalent noise level	18 dB-A
Impedance	<= 600 ohms
Recommended load impedance	>= 2000 ohms
Connector	3-pin XLR
Finish	matte grayish blue
Dimensions	length: 185.2 mm (7.3 in.); diameter: 51 mm (2 in.)
Net weight	340 g (12 oz.)
Shipping weight	655 g (1.45 lbs.)
Patent(s)	Varimotion multiple-thickness diaphragm for dynamic transducer (Patent no. AT 403.751, US 6,185,809, EP 814.637 (DE, DK, FI, FR, GB, IT, NL), JP 3.927.651)



Frequency curve and polar pattern



DMS800

DIGITAL WIRELESS MICROPHONE SYSTEM



EVEN MORE DIGITAL

It's tough to follow a star performer. The new AKG DMS800 nails it. Successor to the DMS700 V2, the new DMS800 wireless microphone system offers everything that made its predecessor an outstanding performer and adds features to deliver more versatility than ever before. These include two digital audio outputs – for DANTE and AES EBU, improved design and mechanics for the DHT800 handheld transmitter and interchangeable microphone heads.

HIGHLIGHTS

- » **Now with digital audio outputs DANTE and AES EBU**
- » **Interchangeable microphone heads**
- » **HiQnet network remote control and monitoring**
- » **Digital wireless audio transmission**
- » **150 MHz ultrawide frequency range**
- » **512-bit encryption**

APPLICATIONS

- » Theater
- » Conference
- » Live production
- » Tour sound

SYSTEM SPECIFICATIONS

Frequency bands	1: 548.1 - 605.9 & 614.1 - 697.9 MHz; 1 AU: 548.1 - 605.9 & 614.1 - 693.9 MHz; 1 NZ: 548.1 - 605.9 & 622.1 - 697.9 MHz; 1 UK: 548.1 - 697.9 MHz; 2: 710.1 - 785.9 & 823.1 - 831.9 MHz; 2 DE: 710.1 - 789.9 & 823.1 - 831.9 MHz; 2 JP: 806.125 - 809.750 MHz
Switching bandwidth	max. 150 MHz (depending on frequency band)
Diversity system	digital diversity
Radio output power	10 to 50 mW (depending on frequency band)
Audio bandwidth	25 – 20 000 Hz (+/- 3dB)
Frequency selection	selectable frequency in 25 kHz steps
Switchable RF power	yes
Modulation	digital FSK
Radio range (Line of sight)	100 m (depending on antenna system)
Encryption	512 bit

DSR800

Rack size

full 19"

Dimensions

480 x 45 x 230 mm / 18.9 x 1.77 x 9.06 in



DHT800

Dimensions

170 mm, 37 mm \varnothing / 6.69 in, 1.46 in \varnothing (w/o mic head)

240 mm, 55 mm \varnothing / 9.45 in, 2.17 in \varnothing (w. mic head)



DPT800

Dimensions

82 x 65 x 28 mm / 3.23 x 2.56 x 1.10 in (w/o antenna)

184 x 65 x 28 mm / 7.24 x 2.56 x 1.10 in (w. antenna)



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AKG ACOUSTICS, U.S. 8500 BALBOA BOULEVARD, NORTHRIDGE, CA 91329, U.S.A.

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CUTSHEET



EC81 MD

REFERENCE LIGHTWEIGHT CARDIOID EAR-HOOK MICROPHONE



HIGHLIGHTS

- » **Comfortable design**
ready for extended use
- » **Microdot connector**
works with all major wireless systems
- » **Superior EMC protection**
for interference-free use
- » **Cardioid capsule**
to reduce background and feedback noise

APPLICATIONS

- » Theater
- » Broadcast
- » Conferences

KEEP YOUR AUDIENCE HOOKED

Designed for theater, broadcast, musical performances and conferences, the EC81 MD reference lightweight cardioid ear-hook microphone is engineered for accurate, specific placement. Featuring a flexible ear-hook and adjustable boom length, it's easy for the wearer to find the perfect fit without any help.

When it comes to sound, its sensitive cardioid polar pattern picks up a wide range of frequencies—from bass to soprano—and provides flexibility in getting the best sound from the source.

Available in two colors, the EC81 MD microphone is ready to help you stand out—without standing out.

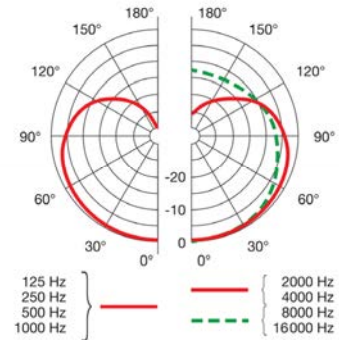
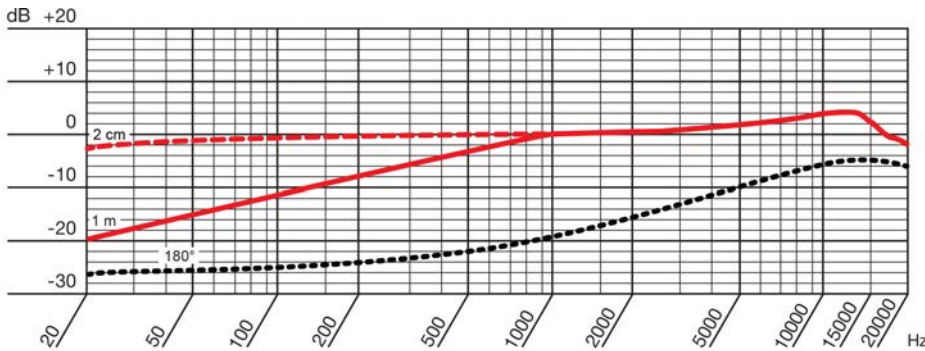
MICROLITE

KEY SPECIFICATIONS

Capsule	Condenser microphone capsule
Polar pattern	Cardioid
Audio frequency bandwidth	400 to 18,000 Hz (± 6 dB)
Sensitivity	11 mV/Pa (-39.2 dBV)
Signal/Noise Ratio (A-weighted)	54 dB(A)
SPL for 1% THD at 1 kHz	118 dB
Electrical impedance at 1 kHz	5000 ohms
Power requirement (typical AKG powering)	5 volts at 4k5 ohms, 2 wire power supply
Dimensions	10 mm x 4.8 mm (ϕ) / 0.39" x 0.19" (ϕ)
Weight	2 g / 0.07 oz (w/o cable)
Included accessories	<ul style="list-style-type: none"> 1x MDA1 Microdot adapter AKG 1x WM81 Wiremesh cap 1x W81 Foam windscreen 1x MUP81 Make-up protector 1x Perspiration protector 1x H3 Croco cable clip 1x Zip bag



Frequency response curve / Polar pattern



Item number / UPC / EAN:



EC81 MD beige
 SKU: 3242Z00010
 UPC: 885038038481
 EAN: 9002761038484



EC81 MD cocoa
 SKU: 3242Z00020
 UPC: 885038038498
 EAN: 9002761038491



AKG ACOUSTICS GMBH LAXENBURGER STRASSE 254, 1230 VIENNA/AUSTRIA
AKG ACOUSTICS, U.S. 8500 BALBOA BOULEVARD, NORTHRIDGE, CA 91329, U.S.A.

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Features, specifications and appearance are subject to change without notice.

SRA 2 W

Passive wideband directional antenna

- For indoor and outdoor use, preferred-direction coverage
- Water-resistant, rugged case with BNC input



© 2012 AKG Acoustics GmbH

SRA 2 W Passive Unidirectional Antenna

The antenna shall be a passive unidirectional panel antenna operating in the UHF range. The antenna gain of 4 dB shall allow for the use of RG 58 cables up to 10 m long or RG 213 cables up to 20 m long. The antenna shall feature an integrated, swiveling 3/8" stand adapter thread, and 50-ohm BNC connectors. The carrier frequency range of the antenna shall be 500 MHz to 865 MHz, its antenna gain 4 dB, size 230 x 240 x 26 mm (9.0 x 9.4 x 1.0 in.), and its weight 250 g (8.8 oz.).

The passive unidirectional antenna shall be the SRA 2 W from AKG.

Conference
Seminar
House of Worship / Church
School
Live Sound / Club Music



- Half 19" all metal case diversity receiver
- Automatic frequency setup
- Up to **16 pre-programmed frequencies** within the same frequency band.
- **Pilot Tone** prevents unexpected start-up noise
- Infrared link of all frequency and setup data to the transmitter
- Up to **14 hours battery life** and battery status information in hours
- Two-color display backlighting to indicate critical operation conditions (low battery, audio peak, RF low)
- Compatible with WMS 4500 antenna splitters, power supplies, and high quality directional and omni-directional antennas



WMS 470

Wireless Microphone System

AKG WMS 470 is your best choice for any application calling for a solution that is more flexible than a simple plug-and-play system, yet easy to set up and operate. WMS 470 is a high-performance solution for any situations where several radio mics will be used simultaneously, including gigs at clubs and stages, for regional events, seminars or house of worship applications.

With 30 MHz tuning range you can select 1200 frequencies and operate with up to **20 channels** simultaneously within the same frequency band or up to **48 channels** in multiple bands.

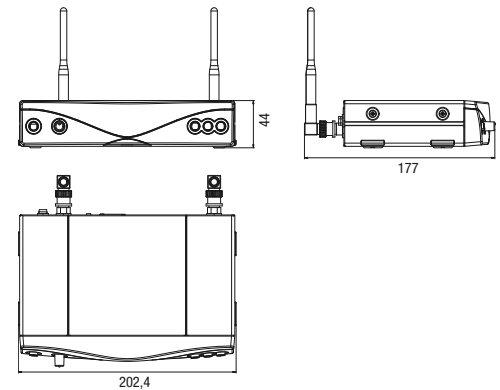
WMS 470 is the most cost-efficient wireless systems. Transmitters are powered by a single AA size **Alkaline** (LR6), **Lithium** (FR6) or **Ni-MH rechargeable** (HR6) battery and provide up to 14 hours of continuous operation.

Being compatible and based on the technology of the professional WMS 4500 wireless system you can set up even complex wireless systems using antenna splitters, power supply units and the whole range of professional **directional** or **omni-directional antennas**.



Conference
Seminar
House of Worship / Church
School
Live Sound / Club Music

- 30.5 MHz tuning range
- Half 19" all metal case diversity receiver
- **Automatic setup function** designed for less experienced operators
- Up to **16 pre-programmed frequencies** per group
- **Pilot Tone** prevents unexpected start-up noise
- Infrared link of all frequency and setup data to the transmitter
- Transmitter battery status monitoring
- Programmable warning functions using a two-color display backlighting to indicate critical operation conditions (low battery, audio peak, RF low)
- Compatible with WMS 4500 antenna splitters, power supplies, and high quality directional and omni-directional antennas



SR 470

SR 470 Receiver Specifications

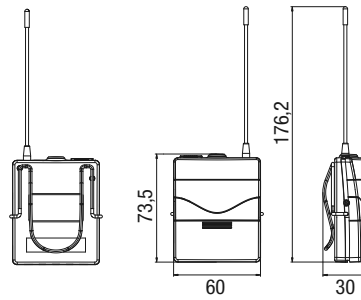
Carrier frequency range	Band 1: 650 to 680 MHz	Band 6-A-ISM: 835.1 to 861.9 & 863.1 to 864.9 MHz	
	Band 3: 720 to 750 MHz	Band 7: 500.1 to 530.5 MHz	
	Band 3-K: 740.1 to 751.9 MHz	Band 8: 570.1 to 600.5 MHz	
	Band 5-A: 790.1 to 819.9 MHz	Band 9: 600.1 to 605.9 & 614.1 to 630.5 MHz	
	Band 5-B: 806.125 to 809.750 MHz	Band 9-U: 600.1 to 630.5 MHz	
	Band 5-D: 794.1 to 805.9 MHz		
	Switching bandwidth	Δ 30.5 MHz (country dependent)	
	Sensitivity	6.3 dBμV / -100 dBm	
Diversity System	Microprocessor-controlled diversity		
Modulation	Wideband FM		
Audio bandwidth	35 – 20 000 Hz (± 3 dB)		
T.H.D.	Δ 0.3 %		
SNR (A-weighted)	typ. 120 dB(A)		
Audio outputs	1 x XLR sockets balanced		
	1 x TS ¼" / 6.3 mm jack sockets unbalanced		
Dimensions	½ 19 inch 1U rack, 202 mm (7.8 in.) × 44 mm (1.7 in.) × 190 mm (7.4 in.)		
Net / Shipping Weight	972 g (2.2 lbs.)		
Standard Accessories	2 UHF antennas, power supply, rack mount kit		

Item number: SR 470 3300H00..

Architects' and Engineers' Specifications

The receiver shall be a stationary diversity design with pilot tone, 1200 carrier frequencies that can be programmed within a 30 MHz wide subband and a rugged half-rack case with backlit liquid crystal color display. The receiver shall provide indicators for audio and RF levels; diversity mode (A/B); transmitter battery status; name, frequency, frequency group, and preset (country) name. The color of the backlighting shall change between green and red to indicate normal operation or display user-selectable warning messages (low battery capacity, audio level, RF level, etc.). The receiver shall select intermodulation-free frequencies automatically from an integrated frequency database arranged by local frequency allocations and provide an automatic function for finding dead spots. An infrared radiator shall transmit setup parameter data to the transmitter. Rear panel BNC sockets shall allow either the supplied antennas or a complex antenna network to be connected to the receiver. The squelch threshold shall be adjustable between -80 and -100 dBm. The receiver's audio bandwidth shall be 35 Hz to 20 kHz; S/N 120 dB(A); THD <0.3% at 1 kHz. Audio outputs shall comprise a balanced 3-pin XLR output switchable to -30 dB or 0 dB and an unbalanced 1/4" TS jack. The receiver shall provide a lockable DC input for the supplied 12 V DC power supply. The receiver shall measure 200 x 44 x 190 mm (W x D x H) and weigh 972 g. The receiver shall be the AKG SR 470 or equivalent.

Conference
Seminar
House of worship / Church
School
Live Sound / Club Music



- Extremely light and compact bodypack transmitter
- Premium audio quality
- **Pilot Tone**
- Quick **setup via infrared** link of all frequency and setup data from receiver
- Long battery life - **most cost-efficient wireless system**
- Up to 50 mW RF-output power
- **14 hours battery life** (Lithium battery)
- Battery status information in hours
- Low battery data transmission to receiver

PT 470

PT 470 Bodypack Transmitter Specifications

Carrier frequency range	Band 1: 650 to 680 MHz	Band 6-A-ISM: 835.1 to 861.9 & 863.1 to 864.9 MHz
	Band 3: 720 to 750 MHz	Band 7: 500.1 to 530.5 MHz
	Band 3-K: 740.1 to 751.9 MHz	Band 8: 570.1 to 600.5 MHz
	Band 5-A: 790.1 to 819.9 MHz	Band 9: 600.1 to 605.9 & 614.1 to 630.5 MHz
	Band 5-B: 806.125 to 809.750 MHz	Band 9-U: 600.1 to 630.5 MHz
	Band 5-D: 794.1 to 805.9 MHz	

Switching bandwidth	± 30.5 MHz (country dependent)
RF output power	10 or 50 mW (ERP, country dependent)
Modulation	Wideband FM
Audio input	TB3M / 3-pin mini-XLR socket (max. 2.5 Vrms)
Audio bandwidth	35 – 20 000 Hz (± 3 dB)
T.H.D.	± 0.7 %
SNR (A-weighted)	> 120 dB(A)
Battery life	≥ 7 hours with one 1.5 V LR6 AA alkaline battery ≥ 8 hours with one 1.2 V HR6 AA rechargeable battery (min. 2100 mAh) ≥ 14 hours with one 1.5 V FR6 AA lithium battery
Dimensions	60 mm (2.4 in.) × 73.5 mm (2.9 in.) x 30 mm (1.2 in.)
Net / Shipping Weight	90 g (3.2 oz.) without batteries
Standard Accessories	1 AA size LR6 batteries, belt clip

Item number: PT 470 3302H00..

Available AKG Microphones:

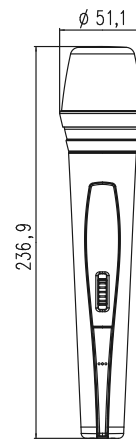


Architects' and Engineers' Specifications

The bodypack transmitter shall be housed in a miniature body and provide pilot tone and 1200 carrier frequencies that can be programmed via infrared within a 30 MHz wide subband. An LC display shall indicate the transmitter battery capacity in hours, as well as the frequency, frequency group, and preset name. An outside infrared sensor shall allow the frequency and input gain setting to be programmed, and a silent mode shall permit the transmitter to be used legally in R&TTE countries. The transmitter shall transmit low battery capacity and muting information to the receiver and use an integrated dipole transmitting antenna. The transmitter shall be available with an RF output of 10 mW or 50 mW (ERP). The transmitter shall provide a lockable on/mute/off switch with IR programming and silent mode functions. Charging contacts on the bottom panel shall allow the easy charging of a rechargeable battery inside the transmitter and a 2.5 mm jack shall allow an external mute switch to be connected. The audio bandwidth of the transmitter shall be 35 Hz to 20 kHz; S/N 120 dB(A); THD at 1 kHz < 0.7%. The input gain shall be adjustable by means of a special tool integrated in the battery compartment cover. The transmitter shall operate off one AA size LR6 dry battery for >7 hours, up to 8 hours off one AA size NiMH rechargeable battery and up to 14 hours off one AA size FR6 lithium battery. The bodypack transmitter shall measure 60 x 73.5 x 30 mm and weigh 90 g. The bodypack transmitter shall be the AKG PT 470 or equivalent.

Conference
Seminar
House of Worship / Church
School
Live Sound / Club Music

- Available with D 5 or C 5 high quality microphone element
- Premium audio quality
- **Pilot Tone**
- Quick **setup via infrared** data link of all frequency and setup data from receiver
- Long battery life - **most cost-efficient wireless systems**
- Up to 50 mW RF-output power
- **14 hours battery life** (Lithium battery)
- Battery status information in hours
- Low battery data transmission to receiver



HT 470

HT 470 Handheld Transmitter Specifications

Carrier frequency range	Band 1: 650 to 680 MHz	Band 6-A-ISM: 835.1 to 861.9 & 863.1 to 864.9 MHz
	Band 3: 720 to 750 MHz	Band 7: 500.1 to 530.5 MHz
	Band 3-K: 740.1 to 751.9 MHz	Band 8: 570.1 to 600.5 MHz
	Band 5-A: 790.1 to 819.9 MHz	Band 9: 600.1 to 605.9 & 614.1 to 630.5 MHz
	Band 5-B: 806.125 to 809.750 MHz	Band 9-U: 600.1 to 630.5 MHz
	Band 5-D: 794.1 to 805.9 MHz	
	Switching bandwidth	± 30.5 MHz (country dependent)
RF output power	10 or 50 mW (ERP, country dependent)	
Modulation / Bandwidth	Wideband FM	
Microphone capsules	D 5 – dynamic (super cardioid)	
	C 5 – condenser (cardioid)	
Max. SPL	≤ 144 dB SPL	
Audio bandwidth	35 – 20 000 Hz (± 3 dB)	
T.H.D.	± 0.7 %	
SNR (A-weighted)	> 120 dB(A)	
Battery life	≥ 7 hours with one 1.5 V LR6 AA alkaline battery	
	≥ 8 hours with one 1.2 V HR6 AA rechargeable battery (min. 2100 mAh)	
	≥ 14 hours with one 1.5 V FR6 AA lithium battery	
Dimensions	237 mm (9.3 in.) length, 51 mm (2 in.) dia.	
Net / Shipping Weight	240 g (8.5 oz.) without batteries	
Standard Accessories	1 x AA size LR6 battery, stand adapter, windscreen	
	Item number:	HT 470 D 5 3301X00.. HT 470 C 5 3301X00..

Architects' and Engineers' Specifications

The handheld transmitter shall be housed in a miniature body and provide pilot tone, 1200 carrier frequencies that can be programmed via infrared within a 30 MHz wide subband. An LC display shall indicate the transmitter battery capacity in hours, as well as the frequency, frequency group, and preset name. An outside infrared sensor shall allow the frequency and input gain setting to be programmed, and a silent mode shall permit the transmitter to be used legally in R&TTE countries. The transmitter shall transmit low battery capacity and muting information to the receiver and use an integrated dipole transmitting antenna. The transmitter shall be available with an RF output of 10 mW or 50 mW (ERP). The transmitter shall provide a central on/mute/off switch with IR programming and silent mode functions. Charging contacts on the bottom panel shall allow the easy charging of a rechargeable battery inside the transmitter. The audio bandwidth of the transmitter shall be 35 Hz to 20 kHz; S/N 120 dB(A); THD at 1 kHz < 0.7%. The transmitter shall operate off one AA size dry battery for >7 hours, up to 8 hours off one AA size NiMH rechargeable battery and up to 14 hours off one AA size FR6 lithium battery. The handheld transmitter shall measure 236.9 mm long x 51.1 mm max. dia. and weigh 240 g. A stand adapter shall be included as a standard accessory. The handheld transmitter shall be the AKG HT 470 or equivalent.

WMS 470 Sets



WMS 470 D5

- SR 470 Receiver
- HT 470 Handheld with D5 Capsule
- Stand Adaptor
- 19" Rack Mount Kit
- LR6 Battery
- EU/US/UK Power Supply
- ¼-Wave Antennas

Item number:
3305X00..



WMS 470 C5

- SR 470 Receiver
- HT 470 Handheld with C5 Capsule
- Stand Adaptor
- 19" Rack Mount Kit
- LR6 Battery
- EU/US/UK Power Supply
- ¼-Wave Antennas

Item number:
3306X00..



WMS 470 Instrumental

- SR 470 Receiver
- PT 470 Bodypack
- MKGL Instrument Cable
- 19" Rack Mount Kit
- LR6 Battery
- EU/US/UK Power Supply
- ¼-Wave Antennas

Item number:
3307H00..



WMS 470 Presenter

- SR 470 Receiver
- PT 470 Bodypack
- CK 99 L Lavalier Mic.
- C 555 L Headworn Mic.
- 19" Rack Mount Kit
- LR6 Battery
- EU/US/UK Power Supply
- ¼-Wave Antennas

Item number:
3308X00..



WMS 470 Sports

- SR 470 Receiver
- PT 470 Bodypack
- C 544 L Headworn Mic.
- 19" Rack Mount Kit
- LR6 Battery
- EU/US/UK Power Supply
- ¼-Wave Antennas

Item number:
3309X00..

CU 400

AKG's CU 400 is a **fast charger** that rapidly charges the rechargeable battery inside the transmitter without damaging the cell element. CU 400 charger determines the optimum charge current. Charging is terminated when both batteries are fully charged.

The CU 400 charger use the **pulse technology** in which a pulse is fed to the battery. This DC pulse has a strictly controlled rise time, pulse width, pulse repetition rate (frequency) and amplitude.

- 2-hour quick charging.
- Two slots that fit both HT 470 and PT 470.
- LED status information

CU 400 Charging Unit Specifications

Matching devices	HT 470, PT 470, HT 450, PT 450
Rechargeable batteries	AA size, >2100 mAh NiMH rechargeable battery
Slot number	2
Dimensions	7.4(W) x 4.5(H) x 3.1(D) inch / 188(W) x 115(H) x 78(D) mm
Net / Shipping Weight	14.8 oz / 420 g
Standard Accessories	1 x 5 V / 1.5 A DC Power supply

Item number: CU 400 EU/US/UK 2934Z0001
CU 400 no power supply 2934Z0004



Architects' and Engineers' Specifications

The charger shall be housed in a rugged plastic case with two multifunctional charging slots for charging WMS 470 Series wireless transmitters. Each charging slot shall accommodate a handheld or bodypack transmitter and the charger shall be capable of charging any combination of transmitters (e.g., one HT 470 and one PT 470 simultaneously). The batteries shall remain inside the transmitter(s) during charging. The charger shall detect any dry (non-rechargeable) battery inside a transmitter and automatically stop the charging cycle if a dry battery is inserted. A status LED shall be placed in front of each charging slot. These tricolor (red/amber/green) LEDs shall indicate the charger's current operating status: amber - battery is being tested; red - battery is being charged; green - battery is fully charged and charging cycle finished; flashing red - error. The voltage and temperature shall be monitored during the charging cycle and a signal given at the end of a charging cycle to indicate that full capacity has been reached. All required safety parameters shall be monitored and the charging cycle stopped if one or more safety parameters fall below or exceed the acceptable range. Operating voltage shall be 5 VDC, 1.5 A max. The charger shall accept NiMH or NiCd rechargeable batteries with a minimum capacity of 1500 mAh. Typical charging current shall be 1.4 A when one charging slot is used and 0.7 A when both slots are used simultaneously, typical charging time 1.5 hours when one charging slot is used and 3 hours when both slots are used simultaneously (depending on battery type and capacity). The charger shall measure 188 x 115 x 78 mm (LxHxD), weigh approx. 420 g, and be enameled black. The charger shall be the CU 400 or equivalent.



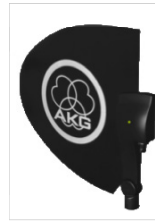
PS 4000 W Power splitter – Antenna distributor to feed up to 5 receiver with the RF-signal of a pair of antennas. To feed more than 5 receivers the PS 4000 W provide a link output to cascade up to 3 PS 4000 W.



PSU 4000 Power supply unit – Three high current 12V DC outputs feed the power to 3 PS 4000 W antenna distributors. Via PS 4000 W 12 receiver and up to 8 active antenna components (SRA 2 B/W, RA 4000 B/W, AB 4000) get the power through the antenna cable.



AB 4000 Antenna Booster – High performance antenna booster for inserting into long antenna cables. One AB 4000 can compensate for approx. 17 dB of cable attenuation. Up to three boosters can be used in series for extremely long cable runs.



SRA 2 B/W Directional antenna – Active antenna with integrated high performance booster required for use with long cable runs.

SRA 2 W Directional antenna – Passive antenna for use with short cable runs (<10 m)



RA 4000 B/W Omni-directional antenna – Active antenna with integrated high performance booster required for use with long cable runs.

RA 4000 W Omni-directional antenna – Passive antenna for use with short cable runs (<10 m)



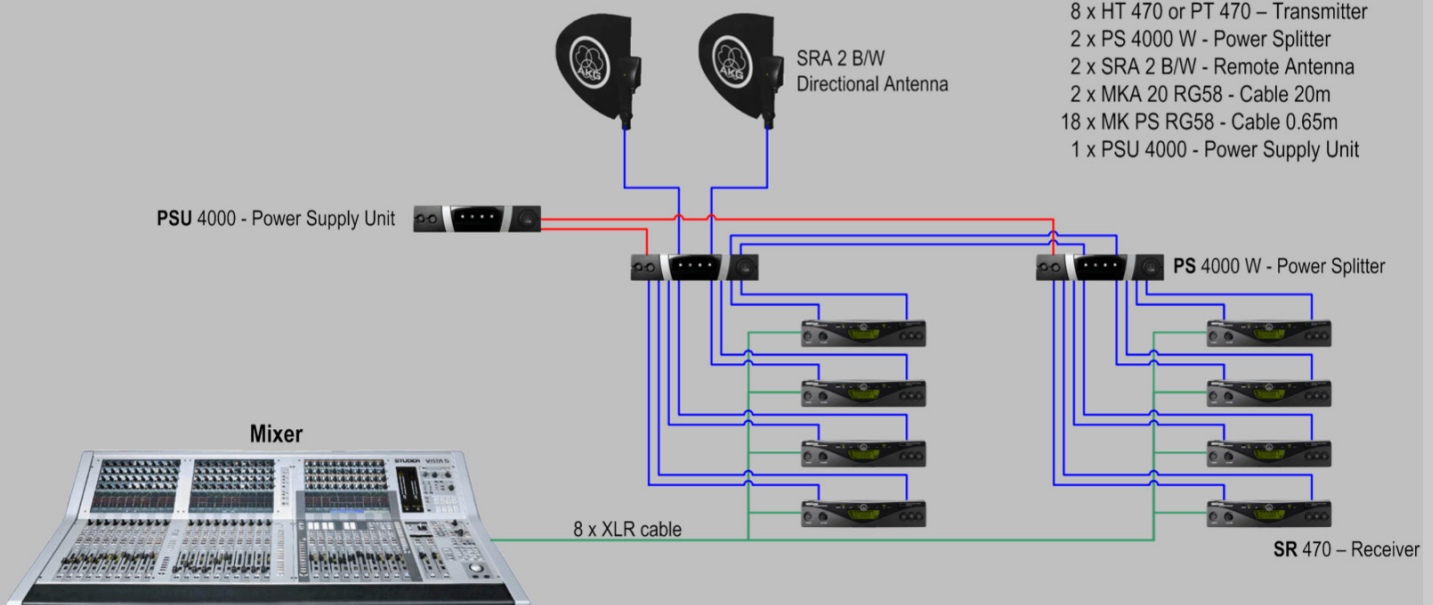
ASU 4000 Antenna Supply Unit – Remote power supply for small systems where no PS 4000 W is in use to provide the necessary power for the active antennas.



ZAPD-21 Passive splitter – 2-into-1 antenna combiner for indoor and outdoor use. Can be used either to split signals or combine them as needed.

Antenna System

8 Channel WMS 470 System



www.akg.com

AKG Acoustics GmbH

Lemböckgasse 21–25, 1230 Vienna /AUSTRIA, phone: + 43 1 86654 0

e-mail: sales@akg.com

AKG Acoustics, U.S.

8400 Balboa Boulevard, Northridge, CA 91329, U.S.A., phone: + 1 818 920 3212

e-mail: akgusa@harman.com

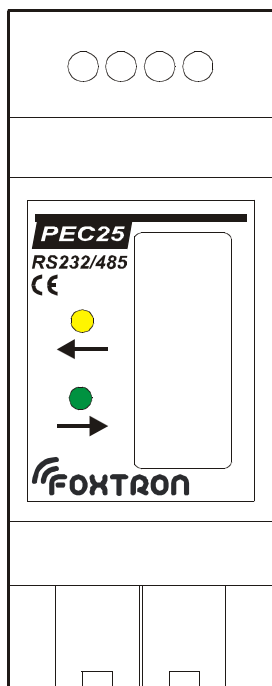
For other products and distributors worldwide visit www.akg.com

Specifications subject to change without notice.



by HARMAN

2 Převodník RS-232/485 typ PEC25



- datový převodník z RS232 na RS485 (*PEXbus*)
- automatický poloduplexní provoz
- indikace směru přenosu
- napájení z jednotek Power Express
- snadná instalace
- malé rozměry

2.1 Technická specifikace

Napájení:

Parametry přenosu:

Vstupní/výstupní

konektory:

Pracovní teplota okolí:

Skladovací teplota:

Rozměry: š x v x h:

Z modulů po *PEXbusu* nebo externě 7.5 - 24 V DC/100mA

19200 bitů/s, 8 datových bitů, parita, 1 nebo 2 stop bity

RS232 – 9 pin D konektor dutinky nebo svorky do 1.5 mm²

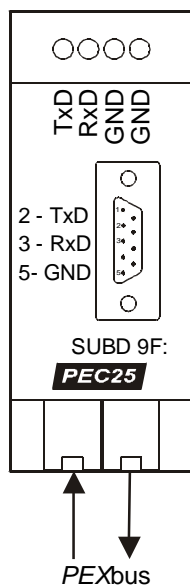
RS485 - 2x konektor RJ-11-4

0 až 50°C

- 20 až 60°C

(36 x 90 x 58) mm (2 moduly, po 17.5 mm)

2.2 Zapojení svorek



Konektor a svorky jsou zapojeny paralelně

TxD vysílání dat

RxD příjem dat

GND datová zem



Protection of LCD screens in outdoor, public or harsh industrial environments.

Designed to accommodate wide range of commercial LCD displays ranging from 19 to 75 inches and housing additional VESA mounts for thin client or dedicated PCs. An Armagard LCD enclosure is the ideal all-in-one digital signage protection solution.



Quick View:

Size (HxWxD)Inches:	call for dimensions
Material:	Powder Coated Mild Steel
Screen Size:	up to 75"
Mounting:	Wall mount or use stand
NEMA rating:	NEMA 4
Product Code:	PDS-series-US

New, LCD Enclosure Slim Solution

A brand new slim LCD enclosure is also available, providing all the protective benefits of the standard enclosure, but with improved temperature management and design qualities. Key components have been remodelled to increase airflow efficiency, and a rescaled size gives the enclosure a streamlined and slimmer appearance. The slim solution is compatible with all existing Armagard components, and most professional VESA displays.

Your LCD Screen Will Be Protected From:

- ✓ Light or heavy rainfall - ideal for outdoor locations
- ✓ Dust and small particulates - ideal for industrial environments
- ✓ Electrical surges - computer crashes become a thing of the past
- ✓ Physical impact - cuts down or eliminates repairs and accidents
- ✓ Temperature extremes - economical, saves money on additional heaters or air-conditioning
- ✓ Theft - ensures peace of mind

All Armagard enclosures are protected from liquids and particulate matter and are constructed according to International NEMA standards as well as European IP standards.

Armagard LCD Enclosures - All In One Digital Signage Protection.



Image not representative of actual sizes



CENA3

SpringFit™ 2,5" ceiling speaker

The unbeatable one. The CENA series are full-range ceiling speakers, designed to offer an unmatched solution for large scale public address projects. The SpringFit™ fixation offers the fastest possible installation time of any speaker available on the market, while the borderless grill design is absolutely unseen for any ceiling speaker in this segment. With the selection of high-quality cone materials, exceptional intelligibility and background music performance are guaranteed. The CENA Series are equipped with SnapConnect™, a faster, more reliable and safer choice for fixed installations, accepting solid and stranded wires with sections up to 4.0 mm².

The CENA3 features a 2,5" broadband driver with a continuous power handling of 10 Watt (RMS) and maximum power handling of 20 Watt. It is fitted with a multi-tapping 100V line transformer with tapings for 6W and 3W.



Impedance:



Voltage:



System specifications:

Max. Power		20 W
RMS Power		10 W
Sound Pressure (Max. W/1m)	@ 100 V	97 dB
Sensitivity (1W/1m)		87 dB
Speaker type		Broadband
Impedance		8 Ω
Frequency	Response (\pm 3 dB)	120 Hz - 20 kHz
Line Transformer Tappings	1	6 W / 1667 Ω
	2	3 W / 3333 Ω
Drivers		2,5" Full Range
Dispersion	Conical	160°

Product Features:

Construction	ABS
Front finish	Borderless finely perforated steel grill
Mounting	SpringFit™ mounting system
Colours	White (RAL9003) (CENA306/W)
	Black (RAL9005) (CENA306/B)
Cut-out measurement	80 mm (\varnothing)
Dimensions	95 x 68 mm (\varnothing x D)
Operating temperature	-15 °C ~ 55 °C

Variants:

- CENA306/W - White version - 8 Ω and 100V
- CENA306/B - Black version - 8 Ω and 100V

Shipping & Ordering:

Packaging

Cardboard box

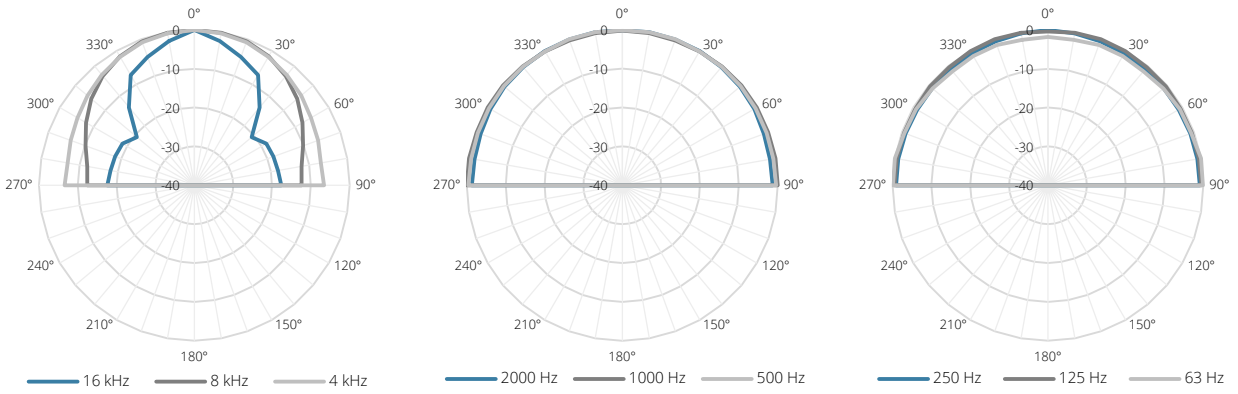
Architects' and Engineers' Specifications:

This ceiling mount loudspeaker shall be a full-range type equipped with a 2.5" driver and fitted with a line transformer allowing it to be used on 100 Volt distributed line systems. It shall have an RMS power handling of 10 Watt with a maximum power handling of 20 Watt and the frequency response (± 3 dB) shall range from 120 Hz to 20 kHz. The sensitivity shall be 87 dB when measuring with an input signal of 1 Watt at a distance of 1 meter, while the maximum continuous sound pressure level shall be 97 dB. The nominal dispersion shall be a 155° conical coverage pattern at -6dB (average 100 Hz - 10 kHz).

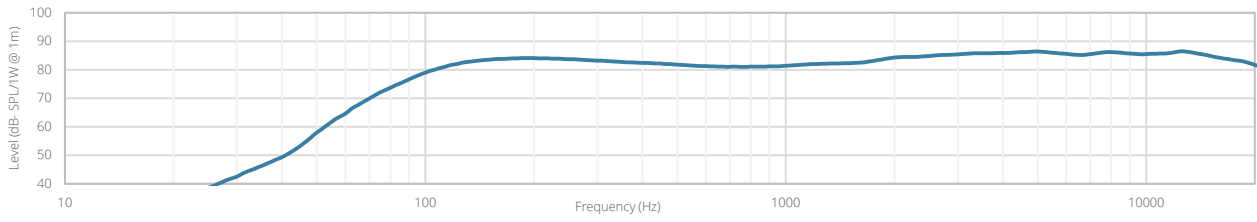
The loudspeaker shall be fitted with a multitapping line transformer with tapings for 6 Watt and 3 Watt. Fast and safe connection of the system shall be possible using SnapConnect™. The speaker's frame shall be constructed in high quality ABS material and the front shall be finished through a borderless and finely perforated steel grill. It shall come available in both white (RAL9003) and black (RAL9005) colours and custom painting shall make it blend-in with any environment. Mounting of the speaker into the ceiling shall be possible using a SpringFit™ installation system.

The speaker shall have a diameter of 95 mm, a depth of 68 mm and the weight shall not exceed 0.4 kg. The speaker shall fit in a mounting hole with a cutout diameter of 80 mm and a build-in depth of 65 mm.

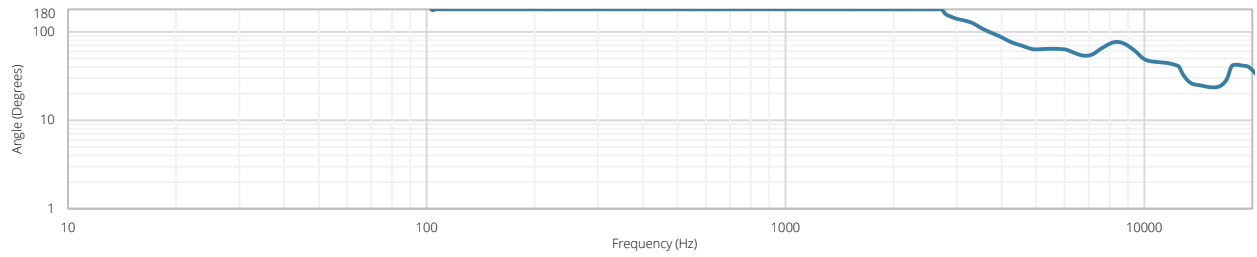
Polars:



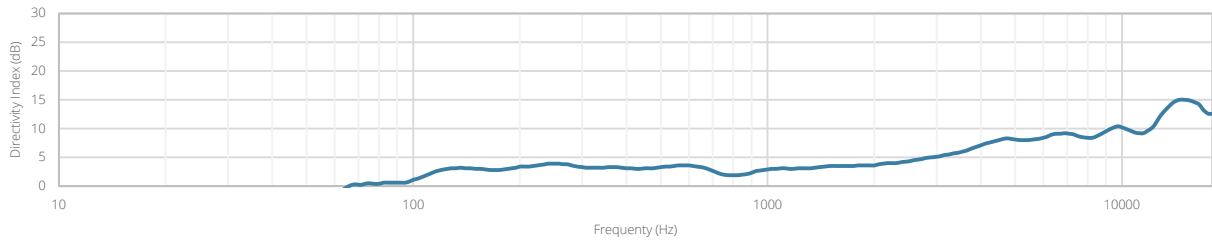
Sensitivity:

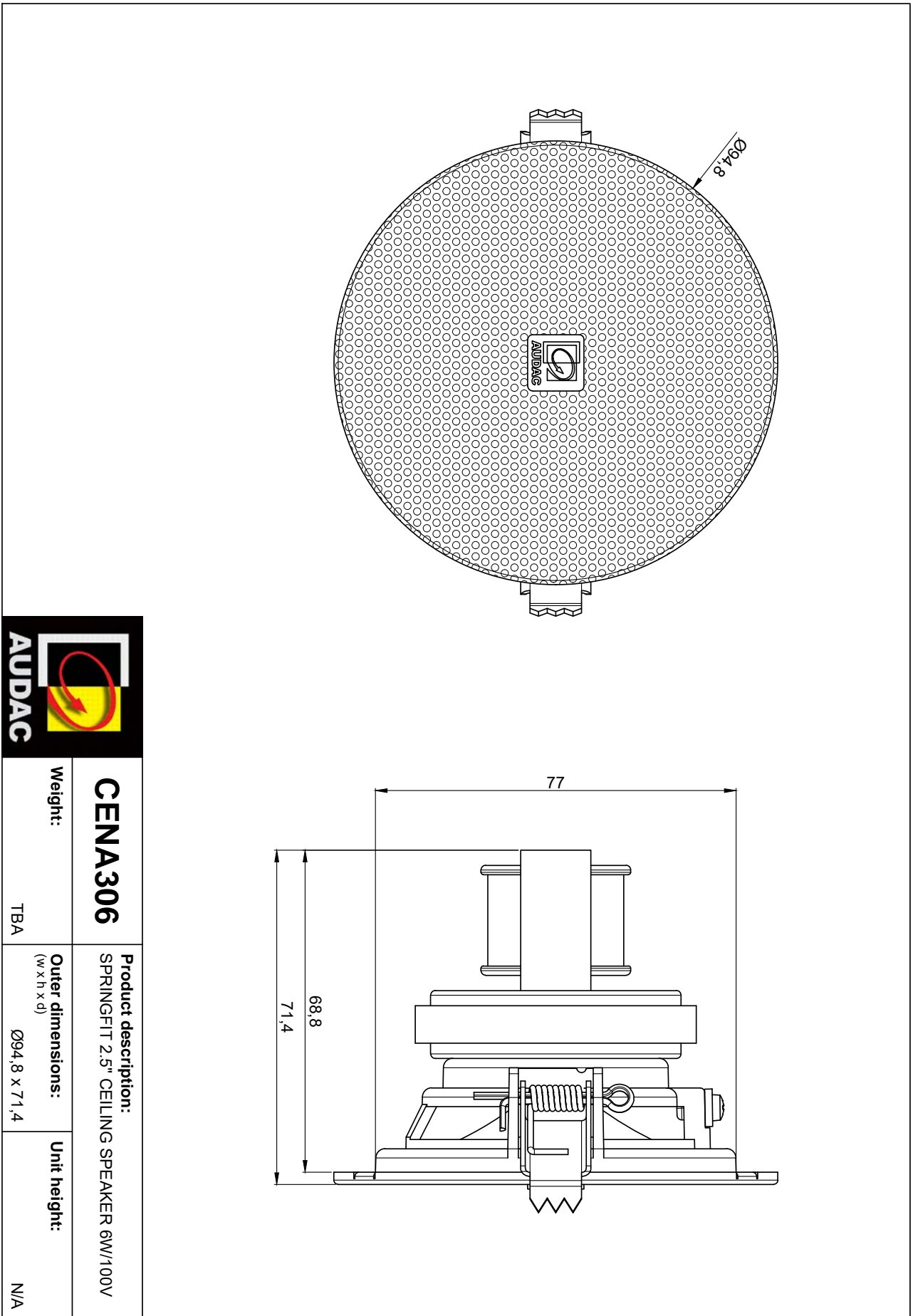


Beamwidth (-3dB):



Directivity index:





<p>CENA306</p>	<p>Weight: TBA</p>
<p>Product description: SPRINGFIT 2.5" CEILING SPEAKER 6W/100V</p>	<p>Outer dimensions: (w x h x d) Ø94,8 x 71,4</p>
<p>Unit height: N/A</p>	<p>Unit height: N/A</p>

BRIGHTSIGN HD

AN UPDATED CLASSIC NOW WITH TRUE 4K. MAINSTREAM PERFORMANCE.

BrightSign HD models are ideal for mainstream 4Kp60, Full HD and HTML5 applications that require high reliability and ease of use. All models offer H.265 decoding, HTML5 rendering and Gigabit Ethernet. Robust interactive controls, live content features, Video Walls and Mosaic Mode make this set of players a perfect fit for a wide range of applications.



BrightSign HD224

Standard I/O Player

Enjoy flawless 4K and Full HD single video decoding, mainstream HTML5 performance and simultaneous playback from local, networked and streaming sources. Includes the standard I/O package of Gigabit Ethernet, GPIO, and analog/digital audio.



BrightSign HD1024

Expanded I/O Player

All the features of the HD224 plus additional interactive options via USB 2.0 (type A), and serial ports to fully engage your audience.

Features

- 
4K60p single decode
- 
Mainstream HTML5
- 
1080p60 single decode
- 
H.265
- 
HDR10 & HLG
- 
Mosaic Mode
- 
Entry-Level HTML5
- 
Digital Audio
- 
IP Streaming
- 
BrightBeacon™
- 
Video Walls
- 
AutoWall™
- 
Zones
- 
Interactive
- 
Live Feeds
- 
Geo-Fencing
- 
Sign Preview
- 
Tagging
- 
BrightSign App
- 
Remote Snapshot
- 
Networking
- 
B-Deploy

SPECIFICATIONS

MODEL	HD224	HD1024
VIDEO ENGINE DECODER		
True 4K@60p video decoding	X	X
Single 4K or 1080p60 video decoding	X	X
MEDIA FORMATS		
Video Codecs for 4K content: H.265/H.264	X	X
Video Containers for 4K H.265/H.264 content: .ts, .mov, .mp4	X	X
Video Codecs for Full HD: H.265, H.264(MPEG-4, Part 10), MPEG-2, MPEG-1	X	X
Video Containers for Full HD: .ts, .mpg, .vob, .mov, .mp4, .m2ts	X	X
Images: BMP, JPEG, PNG	X	X
Audio: MP2, MP3, AAC, and WAV (AC3 is passed through)	X	X
HTML5	X (Mainstream)	
DISPLAY RESOLUTIONS		
4K resolutions: 4096x2160, 3840x2160, 3840x600	X	X
Upscaling to: 3840x2160x24/25/29.97/30p	X	X
1920x1200, 1920x1080x24/25/29.97/30/50/59.94/60p, 1920x1080x50/59.94/60i, 1600x1200x60p, 1440x1050x60/75p, 1440x900x60/75p, 1360x768x60p, 1280x1024x60/75p, 1280x960x60p, 1280x800x60p/75p, 1280x768x60p, 1280x720x50/59.94/60p, 1024x768x60p, 800x600x60/75p, 720x576x50p/50i, 720x480x59.94/60p/60i, 640x480x60p	X	X
HARDWARE INTERFACES		
External micro SD Slot (SDHC and SDXC); SDHC storage up to 32GB SDXC storage up to 2TB	X	X
USB High Speed Host Port (also supports content updates)		X (Type A)
12-pin Phoenix GPIO port with 8 bi-directional GPIOs	X	X
3.5mm RS-232 Serial Port		X
3.5mm IR In/Out	X	X
3.5mm Audio Out (analog -or- SPDIF digital, non-simultaneous)	X	X
HDMI 2.0a Out	X	X
Ethernet	X (Gigabit)	
M.2 (E) Keyed Wi-Fi/Bluetooth Connector	X	X
Wi-Fi External Antenna Connector (optional)	X	X
Status LEDs	Power, Error, Busy, Update	
Reset and Service Buttons	X	X
Real Time Clock	X	X
FEATURES		
H.265 Decoding: smaller file sizes and lower bitrates than H.264	X	X
HDR10 & HLG	X	X
HTML5: hardware-accelerated engine that plays modular HTML assets flawlessly alongside high-bandwidth video	X (Mainstream)	
BrightBeacon™: 2-way Bluetooth/Beacon communication between mobile devices & signage (requires: wireless/Bluetooth module)	X	X

MODEL	HD224	HD1024
Video Walls: synchronized playback across multiple displays	X	X
AutoWall™: embraces the power of HTML5 to create unique multimedia video walls	X	X
Zones: playback multiple content types on a single screen	X	X
Mosaic Mode: simultaneously play a multitude of smaller resolution videos that add up to the maximum video resolution of the player	X	X
IP Streaming: play streaming media	X	X
Interactivity: connect virtually any type of interactive device to a multitude of interactive ports	X (GPIO, UDP)	X (GPIO, USB, serial, UDP)
Live Feeds: Live Data, Live Text, MRSS, Twitter, Flickr, etc.	X	X
Tagging: BrightSign Network users can assign media and player tags for highly targeted content distribution	X	X
BrightSign App: update signs with an iOS device	X	X
Geo-Fencing: trigger playback based on location (requires USB dongle)		X
Sign Preview: preview presentation playback in BrightAuthor	X	X
Remote Snapshot: remotely view a snapshot image of the display's playback	X	X
Networking: update, manage and schedule your signage	X	X
B-deploy: A setup feature to deploy many players at once	X	X
Extended Thermal: sustained ambient temperatures between -20°C and 50°C with transients up to 70°C at 90% max relative humidity, non-condensing	X	X
SOFTWARE		
Free BrightAuthor Software	X	X
BrightSign Networking Options	X	X
ACCESSORIES		
USB Button Pads		X
Wireless/Bluetooth Module	X	X
MicroSD Class 10 Cards (various capacities)	X	X
MISCELLANEOUS		
Dimensions (W x H x D)	159.9 x 22 x 144.2mm or 6.3 x 0.87 x 5.7 in	
Weight	12 oz	
Power	12V / 1.5A (18 Watts)	
Multi-Country Power & Regulatory Approvals	X	X
Built-in Wall Mounting Brackets	X	X
1 year warranty, parts and labor*	X	X

*2 year warranty, parts and labor, for units shipped from an EU or UK distribution center and to an EU or UK address.

BRIGHTSIGN HD

AN UPDATED CLASSIC NOW WITH TRUE 4K. MAINSTREAM PERFORMANCE.

BrightSign HD models are ideal for mainstream 4Kp60, Full HD and HTML5 applications that require high reliability and ease of use. All models offer H.265 decoding, HTML5 rendering and Gigabit Ethernet. Robust interactive controls, live content features, Video Walls and Mosaic Mode make this set of players a perfect fit for a wide range of applications.



BrightSign HD224

Standard I/O Player

Enjoy flawless 4K and Full HD single video decoding, mainstream HTML5 performance and simultaneous playback from local, networked and streaming sources. Includes the standard I/O package of Gigabit Ethernet, GPIO, and analog/digital audio.



BrightSign HD1024

Expanded I/O Player

All the features of the HD224 plus additional interactive options via USB 2.0 (type A), and serial ports to fully engage your audience.

Features

- 4K60p single decode
- Mainstream HTML5
- 1080p60 single decode
- H.265
- HDR10 & HLG
- Mosaic Mode
- Entry-Level HTML5
- Digital Audio
- IP Streaming
- BrightBeacon™
- Video Walls
- AutoWall™
- Zones
- Interactive
- Live Feeds
- Geo-Fencing
- Sign Preview
- Tagging
- BrightSign App
- Remote Snapshot
- Networking
- B-Deploy

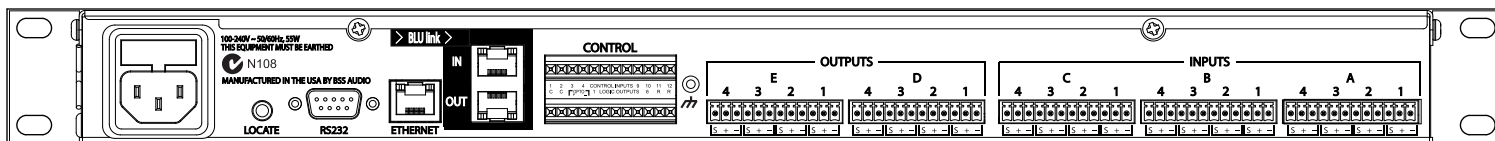
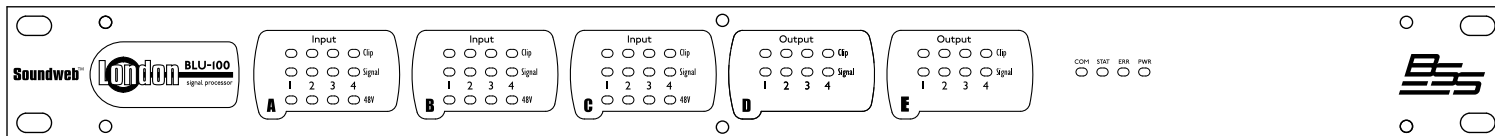
SPECIFICATIONS

MODEL	HD224	HD1024
VIDEO ENGINE DECODER		
True 4K@60p video decoding	X	X
Single 4K or 1080p60 video decoding	X	X
MEDIA FORMATS		
Video Codecs for 4K content: H.265/H.264	X	X
Video Containers for 4K H.265/H.264 content: .ts, .mov, .mp4	X	X
Video Codecs for Full HD: H.265, H.264(MPEG-4, Part 10), MPEG-2, MPEG-1	X	X
Video Containers for Full HD: .ts, .mpg, .vob, .mov, .mp4, .m2ts	X	X
Images: BMP, JPEG, PNG	X	X
Audio: MP2, MP3, AAC, and WAV (AC3 is passed through)	X	X
HTML5	X (Mainstream)	
DISPLAY RESOLUTIONS		
4K resolutions: 4096x2160, 3840x2160, 3840x600	X	X
Upscaling to: 3840x2160x24/25/29.97/30p	X	X
1920x1200, 1920x1080x24/25/29.97/30/50/59.94/60p, 1920x1080x50/59.94/60i, 1600x1200x60p, 1440x1050x60/75p, 1440x900x60/75p, 1360x768x60p, 1280x1024x60/75p, 1280x960x60p, 1280x800x60p/75p, 1280x768x60p, 1280x720x50/59.94/60p, 1024x768x60p, 800x600x60/75p, 720x576x50p/50i, 720x480x59.94/60p/60i, 640x480x60p	X	X
HARDWARE INTERFACES		
External micro SD Slot (SDHC and SDXC); SDHC storage up to 32GB SDXC storage up to 2TB	X	X
USB High Speed Host Port (also supports content updates)		X (Type A)
12-pin Phoenix GPIO port with 8 bi-directional GPIOs	X	X
3.5mm RS-232 Serial Port		X
3.5mm IR In/Out	X	X
3.5mm Audio Out (analog -or- SPDIF digital, non-simultaneous)	X	X
HDMI 2.0a Out	X	X
Ethernet	X (Gigabit)	
M.2 (E) Keyed Wi-Fi/Bluetooth Connector	X	X
Wi-Fi External Antenna Connector (optional)	X	X
Status LEDs	Power, Error, Busy, Update	
Reset and Service Buttons	X	X
Real Time Clock	X	X
FEATURES		
H.265 Decoding: smaller file sizes and lower bitrates than H.264	X	X
HDR10 & HLG	X	X
HTML5: hardware-accelerated engine that plays modular HTML assets flawlessly alongside high-bandwidth video	X (Mainstream)	
BrightBeacon™: 2-way Bluetooth/Beacon communication between mobile devices & signage (requires: wireless/Bluetooth module)	X	X

MODEL	HD224	HD1024
Video Walls: synchronized playback across multiple displays	X	X
AutoWall™: embraces the power of HTML5 to create unique multimedia video walls	X	X
Zones: playback multiple content types on a single screen	X	X
Mosaic Mode: simultaneously play a multitude of smaller resolution videos that add up to the maximum video resolution of the player	X	X
IP Streaming: play streaming media	X	X
Interactivity: connect virtually any type of interactive device to a multitude of interactive ports	X (GPIO, UDP)	X (GPIO, USB, serial, UDP)
Live Feeds: Live Data, Live Text, MRSS, Twitter, Flickr, etc.	X	X
Tagging: BrightSign Network users can assign media and player tags for highly targeted content distribution	X	X
BrightSign App: update signs with an iOS device	X	X
Geo-Fencing: trigger playback based on location (requires USB dongle)		X
Sign Preview: preview presentation playback in BrightAuthor	X	X
Remote Snapshot: remotely view a snapshot image of the display's playback	X	X
Networking: update, manage and schedule your signage	X	X
B-deploy: A setup feature to deploy many players at once	X	X
Extended Thermal: sustained ambient temperatures between -20°C and 50°C with transients up to 70°C at 90% max relative humidity, non-condensing	X	X
SOFTWARE		
Free BrightAuthor Software	X	X
BrightSign Networking Options	X	X
ACCESSORIES		
USB Button Pads		X
Wireless/Bluetooth Module	X	X
MicroSD Class 10 Cards (various capacities)	X	X
MISCELLANEOUS		
Dimensions (W x H x D)	159.9 x 22 x 144.2mm or 6.3 x 0.87 x 5.7 in	
Weight	12 oz	
Power	12V / 1.5A (18 Watts)	
Multi-Country Power & Regulatory Approvals	X	X
Built-in Wall Mounting Brackets	X	X
1 year warranty, parts and labor*	X	X

*2 year warranty, parts and labor, for units shipped from an EU or UK distribution center and to an EU or UK address.

Soundweb™ London BLU-100



OVERVIEW:

The Soundweb London BLU-100 offers a fixed configuration of 12 inputs and 8 outputs, configurable signal processing and a high bandwidth, fault tolerant digital audio bus.

The BLU-100 has open architecture which is fully configurable through HiQnet™ London Architect. A rich palette of processing and logic objects and a “drag and drop” method of configuration provide a simple and familiar design environment.

This processor features a low latency, fault tolerant digital audio bus of 48 channels which uses standard Category 5e cabling giving a distance of 100m between compatible devices. Fiber media converters can be used to increase the distance between devices to over 40km.

The BLU-100 is compatible with the entire Soundweb London family and its 48 channel digital audio bus represents channels 1-48 of the larger 256 channel digital audio bus when integrated with the BLU-800, BLU-320, BLU-160, BLU-120 and BLU-BOB devices.

Analog Inputs provide software configurable gain in 6dB steps up to +48dB per channel and software selectable Phantom Power per channel.

Phantom Power, Signal Present and Clip information per channel is easily accessible, without the requirement for a PC, from clear front panel LED indication. A bi-directional locate function allows devices to be identified both from and within HiQnet London Architect.

12 Control Inputs and 6 Logic Outputs allow the BLU-100 to be integrated with GPIO compatible devices. The Soundweb London Interface Kit, comprehensive documentation which details how Soundweb London systems can be integrated with third party control systems, is included within the installation of HiQnet London Architect.

The BLU-100 and the other members of the Soundweb London family provide the building blocks of the perfectly tailored system solution.

KEY FEATURES:

- 12 Analog Inputs (with 48v Phantom Power per Channel)
- 8 Analog Outputs
- Configurable Signal Processing
- Rich Palette of Processing and Logic Objects
- 48 Channel, Low Latency, Fault Tolerant Digital Audio Bus
- Clear Front Panel LED Indication
- Bi-Directional Locate Functionality
- 12 Control Inputs and 6 Logic Outputs for GPIO Integration
- Soundweb London Interface Kit for Third Party Control System Integration (Documentation)
- HiQnet Device
- Configuration, Control and Monitoring from HiQnet London Architect



Soundweb™ London BLU-100

TECHNICAL SPECIFICATIONS:

Front Panel Led Indicators:

Per Input:	Signal Present, CLIP, 48V (Input only)
Other:	COM, STAT, ERR, PWR

Analog Inputs: 12 electronically balanced on Phoenix Combicon removable screw connectors

Mic/Line Inputs:	Nominal gain 0dB, electronically switchable up to +48dB, in +6dB steps
Input Impedance:	3.5kΩ
Maximum Input Level:	+20dBu with 0dB input gain, +8dBu with 12dB gain
CMRR:	>75dB at 1KHz
Input Noise (E.I.N.):	<-128dBu typical with 150Ω source
Phantom Power:	48V nominal, selectable per input
A/D Latency:	37/Fs [0.77ms@48k]

Analog Outputs: 8 electronically balanced on Phoenix/Combicon removable screw connectors

Maximum Output Level:	+19dBu
Frequency Response:	20Hz-20KHz (+0.5dB/-1dB)
THD:	<0.01% 20Hz to 20KHz, +10dBu output
Dynamic Range:	108dB typical, 22Hz-22KHz unweighted
Crosstalk:	<-75dB
Output Impedance:	40Ω balanced and 20Ω unbalanced
D/A Latency:	29/Fs [0.60ms@48k]

Control Ports: 12 inputs and 6 outputs

Control Input Voltage:	0 to 4.5v
Control Input Impedance:	4.7kΩ to +5V (2-wire mode), >1MΩ (3-wire mode)
Logic Output Voltage:	0 or +5V unloaded
Logic Output Impedance:	440Ω
Logic Output Current:	10mA source, 60mA sink

Watchdog Output: Phoenix/Combicon connector for failsafe control

Opto Output Current:	14mA maximum
Withstanding Voltage:	80V maximum (Off)
Series Impedance:	220Ω (isolated)

Control Network:

Connectors:	RJ45 Ethernet connector
Maximum Cable Length:	100m/300ft on Category 5 cable between device and Ethernet switch

BLU link:

Connectors:	2 x RJ45 Ethernet connectors
Maximum Cable Length:	100m/300ft on Category 5e cable between devices
Max. Number of Nodes:	60
Latency:	11/Fs [0.23ms@48k]
Pass Through Latency:	4/Fs [0.08ms@48k]

Power and Dimensions:

Mains Voltage:	100-240V AC, 50/60Hz
Power Consumption:	<55VA
BTU Rating:	<188 BTU/hr
Operating Temp. Range:	5 (41) to 35 (95) degrees C (degrees F)
Dims: (H(U) x W x D):	1.75" (1U) x 19" x 9.0" (45mm x 483mm x 229mm)
Weight:	6.4 lbs / 2.9 kg

BSS Audio incorporates high quality mechanical fans in some products. All mechanical fans have a limited life expectancy. We recommend annual inspection of fans for dust occlusion and excessive noise. Fan assemblies should be replaced after six to ten years of use. Environmental factors such as elevated temperature, dust, and smoke can adversely affect fan life. Systems exposed to these conditions should be inspected more frequently. Fan replacement can be performed either at the factory or by an experienced technician in the field. Please contact BSS Technical Support for more information on purchasing replacement parts or product service.

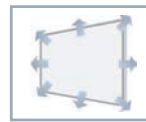
BSS Audio has a policy of continued product improvement and accordingly reserves the right to change features and specifications without prior notice.



SELF ADHESIVE



REAR PROJECTION



DIFFUSION SCREEN



TRANSPARENT APPEARANCE

Overview

Self-adhesive optical screen film for rear projection applications

A highly transparent optical diffusion film for a holographic / Pepper's Ghost projection effect

Wow your client with a Clearview holographic effect projection screen from Pro Display. Manufactured as a self-adhesive film or acrylic screen, Clearview's holographic effect is a popular choice for museums, live events and product launches, to name just a few examples.

Transparent projection screens are guaranteed to catch attention with their contemporary design, and by creating an image that appears to float in mid-air, just like in the hit movie *Minority Report*!

Pro Display's Clearview holographic effect projection screen offers a low cost alternative to competing holographic screens, with superior performance, definition and no critical angle of projection. This amazing technology still allows visibility through the screen displaying bright, sharp and vibrant images even in brightly-lit environments.

Features

- Easy to apply to glass or plexiglas
- UV stable & no shrinkage
- Viewing angle: 120°
- Aspect ratios: 16:9, 16:10 & 4:3
- Transmittance: 86%
- Custom shapes & sizes

Benefits

- Standard sizes from 32" - 120"
- 3 year warranty
- Custom sizes & shapes available
- Wholesale 10m & 30m rolls available
- No critical angle of projection
- Self adhesive / no shrinkage
- Excellent value, superior performance

Applications

- Store window displays
- Glass walls & partitions
- POS displays & promotions
- Museums & visitor attractions
- Concerts & theatres
- Exhibitions & live events



Features

DriveCore™ Technology – Crown’s proprietary DriveCore technology eliminates hundreds of components within each amplifier, reducing the variability of component values, increasing reliability, resulting in incredible audio fidelity from an efficient design.

Network Control and Monitoring – Through HARMAN’s HiQnet Audio Architect software, the CDi DriveCore can be controlled, configured, and monitored through standard TCP/IQ network.

DSP – On-board Digital Signal Processor in each amplifier allows for custom configuration and includes these integrated features:

- Input Router
- Input Delay – Up to 1000ms
- Input Parametric EQ – 8 band
- Crossover
- Output Parametric EQ – 8 band
- Output Delay – Up to 100ms
- LevelMAX™ Limiter

BLU link (BL models only) – Both receive and send channels over HARMAN’s 256 channel, fault-tolerant audio BUS, BLU link.

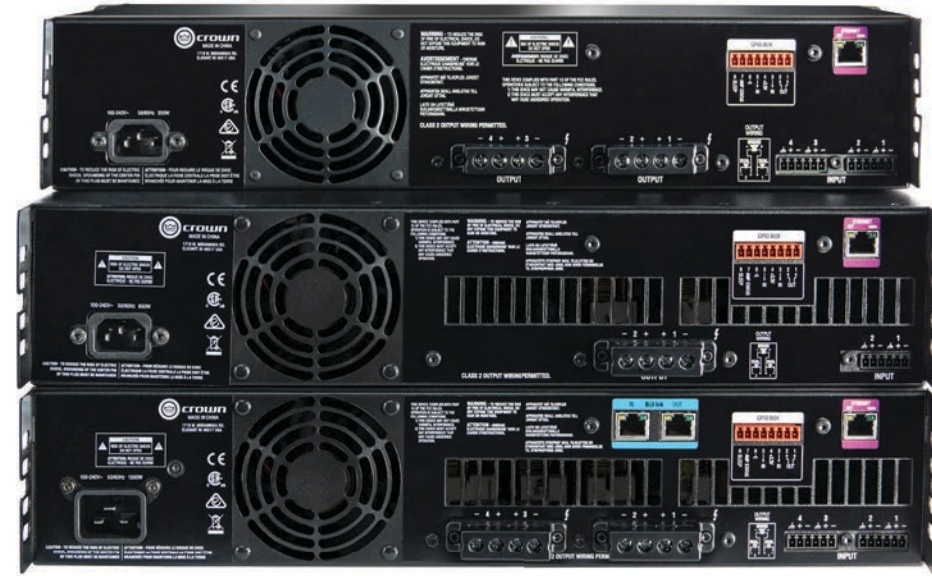
Direct Drive 70/100Vrms Output – Each output channel is capable of providing either 70V or 100V for high impedance applications.

Front-Panel Interface – Completely configure the amplifier using an intuitive front-panel interface.

GPIO/AUX Port – Recall presets, mute channels, monitor faults, power on/off the amplifier, and more through a combined GPIO/AUX Port.

Pre-loaded Speaker Tunings – For quicker and easier setup and installation.

CDI DriveCore™ Series



CDi DriveCore 4|600, 2|1200 and 4|1200BL models shown

Specifications

Input Sensitivity

Amp Model	8Ω			70Vrms			100Vrms		
	37dB Gain Mode	34dB Gain Mode	26dB Gain Mode	37dB Gain Mode	34dB Gain Mode	26dB Gain Mode	37dB Gain Mode	34dB Gain Mode	26dB Gain Mode
2 300 / 2 300BL	0.7Vrms (-0.8dBu, -3.0dBV)	1.0Vrms (2.2dBu, 0.0dBV)	2.5Vrms (10.2dBu, 8.0dBV)	1.0Vrms (2.2dBu, 0.0dBV)	1.4Vrms (5.2dBu, 3.0dBV)	3.5Vrms (13.2dBu, 11.0dBV)	1.4Vrms (5.2dBu, 3.0dBV)	2.0Vrms (8.2dBu, 6.0dBV)	5.0Vrms (16.2dBu, 14.0dBV)
4 300 / 4 300BL	0.7Vrms (-0.8dBu, -3.0dBV)	1.0Vrms (2.2dBu, 0.0dBV)	2.5Vrms (10.2dBu, 8.0dBV)	1.0Vrms (2.2dBu, 0.0dBV)	1.4Vrms (5.2dBu, 3.0dBV)	3.5Vrms (13.2dBu, 11.0dBV)	1.4Vrms (5.2dBu, 3.0dBV)	2.0Vrms (8.2dBu, 6.0dBV)	5.0Vrms (16.2dBu, 14.0dBV)
2 600 / 2 600BL	0.7Vrms (-0.8dBu, -3.0dBV)	1.0Vrms (2.2dBu, 0.0dBV)	2.5Vrms (10.2dBu, 8.0dBV)	1.0Vrms (2.2dBu, 0.0dBV)	1.4Vrms (5.2dBu, 3.0dBV)	3.5Vrms (13.2dBu, 11.0dBV)	1.4Vrms (5.2dBu, 3.0dBV)	2.0Vrms (8.2dBu, 6.0dBV)	5.0Vrms (16.2dBu, 14.0dBV)
4 600 / 4 600BL	0.7Vrms (-0.8dBu, -3.0dBV)	1.0Vrms (2.2dBu, 0.0dBV)	2.5Vrms (10.2dBu, 8.0dBV)	1.0Vrms (2.2dBu, 0.0dBV)	1.4Vrms (5.2dBu, 3.0dBV)	3.5Vrms (13.2dBu, 11.0dBV)	1.4Vrms (5.2dBu, 3.0dBV)	2.0Vrms (8.2dBu, 6.0dBV)	5.0Vrms (16.2dBu, 14.0dBV)
2 1200 / 2 1200BL	0.7Vrms (-0.8dBu, -3.0dBV)	1.0Vrms (2.2dBu, 0.0dBV)	2.5Vrms (10.2dBu, 8.0dBV)	1.0Vrms (2.2dBu, 0.0dBV)	1.4Vrms (5.2dBu, 3.0dBV)	3.5Vrms (13.2dBu, 11.0dBV)	1.4Vrms (5.2dBu, 3.0dBV) 150W	2.0Vrms (8.2dBu, 6.0dBV)	5.0Vrms (16.2dBu, 14.0dBV)
4 1200 / 4 1200BL	0.7Vrms (-0.8dBu, -3.0dBV)	1.0Vrms (2.2dBu, 0.0dBV)	2.5Vrms (10.2dBu, 8.0dBV)	1.0Vrms (2.2dBu, 0.0dBV)	1.4Vrms (5.2dBu, 3.0dBV)	3.5Vrms (13.2dBu, 11.0dBV)	1.4Vrms (5.2dBu, 3.0dBV)	2.0Vrms (8.2dBu, 6.0dBV)	5.0Vrms (16.2dBu, 14.0dBV)

CDI DriveCore™ Series



Output Power: Dual Mode – All Channels Driven

Amp Model	Channels	2Ω	4Ω	8Ω	16Ω	70Vrms	100Vrms
2 300 / 2 300BL	2	150W	300W	300W	150W	300W	300W
4 300 / 4 300BL	4	150W	300W	300W	150W	300W	300W
2 600 / 2 600BL	2	300W	600W	600W	300W	600W	600W
4 600 / 4 600BL	4	300W	600W	600W	300W	600W	600W
2 1200 / 2 1200BL	2	850W	1200W	1200W	600W	1200W	1200W
4 1200 / 4 1200BL	4	850W	1200W	1200W	600W	1200W	1200W

Minimum Guaranteed Power (1kHz, all channels driven, max distortion 0.5%, duration 0.5 seconds, 120 – 240Vrms – 50/60Hz)

Output Power: Bridge Mono Mode – All Channels Driven

Amp Model	4Ω	8Ω	16Ω	140Vrms	200Vrms
2 300 / 2 300BL	300W	600W	600W	600W	600W
4 300 / 4 300BL	300W	600W	600W	600W	600W
2 600 / 2 600BL	600W	1200W	1200W	1200W	1200W
4 600 / 4 600BL	600W	1200W	1200W	1200W	1200W
2 1200 / 2 1200BL	1200W	2400W	2400W	2400W	2400W
4 1200 / 4 1200BL	1200W	2400W	2400W	2400W	2400W

Minimum Guaranteed Power (1kHz, all channels driven, max distortion 0.5%, duration 0.5 seconds, 120 – 240Vrms – 50/60Hz)

CDI DriveCore™ Series



Performance Specifications

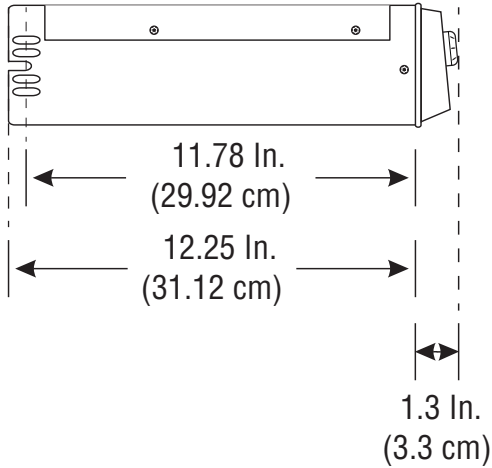
Specification Description	2 300 / 2 300BL	4 300 / 4 300BL	2 600 / 2 600BL	4 600 / 4 600BL	2 1200 / 2 1200BL	4 1200 / 4 1200BL
Digital Signal Processing	96kHz, 32-bit floating point	96kHz, 32-bit floating point	96kHz, 32-bit floating point	96kHz, 32-bit floating point	96kHz, 32-bit floating point	96kHz, 32-bit floating point
Voltage Gain (at maximum level setting) 4/8Ω, 70Vrms and 100Vrms Operation	34dB	34dB	34dB	34dB	34dB	34dB
Frequency Response (8Ω, 20Hz - 20kHz)	+/-0.5dB	+/-0.5dB	+/-0.5dB	±0.25dB	±0.25dB	±0.25dB
BLU link Signal-to-Noise Ratio (ref. rated power, 100V, 20Hz - 20kHz)	>108dB	>108dB	>108dB	>108dB	>108dB	>108dB
Total Harmonic Distortion (at full rated power, from 20Hz - 20kHz)	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%
Analog Input Signal to Noise Ratio (ref. rated power, 100V, 20Hz - 20kHz)	>104dB	>104dB	>104dB	>104dB	>104dB	>104dB
Intermodulation Distortion (60Hz and 7kHz at 4:1, from -30dB to full rated power)	≤0.35%	≤0.35%	≤0.35%	≤0.35%	≤0.35%	≤0.35%
Damping Factor (20Hz to 100Hz)	>1000	>1000	>1000	>1000	>1000	>1000
Crosstalk (below rated power, 20Hz to 1kHz)	>80dB	>80dB	>80dB	>80dB	>80dB	>80dB
Common Mode Rejection (20Hz to 1kHz, typical)	>70dB	>70dB	>70dB	>70dB	>70dB	>70dB
DC Output Offset (with inputs shorted)	±10mV	±10mV	±10mV	±10mV	±10mV	±10mV
Input Impedance (Nominally balanced, nominally unbalanced)	20 kΩ balanced, 10 kΩ unbalanced	20 kΩ balanced, 10 kΩ unbalanced	20 kΩ balanced, 10 kΩ unbalanced	10 kΩ balanced, 5 kΩ unbalanced	10 kΩ balanced, 5 kΩ unbalanced	10 kΩ balanced, 5 kΩ unbalanced
Maximum Input Level (Low Amp Gain Mode)	+20dBu	+20dBu	+20dBu	+20dBu	+20dBu	+20dBu
Required AC Mains (±10%)	100V – 240V~ 50/60Hz	100V – 240V~ 50/60Hz	100V – 240V~ 50/60Hz	100V – 240V~ 50/60Hz	100V – 240V~ 50/60Hz	100V – 240V~ 50/60Hz
Cooling	Continuously variable speed forced air, front-to-back airflow	Continuously variable speed forced air, front-to-back airflow	Continuously variable speed forced air, front-to-back airflow	Continuously variable speed forced air, front-to-back airflow	Continuously variable speed forced air, front-to-back airflow	Continuously variable speed forced air, front-to-back airflow
Power Supply Connector	Standard IEC type 320 inlet for detachable connector 100 – 240V~	Standard IEC type 320 inlet for detachable connector 100 – 240V~	Standard IEC type 320 inlet for detachable connector 100 – 240V~	15A IEC connector, 100 – 240V	15A IEC connector, 100 – 240V	20A IEC connector, 100 – 240V
Load Impedance Stereo/Dual Mode	2Ω - 16Ω; 70Vrms and 100Vrms	2Ω - 16Ω; 70Vrms and 100Vrms	2Ω - 16Ω; 70Vrms and 100Vrms	2Ω - 16Ω; 70Vrms and 100Vrms	2Ω - 16Ω; 70Vrms and 100Vrms	2Ω - 16Ω; 70Vrms and 100Vrms
Load Impedance Bridge Mono	4Ω - 16Ω; 140Vrms and 200Vrms	4Ω - 16Ω; 140Vrms and 200Vrms	4Ω - 16Ω; 140Vrms and 200Vrms	4Ω - 16Ω; 140Vrms and 200Vrms	4Ω - 16Ω; 140Vrms and 200Vrms	4Ω - 16Ω; 140Vrms and 200Vrms
Maximum Fan Noise (re dB SPL @ 1M)	51dBA	51dBA	51dBA	51dBA	54 dBA	54dBA
Weight	14.56 lbs (6.6 kg)	16.13 lbs (7.31 kg)	14.56 lbs (6.6 kg)	16.3 lbs (7.39 kg)	17.2 lbs (7.8 kg)	20.1 lbs (9.12 kg)

CDI DriveCore™ Series

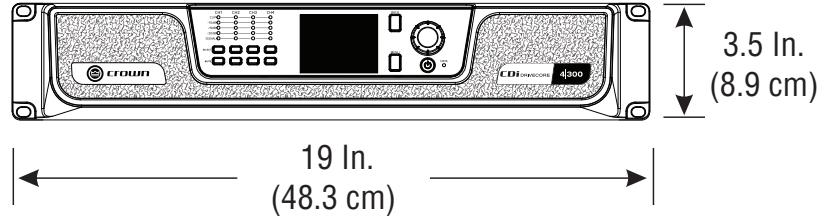
Dimensions

2|300 / 2|300BL / 4|300 / 4|300BL / 2|600 / 2|600BL / 4|600 / 4|600BL

Depth

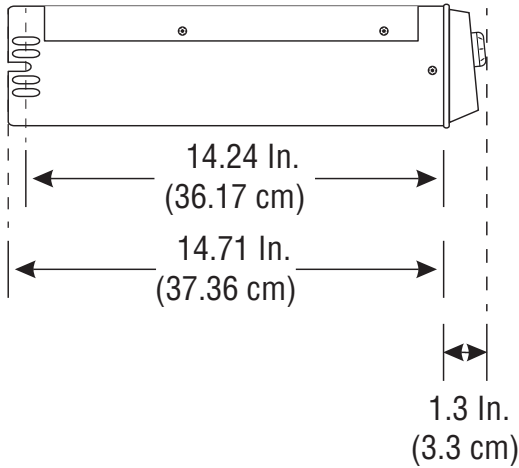


Width / Height

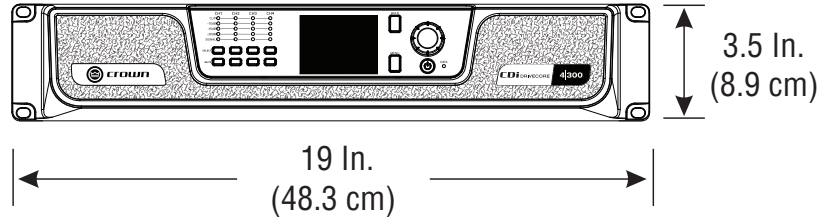


2|1200 / 2|1200BL / 4|1200 / 4|1200BL

Depth



Width / Height





Features

Meet the new XLS DriveCore 2 Series. The next generation of XLS got a makeover with a sleek new look, larger LCD display, and more DSP with extended functionality. Like its predecessor, the new XLS is ultra-efficient with Crown's patented DriveCore technology and can drive 2400W at 4Ω bridged with tons of headroom guaranteeing a clean, undistorted signal straight to your speakers. The XLS DriveCore 2 assures that you will be heard as you deliver powerful, pure sound experiences for any venue.

- Class D amp with Crown's ultra-efficient DriveCore technology weighs less than 11 lbs (5 kg)
- Higher DSP capabilities: More control; has band pass filter per channel
- Increased lighting functionality; turn off display or any/all LED indicators except clip and thermal to reduce distraction in dark venues
- Selectable input sensitivity; 1.4Vrms and .775Vrms options so that amp can be driven at full power
- Set display sleep mode after specified time without having to press a button
- Security setting disables menu buttons; menu locked/unlocked by entering button combination
- System reset allows factory settings to be restored
- Remote power trigger
- Peakx™ Limiters provide maximum output while protecting your speakers
- XLR, 1/4", RCA inputs provide flexibility
- Integrated PureBand™ Crossover System for better performance and control
- Efficient forced-air fans prevent excessive thermal buildup

XLS DriveCore™ 2 Series



XLS 2502

Power Matrix

Model	Channels	2Ω Dual	4Ω Dual	8Ω Dual	4Ω Bridged	8Ω Bridged
1002	2	550W	350W	215W	1100W	700W
1502	2	775W	525W	300W	1550W	1050W
2002	2	1050W	650W	375W	2100W	1300W
2502	2	1200W	775W	440W	2400W	1550W

*Maximum average power in watts at 0.5% THD, 1kHz

Performance Specifications	XLS 1002	XLS 1502	XLS 2002	XLS 2502
Sensitivity	.775Vrms or 1.4Vrms	.775Vrms or 1.4Vrms	.775Vrms or 1.4Vrms	.775Vrms or 1.4Vrms
Frequency Response (at 1W, 20Hz to 20kHz)	+0dB, -1dB	+0dB, -1dB	+0dB, -1dB	+0dB, -1dB
Signal to Noise Ratio (rated as dBr to full rated 8Ω power output; A-Weighted)	>97dB*	>103dB*	>103dB*	>103dB*
Total Harmonic Distortion (THD)	<0.5%	<0.5%	<0.5%	<0.5%
Intermodulation Distortion (60Hz and 7kHz at 4:1) from full rated output to -30dB	<0.3%	<0.3%	<0.3%	<0.3%
Damping Factor (8Ω, 10Hz ~ 400Hz)	>200	>200	>200	>200
Crosstalk (below rated 8Ω power)	At 1kHz: > 85dB At 20kHz: > 55dB	At 1kHz: > 85dB At 20kHz: > 55dB	At 1kHz: > 85dB At 20kHz: > 55dB	At 1kHz: > 85dB At 20kHz: > 55dB

Physical Specifications

Width	19 in. (48.3 cm)	19 in. (48.3 cm)	19 in. (48.3 cm)	19 in. (48.3 cm)
Height	3.5 in. (8.9 cm)	3.5 in. (8.9 cm)	3.5 in. (8.9 cm)	3.5 in. (8.9 cm)
Depth	7.7 in. (19.6 cm)	7.7 in. (19.6 cm)	10.7 in. (27.2 cm)	10.7 in. (27.2 cm)
Net Weight	8.6 lbs (3.9 kg)	8.6 lbs (3.9 kg)	10.8 lbs (4.9 kg)	10.8 lbs (4.9 kg)
Shipping Weight	13.6 lbs (6.2 kg)	13.6 lbs (6.2 kg)	15.8 lbs (7.2 kg)	15.8 lbs (7.2 kg)

*At .775Vrms sensitivity, Signal to Noise is 6dB lower.



0702L 7-inch LCD

Touchscreen Monitor



Edge-to-edge design with
integrated 10-touch



3-Year Warranty



Commercial-grade

Product Overview

The Elo 0702L 7-inch touchscreen monitor delivers a professional-grade interactive solution with Elo's industry-leading TouchPro® PCAP technology featuring edge-to-edge glass and enabling up to 10 simultaneous touches. Backed by a three-year warranty, the feature rich touchscreen monitor is equipped with DisplayLink technology - enabling connectivity for power, video and touch over a single cable. With a compact form factor measuring just over half an inch thin and a clean design made for simple integration, the 0702L is ideal for customer facing point of interaction installations in point-of-sale, brand loyalty, point of information, signage and hospitality applications. With a minimal footprint, the 0702L is also well-suited for industrial kitchen equipment controllers.

DisplayLink technology provides touch, video and power connectivity over a single cable

Touchscreen is compatible with use of finger, glove and stylus

Integrate with ease - From stands and pole mounts to shelf mounts, wall mounts and 3rd party VESA mounts

0702L 7-inch LCD Touchscreen Monitor

Specifications	
Color	Black
Diagonal Size	7" / 177.8 mm
Active Touch Area	6.07" x 3.38" / 154.08 mm x 85.92 mm
LCD Technology	Active matrix TFT LCD
Touch Technology	TouchPro PCAP
Number of Touches	10 Touches
Aspect Ratio	5:3
Native Resolution	800 x 480
Preset Video Timings	800 x 480 60 Hz
Number of Colors	16.2M
Brightness (typical)	Panel: 500 nits; with TouchPro PCAP: 430 nits
Response Time (Tr + Tf) (typical)	25 msec
Viewing Angle (typical)	Horizontal: 75° or 150° total; Vertical: 55°/65° or 120° total
Contrast Ratio (typical)	500:1
I/O Ports	1 x Micro USB (DisplayLink input for touch, video and power)
Video	Input Video Horizontal Sync frequency range: 31.5KHz / Input Video Vertical Sync (frame rate) frequency range: 60Hz
Power	Input connector: Micro USB Input signal specifications: 5 V ±5% Power Consumption (Typical) - ON: 3.7 W; SLEEP: 0.9 W; OFF: 1.9 W
Dimensions (H x W x D)	4.61" x 7.11" x 0.7" / 117.22 mm x 180.58 mm x 17.7 mm
Shipping Dimensions	6.69" x 9.13" x 3.74" / 170 mm x 232 mm x 95 mm
Weight	Unpackaged - 0.77 lbs / 0.35 kg; Packaged - 1.43 lbs / 0.65 kg
Mounting Options	VESA 75mm x 75mm
Temperature	Operating: 0°C to 40°C / 32°F to 104°F; Storage: -20°C to 60°C / -4°F to 140°
Humidity (non-condensing)	Operating: 20% - 80% / Storage: 10% - 95%
Regulatory approvals and declarations	Canada cUL, IC; China CCC; Europe CE; United Kingdom UKCA; United States FCC, UL; Japan VCCI; Internationa CB; Australia RCM; Mexico NOM, Korea KCC, Tawian BSMI
Ingress Protection	IP65
Impact Protection	IK06
Warranty	3 years
Extended Warranty Options	4 year warranty coverage - Elo P/N: E898247 5 year warranty coverage - Elo P/N: E898449 3 year warranty coverage + AUR - Elo P/N: E898648 4 year warranty coverage + AUR - Elo P/N: E894921 5 year warranty coverage + AUR - Elo P/N: E895125

Ordering Information

Part Number	Part Description	Technology	Surface Treatment	Touch Interface	Color	Mount
E796382	ET0702L-2UWA-1-BL-G	TouchPro PCAP	Anti-glare	USB	Black	No Stand

Learn more about Elo at [EloTouch.com](https://www.elotouch.com).

Americas

Tel +1 408 597 8000
elosales.na@elotouch.com

Europe (EMEA)

Tel +32 16 930 136
EMEA.Sales@elotouch.com

Asia Pacific

Tel +86 (21) 3329 1385
www.elotouch.com.cn

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1093L 10.1-inch LCD

Open-Frame Touchscreen



Integrated Touch



Commercial Grade



3-Year Warranty

Product Overview

The Elo 1093L 10.1-inch open-frame LCD touchscreen features a slim design and narrow outside dimensions thanks to the state-of-the-art, energy-saving LED backlight, using less electricity to operate and generating less heat. This compact display is designed for touch, with proven Elo expertise and reliability built in. The 1093L provides stable, drift-free operation with outstanding image clarity and light transmission for accurate touch responses and vivid images. Instantly grabbing and holding users' attention, the open-frame touchscreen is perfect for kiosks, casino and amusement, retail self-service, and industrial automation environments.

Elo's TouchPro® PCAP offers:

- 2GS (two glass solution) with pristine optical clarity and touch durability.
- 10 touch with thru-glass capabilities that passes UL-60950 & IK-07 impact testing

Video Interfaces: HDMI,
VGA & Display Port

Touchscreen sealed against
dirt, dust and liquids

1093L 10.1-inch Open-Frame Touchscreen

Specifications	
Model	1093L
Color	Black
Active Display Area	8.54" x 5.34" / 216.96mm x 135.6mm
Diagonal	10.1"
Aspect Ratio	16:10
Dimensions	10.07" x 7.03" x 1.45" / 255.8mm x 178.5mm x 36.9mm
Native Resolution	1280 x 800 at 60 Hz
Other Supported Resolutions	640x480 at 60Hz; 720x400 at 70Hz; 800x500 at 60Hz; 800x600 at 56, 60Hz; 1024x768 at 60Hz; 1280x800 at 60Hz; 1920x1080 at 60Hz; 1920x1200 at 60Hz
Number of Colors	262K
Number of Touches	10-touch
Brightness (typical)	LCD Panel: 350 nits; TouchPro PCAP: 315 nits
Response (typical)	25msec
Viewing Angle	Horizontal: 85°/170°; Vertical: 85°/170°
Contrast Ratio	800:1
On-Screen Display	Accessible through switches on the unit's tethered OSD Control box. Controls: Menu, Up, Down, Select, Power Settings: Brightness, Contrast, Clock, Phase, H-position, V-position, Auto-Adjust, Aspect Ratio, Sharpness, Color, Temperature, OSD Timeout, OSD Language, OSD H-Position, OSD V-Position, Recall Defaults, Video Priority, Information, Touch On Sleep Mode, Touch Through Languages: English, French, Italian, German, Spanish, Simplified Chinese, Traditional Chinese, Japanese Lockouts: OSD, Power
Video	HDMI V1.3 Type A receptacle for HDMI input Analog VGA on Female DB-15 connector Display Port V1.1a - Supports later versions of Display Port video input Input Video Horizontal Sync frequency range: 30 - 60KHz Input Video Vertical Sync (frame rate) frequency range: 50-75Hz
Power	External DC - Optional power brick (sold separately) Monitor input power connector: Coaxial power jack (2.0mm (+0.0-0.1mm) pin outer diameter, 6.4mm (+/- 0.3mm) barrel inner diameter, 8.8mm (+/- 0.3mm) barrel depth) Monitor input power signal specifications: 12VDC +/- 5% Adapter output power connector: DC barrel plug (2.1mm (+/- 0.1mm) pin inner diameter, 5.5mm (+/- 0.05mm) barrel outer diameter, 9.5mm (+/- 0.3mm) barrel length)
Power Consumption	ON (monitor + power brick): 6.1W SLEEP (monitor + power brick): 0.7W OFF (monitor + power brick): 0.5W
Temperature	Operating: 0 °C to 40 °C (32 °F to 104 °F); Storage: -20 °C to 60 °C (-4 °F to 140 °F)
Humidity	Operating: 20% to 80%; Storage: 10% to 95%
Weight	Unpackaged: 2.65 lbs / 1.2 kg; Packaged: 5.73 lbs / 2.6 kg
Shipping Dimensions	13.23" x 10.31" x 6.89" / 336mm x 262mm x 175mm
Mounting Options	75mm VESA mount; Flush mount with included brackets; 2-hole mounting interface on all 4 sides
Warranty	3 years standard
MTBF	50,000 hours demonstrated
Agency Approvals	UL, FCC; RCM; cUL, IC; CCC; CE, TUV; VCCI; KCC; CoC; BSMI; CB; RoHS, China RoHS, WEEE
What's in the Box	HDMI Cable, VGA Cable, OSD Remote, Touch USB Cable, Quick Install Guide, Flush Mount Brackets w/Screws, EEI Label, Japan Class-B TM info sheet

Ordering Information

Model	Part Number	Part Description	Technology	Interface	Surface Treatment	Video Interface
1093L	E321195	ET1093L-2UWB-0-MT-ZB-NPB-G	TouchPro PCAP	USB 2.0	Clear	HDMI, VGA & Display Port

Extended Warranty Options

Part Number	Description
758588-000	1 Year Extended Warranty, 7-inch to 22-inch LCD Touchmonitor
930057-000	2 Year Extended Warranty, 7-inch to 22-inch LCD Touchmonitor
E67295-000	Elo advance unit replacement for touchmonitors

To find out more about our extensive range of Elo touch solutions, go to elotouch.com, or call the office nearest you.

North America

Tel +1 408 597 8000
Fax +1 408 597 8050
elosales.na@elotouch.com

Europe

Tel +32 (0)16 70 45 00
Fax +32 (0)16 70 45 49
EMEA.Sales@elotouch.com

Asia-Pacific

Tel +86 (21) 3329 1385
Fax +86 (21) 3329 1400
www.elotouch.com.cn

Latin America

Tel +52 55 2281 6958
elosales.latam@elotouch.com

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1291L 12.1-inch LCD

Open-Frame Touchscreen



Integrated Touch



Commercial Grade



3-Year Warranty

Product Overview

The Elo 1291L 12.1-inch open-frame LCD touchscreen features a slim design and narrow outside dimensions thanks to the state-of-the-art, energy-saving LED backlight, using less electricity to operate and generating less heat. This compact display is designed for touch with proven Elo expertise and reliability built in. The 1291L provides stable, drift-free operation with outstanding image clarity and light transmission for accurate touch responses and vivid images. Featuring a brilliant wide viewing angle panel, the open-frame touchscreen instantly grabs and holds the users' attention for kiosks, casino and amusement, retail self-service, and industrial automation environments.

Choice of Elo touch technologies:
Standard bezel: IntelliTouch® SAW
Zero-bezel: TouchPro® PCAP

Elo's TouchPro PCAP offers:

- 2GS (two glass solution) with pristine optical clarity and touch durability.
- 10 touch with thru-glass capabilities that passes UL-60950 & IK-07 impact testing

Video Interfaces: HDMI, VGA & Display Port

1291L 12.1-inch Open-Frame Touchscreen

Specifications	
Model	1291L
Color	Black
Active Display Area	9.69" x 7.26" / 246mm x 184.50mm
Diagonal	12.1"
Aspect Ratio	4:3
Dimensions	IntelliTouch: 11.91" x 9.54" x 1.96" / 302.5mm x 242.2mm x 49.8mm PCAP: 11.90" x 9.53" x 1.77" / 302.5mm x 242mm x 44.9mm
Native Resolution	800 x 600 at 60Hz
Other Supported Resolutions	640 x 480 60Hz; 800 x 500 60Hz; 800 x 600 60Hz; 1024x768 60Hz; 1280x720 60Hz
Number of Colors	16.2 million
Number of Touches	Single-touch and 10-touch
Brightness (typical)	LCD Panel: 450 nits; IntelliTouch: 405 nits; TouchPro PCAP: 405 nits
Response (typical)	25 msec
Viewing Angle	Horizontal: 89° / 178°; Vertical: 89° / 178°
Contrast Ratio	1500:1
On-Screen Display	Accessible through switches on the unit's tethered OSD Control box. Controls: Menu, Up, Down, Select, Power Settings: Brightness, Contrast, Clock, Phase, H-position, V-position, Auto-Adjust, Aspect Ratio, Sharpness, Color, Temperature, OSD Timeout, OSD Language, OSD H-Position, OSD V-Position, Recall Defaults, Video Priority, Information, Touch On Sleep Mode, Touch Through Languages: English, French, Italian, German, Spanish, Simplified Chinese, Traditional Chinese, Japanese Lockouts: OSD, Power
Video	HDMI V1.3 Type A receptacle for HDMI input Analog VGA on Female DB-15 connector DisplayPort V1.1a - Supports later versions of Display Port video input Input Video Horizontal Sync frequency range: 30 - 38KHz Input Video Vertical Sync (frame rate) frequency range: 50-75Hz
Power	External DC - Optional power brick (sold separately) Monitor input power connector: Coaxial power jack (2.0mm (+0.0 -0.1mm) pin outer diameter, 6.4mm (+/- 0.3mm) barrel inner diameter, 8.8mm (+/- 0.3mm) barrel depth) Monitor input power signal specifications: 12VDC +/- 5% Adapter output power connector: DC barrel plug (2.1mm (+/- 0.1mm) pin inner diameter, 5.5mm (+/- 0.05mm) barrel outer diameter, 9.5mm (+/- 0.3mm) barrel length)
Power Consumption	ON (monitor + power brick): 12.2W SLEEP (monitor + power brick): 1.5W OFF (monitor + power brick): 0.5W
Temperature	Operating: 0 °C to 40 °C (32 °F to 104 °F); Storage: -20 °C to 60 °C (-4 °F to 140 °F)
Humidity	Operating: 20% to 80%; Storage: 10% to 95%
Weight	Unpackaged: 5.8 lbs / 2.65 kg; Packaged: 10.5 lbs / 4.75 kg
Shipping Dimensions	15.12" x 12.68" x 14.38" / 384mm x 322mm x 185mm
Mounting Options	VESA 4-hole 75mm; Rear mount through bezel or with included mounting brackets (IntelliTouch models); Flush mount with included mounting brackets (TouchPro PCAP Models)
Warranty	3 years standard
Extended Warranty	4 year warranty - Elo P/N: E898247 5 year warranty - Elo P/N: E898449 3 year warranty + AUR - Elo P/N: E898648 4 year warranty + AUR - Elo P/N: E894921 5 year warranty + AUR - Elo P/N: E895125
MTBF	50,000 hours demonstrated
Agency Approvals	UL, FCC; RCM; cUL, IC; CCC; CE, TUV; VCCI; KCC; CoC; BSMI; CB; RoHS, China RoHS, WEEE
What's in the Box	HDMI Cable, VGA Cable, OSD Remote, Touch USB Cable, Quick Install Guide; For Zero-Bezel Models: Flush Mount Brackets w/Screws; For Bezeled Models: "L" (Side Mount) Brackets w/Screws, EEL Label, Japan Class-B TM info sheet

Ordering Information

Model	Part Number	Part Description	Technology	Interface	Surface Treatment	Video Interface
1291L	E331595	ET1291L-2UWB-0-MT-ZB-NPB-G	TouchPro PCAP	USB 2.0	Clear	HDMI, VGA & Display Port
	E329452	ET1291L-8CWB-1-ST-NPB-G	IntelliTouch	Dual serial/USB 2.0	Anti-Glare	HDMI, VGA & Display Port

Learn more about Elo at EloTouch.com.

Americas

Tel +1 408 597 8000
elosales.na@elotouch.com

Europe (EMEA)

Tel +32 (0)16 70 45 00
EMEA.Sales@elotouch.com

Asia Pacific

Tel +86 (21) 3329 1385
www.elotouch.com.cn

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