



25

DATEQ

BCS BROADCAST

CONSOLE

Dateq BCS 25

Due to the ever widening broadcast working area equipment needs to be constantly modified. Dateq's new BCS 25 mixing console is a flexible answer to this new problem.



Dateq has been designing broadcast equipment for years and are known for their easy and practical to use products. Each Dateq design is based on individual wishes and demands of professional end users regarding reliability, flexibility and durability.

This resulted in a compact, modular and highly versatile mixing console: the BCS 25! It feels right at home in a radio studio, an OB van and on location, but also in an audio and video post-production studio or the main control room of a TV station. This very comprehensive mixing console lets you efficiently produce programs or post-production jobs in the shortest amount of time.

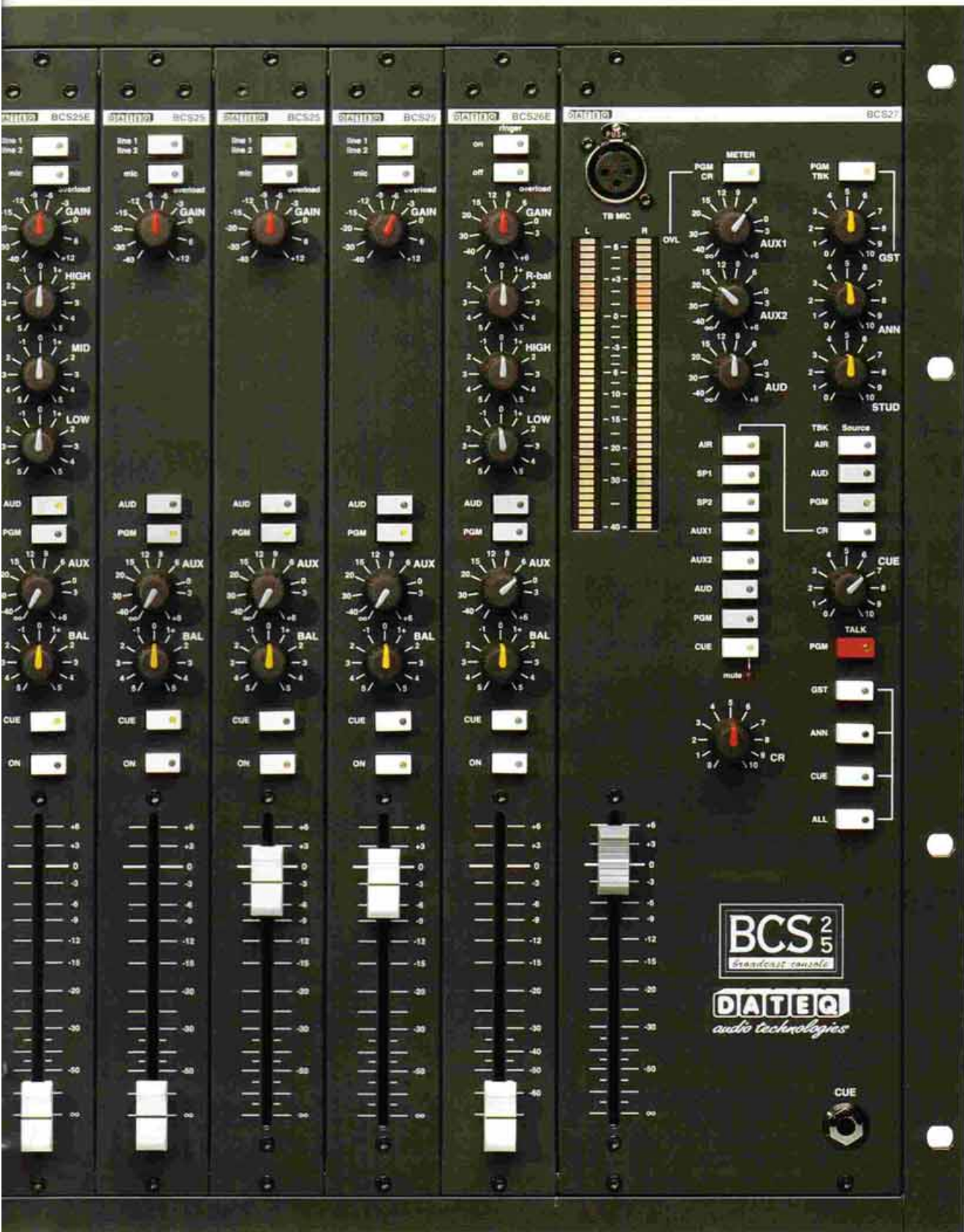
The BCS 25 is based on a modular 19" chassis with up to eight Input modules plus a Master module with integrated meter unit and communication facilities.



Highlights

- Universal Input module with three input connectors
- VCA-controlled faders
- Three-band equalizer
- Extensive routing
- Integrated telephone hybrid

Limited size, unlimited performance



- Automatic mix-minus mode thanks to Dateq's TDM2
- Two independent cleanfeed busses

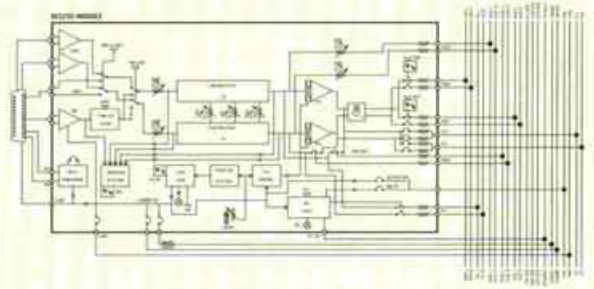
- Legible meters with 'peak hold'
- Microprocessor-controlled routing
- Full featured communications

- Independent monitoring for guest and announcer
- Intelligent 'DJ Mode' circuit

Dateq BCS 25

Input module BCS 25(E)

The universal Input module has one microphone input and two line inputs. Up to 24 signal sources can be connected to the console simultaneously. Line input 1 is electronically balanced. Line input 2 can be balanced with an optional plug-in module. The input Gain has a wide control range (-46 dB to +12 dB). The E-design module has an additional 3-band equalizer (at 60, 1300 and 12k Hz).



The Audition and Program routing switches enable you to work on a separate production without disturbing on-air transmission. Each Input has an adjustable Aux 1 Send (pre-fader). The non-adjustable Aux 2 can be selected pre- or post-fader by a jumper to use the signal for a separate output mix. There also is a Cue control. The Remote Start function for the connected equipment can be (jumper) selected: Fader start, Button start (Cue button) or both.



The faders are VCA-controlled. Thanks to the latest VCA-technologies, the usual VCA distortion levels have been drastically minimised. All source and control signals (including remote start) are connected via the single 25-pin sub-D connector.



Telephone module

The Telephone module handles the Telecom signals. It uses Dateq's unique TDM2 (Triple Dynamical Mix Minus) telephone hybrid system. This system enables each hybrid to generate a separate return signal while eliminating its own signal. Making separate clean feeds unnecessary the number of hybrids is theoretically unlimited. Each module can return the Program, Audition, Cue or Communication bus signals. It has a built-in analogue hybrid and may be switched to a 'remote only' mode to



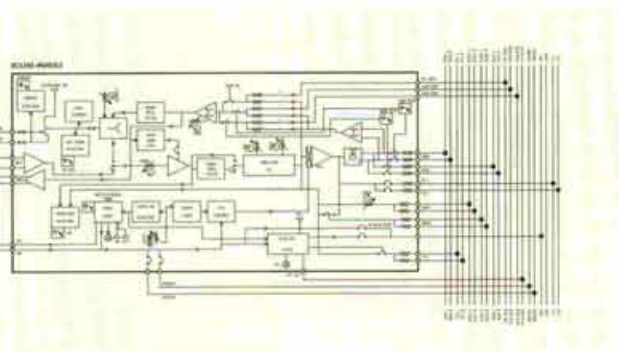
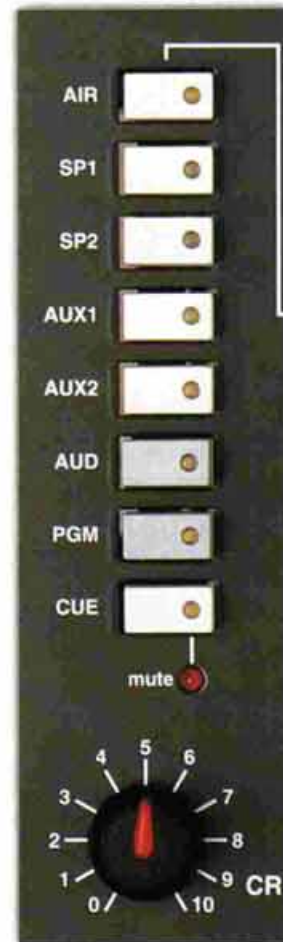
control an external hybrid or talkshow system. Also supplied is an (internally switchable) Autogain function: this raises the Studio signal 6 dB above the incoming phone signal, drastically improving the intelligibility and control of the presenter. The BCS26E module has an additional 2-band equalizer.

The back panel of the Master module houses the outputs. The Program output (PGM) is transformer balanced and uses separate connectors for Left, Right (XLR) and Mono (jack). These outputs are level-controlled by the Master fader.

Master controls for Aux 1, Aux 2 and 'AUD' can be found at the front panel. The 'AUD' output is a mix of all channels but without the microphone channels. Thus excellent for driving the loudspeakers in the presenter's room.

The Multisource Selector is used to select the signal for the Control Room loudspeakers: Aux 1, Aux 2, AUD, PGM, Cue (outputs) and Air, Spare 1, Spare 2 (three extra inputs).

The Multisource Selector has automation capabilities enabling the engineer or presenter to concentrate on the actual program.



Master module

The Master module designed with well-proven Dateq technology uses a microprocessor to control the output routing.





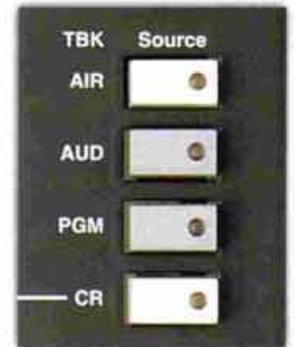
The LED-meter in de Master module shows the signal selected by the Multisource Selector. It can also be set to show the PGM output signal.

In addition, the Master module has a Talkback section with microphone input. This enables you to communicate with guests or the presenter from the console. The microphone signal can also be routed to the PGM and Cue busses: a handy feature when using the console on-location while enabling direct communications with the studio. This function can be deselected to prevent mistakes while on-air... The microphone input Autogain function greatly improves intelligibility of the communications.

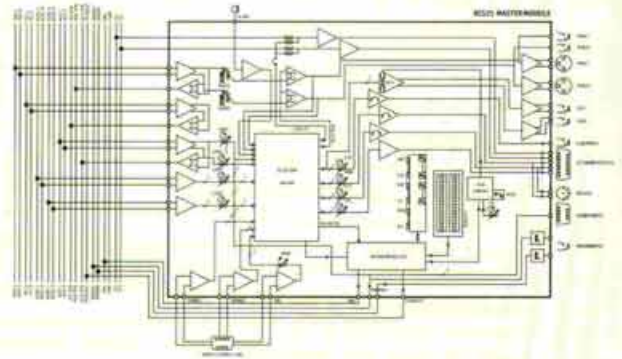


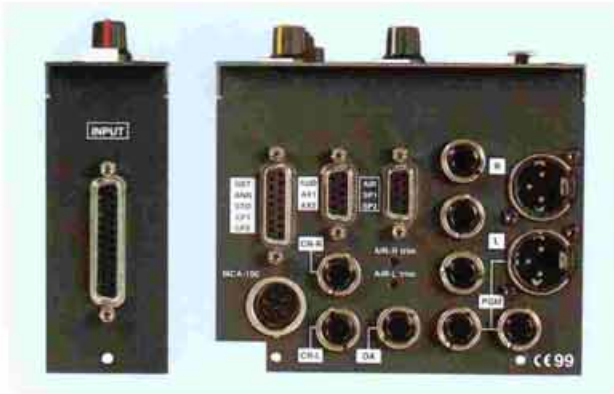
AUTO PFL

While in the 'self-op' mode, activating the input of the presenter's microphone mutes the Control Room output to prevent feedback. The Auto PFL function then automatically routes the PGM



or AIR signal to the headphone output. When 'cueing' a record or tape the PFL signal is heard through both loudspeakers and headphones. With a special software update the on air signal can also selected to the CUE bus at a -30 dB level.





Connections

Each Input module is equipped with three separate input connectors. With eight Input modules up to 24 signal sources can be connected. All source and control signals (including remote start) are connected to the module via the single 25-pin sub-D connector. All inputs are electronically balanced, as are the channel inserts.

The Master module uses XLR connectors for the Master signals and sub-D connectors for other signals. In addition to the PGM, Aux and AUD outputs the Master module is equipped with an adjustable Control Room output to drive the engineer's monitor loudspeakers.

Extra Cleanfeeds

The BCS 25 has two mono 'cleanfeed' outputs: to use as return signal for an ISDN Codec. Each Input module has two jumpers to select the (post-fader) signal to one or both clean feeds.

On Air outputs

The BCS 25 has two independent 'On Air' control outputs, to -for example- drive 'On Air' signal indications. For each Input module, you can select the 'On Air' output to be activated (1 or 2).

About Dateq

In 1970 Dateq started the production of professional audio equipment for DJ's and professional end users. The first mixing console series was developed in close consultation with the end users: the consoles proved a big success.

When the Dutch broadcast market was liberalised in 1984 Dateq introduced the first true broadcast mixing consoles. They were designed using the know-how gained building mixing consoles for the DeeJay market.

Since 1984 a lot has changed, but not the philosophy. Consoles are still being designed in close co-operation with the end users and quality as well as serviceability are demands to be met.



Powerful microprocessors ensure a flexible, easily installable and - above all - intelligent broadcast console. Special emphasis is given to the communication section: of ever-increasing importance in the modern broadcast studio. The fact that with all this sophistication and versatility the consoles still are easy to use is what sets Dateq apart.

INPUTS		
MIC		electronically balanced, 300 Ohm (nominal)
	level	-54...-16dBm
	noise	<-127dB
LINE 1	gain	-46...+12dB
		electronically balanced, 20 kOhm (nominal)
	level	-12...+20dBm/ 0dBm nominal
LINE 2	noise	<-80dB
	gain	-46...+12dB
		unbalanced, 24 kOhm (nominal)
AUX1	level	-18...+20dBm / -6dBm nominal
	noise	<-80dB
	gain	-46...+12dB
AUX2	source	pre-fader
	level	variable
AUX2	source	pre or post fader
	level	fixed

HYBRID/TELOS		
HYBRID	gain	-15...+6dB
	R-balans	externally adjustable
	C-balans	internally adjustable
	TDM_	Triple Dynamical Mix Minus
	Trans-hybrid loss	<-30dB @ 300...3kHz
TELOS		electronically balanced, >20 kOhm
	send	balanced, 0dBm @ 600 Ohm
	noise	<-80dB

MASTER/MONITOR INPUTS/OUTPUTS		
AIR		unbalanced, 12 kOhm (nominal)
SPARE1, 2	level	-14...+6dB pre-trimmer
		unbalanced, 22 kOhm (nominal)
PGM	level	0dB
		electronically balanced and unbalanced
AUD	level	+6dBm @ 600 Ohm/ 0dBm @ 600 Ohm
		unbalanced, variable
AUX1, AUX2	level	0dBm @ 600 Ohm
		unbalanced, variable
CR	level	0dBm @ 600 Ohm
		electronically balanced, variable
ANN, GUEST1, 2	level	0dBm @ 600 Ohm
		stereo headphone, variable
STUDIO	level	2x 0.5 W @ 4 Ohm
		unbalanced, variable
CLEANFEED1, 2	level	0dBm @ 600 Ohm
		unbalanced
CLEANFEED1, 2	level	0dBm @ 600 Ohm

LOW CUT FILTERS		
MIC		6dB/octave
	-3dB point	80 Hz, fixed
LINE		6dB/octave
	-3dB point	10 Hz, fixed

EQUALIZER (*E version only)		
MIC/LINE	HIGH	+/-12dB @ 12 kHz, shelving
	MID	+/-12dB @ 1.3 kHz, bell
	LOW	+/-12dB @ 60 Hz, shelving
TEL	HIGH	+/- 12dB @ 3.5 kHz, shelving
	LOW	+/- 12dB @ 600 Hz, shelving

GENERAL		
Frequency response		
Mic to master		80 Hz - 30 kHz, +0/-0.5dB
rest to master		20 Hz - 30 kHz, +0/-0.5dB
THD + IM		0.05 % nominal
Crosstalk L <- R		<-73dB @ 1 kHz
Crosstalk 1 <- 2		<-80dB @ 1 kHz
Noise		<-100dB (inputs OFF)
		<-80dB (inputs ON)
Overload indication		6dB below clip level
Clip level		+20dB

METER		
type/range		Peak-Hold/-40...+6dB
barlength		40-LEDS

INPUT CONTROL I/O		
ON Lamp-output		15Vdc, 100mA (line 1 only)
CUE button input		50 kOhm, normally open (line 1 only)
Remote outputs		solid-state driver, 15Vdc, 10 mA
ON-AIR lamp output		solid-state driver, 15Vdc, 10 mA

SUPPLY		
Supply voltage		90 to 260 Vac/ 50...60 Hz/ 30 Watt

DIMENSIONS		
Dimensions		445 x 395 x 110 mm
Weight		7.9 kg (nett.)

* DATEQ Audio Technologies reserves the right to amend specifications without notice in line with technological developments. * Reference level 0dB = 0,775V
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