

Guarantee

The e'li(#ent is warranted for a (eriod of) years \$ro# t&e date of invoice (e**wor+s) The warranty does not cover \$a!lts (rovo+ed by carelessness, nat!ral ca!ses and (arts s!b,ect to wear In addition, t&e cost of s&i(#ent is not covered The warranty will be voided i\$ t&e e'li(#ent is #is&andled

Technical Support

I\$ yo! re'!ire tec&nical s!((ort, contact A- . /-0.11- giving a clear and concise acco!nt of\$ yo!r s(eciic (roble# 2!ote t&e serial n! #ber of\$ yo!r e'li(#ent by re\$erring to t&e A- . na#e(late attac&ed to t&e e'li(#ent itself as t&is is t&e #ost i# (ortant (iece of\$ in\$or #ation to be (rovided

Tele(&one3 435 056 7730504 8a*3 435 056 953705

Factory Service and Repairs

I\$ (roble#s arise w&ile t&e e'li(#ent is being installed, cons!lt t&is #an!al and c&ec+ t&at t&e installation is being carried o!t (ro(erly I\$ t&e (roble#s still cannot be solved, call t&e A- .

@ Abuse or misuse of the equipment is extremely dangerous for people, pets and property
The manufacturer declines all responsibility for damage and injury resulting from improper
use and mishandling

@ Certain basic safety rules must be observed when using electrical equipment, in particular "

Never touch the equipment with wet and/or damp hands or other parts of the body

" Keep the equipment away from droplets of water or sprinkling systems

" Never use the equipment near flammable gases or explosive material

" Do not introduce any extraneous matter into the equipment

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Master outputs

*G) 3 Analog balanced stereo with J=0 connectors
 +T, 3 Analog balanced stereo with J=0 connectors
 A+ - (Analog balanced stereo with 0K45 connector
 *G) . ig(digital A- /C-BD stereo with 0K45 connector
 +T, . ig(digital A- /C-BD stereo with 0K45 connector

Auxiliary outputs

/ontrol Room(Analog balanced stereo with 0K45 connector
 /ontrol Studio(Analog balanced stereo with 0K45 connector
) ute /" Studio(Analog balanced stereo with 0K45 connector
 0 eadphone (Analog stereo with Kac+ 7,3 # # connector

Auxiliary input

E#ternal (Analog balanced stereo with 0K45 connector

External controls

" 0e#ote 8ader with logic controls, (/TA0TC/TOI) with 0K45 connector

Micro ' , ine channel 1 channels 2 3 4 5

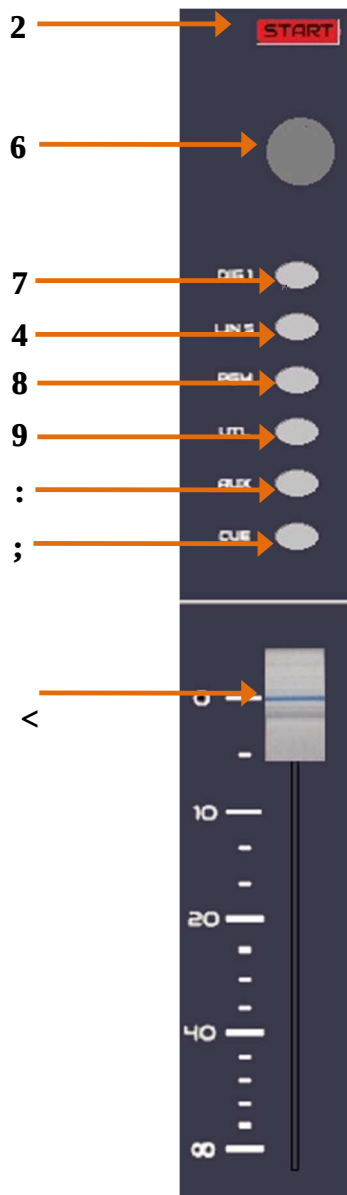
All controls on the Micro"=ine in(!t c&annel are described below

2 – /TA0T la# (, it lig&ts w&en the c&annel \$ader is active

6 – +nob ,og L directly it select the <ain in(!t level the

.ig ' ,ine)odule 1 channels 8 3 9 5

All controls on t&e :ig"=ine in(!t c&annel are described below



- 2 – /TAOT la # (, it lig&ts w&en t&e c&annel \$ader is active
- 6 – +nob ,og L directly it select t&e <ain in(!t level t&e range is "6) F 46) dBL
- in se' !ence, t&e \$ollowing co # #ands3
- 6t& (!s&"b!tto # Balance ad,!st ("6) F 46) dB)
-)t& (!s&"b!tto # Treble band ad,!st ("64 F 464 dB)
- 3t& (!s&"b!tto # ?iddle band ad,!st ("64 F 464 dB)
- 4t& (!s&"b!tto # Bass band ad,!st ("64 F 464 dB)
- 5t& (!s&"b!tto # Irvate Tel active (O88COB)
- 7t& (!s&"b!tto # TB /t!dio to 1 0oo# active (O88COB)
- Et& (!s&"b!tto # I<? b!s selection (/ (eec&C ?!sic)
- 9t& (!s&"b!tto # 1ontrol 0oo# ?!te active (O88COB)
- 5t& (!s&"b!tto # ?!te 1 /t!dio active (O88COB)
- 60t& (!s&"b!tto # Tally active (O88COB)
- 66t& (!s&"b!tto # TB 0egia to 1 /t!dio active (O88COB)
- 7 – :I< to activate t&e digital A- /C-BD so!rce (only wit& t&e c&annel in /TOI)
- 4 – =IB- to activate t&e line so!rce (only wit& t&e c&annel in /TOI)
- 8 – I<? B!tton \$or ro!ting t&e c&annel to t&e I<? b!s
- 9 – DT= B!tton \$or ro!ting t&e c&annel to t&e DT= b!s
- : – ADJ B!tton \$or ro!ting t&e c&annel to t&e ADJ b!s
- ; " B!tton enabling t&e (review 1D-
- < " 8ader

+SB ' ,ine)odule 1 channels : 3 ; 5

All controls on the **D/B** line in the channel are described below

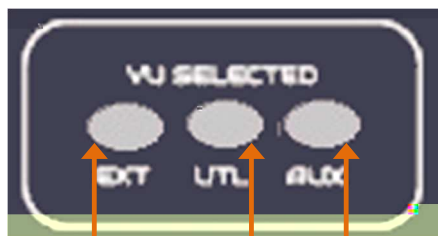
2 – /TA0T la# (, it lights when the channel is active

6 – +nob ,og L directly it select the gain in the level the range is "**6) F 46)** dBL

in sequence, the following code # and 3

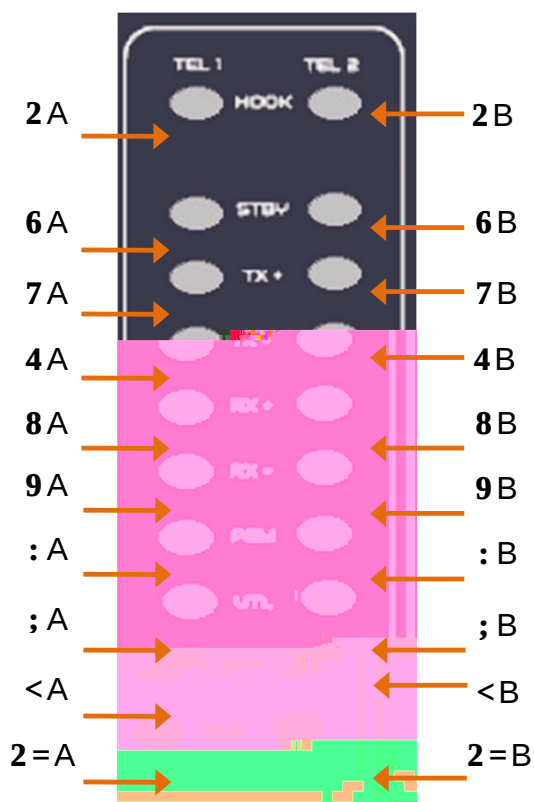
6t& (!T2n-5.9403.84.22064(I)-15.3344(I)-15.3344(o

Monitoring section



2

Telephone hybrids section



6 7

2 " B!tton \$or selecting t&e -JT in(!t on /wite&ed digital .D"?eters

6 " B!tton \$or selecting t&e ?aster DT= o!t(!t on /wite&ed digital .D"?eters

7 " B!tton \$or selecting t&e ?aster ADJ o!t(!t on /wite&ed digital .D"?eters

2A " HOOA b!tton \$or tele(&one line 6 &oo+"! (2B " HOOA b!tton \$or tele(&one line) &oo+"! (

6A " B!tton \$or /tanby state \$or tele(&one line 6 6B " B!tton \$or /tanby state \$or tele(&one line)

7A " B!tton \$or TJ4 ad,!st \$or tele(&one line 6 7B " B!tton \$or TJ4 ad,!st \$or tele(&one line)

4A " B!tton \$or TJ" ad,!st \$or tele(&one line 6 4B " B!tton \$or TJ" ad,!st \$or tele(&one line)

8A " B!tton \$or OJ4 ad,!st \$or tele(&one line 6 8B " B!tton \$or OJ4 ad,!st \$or tele(&one line)

9A " B!tton \$or OJ" ad,!st \$or tele(&one line 6 9B " B!tton \$or OJ" ad,!st \$or tele(&one line)

:A " B!tton \$or assigning t&e tel6 to t&e I<? b!s :B " B!tton \$or assigning t&e tel) to t&e I<? b!s

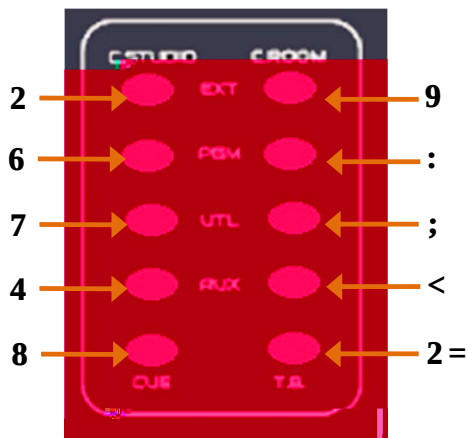
;A " B!tton \$or assigning t&e tel6 to t&e DT= b!s ;B " B!tton \$or assigning t&e tel) to t&e DT= b!s

<A " B!tton \$or assigning t&e tel) to t&e ADJ b!s <B " B!tton \$or assigning t&e tel) to t&e ADJ b!s

2=A "B!tton \$or assigning t&e tel) to t&e 1D- b!s

2=B "B!tton \$or assigning t&e tel) to t&e 1D- b!s

Room > Studio section



/ontrol Studio selection

2 – B!tton \$or selecting t&e -JT in(!t \$or ro!ting it to t&e 1ontrol /t!dio o!t(!t
 6 " B!tton \$or selecting t&e #aster I<? o!t(!t \$or ro!ting it to t&e 1ontrol /t!dio o!t(!t
 7 " B!tton \$or selecting t&e #aster DT= o!t(!t \$or ro!ting it to t&e 1ontrol /t!dio o!t(!t
 4 " B!tton \$or selecting t&e #aster ADJ o!t(!t \$or ro!ting it to t&e 1ontrol /t!dio o!t(!t
 8 " B!tton \$or selecting t&e 1D- b!s \$or ro!ting it to t&e 1ontrol /t!dio o!t(!t

/ontrol Room selection

9 – B!tton \$or selecting t&e -JT in(!t \$or ro!ting it to t&e 1ontrol 0oo# o!t(!ts
 : " B!tton \$or selecting t&e #aster I<? o!t(!t \$or ro!ting it to t&e 1ontrol 0oo# o!t(!ts
 ; " B!tton \$or selecting t&e #aster DT= o!t(!t \$or ro!ting it to t&e 1ontrol 0oo# o!t(!ts

) aster setup

?aster +nob ,og L directly it select t&e <ain &ead(&one level, t&e range is "M F 49 dBL in se'!ence, t&e \$ollowing co# #ands3

6t& (!s&"b!tto# 1ontrol 0oo# level ("M F 49 dB)
)t& (!s&"b!tto# 1ontrol /t!dio level ("M F 49 dB)
 3t& (!s&"b!tto# I<? o!t(!t level ("6) F 46) dB)
 4t& (!s&"b!tto# -*ternal in(!t level ("6) F 46) dB)
 5t& (!s&"b!tto# 1D- interloc+ (O88COB)
 7t& (!s&"b!tto# I<? :igital sa# (le rate (3), 44 6, 49, 57 AHG)
 Et& (!s&"b!tto# DT= :igital sa# (le rate (3), 44 6, 49, 57 AHG)
 9t& c&annel selection to associate t&e co# #and I C O /tartC/to(A (<IIO 6)
 5t& c&annel selection to associate t&e co# #and I C O /tartC/to(B (<IIO))
 60t& c&annel selection to associate t&e co# #and O!t /tartC/to(1

< " B!tton \$or selecting t&e #aster ADJ o!t(!t \$or ro!ting it to t&e 1ontrol 0oo# o!t(!ts

Tal& Bac&

2= " B!tton to active t&e Tal+bac+ \$!nction to t&e 1ontrol /t!dio o!t(!ts

Tal& ac& Regia to Studio3

W&en t&e TB (tal+ bac+) b!tton is (ressed, t&e signal o\$ t&e enabled #icro(&one is sent to t&e 1ontrol /t!dio o!t(!t

- 1&annel wit& \$!nction tal+bac+ to st!dio (TB/T3 OB)
- 1&annel in /TOI

W&at &a((ens3

- t&e Tal+ bac+ b!tton o\$ t&e re#ote \$ader lig&ts !(!
- t&e (revio!s selection o\$ t&e 1ontrol /t!dio \$las&es
- t&e a!dio signal (resent in t&e 1ontrol st!dio is re(laced by t&e c&annel selected in TB

Tal& ac& Studio to Regia 3

(need t&e 0e#ote 8ader)

- 1&annel connected to t&e 0e#ote 8ader !nit wit& tal+bac+ \$!nction activated (/T103 OB)
- 1&annel in /TOI

W&at &a((ens w&en t&e re#ote TB (tal+ bac+) b!tton is (ressed3

- t&e Tal+ bac+ b!tton o\$ A1DO \$las&es
- t&e (revio!s selection o\$ t&e 1ontrol 0oo# \$las&es
- t&e a!dio signal (resent in t&e 1ontrol 0oo# is re(laced by t&e c&annel connected to t&e 0e#ote 8ader !nit
- t&e signal o\$ t&e enabled #icro(&one is sent to t&e 1ontrol 0oo# o!t(!ts

Telephone connection

68 " 1connector OK45 \$or tele(&one line 6
69 " 1connector OK45 \$or tele(&one service 6
6:– 1connector OK45 \$or tele(&one line)
6;– 1connector OK45 \$or tele(&one service)

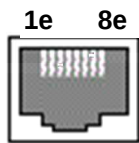
%outputs -,R connection

6< " DT= le\$t c&annel J=0 connector
7= " DT= rig&t c&annel J=0 connector
72 " I<? le\$t c&annel J=0 connector
76 " I<? rig&t c&annel J=0 connector

0ead?+SB?,ogic > *@S connections

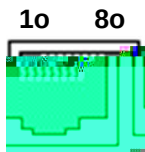
77

,ine in ?A+ - ?/"Room?/"Studio?E#t
RA48 pin out



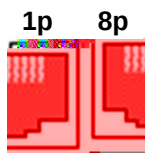
2e – left channel 4
6e – left channel "
7e – right channel 4
4e – <B:
8e – B 1
9e – right channel –
:e – B 1
;e – B 1

.igital %outputs RA48 pin out



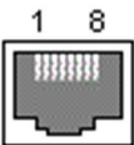
2o – DT= dig 4
6o – DT= dig "
7o – I<? dig 4
4o – <B:
8o – B 1
9o – I<? dig 4
:o – B 1
;o – B 1

Remote fader RA48 pin out



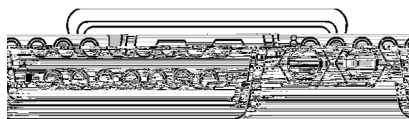
2p – 45v
6p – IB
7p – /tartC/to(=
4p – /tartC/to(/
8p – Tal+ Bac+ =
9p – Tal+ Bac+ /
:p – <B:
;p – <B:

Tel line? tel set RA48 pin out



2t – B 1
6t – B 1
7t – B 1
4t – tel set
8t – tel line
9t – B 1
:t – B 1
;t – B 1

,ogic I?% pin out



23< – <IO6 /tartC/to(AL /tartOclose,
/to(Oo(en
632= –<IO) /tartC/to(BL /tartOclose,
/to(Oo(en
7322 – <IO TallyL (/tart)4(Tally OB)
4326 – <IO3 L (/tart) wit& selected channel
8'27 – <II6 /tartC/to(IB A L Toggle
9'24 – <II) /tartC/to(IB B L Toggle
: 45.
; <B:
28 <B:

, logic G*! ? % port



- G*% 2 %ut 1 Start ? Stop A5 t&ro!g& t&e encoder #aster to t&e voice <IIO6 (/tart C /to(A) select t&e c&annel assign#ent, so w&en t&e c&annel will in /tart, t&e contact between 6 and 5 will close, wit& t&e c&annel in /to(t&e contact is o(en
- G*% 6 %ut 1 Start ? Stop B 5 t&ro!g& t&e ?aster encoder select <IIO) (/tart C /to(B) and select t&e c&annel assign#ent, so w&en t&e c&annel will (!t in /tart, t&e contact between) and 60 will close , wit& t&e c&annel (!t in /to(t&e contact is o(en
- G*% Tally 3 -ndcoder in eac& c&annel, t&ro!g& t&e -ncoder, to t&e ite# TA==P set OB , so closes t&e contact between (ins 3 and 66 will close w&en t&e c&annel is (!t in /tart
- G*% 7 3 -ndcoder by t&e ?aster, !nder <IO3 select t&e c&annel assign#ent , so, t&e contact between (ins 4 and 6) will close w&en t&e c&annel will (!t in /tart in, t&e contact will o(en w&en yo! (!t in /to(t&e c&annel
- G*I 2 1 In Start?Stop A5 3 t&ro!g& t&e ?aster encoder select G*I%2 1Start?Stop A5 and select t&e c&annel assign#ent, in w&ic& way , \$ro# t&e o!tside, t&ro!g& a circ!it to activate t&e (&oto " co!(ler (laced between t&e (ins 5 and 63, states /tart and /to(will alternate in t&e c&annel , t&e stat!s o\$ w&ic& will be re#ote !sing t&e control %ut Start?Stop A
- G*I 6 1 In Start?Stop B 5 t&ro!g& t&e ?aster encoder select G*I%6 1Start?Stop B5 and select t&e c&annel assign#ent, in w&ic& way , \$ro# t&e o!tside, t&ro!g& a circ!it to activate t&e (&oto " co!(ler (lace between (ins 5363 states will alternate start and sto(o\$ t&e c&annel , t&e stat!s o\$ w&ic& will be !sing t&e re#ote control %ut Start?Stop A

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Web site www.aev.e! e"#ail [in\\$o%aev.e!](mailto:in$o%aev.e!)

Telephone hybrids 3 operations

- Inco#ing l&one 1all3 0%%B b!tton \$las&es
- Attac& inco#ing call, (ress t&e 0%%B +ey (it re#ains lit)
- Tele(&one call on &old3
 - o b!tto# 0%%B in OB
 - o /+E (OB) o\$ t&e bar (&one selected
 - o *RIV TE, (OB) o\$ t&e #icro(&one c&annel
 - o 0egia ?icro(&one in ST%*
- ?eeting \$!nction3
 - o (STBC %FF) enabled on t&e sa#e b!s &ybrids TE,2, TE,6 and (ossibly a c&annel wit& #icro(&one
 - o to listen to a!dio on yo!r (&one to activate t&e corres(onding b!s 1 0oo# (0egia) and C or 1 /t!dio (st!dio)
 - o *RIV TE, (OB) o\$ t&e #icro(&one c&annel

• TE/0\$1/A, S*E/IFI/ATI%\$\$S

Microphone Inputs
In(!t con\$ig!ration
In(!t l!# (edance
/ensitivity =evel 0ange
In(!t =evel 0ange
?a*i#!# In(!t =evel
l&anto# /!((ly
600 ## 8ader
1connector

-lectronically balanced
)00 Q
Ad,!stable \$ro# -E0 F"40 dB! (Tri# #er ad,)
R6) dB! (:igital ad, ste(0,5 dB)
"30 dB!
49 .dc selectable
.1A :igital controlled
J=0 8e# ale

,ine Inputs
In(!t con\$ig!ration
In(!t l!# (edance
In(!t =evel 0ange
Headroo#
600 ## 8ader control
1connector

-lectronically balanced
60 A Q (700 Q wired)
R6) dB! (:igital ad, ste(6,0 dB)
4 69 dB!
.1A :igital controlled
0K"45

.igital inputs
In(!t con\$ig!ration
/a# (le 0ate
600 ## 8ader control
1connector

A- /C-BD, l-1559, /Cl : l8 N - lAK 1l340C6)06
A!to#atic 3), 44 6, 49, 57 AHG converter
.1A :igital controlled
0K"45

Telephone 0y rid
In(!t con\$ig!ration
In(!t l!# (edance
=ine 1o# (ensation
T* =evel
0* =evel 0ange
8re'!ency res(onse
:istortion
Boise

O(to"co! (led
700 Q Bal
A!to#atically (#a* 5 A#)
R6) dB! (:igital ad, ste(0,5 dB)
R6) dB! (:igital ad, ste(0,5 dB)
300 HG F 3400 HG (") dB) L 300 HG F 3400 HG ("6 5 dB)
S 6 5 T
"70 dB

Analog %utputs
O!t(!t con\$ig!ration
O!t(!t l!# (edance
l<? O!t(!t =evel 0ange
1connector
DT=CADJ O!t(!t =evel 0ange
1connector
1 0oo# ?!t O!t(!t =ev
1connector

-lectronically balanced
600 Q
"6) F 46) dB!
J=0 # ale
0 dB! \$i*ed
0K"45
" 6)F 46) dB!
0K"45

.igital %utputs
O!t(!t con\$ig!ration
/a# (le 0ate
1connector

A- /C-BD, l-1559, /Cl : l8 N - lAK 1l340C6)06
A!to#atic 3), 44 6, 49, 57 AHG converter
0K"45

0eadphones
con\$ig!ration Ty(e
O!t(!t l!# (edance
1connector

/tereo !nbalanced (1 0oo# no ?!ted)
50 Q
KA1A 7,3 ##

,ogic l?%
1on\$ig!ration
?a* .oltage
?a* 1!rrent
1connector
D/B lort

O(tic solid state relay
50 .dcCac
600 #A
: /DB 65 (ole \$e# ale
) * D/B) 0 inter\$ace

:i#ensions

470 * 370 * 44 ## (= * : * H)