

Bring Your Songs to Life.

BR-1600 CD
DIGITAL RECORDING STUDIO



A 16-track recorder with pro features and BOSS simplicity.

The BR-1600CD isn't your average 16-track. This portable powerhouse records up to eight XLR inputs at once while adding beefed up effects and backing tracks—all with easy BOSS operation.



Record your band with eight XLR inputs.



New guitar effects based on the GT-6.



Vocal Tool Box makes your vocals shine.



Record up to eight microphones in four easy steps!

1 Connect your microphones



Adjust the Input Sens knobs and push the Multi-Track button to enter the Multi-Track recording mode.

2 Adjust the effects



The "Multi-CH" effect preset will be automatically selected. Use the knobs for easy editing.

3 Push the Level Calibration button



Send signal and push the "Calculate" button on the LCD to have your levels uniformly matched.

4 Push REC and PLAY



Begin recording to tracks 1-8. You can also select tracks 9-16 as the destination.

BR-1600CD
DIGITAL RECORDING STUDIO
COSM V-LINK USB



Hassle-free recording with 16 primary tracks and 256 V-Tracks

Whether you're recording guitar and vocals or an entire band, the BR-1600CD can handle the job. When recording, you can choose from 256 V-Tracks, allowing you to lay down as many guitar solos or vocal takes as needed. Once finished, select any 16 tracks for

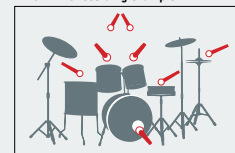
playback—plenty of room for all your tracks and overdubs. And since it's digital, you get pristine sound quality and the benefit of non-destructive editing. So go ahead and cut, copy and paste as you please!



New multi-mic recording with phantom power and Vocal Tool Box

The BR-1600CD includes eight sweet-sounding XLR microphone inputs with phantom power. Use them to mic up a drum set or to record multiple vocalists simultaneously. Or how about recording your entire band? The BR-1600CD's new "Multi-Track" recording mode eliminates confusing concepts like

Multi-mic recording example



recording buses and includes powerful channel effects like a compressor, 3-band EQ, and low cut filter. There's also a new Vocal Tool Box, which includes auto pitch correction and a Harmony Sequence for adding realistic vocal harmonies via chord input. Wow!

8-channel Compressor EQ



Auto Pitch Correction

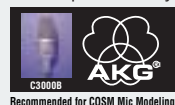


Harmony Sequence



Powerful modeling effects for guitar, bass and vocals

Plug into the BR-1600CD and you've got an arsenal of world-class BOSS effects at your disposal. To start, there's a compressor on eight channels and 3-band equalizer on all 16 channels. The BR-1600CD's separate insert processor serves up powerful COSM® Overdrive/Distortion and Amp Modeling identical to BOSS' popular GT-6, plus COSM Microphone Modeling to give your vocals a more "expensive" sound. You'll also find modeling effects optimized for bass and acoustic guitar. A separate Reverb and Chorus/Delay processor serve up all the delay and modulation effects you need. Forget about external effects—it's all here!



COSM AMP MODELING LIST

COSM Guitar Amp Modeling			
JC-120	STACK CRUNCH	BG DRIVE	SLDN
JAZZ COMBO	VO DRIVE	BG RHYTHM	DRIVE STACK
FULL RANGE	VO LEAD	MS (I)	LEAD STACK
CLEAN TWIN	VO CLEAN	MS (II)	5150 DRIVE
PRO CRUNCH	MATCH DRIVE	MS HI GAIN	METAL STACK
TWEED	MATCH LEAD	R-FIER RED	METAL LEAD
CRUNCH	FAT MATCH	R-FIER ORANGE	
BLUES	BG LEAD	R-FIER VINTAGE	
COSM Bass Amp Modeling			
AC	AMG		

COSM EFFECT MODELING LIST

COSM Overdrive/Distortion			
BLUES OD	AMERICAN DS	DST+	MT-2
TURBO OD	GUV DS	'60S FUZZ	R-MAN
BOOSTER	OD-1	OCT FUZZ	HEAVY METAL
DISTORTION	T-SCREAM	MUFF FUZZ	
COSM Wah			
CRY WAH	FAT WAH	Light WAH	7String WAH
VO WAH			
COSM Comp/Limiter			
BOSSComp	D-Comp	Rack160	VtgRack



Built-in CD-R/RW drive and mastering effects

Burn your music on CD while taking advantage of the onboard Mastering Tool Kit with multi-band compression for tight, punchy mixes. COSM Speaker Modeling helps you create mixes that translate across any speaker system.



Complete creative freedom with USB

The BR-1600CD's USB port makes it easy to load .WAV files from your computer into a track, or export your tracks for further editing in software. It's also a great way to back up projects.



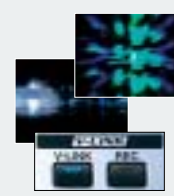
New backing tracks with realistic sounds

BOSS' Rhythm Track goes to the extreme! Now you get a separate Drum, Bass and Loop Phrase track for creating complete backing arrangements. High-quality sounds and phrases are included, and you are free to load in your own loops.

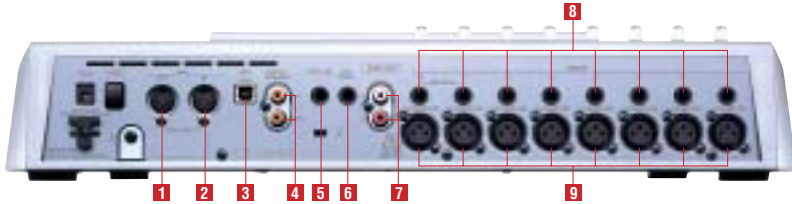


Combine audio and video with V-LINK

Want to integrate video with your music? With V-LINK and an optional Ediroi video editor, it's easy to control and manipulate video using the BR-1600CD's buttons and knobs.



REAR PANEL



- 1 MIDI OUT connector
- 2 MIDI IN connector
- 3 USB connector
- 4 DIGITAL IN/OUT connector (coaxial type)
- 5 FOOT SW jack
- 6 EXP PEDAL jack
- 7 LINE OUT jacks
- 8 INPUT 1-8 jacks (unbalanced, 1/4" phone type)
- 9 MIC 1-8 jacks (XLR balanced)

INSERT EFFECTS

AMP-SP	COSM Preamp & Speaker	DES	De-esser	FL	Flanger	OD-DS	COSM Overdrive/Distortion	SG	Slow Gear
A.SIM	Acoustic Guitar Simulator	DFR	Defretter	FV	Foot Volume	PAN	Pan	SP	Speaker Simulator
ACP	Acoustic Processor	DLY	Delay	HU	Humanizer	PH	Phaser	TR	Tremolo
B.SIM	Bass Simulator	DSTN	Distance	LCUT	Low Cut Filter	PIC	Pickup Simulator	TRM	Tremolo/Pan
B.CUT	Bass Cut Filter	DBL	Doubling	LM	Limiter	PS	Pitch Shifter	UV	Uni-V
CHO	Chorus	ENH	Enhancer	LO-FI	Lo-Fi Box	P.AMP	Preamp	VB	Vibrato
COMP	Compressor/Limiter	2CE	2x2 Chorus	MC	Mic Converter	RNG	Ring Modulator	VT	Voice Transformer
C.COMP	COSM Compressor/Limiter	3EQ	3-Band Equalizer	NS	Noise Suppressor	SDD	Short Delay	WAH	Wah
CS	Compressor	4EQ	4-Band Equalizer	OCT	Octave	SEQ	Sub Equalizer		

INSERT EFFECT ALGORITHMS

BANK	ALGORITHM	EFFECTS	BANK	ALGORITHM	EFFECTS
GUITAR/BASS	COSM OVERDRIVE G.AMP	OD-DS, AMP-SP, 4EQ/WAH, NS, FV, DLY, CHO, CS/LM/A.SIM/PIC/TR/SG/DFR/PH/FL/PS/2CE/PAN/VB/UV/SDD/HU/RNG/SEQ	MIC	COSM VOCAL COMP	C.COMP, DES, ENH, 4EQ, NS, FV, DLY
	ACOUSTIC SIM	A.SIM, COMP, 4EQ, NS, FV, FL/CHO/PH/PS/DBL/TRM, DLY	STEREO	STEREO MULTI	COMP, RNG, 4EQ/WAH, NS, FV, FL/CHO/PH/PS/DBL/TRM, DLY
	BASS SIM	B.SIM, COMP/DFR, NS, FV, FL/CHO/PH/PS/DBL/TRM		LO-FI BOX	LO-FI, NS
	COSM COMP G.AMP	C.COMP, P.AMP, SP, 4EQ/WAH, NS, FV, DLY	SIMUL	VO+G.AMP (MIC)	COMP, 4EQ, NS, DLY
	ACOUSTIC GUITAR	ACP, COMP, 4EQ, NS, DLY		VO+G.AMP (GUITAR)	COMP, P.AMP, SP, NS, DLY
	BASS MULTI	COMP/DFR, OCT, ENH, 4EQ/WAH, NS, FV, FL/CHO/PH/PS/DBL/TRM, DLY		VO+AC.SIM (MIC)	COMP, 4EQ, NS, DLY
	COSM BASS AMP	COMP, P.AMP, SP, 4EQ/WAH, NS, FV, FL/CHO/PH/PS/DBL/TRM, DLY		VO+AC.SIM (GUITAR)	A.SIM, COMP, NS, DLY
	COSM COMP B.AMP	C.COMP, P.AMP, SP, 4EQ/WAH, NS, FV, DLY		VO+ACOUSTIC (MIC)	COMP, NS
				VO+ACOUSTIC (GUITAR)	ACP, COMP, NS
	MIC	VOCAL MULTI	COMP, DES, ENH, 4EQ, NS, FV, FL/CHO/PH/PS/DBL/TRM, DLY	MULTI-CH	8CH COMP EQ
VOICE TRANSFORMER		VT, NS, FV, FL/CHO/PH/PS/DBL/TRM, DLY			

SPECIFICATIONS

Tracks Track: 16, V-Track: 256 (16 V-Tracks per primary Track) *Up to 8 tracks can be recorded simultaneously, and up to 16 tracks can be played back simultaneously.
 Maximum Useful Capacity / Recording Time Internal Hard Disk: 40 GB / Recording Time: 120 hours (conversion in one track) *The recording times shown above are approximate. Times may vary depending on the number of songs and size of imported loop phrase that were created. *The recording times shown are the total for all tracks used. Therefore, if each of the sixteen tracks contain an equal amount of data, the length of the resulting song will be approximately 1/16 of the time shown.
 Signal Processing <AD Conversion>: [24 bit, AF Method (Guitar/Bass)], [24 bit, ΔΣ Modulation (VOCAL)], [24 bit, ΔΣ Modulation (MULTI-TRACK)], [24 bit, ΔΣ Modulation (STEREO TRACKS)], <DA Conversion>: 24 bit, ΔΣ Modulation, <Internal Processing>: 24 bit (digital mixer section), <Recording Data>: 16 bit linear
 Sample Rate 44.1 kHz
 Frequency Response 20 Hz-20 kHz (+1/-3 dB)
 Total Distortion 0.02 % or less (INPUT SENS: CENTER, 1 kHz at nominal output level)
 Nominal Input Level (Variable) GUITAR/BASS jack: -10 dBu, MIC 1-8 jacks (XLR): -40 dBu, INPUT 1-8 jacks: -10 dBu
 Input Impedance [GUITAR/BASS jack: 1 MΩ], [MIC 1-8 jacks (XLR): 12.5 kΩ (HOT-COLD), 6.5 kΩ (HOT-GND, COLD-GND)], [INPUT 1-8 jacks: 22 kΩ]
 Nominal Output Level LINE OUT jack: -10 dBu
 Output Impedance LINE OUT jack: 2 kΩ, PHONES 1, 2 jack: 100Ω
 Recommended Load Impedance LINE OUT jack: 20 kΩ or greater, PHONES 1, 2 jack: 8-50Ω
 Residual Noise Level LINE OUT jack: -90 dBu or less (INPUT SELECT: GUITAR/BASS, input terminated with 1 kΩ, INPUT SENS: CENTER, IHF-A, typ.)
 Interface DIGITAL IN: S/PDIF 16-24 bit (coaxial type), DIGITAL OUT: S/PDIF 16-24 bit (coaxial type), USB connector (B type)
 Display 130 x 36 mm (Backlit LCD)
 Connectors MIDI IN connector, MIDI OUT connector, USB connector, DIGITAL IN connector (coaxial type), DIGITAL OUT connector (coaxial type), FOOT SW jack (1/4" phone type), EXP PEDAL jack (Stereo 1/4" phone type), LINE OUT jacks (RCA Phono type), INPUT 1-8 jacks (unbalanced, 1/4" phone type), MIC 1-8 jacks (XLR balanced), PHONES 1 jack (Stereo 1/4" phone type), PHONES 2 jack (Stereo 1/4" phone type), GUITAR/BASS jack (1/4" phone type)
 Power Supply DC 12 V; AC Adaptor (Roland PSB-3U)
 Power Consumption 3 A
 Dimensions 494 (W) x 339 (D) x 99 (H) mm, 19-1/2 (W) x 13-3/8 (D) x 3-15/16 (H) inches
 Weight 4.9 kg / 10 lbs 13 oz (Excluding AC Adaptor)
 Accessories AC Adaptor: PSB-3U, Owner's Manual, Effect Patch List, DISCRETE DRUMS (CD-ROM) *0 dBu = 0.775 Vrms

System Requirements (USB Connection)

- Compatible OS** Windows: Windows® Me/2000 or later, Macintosh: Mac OS 9.1 or later
- Computer** Windows: Windows-compatible personal computer equipped with a USB port, Macintosh: Apple Macintosh computer equipped with a USB port
- Driver** The BR-1600CD uses a standard DRIVER that is found on the OS. The DRIVER will be installed automatically once connected with Computer via USB.

OPTIONS



FS-5U
Foot Switch (Unlatch)



EV-5
Expression Pedal
Roland



DP-2
Pedal Switch
Roland



DR-20
Dynamic Microphone
Roland



RH-50
Headphones
Roland

Affordable 8-Track Recording and CD-Burning.

The BR-1180CD Digital Recording Studio has everything you need at a great price: eight playback tracks, a stereo Master Track and 80 Virtual Tracks. There's also a 20GB hard drive and an internal CD-RW drive to burn your music to CD.

BR-1180CD Version 2
DIGITAL RECORDING STUDIO
COSM



Great for guitarists and songwriters!

The BOSS BR-864 puts 8-track digital recording in the palm of your hand. It comes with powerful features like 64 Virtual Tracks, COSM® effects, a built-in drum machine, Compact Flash media and USB—perfect for recording on the go.

BR-864
8-TRACK DIGITAL STUDIO
COSM USB CompactFlash



COSM
Composite Object Sound Modeling

Once a musical instrument generates sound vibrations, it reaches the human ear through various mediating objects, each of which significantly affects the sound. The material and configuration of the instrument, the electric/electronic/magnetic amplifying system, the air and the reverberation of the room all affect the final sound. Sound modeling, the latest DSP technology, "virtually"reconstructs these objects. Roland's breakthrough Composite Object Sound Modeling (COSM) uses the advantages of multiple modeling methods and succeeds in accurately emulating existing sounds, as well as producing sounds that have never before been created.