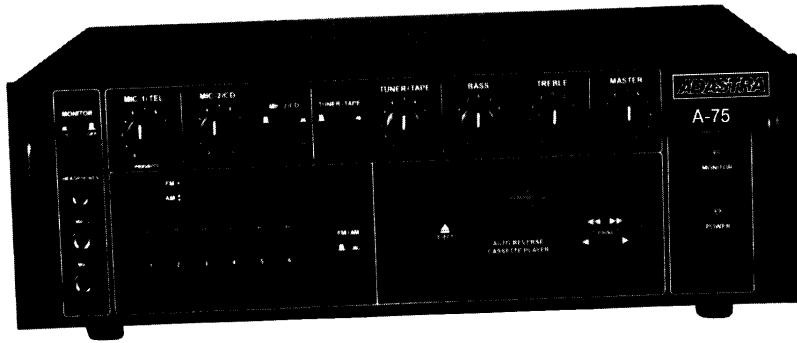


A75

971-145



- 75w PA Amplifier
- 6 Station AM/FM Tuner
- Auto Reverse Cassette Player
- AC & 12v DC

L84

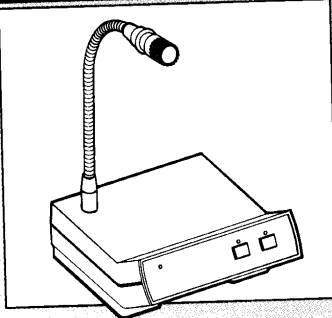
- 20w, 12v Cells
- Pistol Grip & Strap
- 1km (1/2mile) Range
- Built-in Mic & Siren



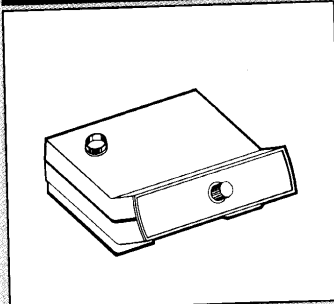
CM3000 Conference System

VERSATILE SYSTEM FOR UP TO 100 DELEGATES

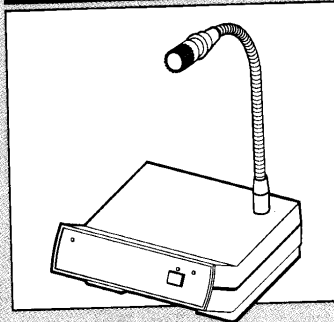
CMC3100 Chairman Unit



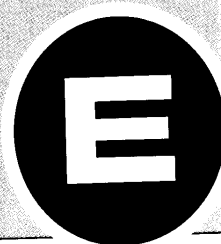
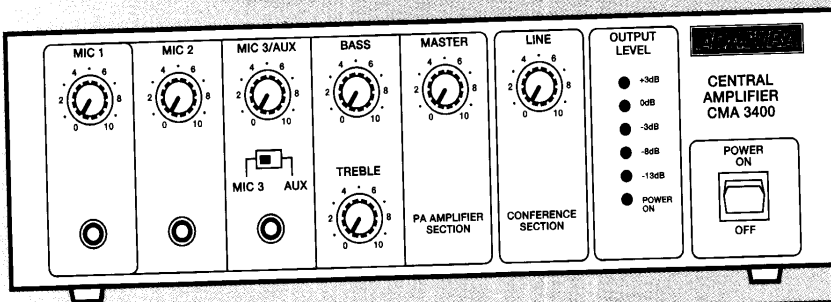
CMS3300 Secretary Unit



CMD3200 Delegate Unit



CMC3400 Central Amplifier



New for '98

ADASTRA

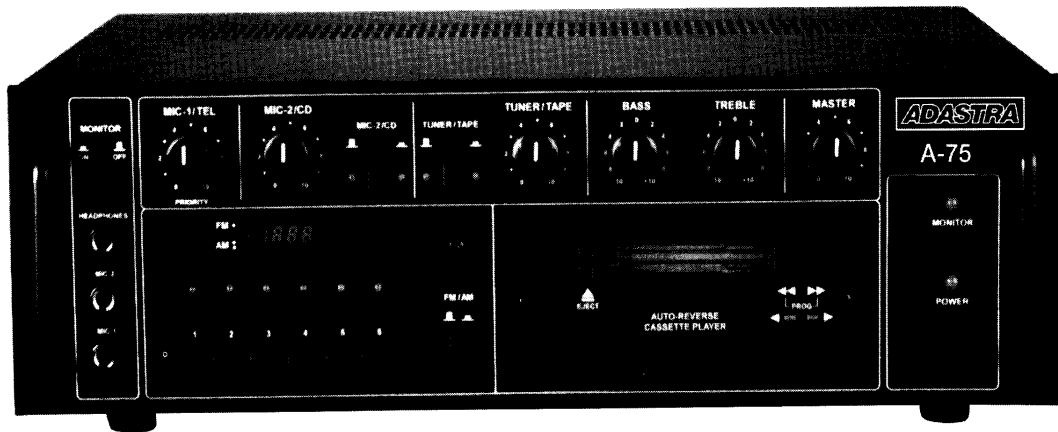
ADASTRA

Hille Business Centre,
134 St Albans Road,
Watford, Hertfordshire,

PLASA
PROFESSIONAL LIGHTING
AND SOUND ASSOCIATION

New for '98

A75 Centre



Background Music & Telephone Paging System for...

Offices... Factories... Departmental Stores... Warehouses... Restaurants...
Banks... Showrooms... Leisure Centres... Pubs & Clubs

Features Include:

- 75w PA Amplifier
- Tanashin Auto Reverse Cassette Player with replaceable module
- 6 Station AM/FM Tuner
- AC Mains & 12v DC powered
- Inputs for Mic 2 & CD/Aux
- Monitoring Headphone Output
- Grab Handles
- Priority on Mic1 & Phone Inputs
- Built-in switchable Monitor Speaker
- Connections to Booster Amplifier
- Supplied with Rack Mounting Ears

SPARE CASSETTE MODULES
Always available and easily replaced
without having to open equipment

Specifications

AMPLIFIER SECTION

Power output	110W Max. 80W RMS at 10% THD 75W RMS at 5% THD (Rated)
Frequency Response	50 - 15,000 Hz (± 3dB)
Signal to Noise Ratio	60 dB
Speaker Output	8 Ohms, 70V & 100V
Monitor Speaker	3", 8 Ohms Full Range
Headphone Output	1.8mW across 8 Ohms
Preamp Output	200mV / 600 Ohms
Line Output	1V / 1K Ohms
Input Channels	2 x MIC, 0.65mV / 4.7K Ohms 1 x CD/AUX, 250mV / 470K Ohms 1 x Telephone, 150mV/10K Ohms (Through Isolation Transformer) Priority on MIC-1 / Telephone
Tone Controls	Bass ±10dB at 100 Hz Treble ±10dB at 10 KHz

TAPE SECTION

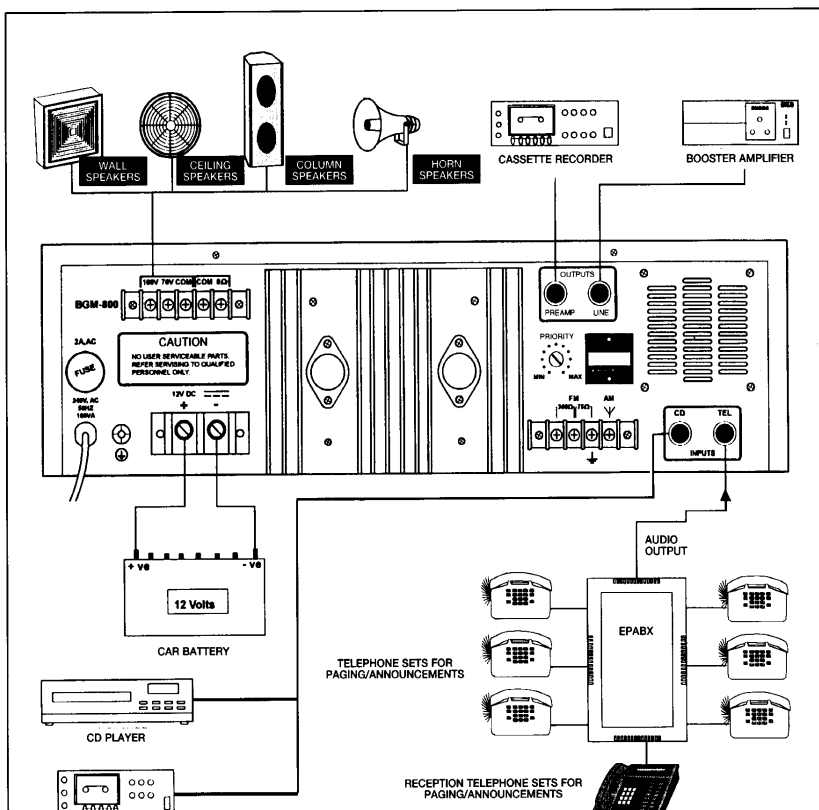
Tape Speed	4.75 cm / sec.
TrackSystem	2 Track, Monaural, Auto Reverse
FF / REW Time	180 sec. (C-60)
Reverse Time	6 sec.
Wow & Flutter	<0.38% RMS (JIS)
Tape Speed Accuracy	Within -2% +3%

TUNER SECTION

Tuning Range	AM 535 KHz - 1630 KHz FM 88 MHz - 108 MHz
Antenna Input	75 Ohms / 300 Ohms
Preset Stations	6

GENERAL

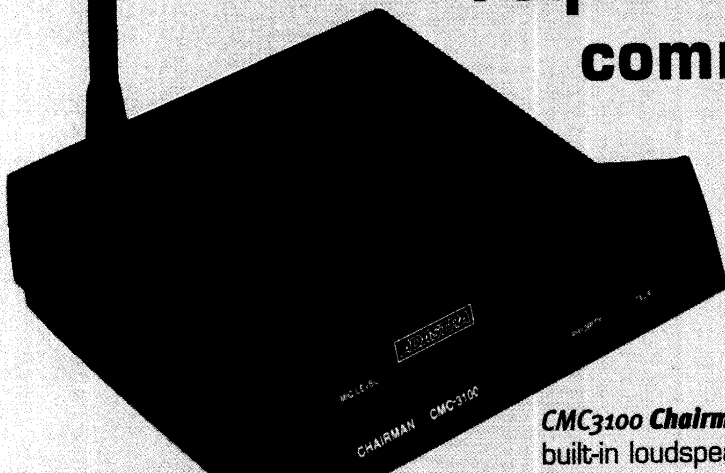
Power Supply	220 - 240V AC, 50/60 Hz 12V - 14V DC Car Battery
Power Consumption	180 VA



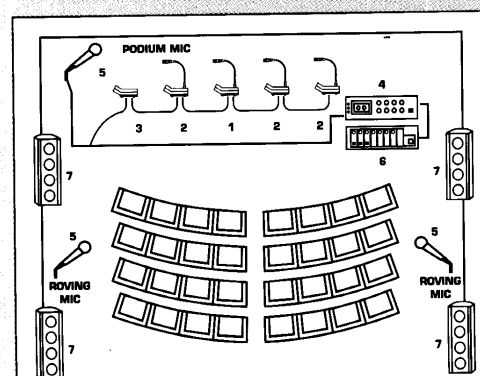
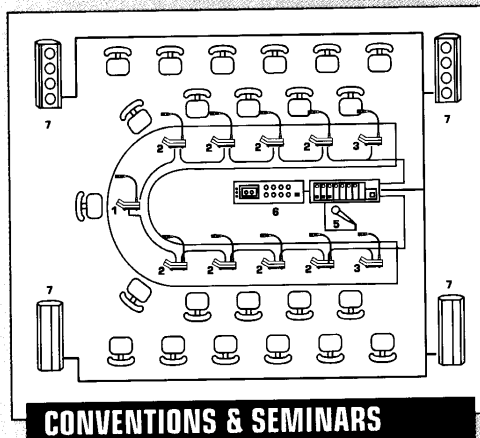
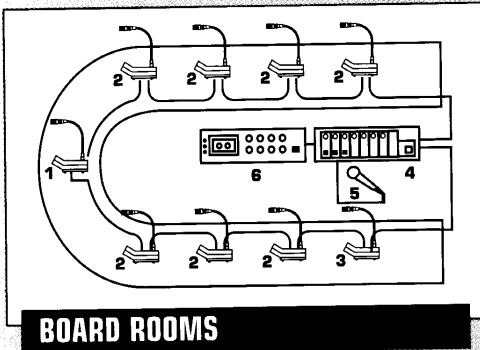
New for '98

CM3000 Conference

A versatile and reliable system meeting virtually any conference requirement for effective communication for up to 100 delegates.



Typical Applications

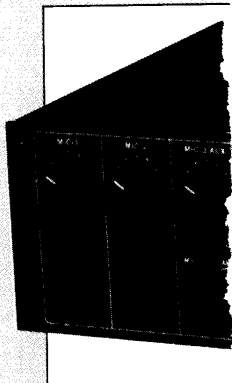


CMC3100 Chairman and **CMC3200 Delegate** units have built-in loudspeakers and highly sensitive electret condenser microphones mounted on 13" flexible goosenecks with unique LED ring indicating when TALK switch has been pressed or **Chairman** is exercising override authority.

The stylish, free standing cast aluminium case has an angled facia incorporating the TALK switch, (which automatically mutes the internal speaker & partially mutes neighbouring speakers), and LEDs indicating mic 'on' and sound level.

Both units have recessed volume controls, and the **Chairman** unit also has a non-lockable PRIORITY switch which interrupts the meeting with a chime tone and mutes delegates microphones.

The matching **CMC3300 Secretary** unit enables proceedings to be recorded through a cassette recorder, for a stenographer to take notes and for relaying pre-recorded messages or music to delegates.



All units are individually packed, supplied with necessary connecting leads and installation/operating instructions.

Specifications

	CMC3100 Chairman Unit	CMC3200 Delegate Unit	CMC3300 Secretary Unit
Microphone	-63 dBV 7.5mV/Pa	-63 dBV 7.5mV/Pa	
Current Consumption	<50mA Max.	<50mA Max.	<25mA Max.
Input	Line	Line	Line, Playback
Output	Line	Line	Line, Record
Speaker	Max. Input 300mW Impedance 8 Ohms	Max. Input 300mW Impedance 8 Ohms	Max. Input 300mW Impedance 8 Ohms
Controls	Priority Switch Talk Switch Speaker Vol. Control	Talk Switch Speaker Vol. Control	Monitor Speaker Vol. Control
Dimensions	W170 x H80 x D190mm	W170 x H80 x D190mm	W170 x H80 x D190mm
Weight	1.60kg	1.60kg	1.40kg
Accessories	Foam Windshield	Foam Windshield	3-Pin plug for REC/PB

Screened Cables

CODE	SIZE	DESCRIPTION	COLOUR CODE	DRUM SIZE
z1	7 x 0.2mm	Single, Lapped Screening	G BK	100m
z2	16 x 0.2mm	Single, Heavy Duty, Braided Screening	G	100m
z3	7 x 0.2mm	Twin, Lapped Screening	G BK	100m
z323	16 x 0.2mm	Twin, Heavy Duty, Braided Screening	G	100m
z4	7 x 0.2mm	4 Way Multicores, Braided Screening	G	100m
z8	7 x 0.2mm	8 Way Multicores, Braided Screening	G	100m
z12	7 x 0.2mm	12 Way Multicores, Braided Screening	G	100m
z15	7 x 0.2mm	25 Way Multicores, Braided Screening	G	100m
z20	7 x 0.1mm	4 Way Multicores, Lapped	G	100m
z21	7 x 0.1mm	Single, Miniature, Lapped Screening	G	100m
z22	7 x 0.1mm	Twin, Miniature, Lapped Screening	G	100m
z23	7 x 0.2mm	Stereo, Fig 8, Lapped Screening	G	100m

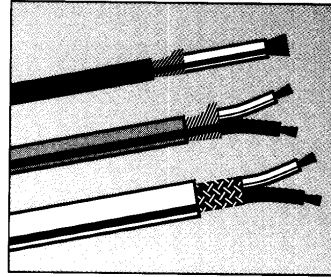
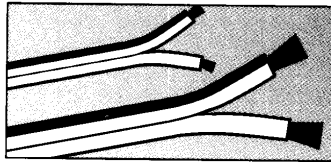


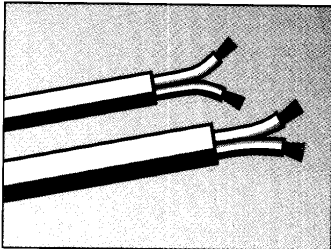
Fig 8 Loudspeaker/Low Voltage Flex & Bell Wire

CODE	SIZE	DESCRIPTION	COLOUR CODE	DRUM SIZE
z24	7 x 0.6mm	Solid Twin Bell Wire .283mm ² /2.0A	W	100m
z24/1000	7 x 0.6mm	Solid Twin Bell Wire .283mm ² /2.0A	W	1000m
z26	13 x 0.2mm	Flexible Fig 8 .40mm ² /2.5A	see colour key above	100m
z26/500	13 x 0.2mm	Flexible Fig 8 .40mm ² /2.5A		500m
z242	42 x 0.15mm	Heavy Duty Fig 8 .75mm ² /6.0A	see colour key above	100m
z242/250	42 x 0.15mm	Heavy Duty Fig 8 .75mm ² /6.0A		250m
z279	79 x 0.2mm	Heavy Duty Fig 8 2.50mm ² /20A	see colour key above	100m



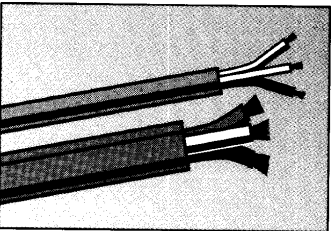
2 Core Mains Flexibles

CODE	SIZE	DESCRIPTION	COLOUR CODE	DRUM SIZE
z31	13 x 0.2mm	Flat .40mm ² /2.5A	W BK	100m
z29	16 x 0.2mm	Flat 2192Y .50mm ² /3.0A	W BK	100m
z27	24 x 0.2mm	Flat 2192Y .75mm ² /6.0A	W BK	100m
z27/250	24 x 0.2mm	Flat 2192Y .75mm ² /6.0A	W BK	250m
z285	16 x 0.2mm	Circular 2182Y .50mm ² /3.0A	W	100m
z285/500	16 x 0.2mm	Circular 2182Y .50mm ² /3.0A	W	500m
z28	24 x 0.2mm	Circular 3182Y .75mm ² /6.0A	W	100m
z28/500	24 x 0.2mm	Circular 3182Y .75mm ² /6.0A	R	500m
z281	32 x 0.2mm	Circular 3182Y 1.00mm ² /10A	W BK	500m
z283	30 x 0.25mm	Circular 3182Y 1.50mm ² /15A	W BK	100m
z284	50 x 0.25mm	Circular 3182Y 2.50mm ² /20A	W BK	100m



3 Core Mains Flexibles

CODE	SIZE	DESCRIPTION	COLOUR CODE	DRUM SIZE
z33	13 x 0.2mm	Circular .40mm ² /2.5A	W BK	100m
z54	16 x 0.2mm	Circular 2183Y .50mm ² /3.0A	W	100m
z55	24 x 0.2mm	Circular 2183Y .75mm ² /6.0A	W BK	100m
z57	32 x 0.2mm	Circular 3183Y 1.00mm ² /10A	W BK	100m
z56	40 x 0.2mm	Circular 3183Y 1.25mm ² /13A	W BK	100m
z58	30 x 0.25mm	Circular 3183Y 1.50mm ² /15A	W BK	100m

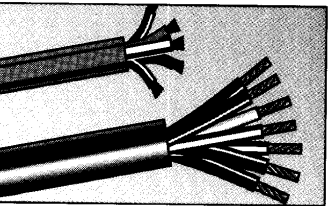


3 Core Arctic Mains Flexibles

CODE	SIZE	DESCRIPTION	COLOUR CODE	DRUM SIZE
z71	30 x 0.25mm	Circular 3183YAG 1.50mm ² /15A	Y BU	100m
z72	50 x 0.25mm	Circular 3183YAG 2.50mm ² /20A	Y BU	100m

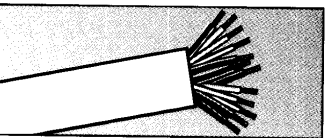
Multiple Core Mains Flexibles

CODE	SIZE	DESCRIPTION	COLOUR CODE	DRUM SIZE
z91	16 x 0.2mm	4 Core Round 2184Y .50mm ² /3.0A	W	100m
z92	24 x 0.2mm	4 Core Round 2184Y .75mm ² /6.0A	W BK	100m
z98	16 x 0.2mm	5 Core Round 2185Y .50mm ² /3.0A	W	100m
z99	24 x 0.2mm	5 Core Round 2185Y .75mm ² /6.0A	W	100m
z106	16 x 0.2mm	6 Core Round 2186Y .50mm ² /3.0A	W	100m
z107	24 x 0.2mm	6 Core Round 2186Y .75mm ² /6.0A	W	100m
z120	16 x 0.2mm	7 Core Round 2187Y .50mm ² /3.0A	W BK	100m
z121	24 x 0.2mm	7 Core Round 2187Y .75mm ² /6.0A	W BK	100m
z124	16 x 0.2mm	8 Core Round 2188Y .50mm ² /3.0A	W	100m



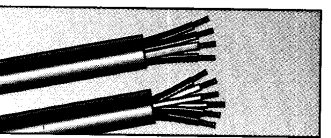
Telephone Cordage

CODE	SIZE	DESCRIPTION	COLOUR CODE	DRUM SIZE
z154	7 x 0.15mm	4 Way 'D' Line CW 1311	W	100m
z156	7 x 0.15mm	6 Way 'D' Line CW 1311	G W	100m
z182	2 Pair/4 Way	0.5mm CW1308/BS.4109	W	100m
z183	3 Pair/6 Way	0.5mm CW1308/BS.4109	W	100m
z184	4 Pair/8 Way	0.5mm CW1308/BS.4109	W	100m
z186	6 Pair/12 Way	0.5mm CW1308/BS.4109	W	100m



Multicores, Unscreened Alarm/Security Cables

CODE	SIZE	DESCRIPTION	COLOUR CODE	DRUM SIZE
z60	7 x 0.2mm	4 Way Circular .20mm ² /1.0A	W	100m
z61	7 x 0.2mm	6 Way Circular .20mm ² /1.0A	W	100m
z62	7 x 0.2mm	8 Way Circular .20mm ² /1.0A	W	100m
z63	7 x 0.2mm	12 Way Circular .20mm ² /1.0A	W	100m
z64	7 x 0.2mm	20 Way Circular .20mm ² /1.0A	W	100m
z65	7 x 0.2mm	30 Way Circular .20mm ² /1.0A	W	100m



Co-Axial Cables

CODE	SIZE	DESCRIPTION	COLOUR CODE	DRUM SIZE
z45	7 x 0.25mm	URM202 VHF/TV Cellular 75Ω	W	100m
z45/250	7 x 0.25mm	URM202 VHF/TV Cellular 75Ω	W	250m
z47	7 x 0.19mm	URM 70 UHF/VHF Solid 75Ω	BK	100m
z48	7 x 0.3mm	RG58 CB/CCTV Solid 50Ω	W	100m



Colour Code Key

W	WHITE	BN	BROWN
Y	YELLOW	BU	BLUE
G	GREY	BK	BLACK
R	RED		

Figure '8' Cables

Colours Available		
z26	100m	White, White (Black), Grey (Black) Black (White) & Black (Red)
z26/500	500m	Grey (Black Stripes)
z242	100m	White (Black), Black
z242/250	250m	White (Black Stripes)
z279	100m	White (Black), Black



Made in Britain

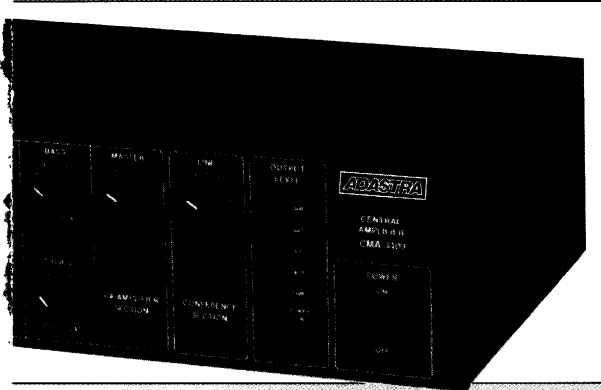
Cable Range

System

CMA3400 Central Amplifier

At the core of the Conference system is the **CMA3400 Central Amplifier** which is also a 30W PA Mixer/Amplifier with microphone and auxiliary inputs; gain, tone and master volume controls; LED output array and both low impedance and 100V outputs. In a robust metal case, the **Central Amplifier** is powered from AC mains with automatic switch-over facility to 12v DC battery standby.

The **CM3000 Conference System** can take inputs from roving, podium and wireless microphones and also be connected to external speakers to provide expanded and overflow listening.



Specifications

CONFERENCE SECTION

Line Output	13.5 V DC/3A Max. -21dBV (90mV)
Preamplifier/Rec Output	150mV/10K ohm 30-18,000Hz (± 1 dB)
Control	Line Level Control

PA AMPLIFIER SECTION

Power Output	30W RMS at 2%THD 70W RMS Max.
Output Regulation	<2dB
Inputs	3 X MIC 0.6mV/4.7K ohm 1 X AUX 50mV/47K ohm
Frequency Response	90-18,000Hz (± 3 dB)
S/N Ratio	>65dB
Tone Controls	Bass -10dB at 100Hz Treble -10dB at 10kHz
Speaker Output	4, 8, 16 ohms, 100V

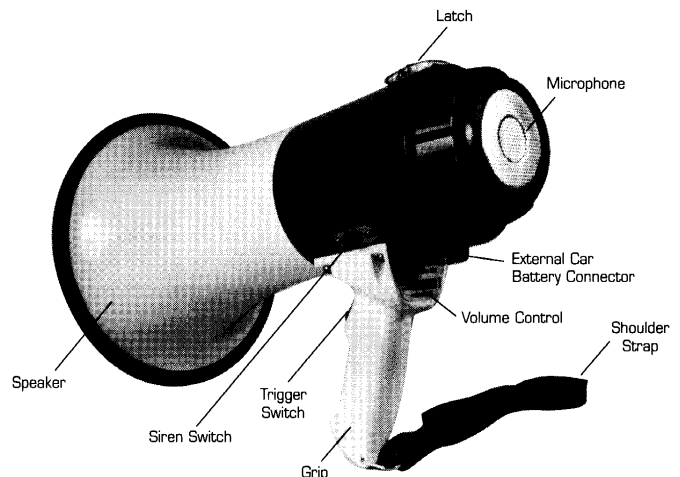
GENERAL

Power Requirement	AC: 220-240V, 50/60Hz DC: 12V Car Battery
Power Consumption	170VA
Protections	AC Fuse 2A/250V DC fuse 8A
Dimensions	W375 X H115 X D295mm
Weight	7.30 kg
Accessories	10m interconnection cable terminated

New for '98

L84 Megaphone

- 20W Max. Output
- Pistol grip operation: shoulder strap
- Built-in Microphone & Siren
- Clear sound, up to 1km (1/2 mile)
- Sturdy, lightweight ABS body
- Trigger switch & volume control
- Powered by 12V, internal Dry Cells, with Car Battery facility



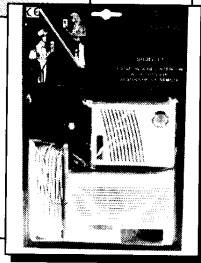
Specifications

Power Output:	16W Rated / 20W Max.
Voice Range:	0.4 km (1 km in quiet area)
Power Source:	12V DC, 8 x UM-2 Cells / Car Battery
Battery Life:	8 - 10 hrs.
Microphone:	Unidirectional
Dimensions:	Horn Dia. 220mm, Length 370mm
Weight:	2.20kg (1.85kg without cells)

All Adastra products meet current EU Regulations and comply with EMC and LVD standards as applicable

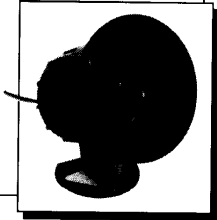
1.9

2 way deluxe, 9v battery powered. Master & weatherproof Slave units. Supplied with 50' cable & staples. Easy to display bubble pack.



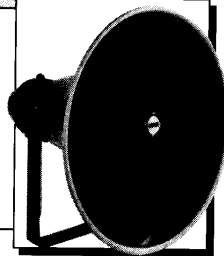
L71

Smallest 10w Horn 8Ω. F.R.-500-7KHz. Black metal. Adjustable mounting bracket. For PA, security & vehicle use.



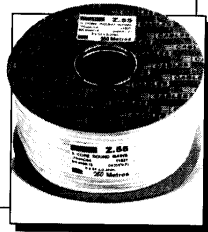
L94

Larger, improved version with stronger mounting. Heavy duty aluminium bell. Standard 1 3/8" x 18t.p.i thread (shown with L98 40w pressure unit).



Longer Length Cable

Some **ADASTRA** cables are now available on long length drums particularly for PA Installers (see current list).



'30'

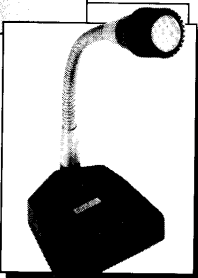
3 high quality Cardioid Mics. At keen prices. Supplied with 6' lead, fitted XLR connections. Heavy duty pouches. 'U' bracket. On/Off Switch. F.R. 50-16KHz

- M31 Vocal 600Ω
- M32 Entertainer 430Ω
- M33 Stage 250Ω



M49

Recently upgraded with two soft touch 'on' switches, & 6' lead with switching pair. 500Ω. F.R. 100-10KHz 2mV/Pa. Desk or panel location.



100V

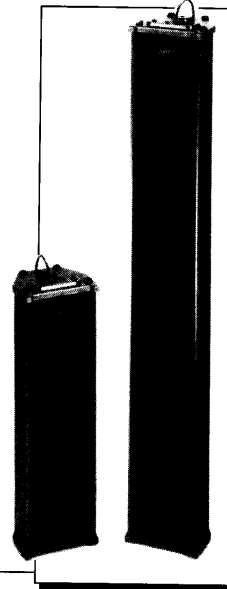
Recent upgrading of **ADASTRA's** PA equipment has included a complete redesign of the **100v Line Transformer** housing on **Combination Horns and Pressure Units**. These are now fully enclosed.

'1900'

Aluminium cabinets. 100v line. External wattage selection. 150-10KHz. Penetrating sound. Supplied with mounting brackets.

L1920
15w RMS, 23w Max
15/10/5/2.5w
SPL @ 1KHz -105dB

L1940
30w RMS, 45w Max
30/20/10/5w
SPL @ 1KHz -111dB



Microphone Stands

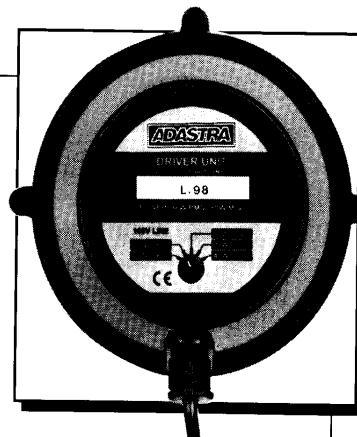
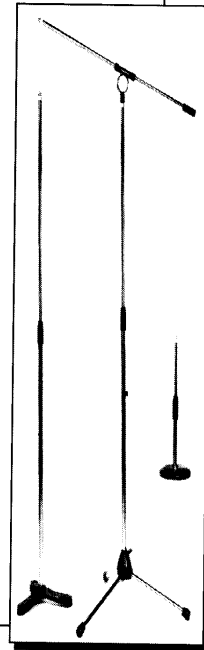
A range of high quality stands made of heavy duty chromed steel, with dual 3/4" & 5/8" termination. Supplied with adjustable cable grips.

M121 **Banquet**
6" cast base. 2 section. 39cm (15 1/2")

M124 **Folding Floor**
2 section with easily adjustable boom arm. 1.56m (5' 1 1/2")

M129 **Cast Base Floor**
2 section 1.56m (5' 1 1/2")

M126 **Boom Arm**
Easy grip tilt angle & length adjustment. 81cm (2' 8")



adjustment for wattage outputs. This redesign results in sleeker looking units, provides better protection against the weather and complies more fully with LVD requirements for fully insulated transformers.

New and Upgraded

