SCANNER 69B User Manual

	MODES				
SWITCHS	SYNC SW MODE	INTL SW MODE	CV SCAN SW MODE		
DIR SW	5V patched to DIR/ST/LP jack	5V patched to DIR/ST/LP jack	5V patched to DIR/ST/LP jack		
	changes direction of	changes direction of	HOLDs position of		
	rotation	rotation	rotation		
ST CV SW	5V patched to DIR/ST/LP jack	5V patched to DIR/ST/LP jack	5V patched to DIR/ST/LP jack		
	changes start position of	changes start position of	changes start position of		
	rotation	rotation	rotation		
SPAN CV SW	5V patched to DIR/ST/LP jack	5V patched to DIR/ST/LP jack	5V patched to DIR/ST/LP jack		
	changes span of	changes span of	changes span of		
	rotation	rotation	rotation		
AC/DC SW	Switches between Audio	Switches between Audio	Switches between Audio		
	and CV input. Use AC for audio	and CV input. Use AC for audio	and CV input. Use AC for audio		
	and DC for CV signals	and DC for CV signals	and DC for CV signals		
sw	In SYNC mode SW works like	SW alternates between inputs	SW alternates between inputs		
Switch is simple	a sequencer stepping thru	without cross-fade or pan	without cross-fade or pan		
ON/OFF between	each output with a clock	Output L and R can be used	Output L and R can be used		
inputs without	patched to CV Input jack	for alternating outputs panned	for alternating outputs panned		
cross-fade	SCAN RATE and DIR CV	left and right	left and right		
	control the direction of rotation				
	SW amplitude can be controlled				
	with AMP CV input				
LIN	LIN is a linear cross-fade between	LIN is a linear cross-fade between	LIN is a linear cross-fade between		
	adjacent channel inputs. Good for	adjacent channel inputs. Good for	adjacent channel inputs. Good for		
	CV cross-fades with addition of	CV cross-fades with addition of	CV cross-fades with addition of		
	two channels mid position	two channels mid position	two channels mid position		
	total =1 (0.5+0.5=1)	total =1 (0.5+0.5=1)	total =1 (0.5+0.5=1)		
LOG	LOG is an equal power cross-	LOG is an equal power cross-	LOG is an equal power cross-		
	fade or pan between adjacent	fade or pan between adjacent	fade or pan between adjacent		
	channel inputs. Ideal for audio	channel inputs. Ideal for audio	channel inputs. Ideal for audio		
	cross-fades. The mid point	cross-fades. The mid point	cross-fades. The mid point		
	for cross-fade is -3dB down.	for cross-fade is -3dB down.	for cross-fade is -3dB down.		
	This limits the perceived amp-	This limits the perceived amp-	This limits the perceived amp-		
	litude change that would	litude change that would	litude change that would		
	occur in linear mode with audio.	occur in linear mode with audio.	occur in linear mode with audio.		
KNOB CONTROLS					
SCAN RATE	Knob set left of center sets ratio	Knob set to the right of center	No effect in this mode		
	for division of sync clock.	controls the rate of rotation and			
	Knob set right of center multiplies	direction clock-wise. Set to the			
	the clock frequency. Ratios are	left of center controls Counter			
	marked on the dial.	clock-wise rotation and rate.			
START	Used to position the start position	Used to position the start position	Used to position the start position		
	of scan rotation. CV control of	of scan rotation. Works in tandem	of scan rotation. Works in tandem		
	with CV control START	with CV control START	with CV control START		
SPAN	Used to set the width or number of	Used to set the width or number of	SPAN is used as an attenuator		
	input channels to be scanned	input channels to be scanned	for CV INPUT in this mode		
	CV control of SPAN is also possible	CV control of SPAN is also possible	CV Control of SPAN functions as a		
			CV control of the attenuator.		

JACK FUNCTIONS			
AMPLITUDE	Input for connecting an envelope generator or other CV source to control output dynamics	Input for connecting an envelope generator or other CV source to control output dynamics	Input for connecting an envelope generator or other CV source to control output dynamics
CV INPUT	Input for clock to sync to. 5+V is ideal range with 50% duty cycle preferred but not required.	Controls scan rate frequency 0-5V+ range in tandem with Rate Pot	Controls scan position 0-5V+ range input. The Span knob functions as an attenuator to control the amount of the CV input range while Start knob controls position.
DIR/ST/LP	Input for direction, start and span modulation. Function is selected by DIR Switch. In Direction switch mode input should be logic type 0 or 5V. High input switches rotation from CW to CCW. For Start and Span input can be 0-5V+ range	Input for direction, start and span modulation. Function is selected by DIR Switch. In Direction switch mode input should be logic type 0 or 5V. High input changes rotation in direction opposite to what is set by SCAN RATE knob. For Start and Span input can be 0-5V+ range	Input for direction, start and span modulation. Function is selected by DIR Switch. In Direction switch mode input should be logic type 0 or 5V. High input switches rotation from CW to CCW. For Start and Span input can be 0-5V+ range
OUTL/SUM	Left is Cross-Fade out with all channels mixed to 1 output	Left is Cross-Fade out with all channels mixed to 1 output	Left is Cross-Fade out with all channels mixed to 1 output
OUTR	Plugging in to Right jack routes even channels 2,4,6,8 to right jack Left jack gets 1,3,5,7	Plugging in to Right jack routes even channels 2,4,6,8 to right jack Left jack gets 1,3,5,7	Plugging in to Right jack routes even channels 2,4,6,8 to right jack Left jack gets 1,3,5,7
INPUTS 1-8	Signal inputs to scan. Can be either Audio signals or CVs. Set AC/DC switch appropriately. (AC=Audio)	Signal inputs to scan. Can be either Audio signals or CVs. Set AC/DC switch appropriately. (AC=Audio)	Signal inputs to scan. Can be either Audio signals or CVs. Set AC/DC switch appropriately. (AC=Audio)