

CÂMARA MUNICIPAL DE POMBAL

Departamento Municipal Administrativo e Financeiro

CADERNO DE ENCARGOS

“AQUISIÇÃO DE MATERIAL TÉCNICO PARA TEATRO-CINE – PROCESSO N.º 006/AJD/SA/17”

(Ajuste Direto nos termos do Código dos Contratos Públicos, aprovado pelo Decreto-Lei n.º 18/2008, de 29 de janeiro, retificado nos termos da Declaração de Retificação n.º 18-A/2008 de 28 de março, alterado e republicado pelo Decreto-Lei n.º 278/2009, de 2 de outubro, alterado pela Lei nº 64-B/2011 de 30 de dezembro e pelo Decreto-Lei nº 149/2012, de 12 de julho)

Aprovado, 15/02/2017

O Presidente da Câmara,

(Diogo Alves Mateus)



MUNICÍPIO DE POMBAL

Designação do procedimento: : "Aquisição de material
técnico para Teatro-Cine"

Processo n.º 006_AJD_SA_17

CADERNO DE ENCARGOS

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Processo n.º 006_AJD_SA_17

1. DESIGNAÇÃO DO PROCEDIMENTO

Aquisição de material técnico para Teatro_Cine – Processo n.º 006/AJD/SA/17.

2. OBJETO DO FORNECIMENTO OU DA PRESTAÇÃO

O objetivo do presente fornecimento compreende a aquisição de material técnico para o Teatro-Cine.

3. LOCAL DE EXECUÇÃO

O fornecimento objeto do contrato será para o Teatro Cine de Pombal.

4. PRAZO DE EXECUÇÃO

O fornecimento objeto do contrato será entregue num prazo de 30 dias.

5. PREÇO BASE

5.1. Para o presente procedimento é fixado o preço base global de 30.000,00 € (trinta mil euros), acrescido de IVA à taxa legal em vigor.

5.2. O preço base é o preço máximo que a entidade adjudicante se dispõe a pagar pela execução de todas as prestações do presente contrato.

5.3. As propostas de valor superior ao preço base fixado serão excluídas, por força da disposição da alínea d) do n.º 2, do Artigo 70.º, do C.C.P.

6. PRAZO DE PAGAMENTOS

Os pagamentos serão efectuados até 60 dias, contados da data de apresentação das facturas.

7. RETENÇÕES SOBRE PAGAMENTOS

Não serão feitas retenções sobre os pagamentos, sem prejuízo do integral cumprimento do contrato.

8. CESSÃO DA POSIÇÃO CONTRATUAL



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O adjudicatário não poderá ceder a sua posição contratual ou qualquer dos direitos e obrigações decorrentes do contrato sem autorização da entidade adjudicante.

9. CASOS FORTUITOS OU DE FORÇA MAIOR

- 9.1. Nenhuma das partes incorrerá em responsabilidade se por caso fortuito ou de força maior, designadamente greves ou outros conflitos coletivos de trabalho, for impedido de cumprir as obrigações assumidas no contrato.
- 9.2. A parte que invocar casos fortuitos ou de força maior deverá comunicar e justificar tais situações à outra parte, bem como informar o prazo previsível para restabelecer a situação

10. PATENTES, LICENÇAS E MARCAS REGISTRADAS

- 10.1. São da responsabilidade do adjudicatário quaisquer encargos decorrentes da autorização, no fornecimento, de marcas registadas, patentes registadas ou licenças.
- 10.2. Caso a entidade adjudicante venha a ser demandada por ter infringido, na execução do contrato, qualquer dos direitos mencionados no número anterior, o adjudicatário indemniza-o de todas as despesas que, em consequência, haja de fazer e de todas as quantias que tenha de pagar seja a que título for.

11. GARANTIA

- 11.1. O adjudicatário garantirá, sem qualquer encargo adicional para a entidade adjudicante, o bem fornecidos, pelo prazo indicado no ponto 4.
- 11.2. O prazo de execução referido no número anterior conta-se a partir da data da notificação do término do procedimento.
- 11.3. O prazo de garantia referido no número anterior conta-se a partir da data da notificação do término do procedimento.



- 11.4. São excluídos da garantia todos os defeitos que notoriamente resultarem de má utilização, de uma utilização abusiva ou de negligência da entidade adjudicante, bem como todos os defeitos, ação de terceiros, de caso fortuito ou de força maior.
- 11.5. Em caso de anomalia detetada no objeto do fornecimento, o adjudicatário compromete-se a intervir, sem prejuízo do direito ao pagamento dos honorários devidos se a anomalia resultar de facto não imputável ao adjudicatário.

12. ESPECIFICAÇÕES TÉCNICAS DO BEM OU SERVIÇO A FORNECER

- 12.1. Pretende-se com a presente aquisição, o fornecimento do seguinte material técnico, conforme características densificadas, em anexo ou equivalente:

- 12.1.1. 04 Motores Columbos Mackinon modelo Lodestar 500Kg ou equivalente com instalação no local;

Para a instalação completa no local (Teatro-Cine de Pombal), é necessário:

- 100 metros de cabo elétrico de 04 condutores 2.5mm (3P+T);
- 04 fichas macho trifásicas de painel 3P+T 16A;
- 2 fichas trifásicas 16A macho para extensão (3P+T);
- 2 fichas trifásicas 16A fêmeas para extensão (3P+T);
- 15 metros cabo trifásico 4mm;
- 1 ficha trifásica 32A macho para extensão;
- 1 ficha trifásica 32A fêmea para extensão.

- 12.1.2. 01 Controle de Motores de 4 canais KBA 051-506 U ou equivalente;

- 12.1.3. 08 Wally's “Triton Blue” com case ou equivalente;

- 12.1.4. 32 Par 56 Led Flat ETEC PAR 56 7x10W RGBW 4in1 DMX Sportlight ou equivalente;



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- 12.1.5. 44 Garras de Alumínio 20 Kg, 50mm, pequenas Triton Blue (Cor Preta) ou equivalente;
- 12.1.6. 02 Microfones ATM350 ou equivalente;
- 12.1.7. 02 Microfones AKG C414 XLII ou equivalente;
- 12.1.8. 02 Amplificadores Peavery 2600 ou equivalente;
- 12.1.9. 01 Amplificador para monição MC2 E45 ou equivalente;
- 12.1.10.04 Monitores de Som Martin Audio LE1200 com case ou equivalente.
- 12.1.11.02 Flightcases para 2xMartin Mac 250 com rodas com rodas ou equivalente;
- 12.1.12.01 Painel de 02un com 16 buracos para xlr;
- 12.1.13.01 Painéis de 01 un com 08 buracos para xlr.

Motores de corrente

Sistema de motorização, constituído por motor compacto de corrente, devidamente certificados e obedecendo às normativas nacionais e europeias em vigor, com peso próprio inferior a 30kg (apenas o motor), velocidade fixa de 4m/min, corrente metálica galvanizada, incluindo acessórios de suspensão, saco para corrente de dimensão adequada a quantidade de corrente que equipa motor, mecanismos de segurança e travagem, acessórios de suspensão e de afinação do motor com características de segurança e todos os elementos necessários ao perfeito funcionamento, operacionalidade e segurança do motor.

A motorização deverá ser dimensionada para os seguintes parâmetros:

Curso máximo = 12 m;
Carga máxima de utilização = 500 Kg;
Alimentação trifásica - 3P+T
Duplo travão
Controlo em baixa voltagem

Para além destas, deverão ainda possuir as seguintes características:

Certificação: de acordo com as normativas nacionais e europeias em vigor

Velocidade: 4m/min

Potência: ½ HP

Classe de proteção: IP66

Nível de ruído em operação: < 73dB

Corrente: metálica galvanizada com 12m

Alimentação: trifásica

Controlo: Tipo Direct control

Acessórios incluídos: 12m de corrente, saco de corrente, gancho de suspensão, suporte de saco, pegas e fichas de alimentação e controlo.

Todos os acessórios serão fornecidos já devidamente montados no motor.

Grande durabilidade e peso reduzido pela sua construção em alumínio fundido

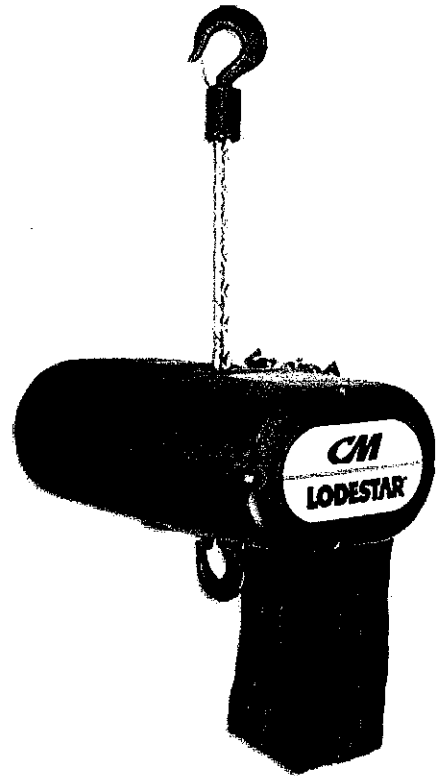
Engrenagem de desenho helicoidal, que permite um funcionamento mais suave e silencioso

Acabamento a pintura electroestática preta para um aspecto discreto

Protetor de sobrecarga, para prevenir que se ultrapassem os limites seguros de carga do motor

Deverá ser de fácil manuseamento

Garantia de 2 anos, sendo que após esse período deverá acrescer uma garantia vitalícia, válida para componentes onde se prove que houve defeito de fabrico.



Para a instalação completa no local (Teatro-Cine de Pombal), é necessário;

- 1) 100 metros de cabo elétrico de 04 condutores 2.5mm (3P+T);
- 2) 04 fichas macho trifásicas de painel 3P+T 16A;
- 3) 2 fichas trifásicas 16A macho para extensão (3P+T);
- 4) 2 fichas trifásicas 16A fêmeas para extensão (3P+T);
- 5) 15 metros cabo trifásico 4mm;
- 6) 1 ficha trifásica 32A macho para extensão;
- 7) 1 ficha trifásica 32A fêmea para extensão.

FR-419 Chainhoist controller

El Controlador FACTOR RACK RF419 representa una unidad de control para motores de cadena en una caja metálica en formato rack de 19" en 4 unidades de altura. Es una unidad de control de polipastos o unidades que puedan funcionar con una velocidad fija sin control adicional de otros dispositivos. El controlador dispone de elementos de accionamiento claramente identificables, y lógicos, comenzando por los controles individuales por polipasto, los inversores de recorrido, el pulsado de marcha, los mecanismos de protección magneto térmica, incluso el pulsador de parada de emergencia.

Aplicaciones:

Compañías de alquiler de equipamiento de iluminación, rigging, audio, video. Instalaciones de feria, parques de atracciones, parques temáticos. Instalaciones fijas y eventuales.



Características

Panel frontal

- 3 LED indicativos de entrada correcta de acometida eléctrica, uno por cada fase.
- 1 Interruptor magneto técnico de 4 polor 16A para la corte y protección de alimentación.
- 1 Interruptor magneto térmico de 1 polos 10A para el corte de mando.
- 1 LED indicativo de la marcha del sistema
- 1 pulsador (tipo seta) de marcha del sistema.
- 1 pulsador (tipo seta) de parada de emergencia que bloquea totalmente el controlador
- 4 interruptores giratorios uno por cada línea, para determinar la dirección de subida o bajada

Panel Trasero

- 1 conector Harting con 16 contactos para facilitar la salida de canales de una forma agrupada.
- 4 conectores tipo CEE uno por cada línea controlada
- 1 Acometida eléctrica mediante 1 cable flexible de 5 x 4mm con conector CEE de 32 Amperios.

Especificaciones

» Eléctricas

- Entrada de alimentación: 400V, 50/60H
- Máximo voltaje: -20% y +10%

» Protecciones

- 1 Magneto térmico de 4 polos de 16 Amperios para potencia
- 1 Magneto térmico bipolar de 10 Amperios para mando.

» Conectores Entrada

- Conector alimentación: 1 entrada CEE 5 polos de 32 Amperios mediante un cable flexible de 1 metro de 5 x 4mm.

» Conectores Salida

- 4 Conectores CEE 4 polos de 16 Amperios, una por cada canal de salida.
- 1 Conector Harting de 16 polos de 16 Amperios, para salida agrupada

» Seguridad

- 1 botón de paro de emergencia (tipo seta)

» Físicas

- Medidas: 483 x 440 x 134 mm
- Formato rack 19": 4 unidades de altura
- Peso: 9,0 kg
- Tipo de caja: Metálica acabado en color negro

» Térmicas

- Mínima temperatura ambiente de trabajo: -10° C
- Máxima temperatura ambiente de trabajo: 45° C
- Protección medio ambiental: IP20

» Certificaciones

- CE
- Rosh

» Información pedidos

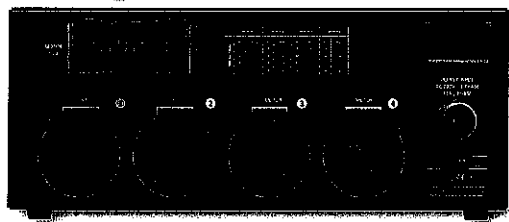
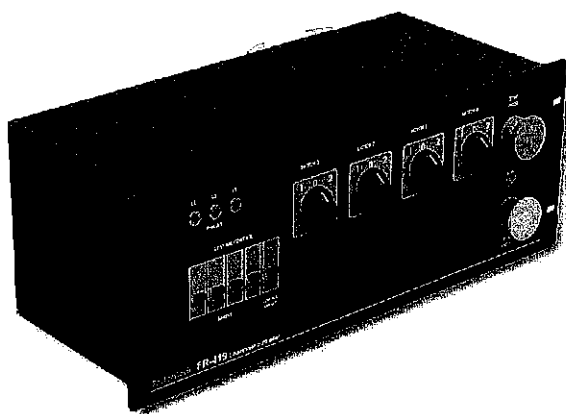
- Código: FR419
- Descripción: Control para 4 motores en formato rack

» Incluido en los pedidos

- 1 unidad FR419 Chainhoist controller
- 1 manual de usuario

» Accesorios opcionales

- Flightcase formato rack 19" 4 unidades estándar (7007004)
- Flightcase formato rack 19" 4 unidades antichoque (7007104)
- Manguera flexible Harting 16 polos Macho / Harting 16 polos Hembra de 10 mts
- Manguera flexible Harting 16 polos Macho / Harting 16 polos Hembra de 20 mts



Galeria de imagenes

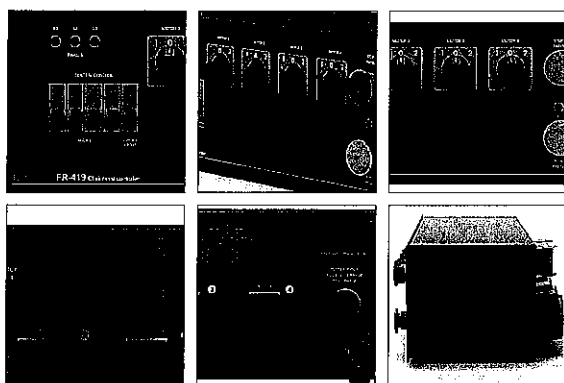
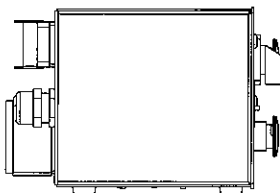
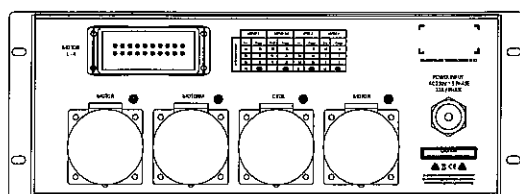
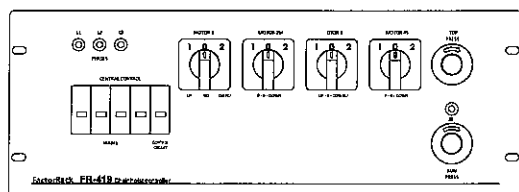


Diagrama con medidas



TRR-M336

Cabeza móvil 36 led 3w

ADVANCED
COLOR MIX SYSTEM



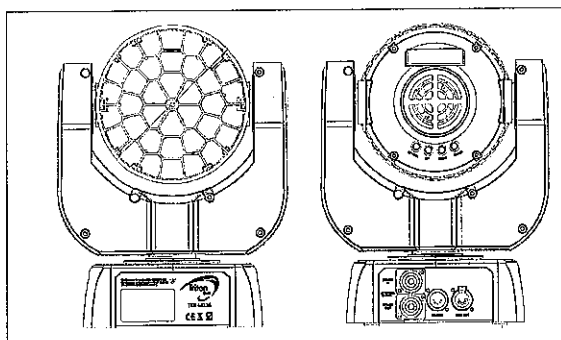
Cabeza móvil de LED Triton Blue, modelo TRR-M336, muy pequeña y rápida, con muy poco peso sólo 3,6 kg. Su haz de 8° es muy estrecho y muy brillante. Es perfecta para instalaciones de bares, discoteca, pubs, escenarios, decoración, compañías de alquiler etc. De amplio giro de movimientos desde 630° para el Pan y de 240° para el Tilt. Excelente mezcla de color. Display LCD de color azul para acceso a todas las funciones de la cabeza móvil. Su funcionamiento puede ser mediante señal DMX 512 o con autoprogramas, como master, esclavo o por sonido.



Especificaciones

Alimentación:	AC 100/240v, 50/60Hz
Total Leds:	36 x 3w. - 12 R, 12 G, 12 B CREE
Angulo de luz:	8°
Canales DMX:	5, 7, 9, 12 Canales
Movimiento PAN:	540° / 630°
Movimiento Tilt:	240°
Shutter:	Flash variable de 1 a 25 flash por sg.
Dimmer:	Lineal de 0 a 100%
Display:	LCD color azul
Consumo total:	130 w
Protocolo de Control:	USITT DMX 512
Opciones de control:	DMX o Autoprogramas
Modos de operación:	Master, esclavo o sonido
Entrada DMX:	XLR de 3pin
Medidas:	242 x 134 x 309 mm
Peso:	3,9kg

Dibujo

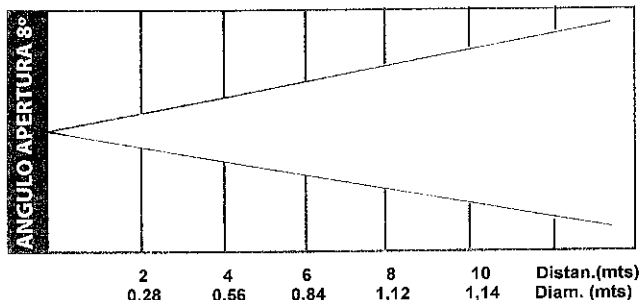


Nota: Este modelo como cualquiera de los modelos de la marca Triton Blue, se puede customizar de cualquier color el cuerpo

Datos luminotécnicos

Intensidad en LUX

Rojo	6250	1563	694	391	250
Verde	7125	1781	792	445	286
Azul	13250	3313	1472	828	530
Full	26625	6656	2958	1664	1065



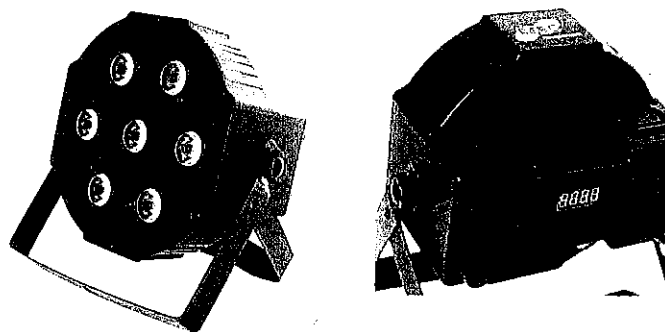
Datos de control

	1	2	3	4	5	6	7	8	9	10	11	12
0/100	Strobe	Dimmer	Pan	Pan F	Tilt	Tilt F	Ajuste	R. Color	Verde	Rojo	Azul	CTC
100%	○	○	○	○	○	○	○	○	○	○	○	○
75%	○	○	○	○	○	○	○	○	○	○	○	○
50%	○	○	○	○	○	○	○	○	○	○	○	○
25%	○	○	○	○	○	○	○	○	○	○	○	○
0%	○	○	○	○	○	○	○	○	○	○	○	○
	Random Strobe	Dimmer	Pan	Pan F	Tilt	Tilt F	AJUSTE DE CONTROL	R. Color	Verde	Rojo	Azul	CTC 10000K - 2500K



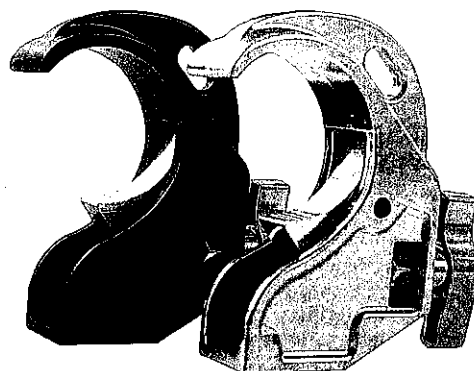
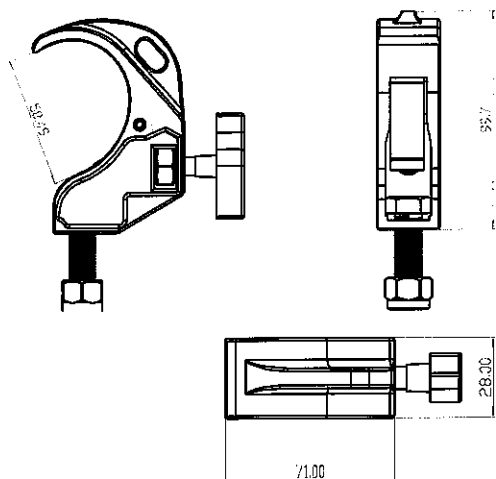
www.triton-blue.com

ETEC PAR 56 7x10W RGBW 4in1 DMX Spotlight



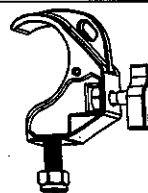
Especificações:

75W consumo de energia
Tensão de alimentação: 220 - 250V
Frequência da tensão de 50 / 60Hz
fusível 2A
Tipo led 4em1
Número de leds 7
leds 10W de potência
display LED - 4 caracteres
cor RGBW
Escurecimento linear: 0 - 100%
Número de canais DMX 5 ou 8
DMX DMX 512 Padrão
interface de controle de 4 teclas
Modos DMX, Automático, Ativo sadio, mestre,
escravo
AC IN IEC 320 - C14
AC OUT IEC 320 - C14
DMX IN XLR - 3 pinos
DMX OUT XLR - 3 pinos
proteção IP20
ABS habitação
ventilador de refrigeração
Altura [cm] 23
Largura [cm] 19.5
Profundidade [cm] 10.5
Peso [kg] 1,1



Descripción: Garra aluminio

Código	Ancho	Carga máxima	Peso neto
008-2777 Metalizado	28 mm	20 Kg	0,38 Kg
008-2778 Negro			

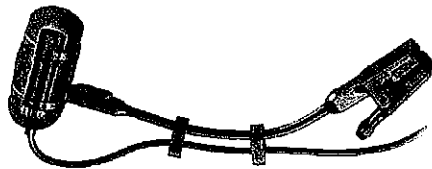


ATM350

Cardioid Condenser Clip-on Instrument Microphone

audio-technica

artist series live sound microphones



Features

- Attaches to brass, reeds, piano, acoustic bass, snare, toms and violin
- Crisp, clear, well-balanced response, even at high SPLs
- Low-profile design for minimum visibility
- Cardioid polar pattern reduces pickup of sounds from the sides and rear, improving isolation of desired sound source
- UniMount® clip permits accurate positioning, provides shock resistance and protects element
- Unique violin mount permits unobtrusive placement of microphone between the instrument's bridge and tailpiece
- Switchable 80 Hz high-pass filter minimizes pickup of undesired low-frequency sounds
- Interchangeable elements available for hypercardioid and omnidirectional polar patterns
- Also available in a wireless model, ATM350cW

ATM350 Description

The ATM350 is a fixed-charge clip-on condenser microphone with a cardioid polar pattern. It is designed for use in professional live-sound and studio applications.

When used with the included instrument mount, it provides accurate, consistent pickup of trumpet and saxophone and many other musical instruments. When used with the included violin mount, it provides outstanding pickup of violin and other stringed instruments.

The microphone requires 11V to 52V phantom power for operation.

The cardioid polar pattern of the microphone is more sensitive to sound originating directly in front of the element, making it useful for controlling feedback and reducing pickup of unwanted sounds.

The microphone includes a 4 m (13.1') permanently attached miniature cable. Its free end connects to the provided AT8542 power module via a TA3F-type connector. The output of the power module is a 3-pin XLRM-type connector.

A switch in the power module permits choice of flat response or low-frequency roll-off (via integral 80 Hz high-pass filter) to help control undesired ambient noise.

The microphone is enclosed in a rugged housing with a low-reflectance black finish. A power module, an instrument mount, a violin mount and a soft protective pouch are included.

ATM350cW Description

The microphone is also available in a wireless model, the ATM350cW. The ATM350cW features a 1.4 m (55") miniature cable terminated with a locking 4-pin connector for use with Audio-Technica UniPak® body-pack transmitters. No power module is included (or required) with the ATM350cW. The ATM350cW dimensions, polar pattern and included instrument mount and violin mount are identical to those of the ATM350.

Operation and Maintenance

The ATM350 requires 11V to 52V phantom power for operation.

Output is low impedance (Lo-Z) balanced. The signal appears across Pins 2 and 3; Pin 1 is ground (shield). Output phase is "Pin 2 hot"—positive acoustic pressure produces positive voltage at Pin 2.

To avoid phase cancellation and poor sound, all mic cables must be wired consistently: Pin 1-to-Pin 1, etc.

An integral 80 Hz high-pass filter provides easy switching from a flat frequency response to a low-end roll-off. The roll-off position reduces the pickup of low-frequency ambient noise (such as traffic, air-handling systems, etc.), room reverberation and mechanically coupled vibrations. To engage the high-pass filter, slide the switch toward the "bent" line.

The included UniMount® instrument mount entirely surrounds the microphone with foam to isolate the microphone from noise transmitted from the instrument, shield the element against accidental damage, and provide an efficient wind screen. The flexible arm permits aiming the microphone in any direction, while a cable strain relief reduces cable-transmitted noise and cable damage. The rubber grip spring clamp securely holds the microphone to the instrument without marring the surface.

To use the included violin mount, place the microphone in the violin mount's elastic mic holder. Open the hook & loop fastener; pass the hook side of the open fastener beneath the strings between the bridge and the tailpiece. Close the fastener flap around the strings. The microphone should be on top, with the element facing the bridge (away from the tailpiece).

Avoid leaving the microphone in the open sun or in areas where temperatures exceed 110° F (43° C) for extended periods. Extremely high humidity should also be avoided.

ATM350

Specifications

To reduce the environmental impact of a multi-language printed document, product information is available online at www.audio-technica.com in a selection of languages.

Afin de réduire l'impact sur l'environnement de l'impression de plusieurs langues, les informations concernant les produits sont disponibles sur le site www.audio-technica.com dans une large sélection de langue.

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자원절약, 환경보호를 위해 국문 사용 설명서는 인쇄하지 않았습니다.
제품정보는 www.audio-technica.com 에서 원하는 언어 선택 후에 다운로드 받으실 수 있습니다.

Element	Fixed-charge back plate, permanently polarized condenser
Polar pattern	Cardioid
Frequency response	40-20,000 Hz
Low frequency roll-off	80 Hz, 12 dB/octave
Open circuit sensitivity	-49 dB (3.5 mV) re 1V at 1 Pa
Impedance	50 ohms
Maximum input sound level	149 dB SPL, 1 kHz at 1% T.H.D.
Dynamic range (typical)	122 dB, 1 kHz at Max SPL
Signal-to-noise ratio¹	67 dB, 1 kHz at 1 Pa
Phantom power requirements	11-52V DC, 3.5 mA typical
Switch	Flat, roll-off
Weight	Microphone: 14.5 g (0.5 oz) Power module: 81.2 g (2.9 oz)
Dimensions	Microphone: 37.8 mm (1.49") long, 12.2 mm (0.48") diameter Power module: 92.9 mm (3.66") long, 18.9 mm (0.74") diameter
Output connector	Power module: Integral 3-pin XLRM-type
Cable(s)	4.0 m (13.1') long (permanently attached to microphone), 3.2 mm (0.13") diameter, 2-conductor shielded cable with TA3F-type connector
Optional interchangeable elements	UE-O omnidirectional (360°) UE-H hypercardioid (100°)
Audio-Technica case style	M36
Accessories furnished	AT8542 power module; AT8418 UniMount® microphone instrument mount; AT8468 violin mount; soft protective pouch

In the interest of standards development, A.T.U.S. offers full details on its test methods to other industry professionals on request.

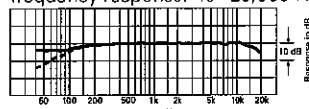
1 Pascal = 10 dynes/cm² = 10 microbars = 94 dB SPL

¹ Typical, A-weighted, using Audio Precision System One.

Specifications are subject to change without notice.



frequency response: 40-20,000 Hz



LEGEND — 12" or more on axis
--- Roll-off

polar pattern



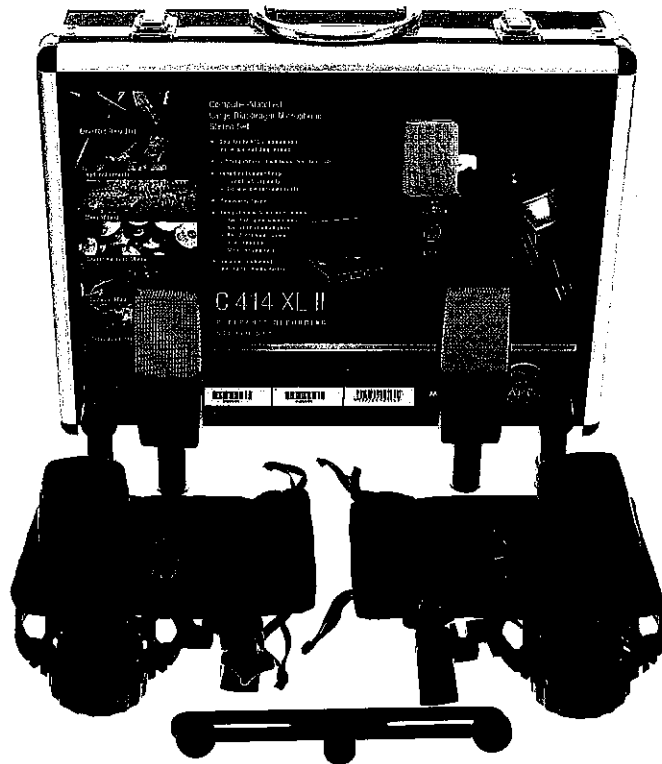
SCALE IS 6 DECIBELS PER DIVISION

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P#1423-110908 P52566

AKG C414 XLII Stereo Set



Detalhes do produto

Condenser large-diaphragm microphone Stereo set consisting of two matched condenser large-diaphragm microphones

- Successor to the C 414B-TLII
- Now with 9 switchable directional characteristics (cardioid, wide-cardioid, hypercardioid, omnidirectional, figure-8 + 4 intermediate positions)
- Frequency range: 20 - 20,000 Hz
- Dynamic range: 140 dB(SPL) max
- Improved details above 4kHz
- Lock mode to save the settings
- Peak-Hold display
- Status LEDs
- 3-Way switchable bass cut filter (0/40/80/160 Hz)
- 3 Preattenuation pads (0/-6/-12/-18 dB)
- Microphone capsule: CK12
- Transformerless XLR Output (FET)
- Incl. elastic mounting (H85), windshield (W414X) and aluminium case

AMPLIFICADOR PEAVEY 2600



SPECIFICATIONS

PV 2600 Power Amp

Stereo Mode: 4 Ohms: 900 Watts RMS x 2

Stereo Mode: 8 Ohms: 540 Watts RMS x 2

Bridge Mode-Mono: 8 Ohms: 1800 Watts RMS

Total Harmonic Distortion: Less than 0.03% 20 Hz to 20 K, 10 dB below rated power in stereo mode both channels driven

Inputs: XLR, 1/4 inch and barrier strip

Detented input gain control

Binding post and Speakon output connectors

Separate Speakon mono bridge output

Mode switch for stereo or bridge operation

Low-cut filter switch for 40 Hz low cut filter

Thru/low output jacks and high output jacks

LED indicators for input signal, DDT and power

Peavey's famous DDT compression system

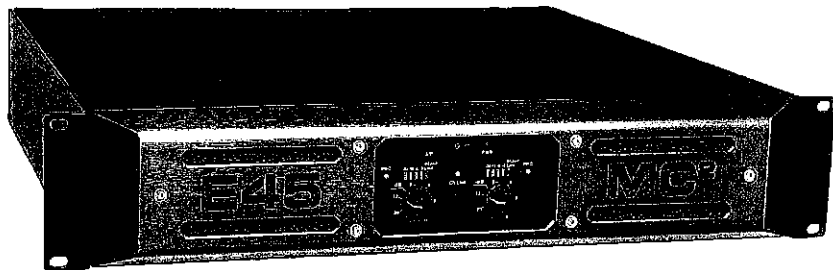
Frequency Response: 20 Hz to 20 kHz

Damping Factor: greater than 300

Hum and Noise: 100 dB

Rack Spaces: 2 RU

Lightweight Touring Power Amplifiers



This lightweight, modified class H amplifier has been designed to the same high standards of reliability and sound quality that our customers have come to expect of all MC² audio products.

As with all E Series amplifiers, the E45 will deliver its rated power over the entire audio bandwidth, and a resonant switchmode power supply with a large reservoir gives extremely high peak power without any "bass sag".

Optical limiters keep mains input and output currents within a safe operating area at all times, whilst maintaining transparent sonic performance.

Power Reduction Circuitry (PRC) controls on the rear panel, linked to the limiter thresholds, allow each channel to be independently set so that different speakers can be safely connected to each channel.

Main Specifications

Output Power (per channel): 8 ohms: 1250W, 4 ohms: 2500W, 2 ohms: 4200W

Measured using continuous music with Crest Factor of 4.8 (14dB)

Output Power (bridged): 8 ohms: 5000W, 4 ohms: 8400W

Measured using continuous music with Crest Factor of 4.8 (14dB)

THD: (@1dB below maximum output power) @ 1kHz < 0.015%, 20Hz to 20kHz < 0.05%

Gain / Sensitivity: Gain 26/32/36dB Sensitivity (for maximum power) +15.7/9.7/5.7dBu (4.7/2.4/1.5V)

Frequency Response: 20Hz to 20kHz (± 0.3 dB)

Power Consumption: Nominal @ 240V into 4 ohms 4.5A, Nominal @ 120V into 4 ohms 9.0A

Dimensions: Amplifier (2U) (mm/in) 88/3.5(h) x 482/18.9(w) x 428/16.8(d)

Boxed (shipping size - UK) 230/9.0 x 580/22.8 x 560/22.0 (Single boxed)

Boxed (shipping size - all except UK) 250/2.8 x 610/24.0 x 600/23.6 (Double boxed)

Weight: Amplifier 11.4kg(25.1lbs), Boxed (shipping weight) 13.4kg(29.5lbs)

Additional Specifications

Input Impedance: 20k ohms (Active balanced)

Input CMRR: > 60dB **Damping Factor:** > 400 (8 ohms / 1kHz)

SNR: Better than 106dB (unwtd, 22Hz-22kHz)

Signal Limiters: Operate at maximum power to prevent excessive clipping.

Protection: Output short circuit, DC output, over-temperature, mains in-rush control.

Output Power:

Continuous sine wave @ 1kHz (per channel): 1100W (8R), 2050W (4R), 3300W (2R)

Continuous music (with Crest Factor of 2.8 (9dB)): 1200W (8R), 2400W (4R), 4100W (2R)

Continuous music (with Crest Factor of 4.8 (14dB)): 1250W(8R), 2500W(4R), 4200W (2R)

Continuous music (with Crest Factor of 7.8 (18dB)): 1350W(8R), 2700W (4R), 4300W (2R)

For details of Power measurement methods please refer to the Technical Support area of our website.

MC²
AUDIO

www.mc2-audio.co.uk

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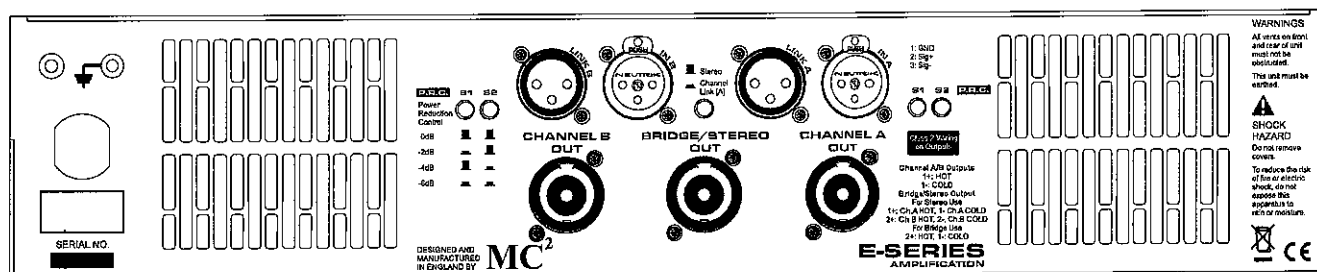
**5 Year
Warranty**

Lightweight Touring Power Amplifiers

Power Consumption & Thermal Emissions

Mains (V)	Load (R)	Current Draw (A)				Thermal Emissions (W)			
		No Sig'l	Light	Average	Heavy	No Sig'l	Light	Average	Heavy
240	8	1.0	1.7	2.7	5.5	240	281	344	510
240	4	1.0	2.4	4.5	10.1	240	322	447	780
240	2	1.0	3.2	6.9	16.5	240	370	589	1163
120	8	2.0	3.4	5.5	11.1	240	281	344	510
120	4	2.0	4.8	9.0	20.2	240	322	447	780
120	2	2.0	6.4	13.7	33.1	240	370	589	1163

No Sig'l = Quiescent, Light = Crest Factor of 7.8(18dB), Average = Crest Factor of 4.8(14dB), Heavy = Crest Factor of 2.8(9dB)
For details of measurement methods please refer to the Technical Support area of our website.



Controls, Indicators & Connectors

Front Panel: 2 x Level Controls, 1 x Power Switch, 1 x Power LED (green),
2 x 5 point LED level indicators, 2 x PRC Active LEDs (green)
1 x Protection Active (red)
1 x Channel Link LED (green)

Rear Panel: 1 x Channel Link switch
2 x 2 PRC level selector switches
3 x Neutrik Speakon output connectors (4 pole)
2 x Neutrik XLR female connectors (audio input)
2 x Neutrik XLR male connectors (audio link output)
Captive mains cable

Architect's and Engineer's Specification

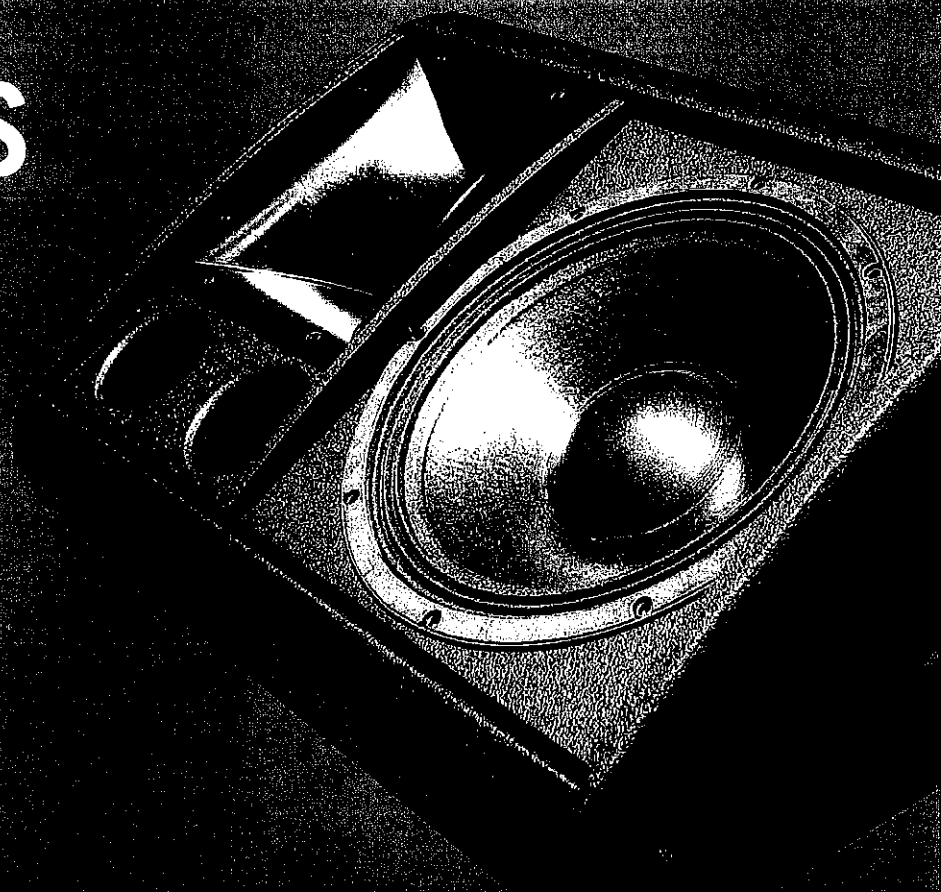
The power amplifier shall be a 2 channel modified Class H design with a minimum guaranteed power of 1250W into 8R (20Hz to 20kHz). THD shall be better than 0.05% (20Hz to 20kHz) and the signal to noise ratio shall exceed 106dB (wtd). Minimum load shall be 2R, and 4R in bridge mode. Input sensitivity shall be +5.7dBu for full power output. Frequency response shall be 20Hz to 20kHz (±0.3dB). The front panel shall have individual input level controls with a 5 point LED meter showing output level and onset of limiting and power reduction. A front panel non-isolating main power switch shall be fitted. The rear panel shall have outputs on Neutrik Speakon connectors, with a third connector wired to carry both channels and for bridged mode (4 pole). The audio inputs shall be on Neutrik 3 pole female XLR connectors, with Neutrik 3 pole male XLR connectors for link outputs. Individual switching of each channel's PRC (Power Reduction Circuit) will be available on a pair of switches giving 24/6dB of power reduction. Input channels shall be linkable using the rear panel link switch.

The amplifier shall be 2U, 19" rackmount in format with dimensions of 8.8cm X 48cm X 43cm and a weight of 11.4kg. AC mains supply shall be nominal 240V/120V, 50/60Hz. The amplifier shall be designated the MC² E45.

MC²
AUDIO

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Honiton | Devon | England | EX14 1YG

LE1200S



Active or passive, low impedance,
high power, rugged design.
Differential Dispersion technology.

The Martin Audio LE1200S is an ultra-compact, high performance stage monitor which combines maximum enclosure volume with optimum presentation angle in a low profile, contemporary design. It features a high-specification 12" (300mm) low frequency drive unit and a 1.4" (35mm) exit compression driver mounted on a Differential Dispersion horn. Differential Dispersion technology increases the area over which a constant SPL and consistent frequency response is maintained at ear height, enabling the artist to move around more freely.

The 12" (300mm)/3" (75mm) coil long-excursion bass driver is reflex loaded by two 3" diameter symmetrically flared ports resulting in deep, articulate low frequency performance. A light weight voice coil and flux demodulation ring optimises midrange clarity and reduces distortion levels at the high SPL's demanded of stage monitors. The powerful neodymium motor system yields high sensitivity and low weight and the advanced cooling design reduces power compression to negligible levels. The cone profile ensures excellent upper midrange dispersion due to the controlled break-up through the crossover region whilst maintaining the stiffness required for tight LF response. The waterproof coating ensures long and reliable service.

The 1.4" (35mm) exit compression driver uses a 3" (75mm) pure titanium dome and is partnered to a specifically engineered and proprietary Differential Dispersion 60° – 100°

horizontal x 60° vertical horn. An ultra-high-flux neodymium motor system minimises weight and yields startling levels of detail and output capability.

The Differential Dispersion horn is optimised to produce constant horizontal directivity of gradually varying beamwidth – wide (100°) above the main axis, 80° on the main axis itself and narrow (60°) below the main axis. As the performer moves away from the monitor they move from the wide, into the narrow dispersion region. This narrowing dispersion effectively changes the forward gain of the horn enabling the horn to throw further, increasing the range of the monitor and reducing excess spill. The HF driver is mounted at 15° to the horn mouth, ensuring the profile of the monitor is kept low whilst directing the main horn axis to ear height at approximately 1.1 metres from the monitor.

The whole of the rear and bottom of the enclosure is a single, very stiff, pressed beech laminate panel, contributing to an extremely rigid and acoustically inert cabinet. Left and right handed versions are available to facilitate use in pairs.

Driven actively, the LE1200S is best used with the DX1.5 or DX2 controller to provide crossover, limiting and EQ functions. When operated in passive mode the LE1200S, may be used without a controller, but benefits from the EQ and limiting functions of the DX1.5 or DX2. This also ensures that both active and passive configurations will exhibit the same tonal balance when used together on stage.

LE SERIES MONITORS

FEATURES

- Very high output, ultra-compact low profile design
- Single 12" (300mm) ultra-long excursion, water-resistant, heavy-duty neodymium motor bass driver
- 1.4" (35mm) exit phase-planning dome HF compression driver
- Optimised constant directivity differential dispersion HF horn
- Contemporary design in a slim-line, black and hard-wearing cabinet
- Active/passive crossover options available
- Frequency response 64Hz-18kHz ± 3 dB, -10dB @ 54Hz
- 8 ohm nominal impedance
- Discrete connectors
- Fitted with 4 x M8 rigging inserts
- Left or Right handed versions available

APPLICATIONS

- High power stage monitor
- Floor-infill, optional yoke

TECHNICAL SPECIFICATIONS

TYPE	Two-way reflex active/passive stage monitor with Differential Dispersion HF horn
FREQUENCY RESPONSE (1)	64Hz-18kHz ± 3 dB -10dB @ 54Hz
DRIVERS	12" (300mm)/3" (75mm) voice coil, ultra-long excursion, water-resistant cone 1.4" (35mm) exit, 3" (75mm) voice coil titanium dome HF compression driver
RATED POWER (2)	SPL: 400W ABS, 160W RMS HF: 80W ABS, 20W RMS
RECOMMENDED AMPLIFIER	500-700W into 4 ohms
SENSITIVITY (3)	SPL: 0.7dB HF: 98dB HF: 106dB
MAXIMUM SPL (calculated)	FR: 123dB continuous, 129dB peak LF: 124dB continuous, 130dB peak HF: 125dB continuous, 131dB peak
NOMINAL IMPEDANCE	FR/LF: 8 ohms HF: 4 ohms
DISPERSION (-6dB)	60° - 100° horizontal (Differential Dispersion) 60° vertical
CROSSOVER	1.3kHz active/passive (with option)
ENCLOSURE	40 litres
FINISH	Textured black paint
PROTECTIVE GRILLE	Black perforated steel
CONNECTORS	4 x N6010KINT4
FITTINGS	4 x skids 4 x M8 inserts
DIMENSIONS	(W) 595mm x (H) 292mm x (D) 470mm (W) 23 1/8" x (H) 11 5/16" x (D) 18 5/8"
WEIGHT	20.5kg (45lbs)

Notes:

- (1) Measured on-axis in half-space at 2 metres, then referred to 1 metre
- (2) ABS Standard ANSI S4-26-1987
- (3) Measured in half-space at 2 metres with 1 watt input using band limited pink noise then referred to 1 metre
- (4) Measured in half-space at 2 metres using band limited pink noise then referred to 1 metre
- (5) Measured on-axis in open (4 π) space at 2 metres, then referred to 1 metre
- (6) Measured in open (4 π) space at 2 metres with 1 watt input using band limited pink noise then referred to 1 metre
- (7) Measured in open (4 π) space at 2 metres using band limited pink noise then referred to 1 metre

SOM | MONITORES | MARTIN AUDIO

FC, MARTIN 2X LE 400, RODAS

FC 1200

DIMENSIONS:

W 0 x D 0 x H 0mm / Weight: 34 Kg

SPECIFICATIONS:

10 mm Birch-ply laminated each side

35 x 35 mm Aluminium Profiles

Panel on case lid to fit the castors

Handles Heavy-duty

Lid stay with hinge

Any drawing or text can be engraved

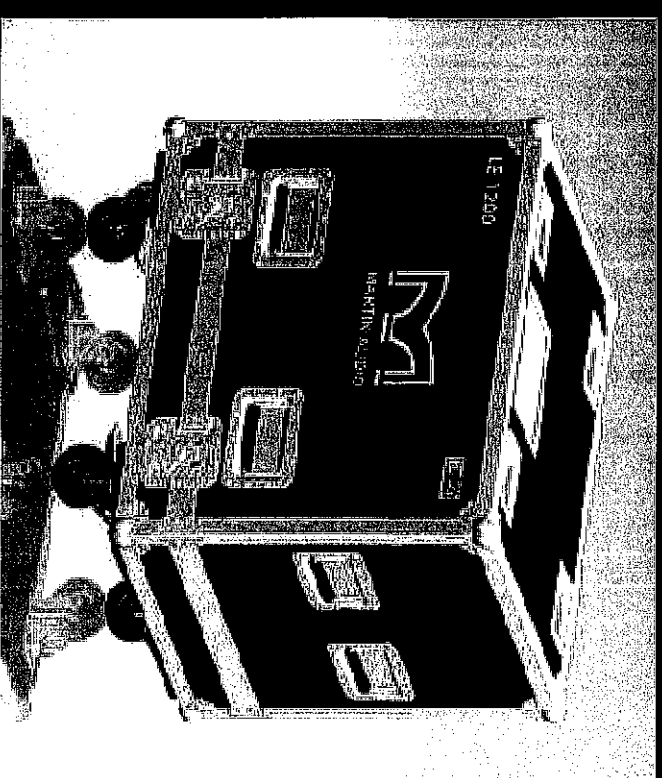
Laminated finish in a variety of colours

Blue wheels, 2 with brake

Ball Corners

Butterfly with "push-back" function

Dish for tour label 185X135 mm.



ILUMINAÇÃO | MOVING HEADS | MARTIN

FLIGHTCASE, 2X MARTIN MAC 250 KRYPTON, RODAS

FLIGHTCASE

Cor: FENÓLICO

DIMENSIONS:

W 943 x D 505 x H 755mm / Weight: 39 Kg

SPECIFICATIONS:

- | | |
|-----------------------------------|---|
| 10 mm Birch-Ply laminated | 10 mm Alum. hybrid lid location |
| 32 x 32 mm Aluminium L angle | 2x Large butterfly catches |
| 2x Lid stay with hinge | 8x Ball Corners |
| 8x Large corner braces | 8x Large Heavy-duty handles |
| 4x Blue wheels, 2 with brake | 4x Castor dish on case lid |
| 1x Dish for tour label 185X135 mm | Foam Shell milling to protect equipment |

