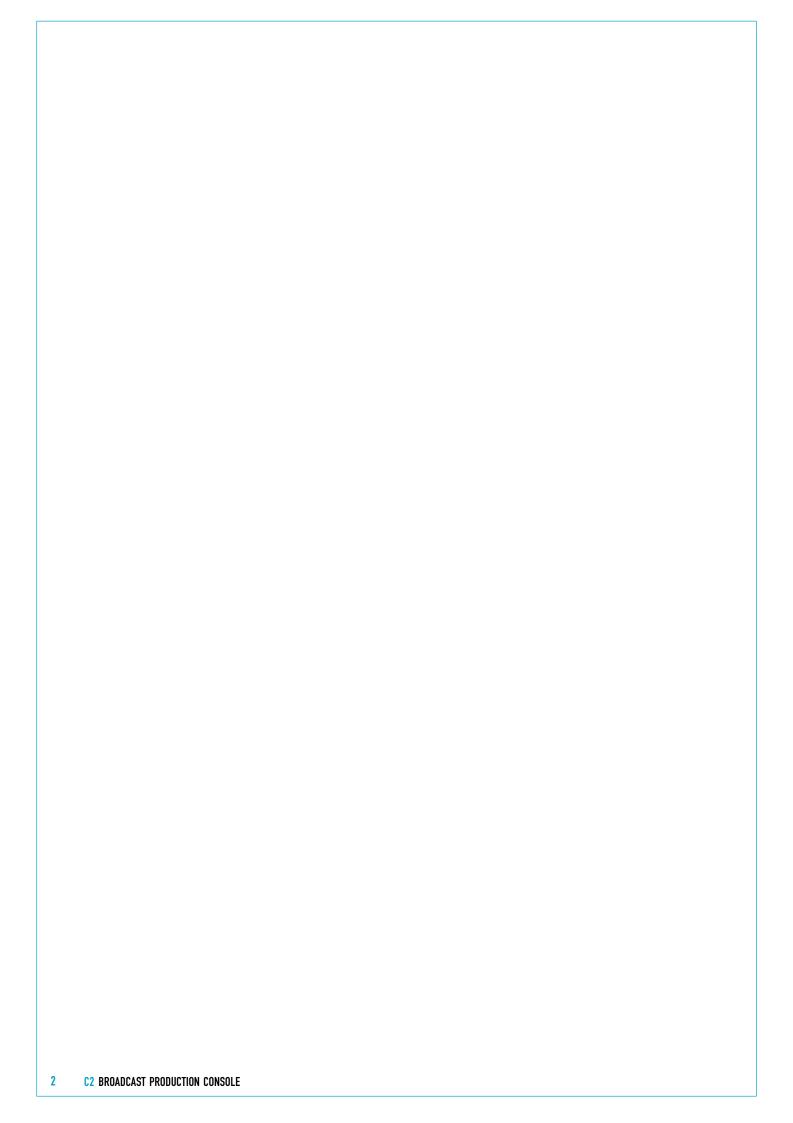
C2 TECHNICAL SPECIFICATIONS



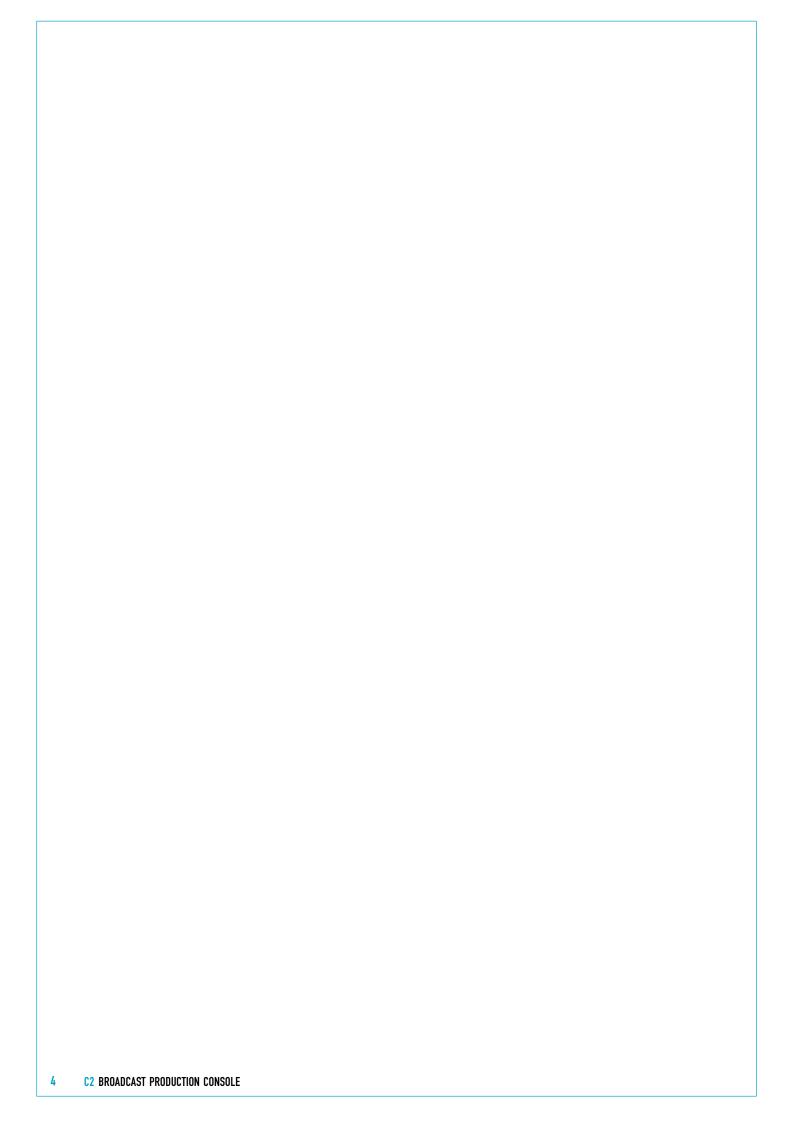
Broadcast Production Console





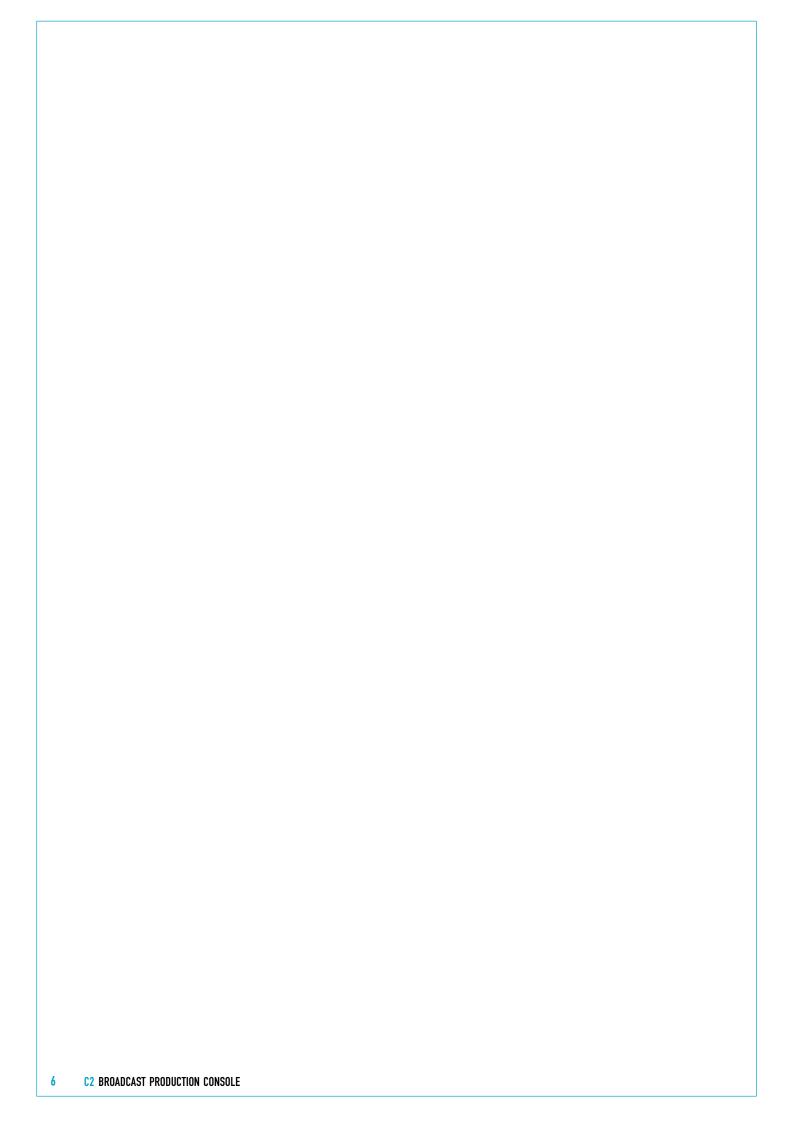
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C2 INTRODUCTION & PRINCIPAL FEATURES

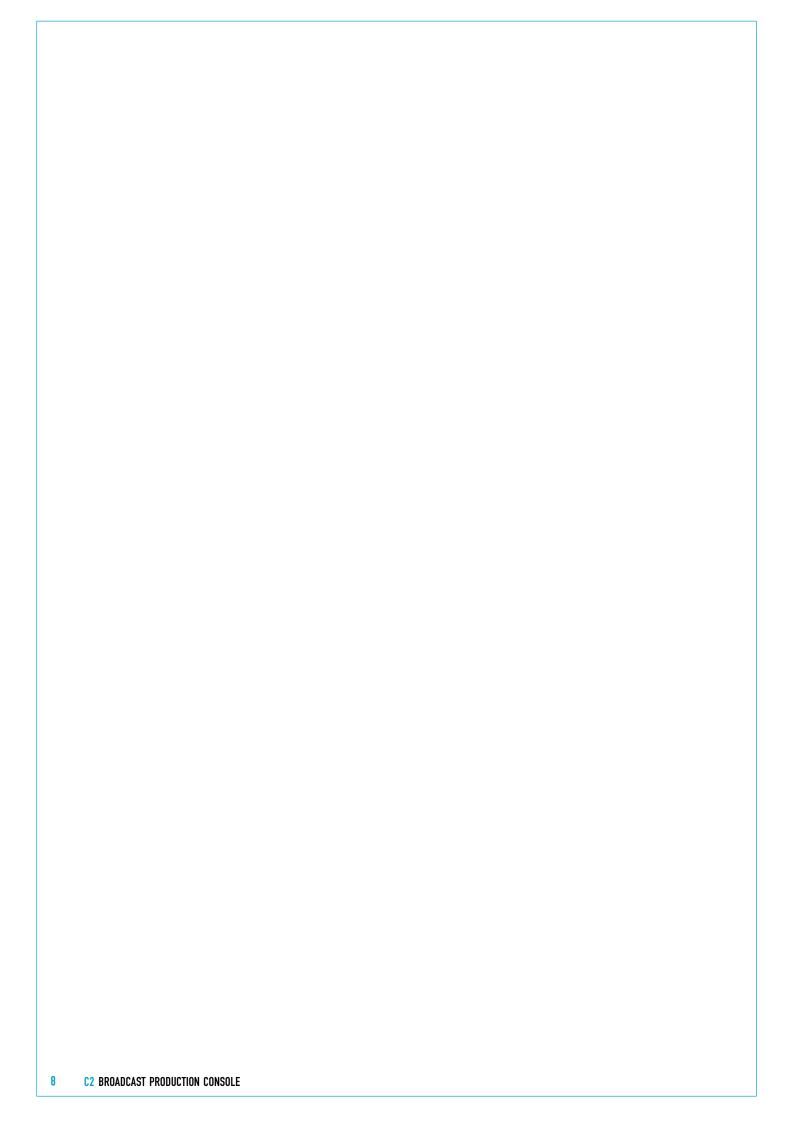




PRINCIPAL FEATURES

The Calrec **C2** is a standard low-profile console design providing mono and stereo broadcast facilities in a small space ideal for outside broadcast vehicles or small studios.

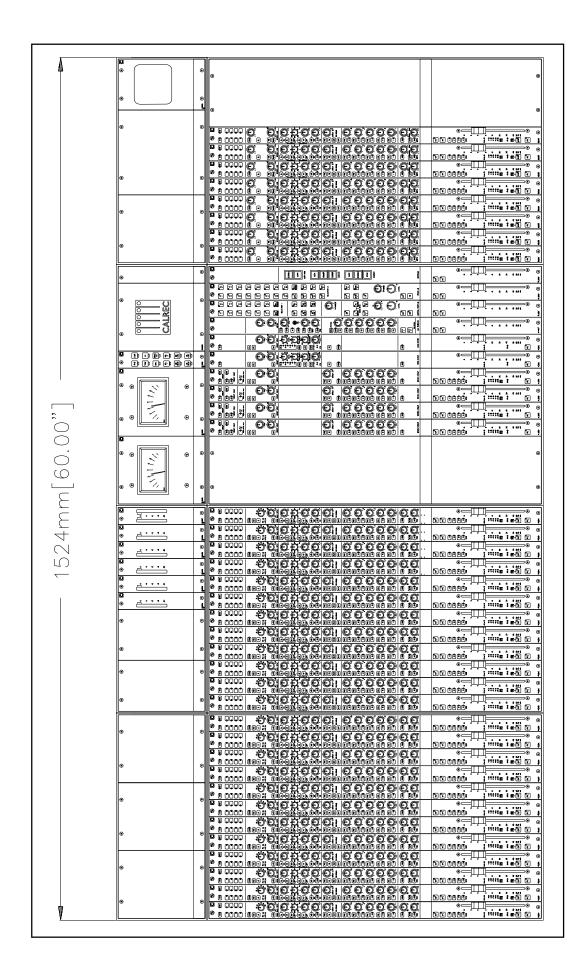
Mono, Stereo Mic/Line and Stereo Line Modules
Very compact module configuration
Can be configured from 12 to 48 channels
Up to 8 Groups, Mono or Stereo
5 Mono and 1 Stereo Auxiliaries
1 or 2 Stereo Main Outputs with Dynamics
30mm Wide Modules
32dB Channel pre-fade headroom
3-band Equaliser and 2-band filter on channels
Mix-Minus system
4 VCA Groups
Surround option available
Solid state routing switches
Provision for extra dynamics, equalisers and a comprehensive range of metering in the upstand
SLS/PA Mute system follows faders and main routing
Stereo AFL and PFL
Comprehensive Loudspeaker Monitoring System
Channel bargraph metering
Stereo Width and Front/Back pan on Stereo channels
Talkback and Mix-Minus to channel direct outputs



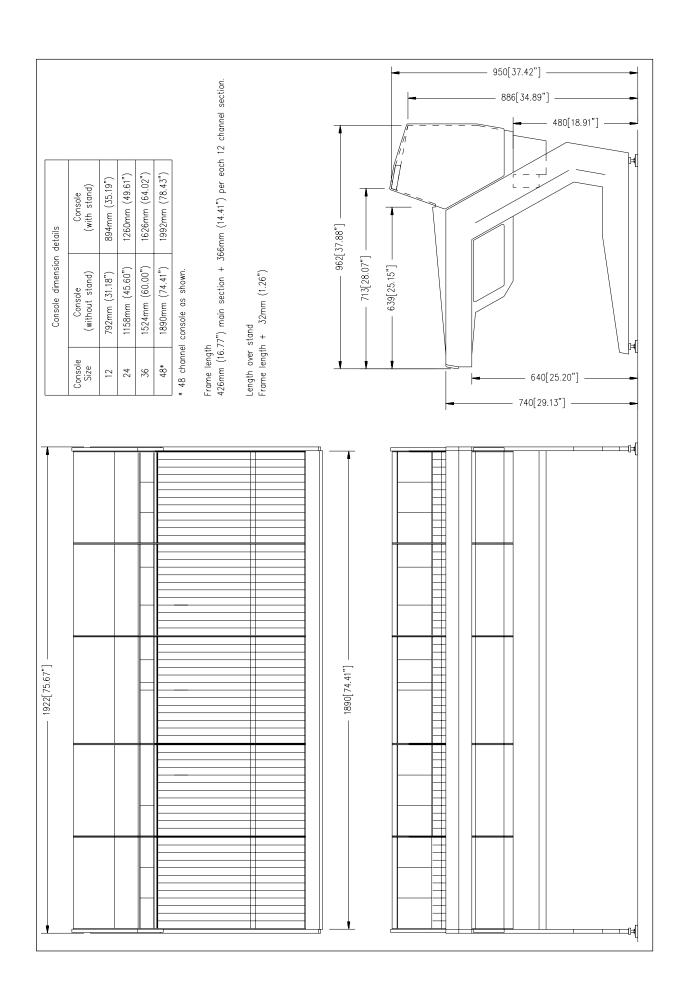
C2 CONSOLE LAYOUT



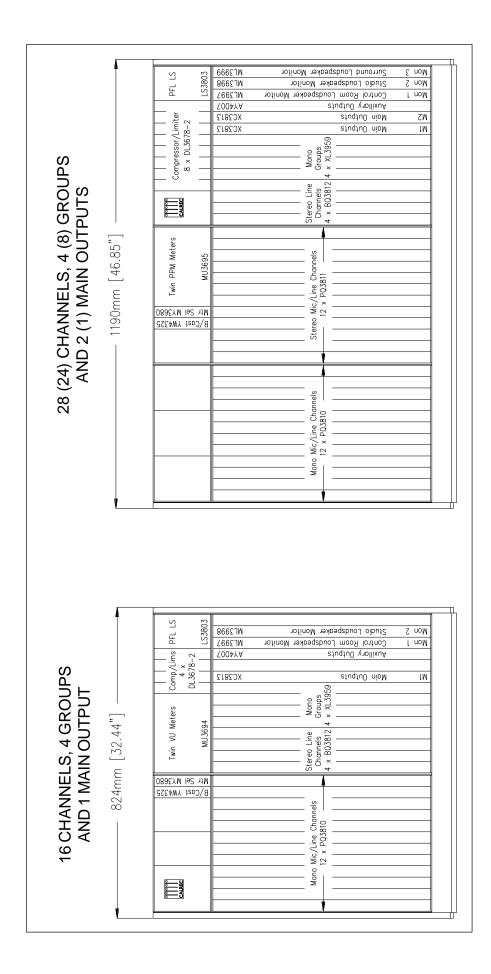
TYPICAL LAYOUT



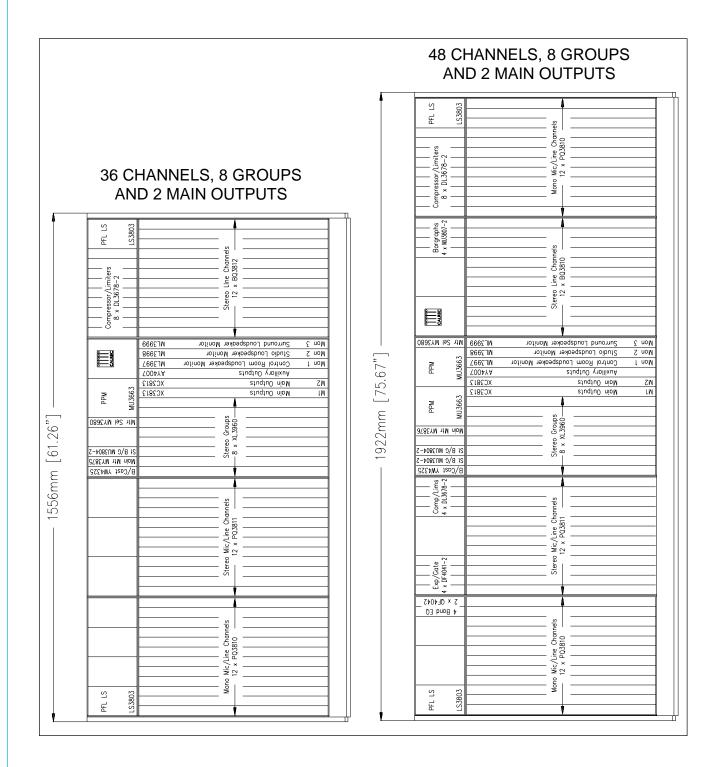
CONSOLE PLAN AND ELEVATION DETAIL DIMENSIONS



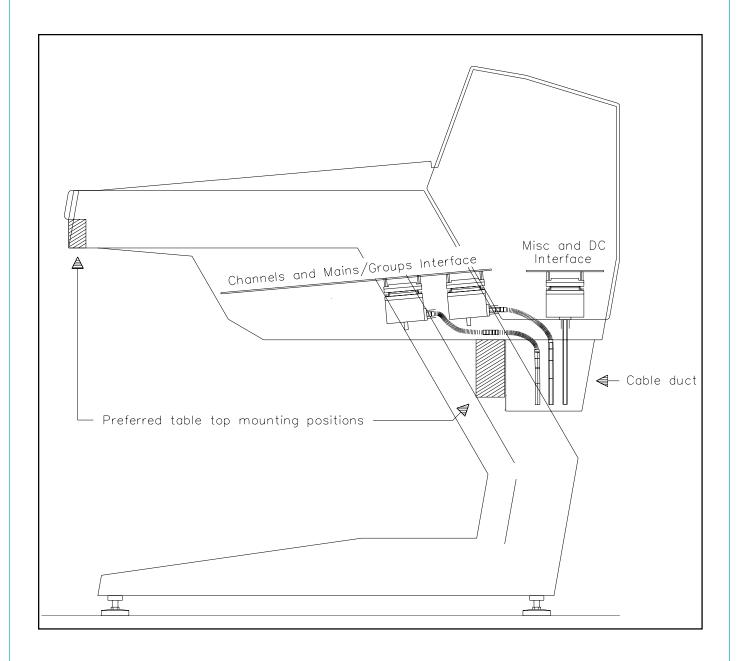
DESK LAYOUTS

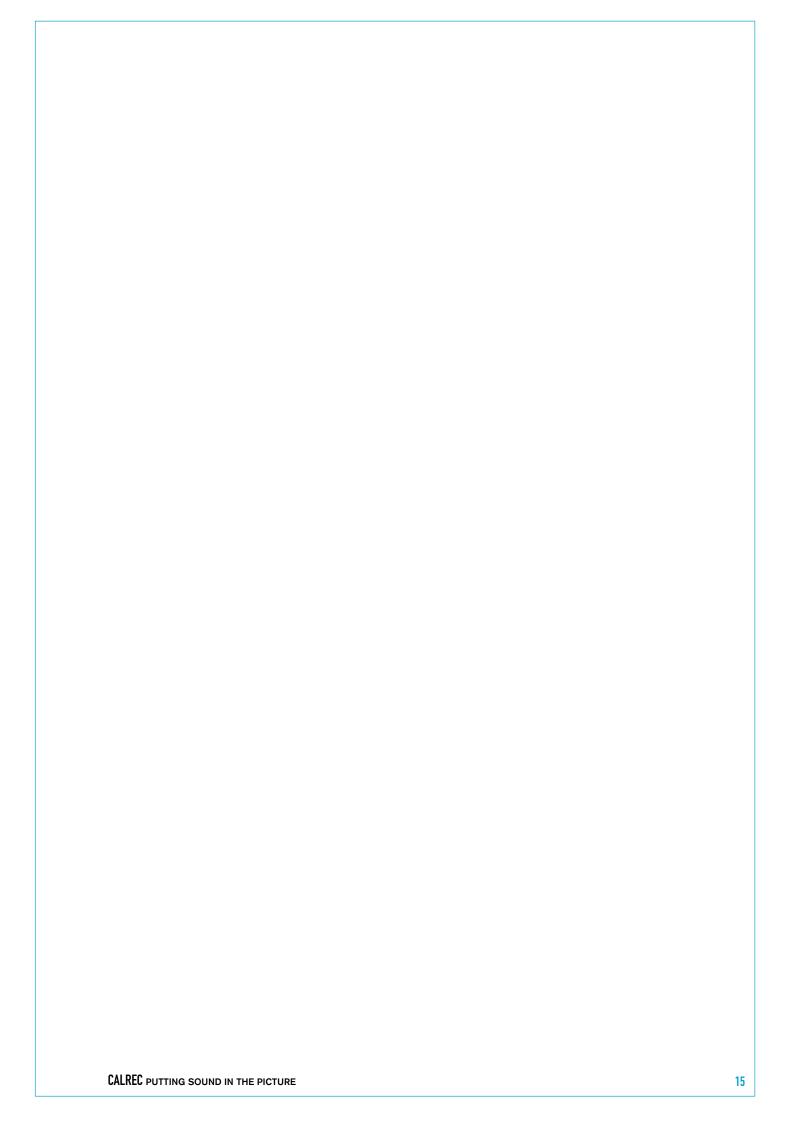


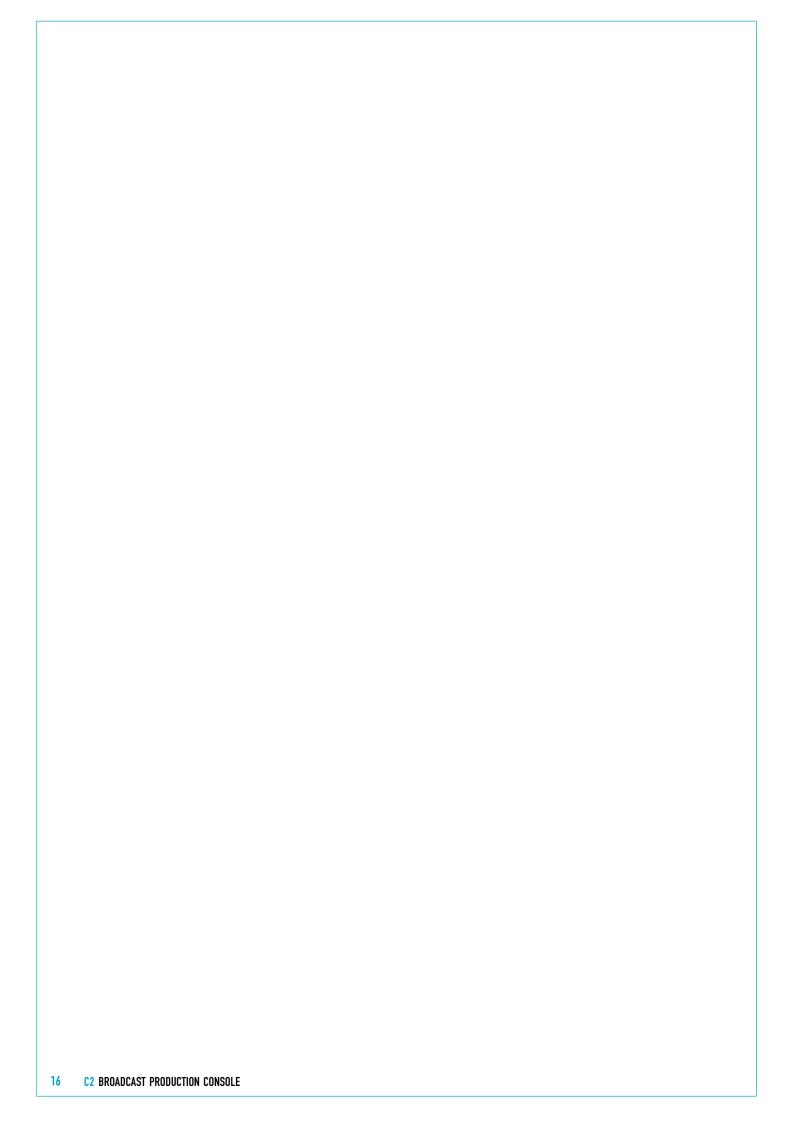
DESK LAYOUTS



LAYOUT OF CONNECTORS







C2 MODULES AND PANELS DESCRIPTION



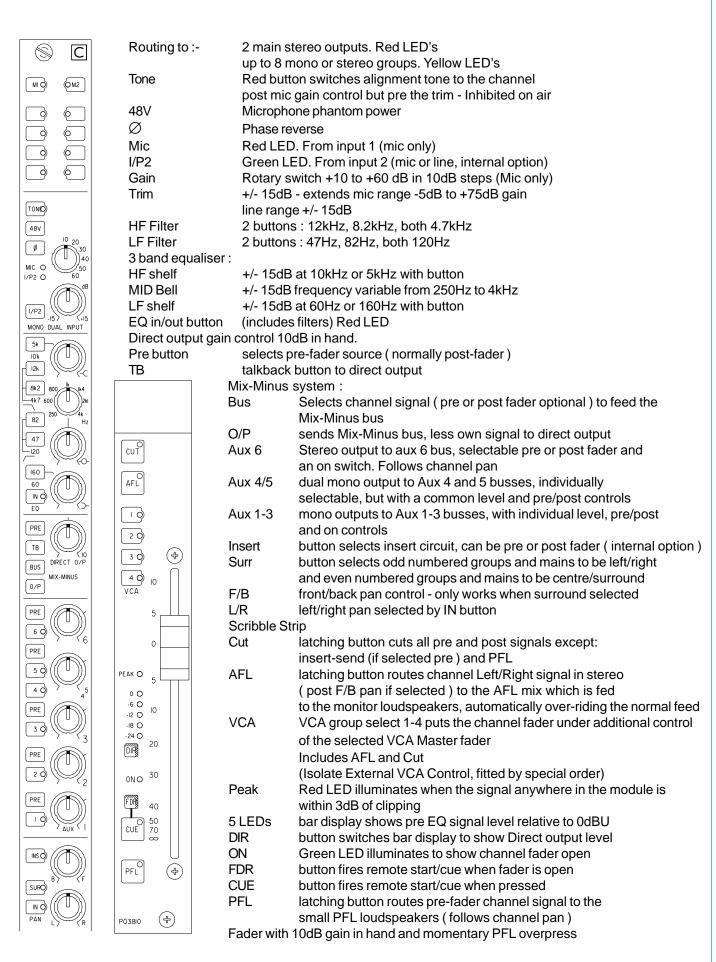
MODULES

		paye
PQ3810	Mono Channel	20 - 21
PQ3811	Stereo Channel	22 - 23
BQ3812	Stereo Line Channel	24 - 25
XL3959	Mono Group	26 - 27
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XC3813	Main Output	30 - 31
AY4007	Aux Outputs	32 - 33
ML3997	Monitor 1 - Cubicle LS	34 - 35
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ML3999	Monitor 3 - Surround	37
ML4053	Monitor 3 - No Surround	38
MY3680	Ancillary Meter Selector	39
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MU3695	Twin Mono L/R PPM Meters	41
MU4078-2	Phase Meter Bargraph	42
MU3694	Twin Mono L/R VU Meters	43

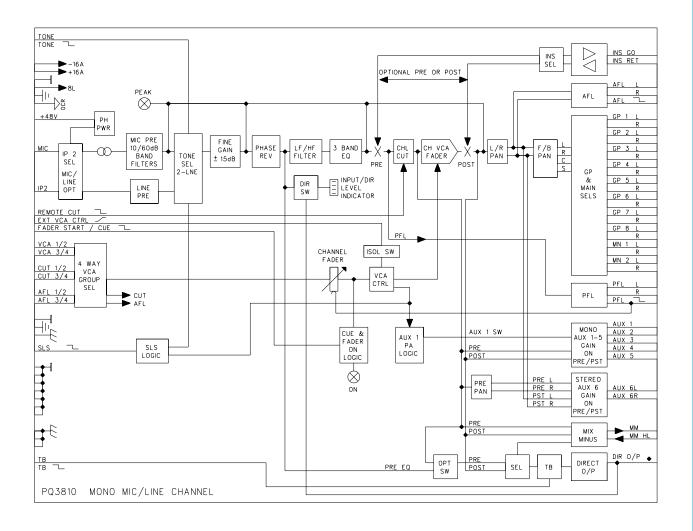
MODULES

MODULES			
MU3807-2	Small Stereo Bargraph	44	
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LS3803	PFL Loudspeaker	45	
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DF4041-2	Expander / Gate	47	
QF4042	Equaliser	48	
YW4325	Broadcast Panel	49	
ZN4173	DC Power Inputs	50	
ZN3018-4	Power Supply	51	

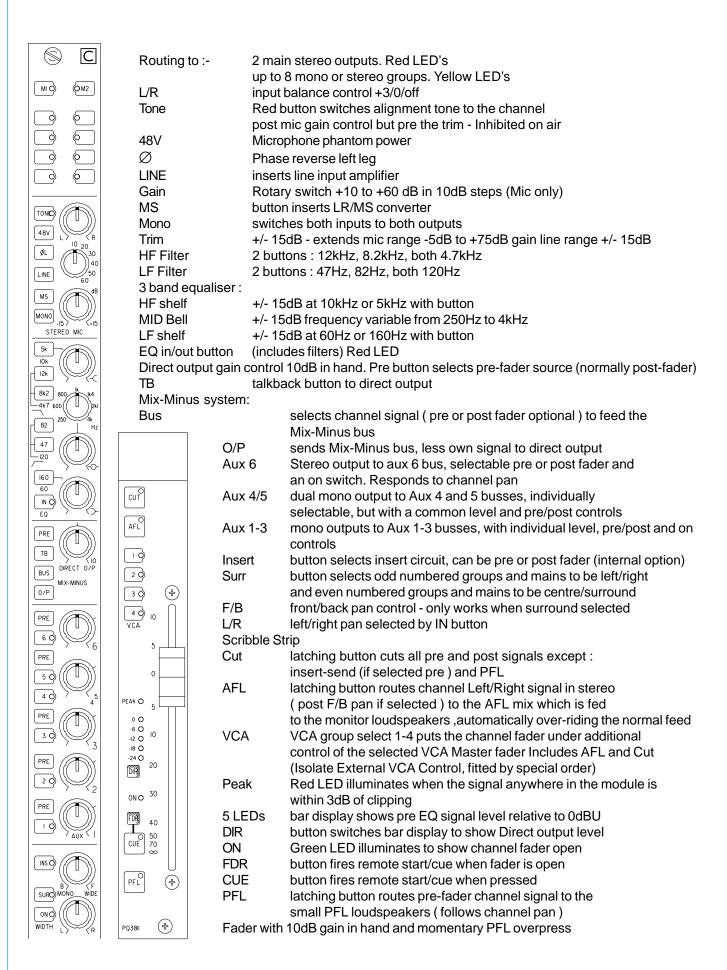
PQ3810 MONO CHANNEL



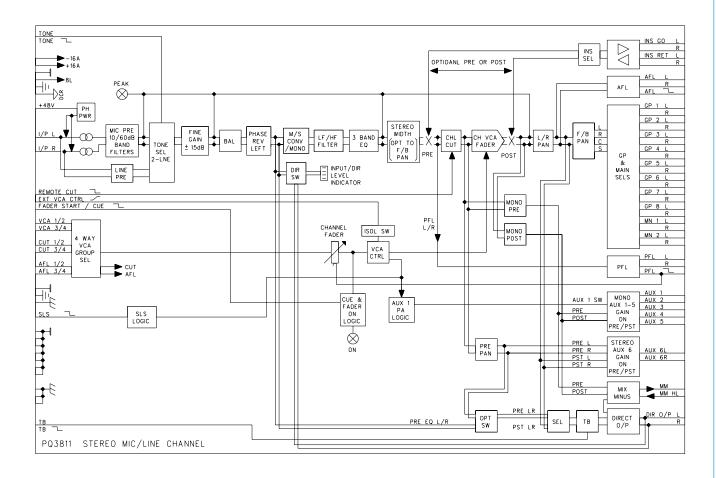
PQ3810 MONO CHANNEL



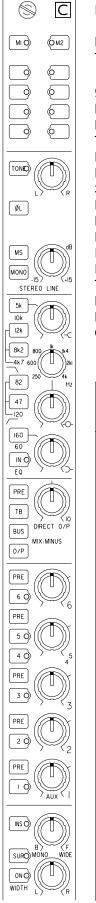
PQ3811 STEREO CHANNEL



PQ3811 STEREO CHANNEL



BQ3812 STEREO LINE CHANNEL



CUT

AFL

20

30

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PEAK O 5

0 O

-6 O -12 O

-24 O

ONO

START

PFL

0

DIR 20

40

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Routing to:- 2 main stereo outputs. Red LED's

up to 8 mono or stereo groups. Yellow LED's

L/R input balance control +3/0/off

Tone Red button switches alignment tone to the channel

pre the trim - Inhibited on air

Phase reverse left leg

MS button inserts LR/MS converter
Mono switches both inputs to both outputs

Trim +/- 15dB gain range

HF Filter 2 buttons : 12kHz, 8.2kHz, both 4.7kHz LF Filter 2 buttons : 47Hz, 82Hz, both 120Hz

3 band equaliser:

HF shelf +/- 15dB at 10kHz or 5kHz with button

MID Bell +/- 15dB frequency variable from 250Hz to 4kHz

LF shelf +/- 15dB at 60Hz or 160Hz with button

EQ in/out button (includes filters) Red LED

Direct output gain control 10dB in hand. Pre button selects pre-fader source (normally post-fader)

TB talkback button to direct output

Mix-Minus system:

Bus selects channel signal (pre or post fader optional) to feed the Mix-Minus bus

O/P sends Mix-Minus bus, less own signal to direct output

Aux 6 Stereo output to aux 6 bus, selectable pre or post fader and

an on switch. Responds to channel pan

Aux 4/5 dual mono output to Aux 4 and 5 busses, individually

selectable, but with a common level and pre/post controls

Aux 1-3 $\,\,$ mono outputs to Aux 1-3 busses, with individual level, pre/post

and on controls

Insert button selects insert circuit, can be pre or post fade (internal option)

Surr button selects odd numbered groups and mains to be left/right and even numbered groups and mains to be centre/surround

F/B front/back pan control - only works when surround selected

L/R left/right pan selected by IN button

Scribble Strip

Cut latching button cuts all pre and post signals except:

insert-send (if selected pre) and PFL

AFL latching button routes channel Left/Right signal in stereo

(post F/B pan if selected) to the AFL mix which is fed

to the monitor loudspeakers, automatically over-riding the normal feed

VCA VCA group select 1-4 puts the channel fader under

additional control of the selected VCA Master fader

Includes AFL and Cut

(Isolate External VCA Control, fitted by special order)

Peak Red LED illuminates when the signal anywhere in the module is

within 3dB of clipping

5 LEDs bar display shows pre EQ signal level relative to 0dBU
DIR button switches bar display to show Direct output level
ON Green LED illuminates to show channel fader open
button fires remote start/cue when fader is open

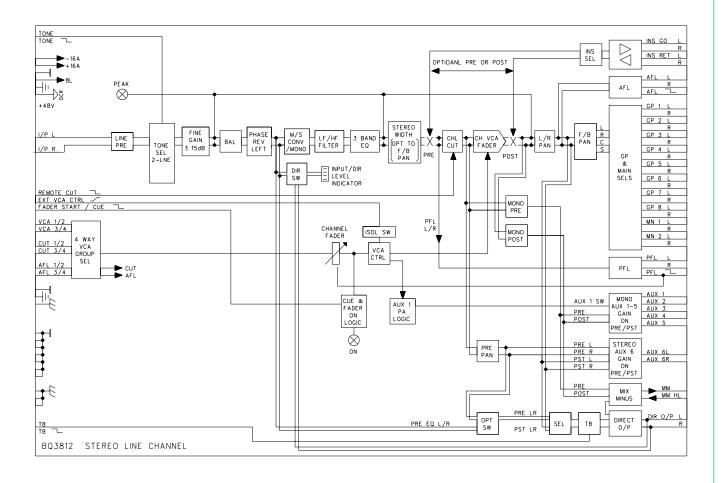
CUE button fires remote start/cue when pressed

PFL latching button routes pre-fader channel signal to the

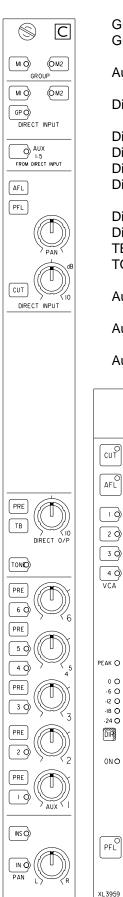
small PFL loudspeakers (follows channel pan)

Fader with 10dB gain in hand and momentary PFL overpress

BQ3812 STEREO LINE CHANNEL



XL3959 MONO GROUP



Group routing to 2 Main Stereo Outputs . Red LEDS

Group Direct input routing to 2 Main Outputs. Red LEDS

to Group Mixer Yellow LEDS

Aux 1-5 from Direct button switches Aux 1-5 to Group Direct input

Direct AFL latching button routes Direct input after fader signal exclusively to Monitor

Loudspeaker

Direct PFL latching button routes Direct input pre fader signal to small PFL Loudspeaker(s)

Direct CUT latching button cuts Direct input signal

Direct PAN Control pans mono Direct input Signal between Left & Right outputs

Direct Gain control sets Direct input signal level, +10dB in hand

Direct output gain control

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50 70 ∞

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(4)

Direct output PRE fader button, normally post fader TB Talkback button to Direct output - momentary TONE button to Direct output. Inhibited ON AIR

Aux 6 Stereo Input post pan to Aux 6 Stereo bus, selectable PRE (button) or Post fader

ON switch with Green LED

Aux 4/5 Shared Mono output to Aux 4 or Aux 5 as selected. Green LEDS Control can be

PRE (button) or Post fader

Aux 1 - 3 3 Mono outputs to Aux 1-3 buss. ON switches. Green LEDS

Controls can be PRE (button) or Post fader

Insert button. Yellow LED. Selects Insert circuit Pre or Post fader (internal switch)

Group Pan Control with IN button, Red LED

Scribble Strip

CUT latching button cuts Group output. Yellow LED

AFL latching button routes Group output signal exclusively to

Monitor Loudspeakers following Group Pan Control

VCA Group Sel buttons 1-4. Green LEDS. Puts Group fader under additional

control of nominated VCA Group fader. Includes

CUT & AFL

PEAK Red LED. Illuminates when signal anywhere in circuit approaches

within 3dB of clipping.

5 LED Bar graph 1 Red, 1 Yellow, 3 Green LEDS - shows pre fader signal

level in group, to show Direct output level

DIR button switches bar display to show Direct output level

ON Green LED when fader is open

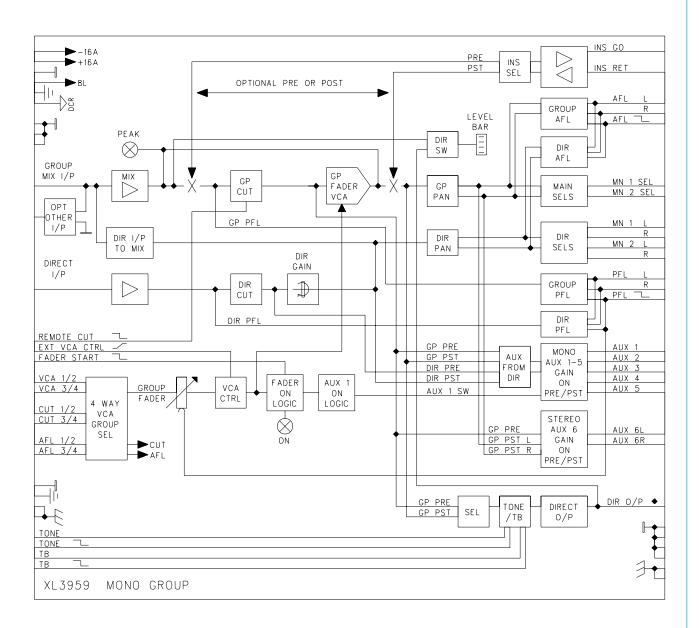
PFL latching button routes Group pre fader signal to small PFL

Loudspeaker(s)

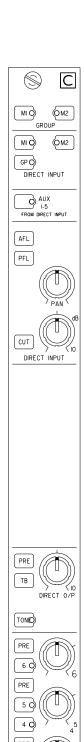
FADER with +10dB in hand and momentary PFL overpress.

MONO GROUP

XL3959 MONO GROUP



XL3960 STEREO GROUP



Group routing to 2 Main Stereo Outputs. Red LEDS

Group Direct input: Stereo routing to 2 Main Outputs. Red LEDS

to Group Mixer. Yellow LEDS

Aux 1-5 from Direct button switches Aux 1-5 to Group Direct input

Direct AFL latching button routes Direct input after fader signal exclusively to Monitor

Loudspeaker

Direct PFL latching button routes Direct input pre fader signal to small PFL Loudspeaker(s)

Direct CUT latching button cuts Direct input signal

Direct PAN Control pans Stereo Direct input Signal

Direct Gain control sets Direct input signal level, +10dB in hand

Direct output gain control

Direct output PRE fader button, normally post fader TB Talkback button to Direct output - momentary TONE button to Direct output. Inhibited ON AIR

Aux 6 Stereo output to Aux 6 bus selectable PRE (button) or Post fader

ON switch with Green LED

Aux 4/5 Shared Mono output to Aux 4 or Aux 5 as selected. Green LEDS

Control can be PRE (button) or Post fader

Aux 1 - 3 3 Mono outputs to Aux1-3 buss. ON switches. Green LEDS. Controls can be PRE

button) or Post fader

Insert button. Yellow LED. Selects Insert circuit Pre or Post fader (internal switch)

Scribble Strip

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0 O -6 O

DIF

PFL

XL3960

ono ³⁰

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-12 O 10 -18 O -24 O CUT latching button cuts Group output. Yellow LED

AFL latching button routes Group output signal exclusively to Monitor

Loudspeakers following Group Pan Control

VCA Group Sel buttons 1 - 4. Green LEDS. Puts Group fader under additional

control of nominated VCA Group fader. Includes

CUT & AFL

PEAK Red LED. Illuminates when signal anywhere in circuit approaches

within 3dB of clipping

5 LED Bar graph 1 Red, 1 Yellow, 3 Green LEDS - shows pre fader signal level

in group, to show Direct output level

DIR button switches bar display to show Direct output level

ON Green LED when fader is open

PFL latching button routes Group pre fader signal to small PFL

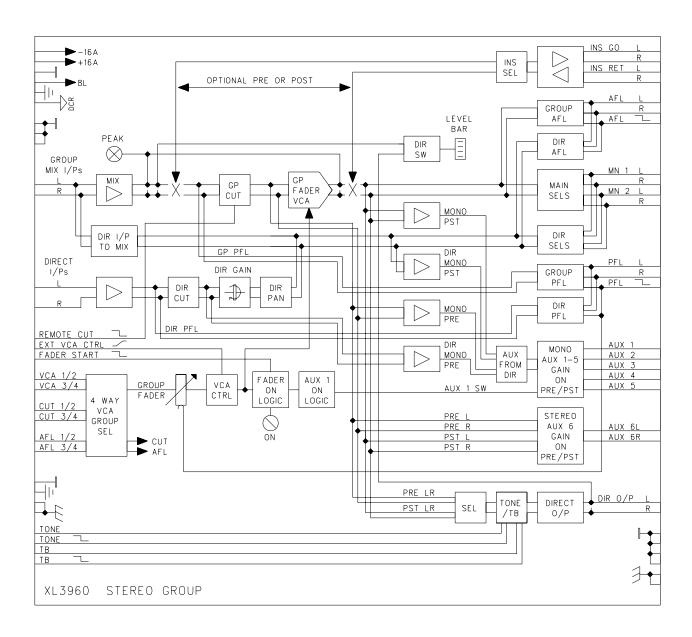
Loudspeaker(s)

FADER with +10dB in hand and momentary PFL overpress

INS O

STEREO GROUP

XL3960 STEREO GROUP



XC3813 MAIN OUTPUT



Routing to Main 1 on Main 2 only. Red LED

Direct AFL latching button routes Direct input after fader signal exclusively to Monitor

Loudspeaker

Direct PFL latching button routes Direct input pre fader signal to small PFL Loudspeaker(s)

Direct CUT latching button cuts Direct input signal

Direct PAN Control pans Stereo Direct input Signal

Direct Gain control sets Direct input signal level, +10dB in hand

Main output Compressor, may be used as a Limiter (50:1 ratio)

20dB Gain reduction. Yellow bargraph

Normally Pre fader can be set Post fader

LINK can be linked to other MAIN output

ATTACK Normal 4m Sec @ 5:1 ratio or FAST 0.2ms @ 5:1 ratio

Dynamics IN button. Red LED

RATIO 1.5 to 50:1 variable control
THRESHOLD -20 to +10dBu. Variable control
RECOVERY 75m sec to 4 sec variable control

At fully clockwise position becomes AUTO 0.1 to 1.5 secs programme dependant

GAIN Make-up variable control 0 to +20dB

TB Talkback momentary button. Inoperative ON AIR

TONE latching button. Inoperative ON AIR

Insert button. Yellow LED. Selects Insert circuit Pre or Post fader (internal switch)

Scribble Strip

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PEAK O 15

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PEAK Red LED. Illuminates when signal anywhere in circuit approaches

within 3dB of clipping

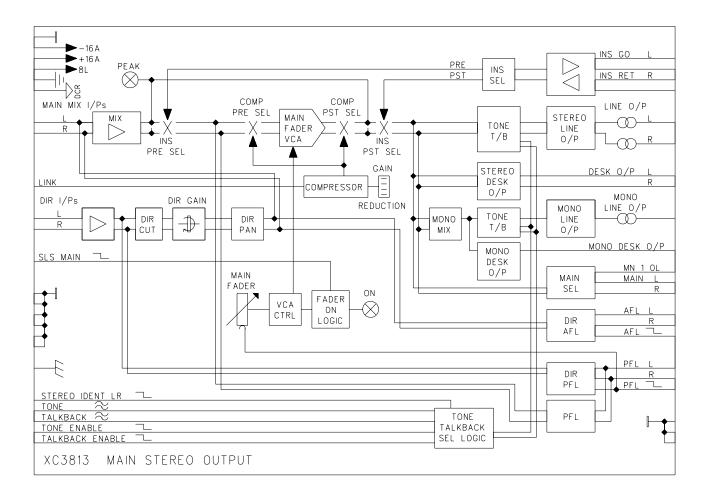
ON Green LED when fader is open

PFL latching button routes Main output pre fader signal to small PFL Loudspeaker(s)

FADER with +10dB in hand and momentary PFL overpress

PFL

XC3813 MAIN OUTPUT



AY4007 AUX OUTPUTS



| 10k 0

400

ON O

ONO

MONO STEREO

AFL After fade listen trim control to Monitor Loudspeakers
PFL Pre fade listen level control to PFL Loudspeaker(s)

OSCILLATOR FREQUENCY 5 buttons 40, 100, 1K, 10K, 15K

IDENT button pulses tone to main outputs only to EBU or BBC GLITS specification (internal

switch)

TONE button switches ON Oscillator. Red LED TONE control +10dB on nominal 0dBu output

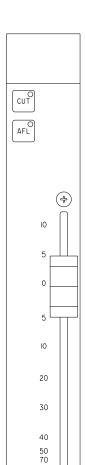
MIC Talkback microphone TB Sets talkback level

REV TB Sets reverse talkback level to PFL Loudspeaker(s)

Aux 1 - 6 Outputs level controls +10dB in hand Aux 1 - 6 Output CUT buttons. Yellow LEDS Aux 1 - 6 TB - Talkback buttons (momentary)

Aux 6 MONO button. Joins L & R signals together

EXT 1 & 2 TALKBACK buttons to external connections



Scribble Strip

VCA Group 1 fader +10dB in hand

VCA Group 1 CUT button Yellow LED

CUTS channels & groups selected to VCA Group 1

VCA Group 1 AFL button (latching) Red LED sends the output signal from all

channels & groups selected to VCA Group 1 exclusively to the Monitor Loudspeakers

TB

EXT

EXT 2

TALKBACK

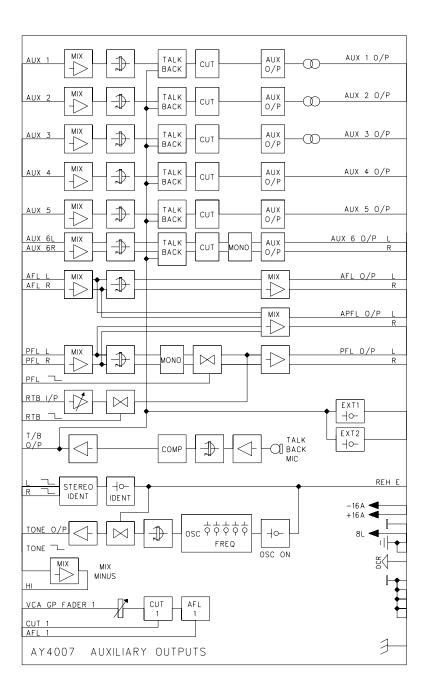
AUX MASTERS

AY4007

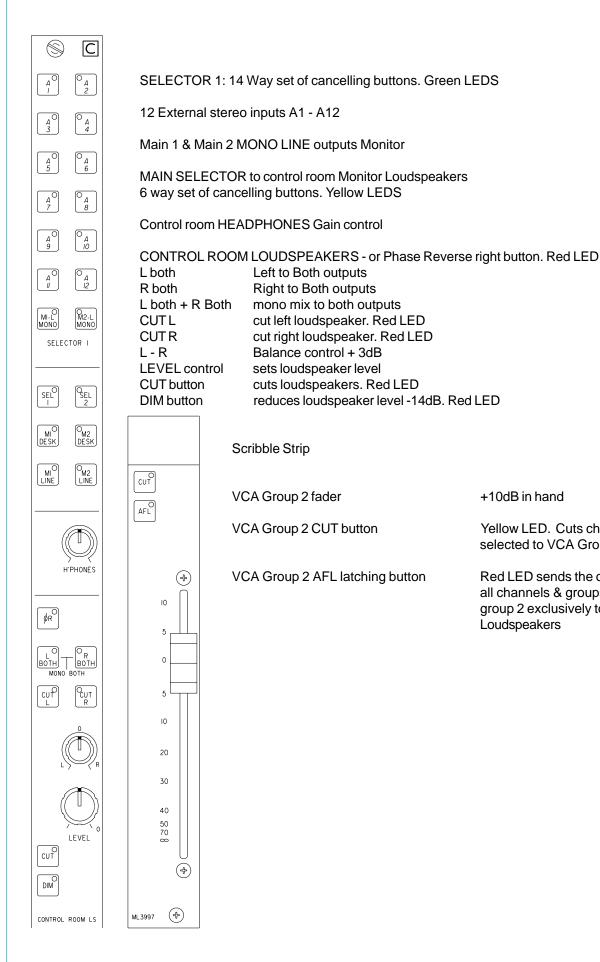
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AY4007 AUX OUTPUTS



ML3997 MONITOR 1 - CUBICLE LS



+10dB in hand

Loudspeakers

Yellow LED. Cuts channels & Groups

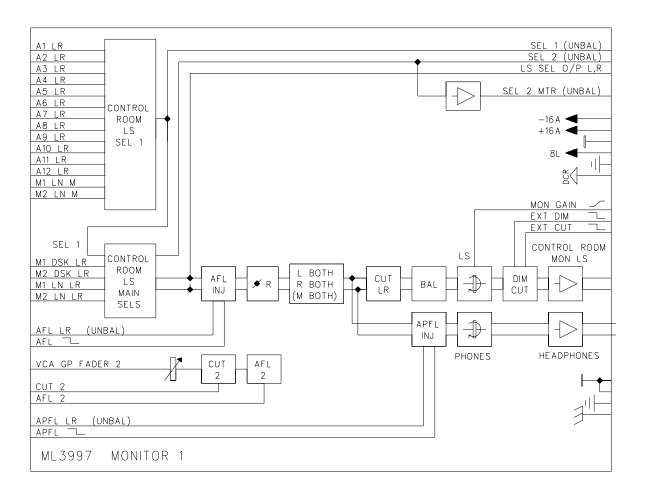
Red LED sends the output signal from

all channels & groups selected to VCA

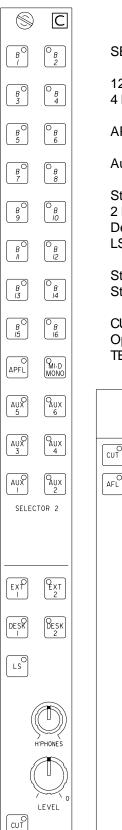
group 2 exclusively to the Monitor

selected to VCA Group 2

ML3997 MONITOR 1 - CUBICLE LS



ML3998 MONITOR 2 - STUDIO LS



SELECTOR 2 24 way set of cancelling buttons. Green LEDS

B1 - B12 12 External stereo inputs 4 External Mono inputs B13 - B16

APFL & spare selections

Auxiliary 1 - 6 Monitor

Studio Loudspeaker selections:-

2 External Stereo inputs Ext 1 & Ext 2

Desk 1 & 2 Monitor inputs

Follow control room Monitor selection

Studio Headphones gain control Studio Loudspeaker level control

CUT Cuts studio Loudspeaker.

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Operates automatically when Microphone channel is open to Main Output. Red LED

Talkback to Studio Loudspeaker and Headphones - Loudspeaker inhibited ON AIR

Scribble Strip

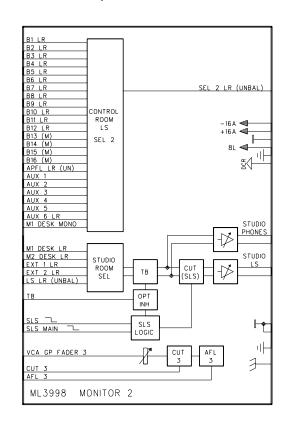
+10dB in hand VCA Group 3 fader

VCA Group 3 CUT button Yellow LED. Cuts channels & Groups

selected to VCA Group 3

VCA Group 3 AFL latching button.

Red LED. Sends the output signal from all channels & groups selected to VCA Group 3 exclusively to the Monitor Loudspeakers

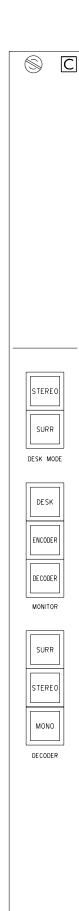


ТВ

STUDIO IS

MI 3998

ML3999 MONITOR 3 - SURROUND



SURROUND

DESK MODE: 2 way selector - Normal Stereo or Surround

MONITOR SELECTOR ON SURROUND: Normal condition DESK Monitors the desk surround output. Monitor checks can be made at the ENCODER output (in stereo) and at the Monitor DECODER output as a comparision to the DESK output

DECODER MODE SELECTOR. The decoder can be remotely controlled to check SURROUND output (normal) and STEREO & MONO compatibility

Scribble Strip

VCA Group 4 fader

+10dB in hand

VCA Group 4 CUT button

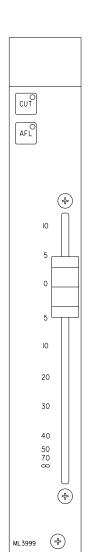
Yellow LED. Cuts channels & Groups

selected to VCA Group 4

VCA Group 4 AFL button (latching)

Red LED. Sends the output signal from all channels & groups selected to VCA Group 4 exclusively to the Monitor Loudspeakers

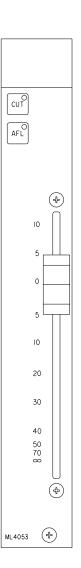
C.ROOM MON LS O/P (UNBAL) LEET RIGHT DIRECT AFL LR (UNBAL) CENTRE AFL LR (ON AFL __ M1 LINE LR M2 LINE LR DECODER L DECODER R SURROUND SEL VCAs SURROUND SURR STEREO MONO DECODER LOGIC CONTROL ENCODER VCA GP FADER 4 CUT PFL DIR I/Ps AFL DIR I/Ps MIX MINUS DIR I/P MIX MINUS MONITOR 3 ML3999



ML4053 MONITOR 3 - NO SURROUND





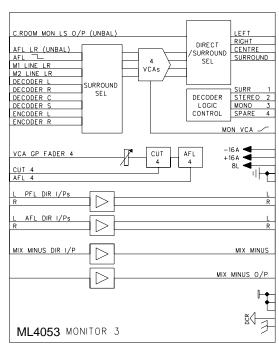


Scribble Strip

VCA Group 4 fader VCA Group 4 CUT button +10dB in hand Yellow LED. Cuts channels & Groups selected to VCA Group 4

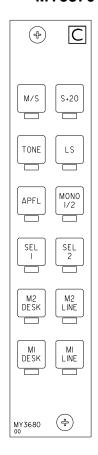
VCA Group 4 AFL latching button

Red LED. Sends the output signal from all channels & groups selected to VCA Group 4 exclusively to the Monitor Loudspeakers

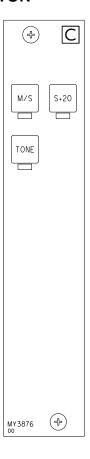


METER SELECTORS

MY3680 ANCILLARY METER SELECTOR MY3875 MAIN METER SELECTOR MY3876 MAIN LINE METER SELECTOR



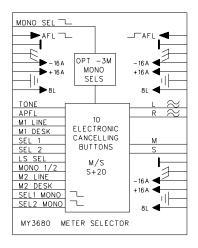


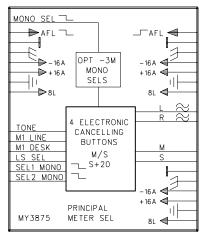


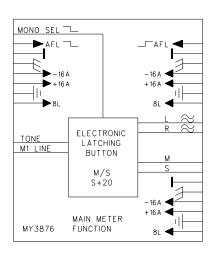
Selections from labelled sources.

Yellow LEDs - Electronic cancelling set (latching on MY3876).

M/S latching & S+20. Red LEDs.

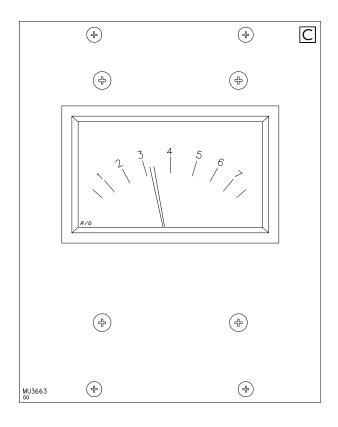


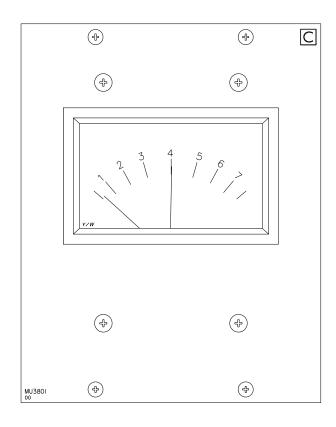




PPM METERS

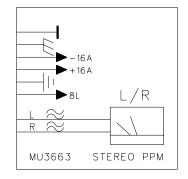
MU3663 L/R PPM METER MU3801 M/S PPM METER

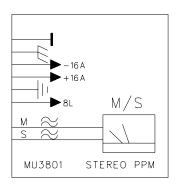




MU3663 Stereo PPM with Red/Green needles and illumination. MU3801 Stereo PPM with White/Orange needles and illumination.

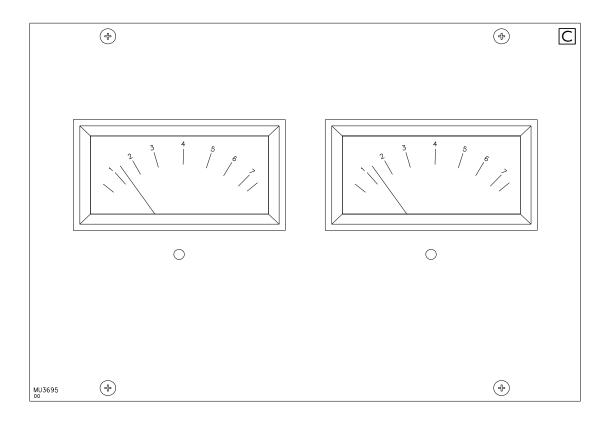
Internal PPM drivers.



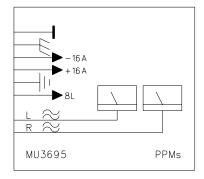


PPM METERS

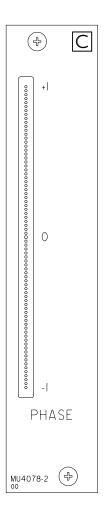
MU3695 TWIN MONO L/R PPM METERS



Mono PPMs with white needles and illumination. Internal PPM drivers.

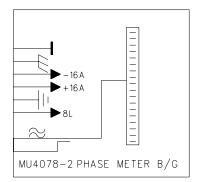


MU4078-2 PHASE METER BARGRAPH

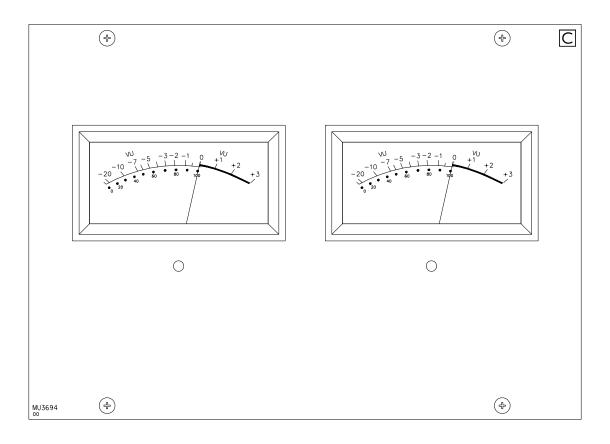


LED Bargraph.

Upper section representing good phase coherence is GREEN. Lower section representing poor phase coherence is RED. Spot moves dynamically.

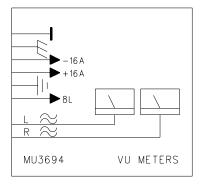


MU3694 TWIN MONO L/R VU METERS



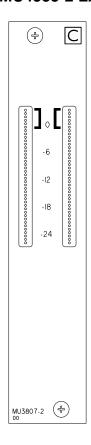
VU meters with illumination.

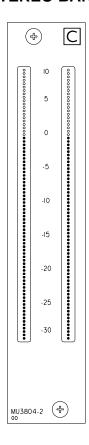
Internal buffer amplifiers.

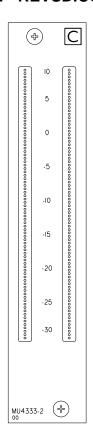


BARGRAPHS

MU3807-2 SMALL STEREO BARGRAPH MU3804-2 LARGE STEREO BARGRAPH MU4333-2 LARGE STEREO BARGRAPH - REVSD.COLS





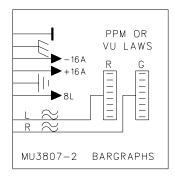


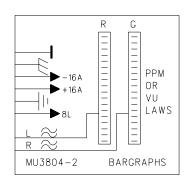
Twin LED bargraphs - 40 LED's each for good resolution.

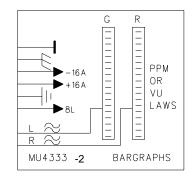
Left hand bar is RED.

Right hand bar is GREEN. (Reversed colours on MU4333)

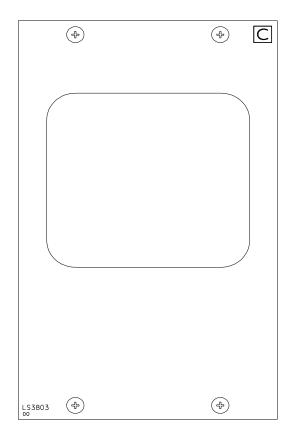
Bars brighten at 0dB representing +6 or +8 dBu for PPM or +4dBu (SCALE 0) for VU (set internally).



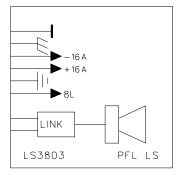




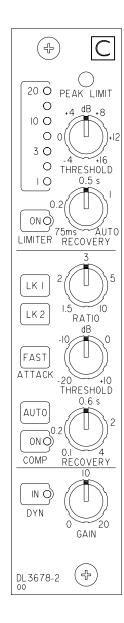
LS3803 PFL LOUDSPEAKER



Module can be set for Left, Right or Mono use. Module can receive Reverse talkback plus an extra intercom signal if required.



DL3678-2 COMPRESSOR LIMITER



Stereo Limiter

Ratio fixed 100/1

Threshold -4/+16dBu variable Attack fixed 100 u-secs

Recovery 0.075 to 4 secs variable with AUTO facility:

0.1 to 1.5 secs (programme dependent)

Peak Limit Yellow LED indicator

Limiter On button with Yellow LED indication

Stereo Compressor

Ratio 1.5/10 variable
Threshold -20/+10dB variable

Attack Normal 4 msec @ 5:1 or FAST 0.2mS @ 5:1

Recovery 0.1 to 4 secs variable with AUTO facility:
0.1 to 1.5 secs (programme dependent)

Make-up Gain 0/20dB variable

Voice-over Line level balanced input

(may be used when compressor is Off)

Compressor ON button with Yellow LED indicator

Compressor & Limiter

Bargraph Up to 24dB gain reduction with enhanced

resolution at lower reduction levels

Links Button 1 & 2 to external buss or pairs etc - links side chains

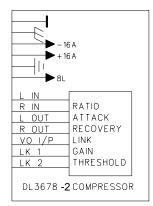
together.

DYN-IN Button with Red LED indication - when OUT gives total

bypass condition except that bargraph operates as a preview

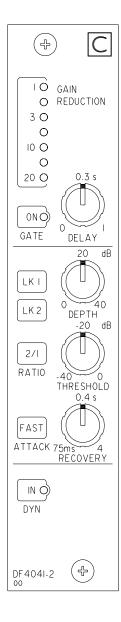
at reduced intensity

Balanced line input & outputs, 0dBu Ignore right channel for mono use



The compressor and limiter normally respond to the higher of the left and right signals. An internal option allows the mono reduction of left and right (-3dB) to take control if the stereo coherence is such that this exceeds left or right. This renders it unnecessary to "under-drive" the stereo outputs to guard against the possibility of a higher than desired mono level.

DF4041-2 EXPANDER GATE



Stereo Expander

Ratio Normal, varies with level 1.5/1 to 5/1

Fixed 2/1 (button)

Threshold 0/-40dBu variable

Attack Normal 4 ms. FAST (button) 50 u-sec

Recovery 75ms to 4 sec variable

Depth 0/40dB variable (extent of expansion below threshold)

Bargraph Up to 20dB gain reduction

Links 1 & 2 to external busses or pairs

Stereo Noise Gate

Gate Button with LED indication. All expander controls apply except Ratio

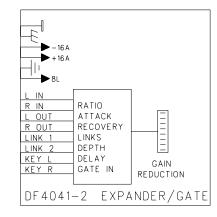
becomes infinite

Gate Delay 0/1 sec variable - in addition to normal 6dB gate hysteresis

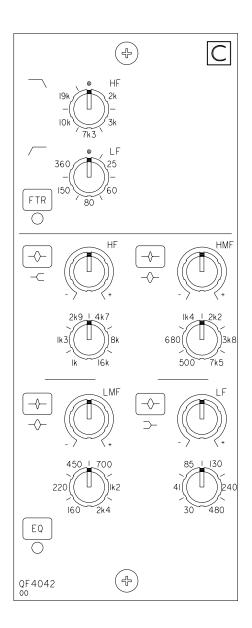
Expander & Noise Gate

DYN-IN Button with LED indication - when OFF gives total bypass condition

except that bargraph operates as a preview at reduced intensity



QF4042 EQUALISER



Stereo Filters / Equaliser

2 band parametric filters HF (low pass) 12dB/octave

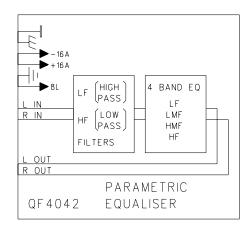
LF (high pass) 18dB/octave

4 band parametric equaliser ± 16dB max at selected frequencies

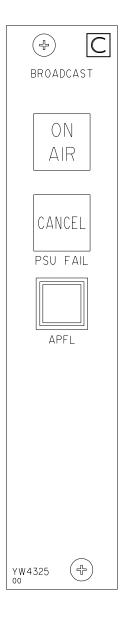
Exclusive lift/cut law allows fine control near centre and low noise in detent

LF & HF bands can be shelf or bell (Q 1.0) LMF & HMF bands can be normal Q (1.0) or high Q (3.5) bell

Separate Filters & EQ in buttons



YW4325 BROADCAST PANEL

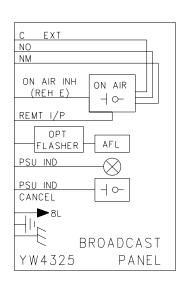


ON AIR - Large button with RED LED - Inhibits Tone and Talkback within the console and closes relay contacts to other areas

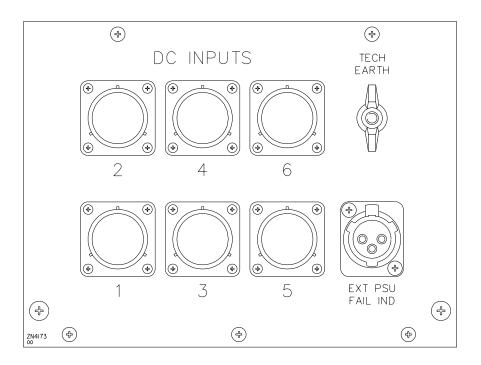
PSU FAIL/CANCEL - Red LED occults when a PSU or part of a PSU has failed. Occulting may be cancelled by button but will resume with a further failure or if the console is switched off and on again

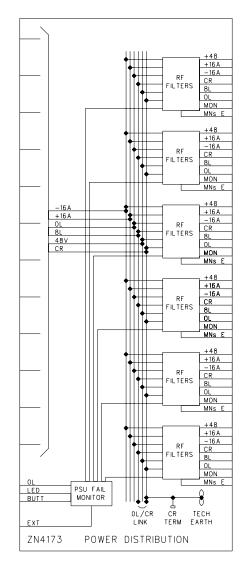
APFL - Large RED LED - illuminated when ANY AFL selection is made - to avoid an operator being misled by their monitor loudspeakers

Also operates for PFL if PFL MON is selected

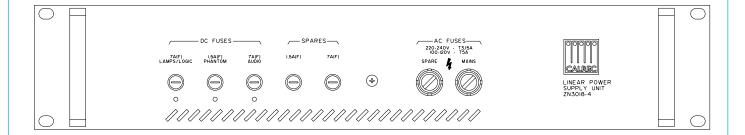


ZN4173 DC POWER INPUTS





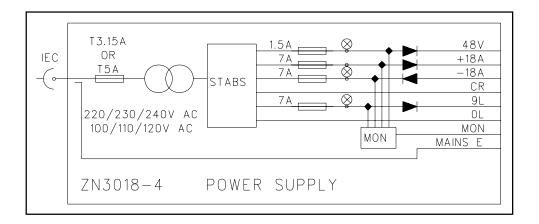
ZN3018-4 POWER SUPPLY

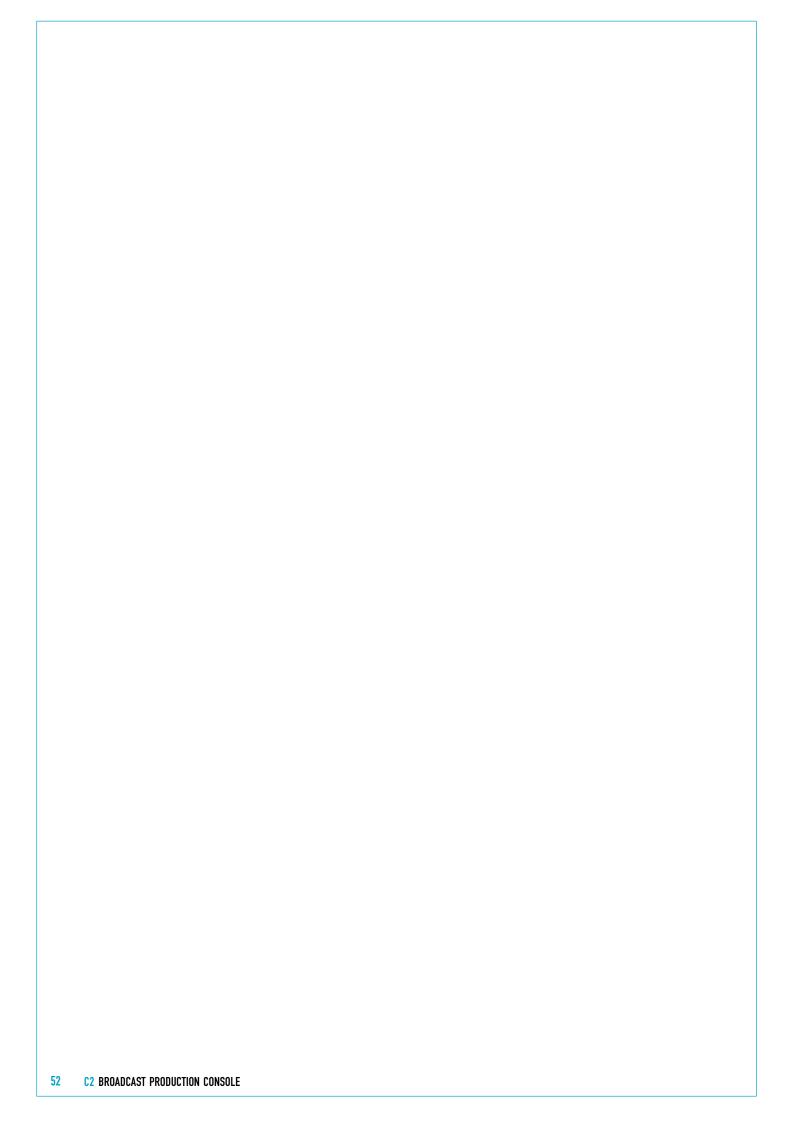


A Calrec designed special unit to provide ± 16 volts audio power, 8 volts logic power (stabilised in modules at 5 volts where required) and 48 volts phantom power suitable for approximately 16 channels each in a typical console. It is recommended that there be one "Hot" spare in the system which in addition will share the load. The 2U units include a monitor of the 4 outputs and send a fault signal to the console in the event of failure.

The units operate in parallel via internal diodes.

The units are designed to operate at mains voltages 10% below that set.





C2 CONNECTIONS



CONNECTIONS

All connections are Varicon 56-way. Audio connections are all balanced.

Recommended

<u>Interface</u>	<u>Level</u>	<u>Impedance</u>	Min Load
Microphone I/Ps			
VP56 - 1 per 6chs	-75/+5dBu	1.2 ΚΩ	-
Line I/Ps VP56 - 1 per			
6chs (plus VP38s St Lne)	-24/+18dBu	10 ΚΩ	-
Insert Go VP56 - 1 per			
12 chs	0dBu	<40 Ω	600Ω
Insert Return VP56 - 1			
per 12chs	0dBu	20 ΚΩ	-
Direct Outputs VP56			
1 per 12chs	0dBu (+10)	<40 Ω	600Ω
External Cuts/VCA ctrl/			
Fader on - VP56 1 per			
12chs (8 Grps)	5V/0V operate		-
Group Directs I/Ps VP56	0dBu	20 ΚΩ	-
Auxiliary Outputs VP56	0dBu	<40 Ω	600Ω
Main Outputs/Mn Dir I/Ps/W			
Monitor VP 56	0dBu	20/20 KΩ	600Ω
Monitor LS I/Ps VP56	0dBu	20 ΚΩ	-
Optional additional Monitor			
I/Ps VP56	0dBu	20 ΚΩ	-
Main D.C Interface (Cuts/			
dims/tone/tb etc) VP56	5V/0V operate	-	-
Optional Compressor/			
Limiter conns VP56	0dBu	20/20 ΚΩ	600Ω

^{*} Note - Recommended minimum loads of 600R can be 300R with reduced output levels.

C2 SPECIFICATION



SPECIFICATION

Measurements are with 22-22KHz filters unless otherwise stated. All specifications are in the frequency range 40-15KHz unless otherwise stated. Measurements specified are with equaliser and dynamics out of circuit. 0dBu = 0.775 volts RMS dBq = CCIR QUASI-PEAK

Inputs

Microphones Transformer balanced 1k Ω

> Sensitivity -10/-60dBu in 10dB steps

> > +/- 15dB Variable trim

Input Headroom 32dB Above setting

Maximum input +12dBu

Line Electronic balanced $20k\Omega$

> +/-15dB Variable trim Sensitivity

> > Maximum input +32dBu

Monitor/Direct Electronic balanced $20k\Omega$

> 0dBu Sensitivity

Outputs

0dBu into 600 Ω Main Line Transformer balanced

> +25dBu into 600 Ω Maximum output

> > +28dBu into 10k Ω

 25Ω nominal Source impedance Aux 1 - 3 Transformer balanced 0dBu into 600Ω

+22dBu into 600Ω

Maximum output 30Ω nominal

Source impedance 0dBu into 600Ω Electronic balanced

Groups/Dir/Ins go/ +25dBu into 600Ω Maximum output

Mon LS/Talkback +28dBu into $10k\Omega$

Source impedance 40Ω nominal

> -40dB at 1KHz Output balance

Output common mode: Transformer -70dB

:Electronic -50dB

Performance

Main Desk/Aux 4-6

Noise Microphone (EIN) -125dB

 200Ω , RMS

Line/Group/Main < -83 dBu Distortion

at +16dBu <0.03%

40Hz-10kHz

Any circuit +/-0.5dB, 20Hz-20kHz

Input/Output

Crosstalk

Freq. Response

Balance Microphone <-75dB at 1kHz,

<-65dB at 10kHz

Line level circuits <40dB

> Fader cut-off <-90dB at 1kHz

<-85dB at 15kHz

<-85dB at 1kHz Adjacent channel

<-70dB at 10kHz

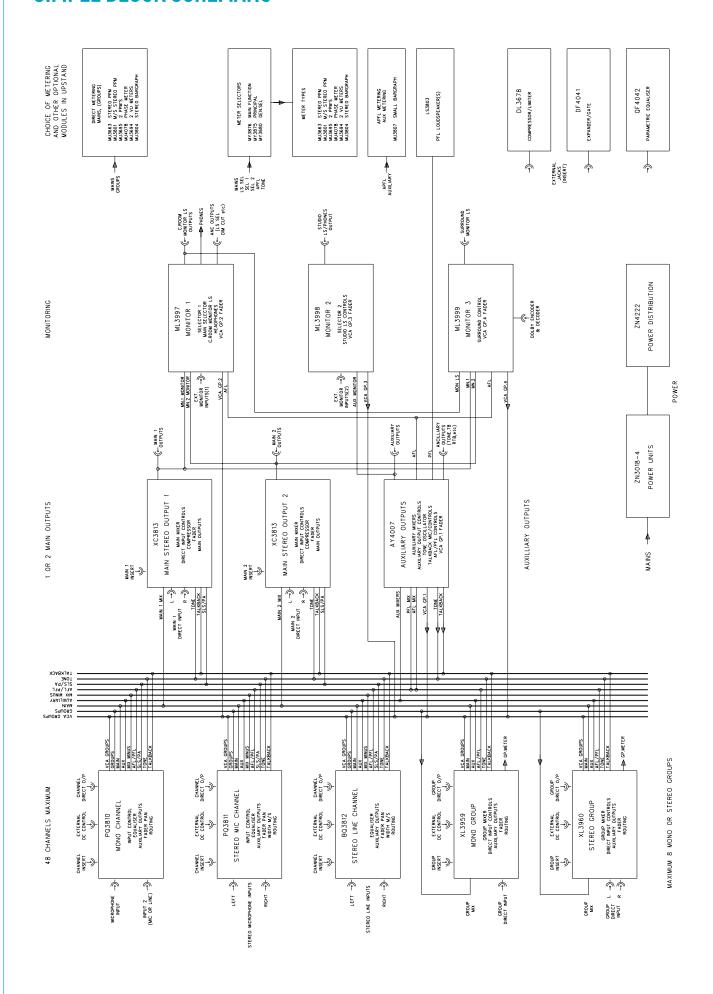
Stereo path <-60dB at 10kHz

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C2 GENERAL INFORMATION



SIMPLE BLOCK SCHEMATIC



<u>Notes</u>	
CALREC PUTTING SOUND IN THE PICTURE	59

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