



## THANK YOU FOR PURCHASING ERICA SYNTHS PICO SERIES MODULE!

WITH PICO SERIES WE CHALLENGED OURSELVES – CAN WE MAKE ANY SUPERIOR FUNCTIONALITY SYNTH MODULE 3HP WIDE AND AFFORDABLE? YES, WE CAN.

**ERICA PICO QUANT** QUANT IS ADVANCED CV QUANTIZER WITH SOME UNIQUE FEATURES – QUARTER TONE ACCURACY AND THE WEB-BASED INTERFACE FOR CREATING USER GENERATED SCALES.

SEE INSTRUCTIONS, HOW TO USE SCALE GENERATOR SOFTWARE BELOW!

**FEATURES**

- 8 PRESET SCALES
- WEB BASED INTERFACE FOR USER GENERATED AND EXTRA PRESET SCALES
- MICROTONAL QUARTER TONE SCALES
- ADJUSTABLE TOLERANCE
- ADJUSTABLE CV GLIDE BETWEEN NOTES
- CLOCKED AND INDEPENDENT QUANTIZATION

**TECHNICAL SPECS**

|   |             |
|---|-------------|
| MINIMUM ACCURACY                                | 1/4 TONE    |
| CV IN AMPLITUDE (NEGATIVE VOLTAGES ARE IGNORED) | -10V - +10V |
| CV OUT AMPLITUDE                                | 0V - +8V    |
| GLIDE TIME                                      | 0 – 1"      |
| POWER CONSUMPTION                               | +25MA, -6MA |
| MODULE WIDTH                                    | 3HP         |
| MODULE DEPTH                                    | 35MM        |

# pico

## QUANT

GLIDE KNOB SETS THE GLIDE TIME BETWEEN NOTES. FOR QUICK SEQUENCES IT WILL WORK LIKE WET/DRY (CCW-QUANTIZED/CW-NO-QUANTIZED) CONTROL

THE RGB LED INDICATES CURRENTLY SELECTED SCALE. REFER TO THE TABLE OF PRESET SCALES BELOW!

FOR CLOCKED QUANTIZATION PATCH THE CLOCK SIGNAL HERE

THIS IS UNQUANTIZED CV INPUT



USE THIS KNOB TO ADJUST QUANTIZER TOLERANCE – A CV RANGE AROUND THE GIVEN NOTE CV IN WHICH THE MODULE ADVANCES TO THE NEXT CV STAGE. FULL CCW SETTING GIVES 50% TOLERANCE, IN OTHER WORDS, THE QUANTIZER WILL ADVANCE TO THE NEXT NOTE APPROXIMATELY IN THE MID WAY BETWEEN NOTES; FULL CW SETTING GIVES 10% TOLERANCE, MEANING, THE QUANTIZER WILL ADVANCE TO THE NEXT NOTE WHEN INCOMING CV IS VERY CLOSE TO THE CV OF THE GIVEN NOTE. SEE THE ILLUSTRATION BELOW. TOLERANCE CONTROL IS PARTICULARLY USEFUL WHEN RANDOM CV OR NOISE IS APPLIED TO THE CV INPUT.

PUSH THIS BUTTON PROMPTLY TO SWITCH BETWEEN 8 SCALES. PUSH AND HOLD A BUTTON FOR 2" AND MODULE WILL ADVANCE TO SCALE UPLOAD MODE. LED WILL START BLINKING RED.

CLK OUT LED WILL BLINK ON EACH CV CHANGE

THIS IS OUTPUT OF QUANTIZER TRIGGER. IF NOTHING IS PATCHED IN CLK IN, THE OUTPUT TRIGGER WILL APPEAR ON EACH CV STEP CHANGE

THIS IS QUANTIZED CV OUTPUT



TOLERANCE CONTROL IN ACTION

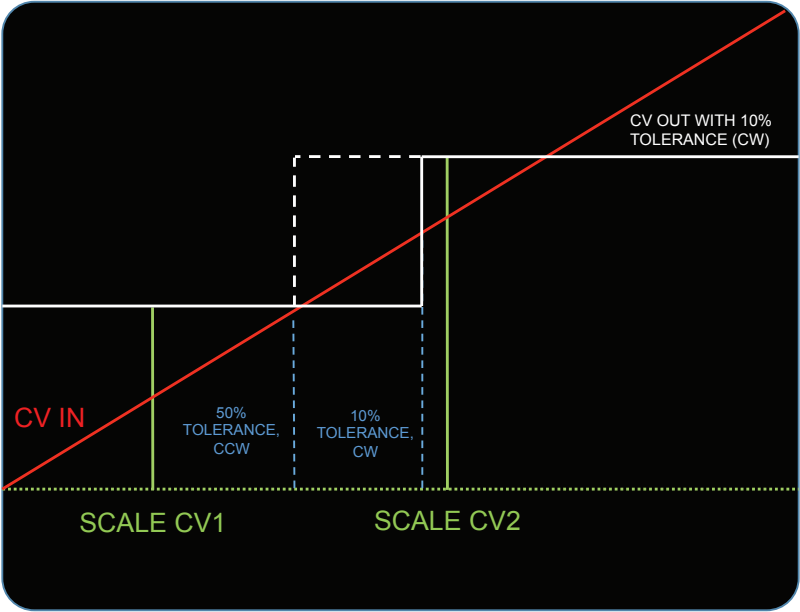
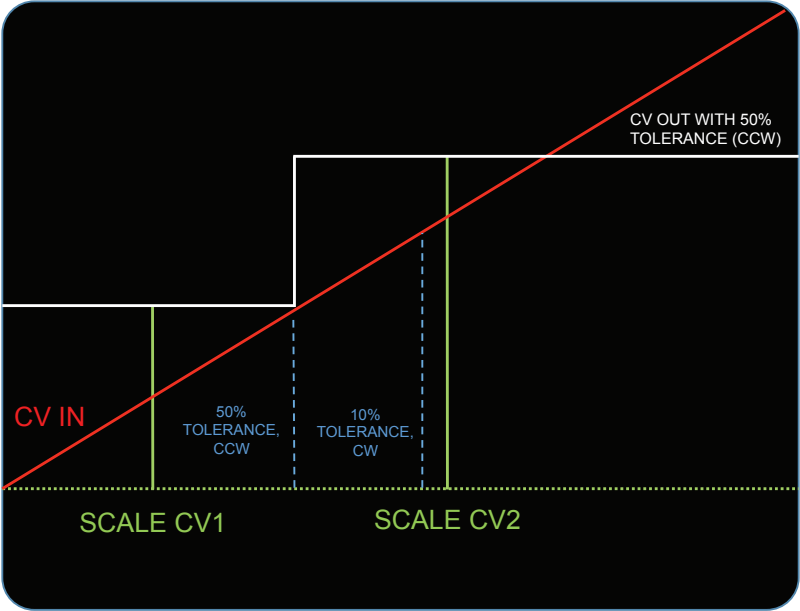
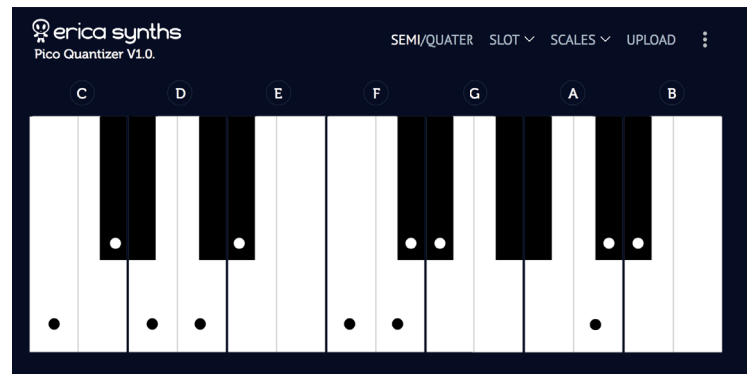
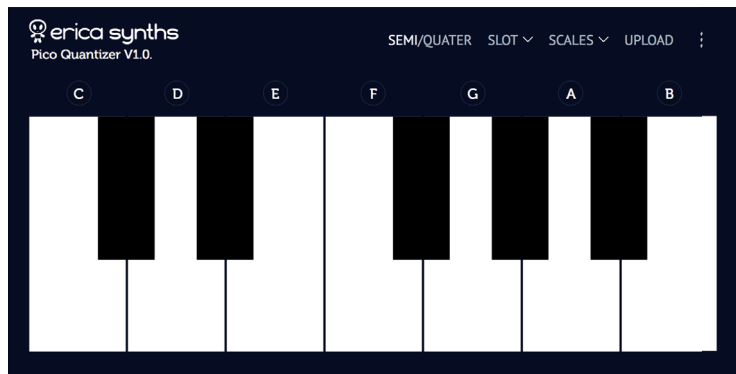


TABLE OF ALGORITHMS

| LED COLOR   | LOGIC FUNCTION                  |
|---|---------------------------------|
|    | DIATONIC                        |
|    | DOUBLE HARMONIC MAJOR (ARABIAN) |
|    | HARMONIC MINOR                  |
|    | BLUES                           |
|  | DIMINISH                        |
|  | PENTATONIC                      |
|  | WHOLE-TONE                      |
|  | CHROMATIC                       |

YOU CAN ACCESS PICO QUANT SCALE DESIGN INTERFACE FROM YOUR LAPTOP OR SMARTPHONE ON: [WWW.ERICASYNTHS.LV/QUANT/](http://WWW.ERICASYNTHS.LV/QUANT/)



**THE PICO QUANT** PICO QUANT SCALE DESIGN INTERFACE ALLOWS YOU TO DESIGN YOUR OWN UNIQUE SCALES WITH  $\frac{1}{4}$  SEMITONE ACCURACY OR SELECT ONE OF 16 PREDEFINED SCALES. FOLLOW SIMPLE STEPS TO DESIGN AN UPLOAD SCALES TO THE MODULE!

- 1) OPEN THE PICO QUANT WEB INTERFACE ON YOUR LAPTOP OR SMARTPHONE: [WWW.ERICASYNTHS.LV/QUANT](http://WWW.ERICASYNTHS.LV/QUANT)
- 2) CONNECT YOUR LAPTOP OR SMARTPHONE HEADPHONES OUTPUT TO THE CLK IN ON PICO QUANT MODULE.
- 3) NOW YOU CAN START TO DESIGN THE SCALES OR SELECT READY ONES FROM THE DROPDOWN.
- 4) FIRST CLICK ON SEMI/QUARTER TO SELECT REGULAR, SEMITONE SCALES OR MICROTONAL, QUARTER NOTE SCALES.
- 5) IF YOU WISH TO SELECT PRESET SCALES, USE THE SCALES DROPDOWN AND SELECT THE SCALE, YOU WISH TO USE – IT WILL APPEAR AS DOTS ON THE KEYBOARD. IF YOU WISH TO DESIGN YOUR OWN SCALE, CLICK THE KEYS ON THE KEYBOARD TO SET ACTIVE NOTES FOR EACH SCALE! THE BLACK OR WHITE DOTS WILL APPEAR ON THE KEYS.
- 6) ONCE YOU ARE HAPPY WITH THE SCALE, PUSH AND HOLD THE SCALE BUTTON ON THE MODULE FOR 2" TO INITIATE SCALE UPLOAD MODE (THE LED WILL START BLINKING RED), USE DROPDOWN NEXT TO UPLOAD TO SELECT ONE OF 8 SLOTS CORRESPONDING TO LED COLORS, WHERE THE SCALE WILL BE UPLOADED, AND HIT UPLOAD BUTTON! IT WILL TAKE ONE SECOND OR SOMETHING FOR UPLOAD TO COMPLETE, AND THE LED WILL BLINK GREEN ONCE TO SIGNAL THAT THE UPLOAD HAS BEEN SUCCESSFUL.
- 7) NOW YOU CAN DESIGN NEXT SCALE AND UPLOAD IT TO ANOTHER SLOT. IF YOU SELECT A SLOT WHICH ALREADY HAS SCALE INSTALLED, IT WILL BE OVERWRITTEN.
- 8) YOU ALSO CAN SAVE SCALES ON YOUR LAPTOP, AND LOAD PREVIOUSLY SAVED SCALES FROM IT. TO DO SO, USE SAVE AND LOAD BUTTONS AND BROWSE THE LOCATION FOR SAVING SCALES OR LOADING THEM.

## SAFETY INSTRUCTIONS



WATER IS LETHAL FOR MOST OF THE ELECTRIC DEVICES, UNLESS THEY ARE MADE WATERPROOF. THIS ERICA SYNTHS MODULE IS NOT INTENDED FOR USE IN A HUMID OR WET ENVIRONMENT. NO LIQUIDS OR OTHER CONDUCTING SUBSTANCES MUST GET INTO THE MODULE. SHOULD THIS HAPPEN, THE MODULE SHOULD BE DISCONNECTED FROM MAINS POWER IMMEDIATELY, DRIED, EXAMINED AND CLEANED BY A QUALIFIED TECHNICIAN.



DO NOT EXPOSE THE MODULE TO TEMPERATURES ABOVE +50° C OR BELOW -20° C. IF YOU HAVE TRANSPORTED MODULE IN EXTREME LOW TEMPERATURES, LEAVE IT IN ROOM TEMPERATURE FOR AN HOUR BEFORE PLUGGING IT IN.



TRANSPORT THE INSTRUMENT CAREFULLY, NEVER LET IT DROP OR FALL OVER. WARRANTY DOES NOT APPLY TO MODULES WITH VISUAL DAMAGES.



THE MODULE HAS TO BE SHIPPED IN THE ORIGINAL PACKAGING ONLY. ANY MODULE SHIPPED TO US FOR RETURN, EXCHANGE AND/OR WARRANTY REPAIR HAS TO BE IN ITS ORIGINAL PACKAGING. ALL OTHER DELIVERIES WILL BE REJECTED AND RETURNED TO YOU. MAKE SURE YOU KEEP THE ORIGINAL PACKAGING AND TECHNICAL DOCUMENTATION.



THIS DEVICE COMPLIES TO THE EU GUIDELINES AND IS MANUFACTURED ROHS CONFORMING WITHOUT USE OF LED, MERCURY, CADMIUM AND CHROME. NEVERTHELESS, THIS DEVICE IS SPECIAL WASTE AND DISPOSAL IN HOUSEHOLD WASTE IS NOT RECOMMENDED.



erica synths

YOU WILL FIND ERICA SYNTHS TERMS OF WARRANTY AT [WWW.ERICASYNTHS.LV](http://WWW.ERICASYNTHS.LV).  
ITEMS FOR RETURN, EXCHANGE AND/OR WARRANTY REPAIR HAVE TO BE SENT TO:

ERICA SYNTHS  
ANDREJOSTAS STR. 43  
RIGA  
LATVIA  
LV-1045

USER MANUAL BY GIRTS OZOLINS@ERICA SYNTHS  
DESIGN BY INETA BRIEDE@CARRE BRANDING

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