

MATX	Matrix					
g-shift	PUTM	GETM	STOEL	RCLEL	STOSEQ	RCLSEQ
f-shift	CMIN	CMAx	R $\bar{z}$ R	C $\bar{z}$ C	FIND	INDEX
unshifted	I ⁺ _{row}	I ⁻ _{row}	STOIJ	RCLIJ	J ⁻ _{col}	J ⁺ _{col}
Page 3	F1	F2	F3	F4	F5	F6

Prev menu https://47calc.com/doc/R47/Menus/R47v0_Menu_MATX_page_2.pdf

Next menu https://47calc.com/doc/R47/Menus/R47v0_Menu_MENU_page_1.pdf

Ref 1 https://47calc.com/doc/Application%20Notes/AN0020_C47_R47_Matrix_and_Vector.pdf

Level	Label	Type	FullName	Extended description	Category	Flag	Catalog	Default
Menu p3	MATX	MENU	Matrix	Matrix functions ; a matrix is displayed in X and shown in other stack registers as [m×n Matrix] or [m×n C Matrix] when containing complex element(s) ; Ref : https://47calc.com/doc/Application%20Notes/AN0020_C47_R47_Matrix_and_Vector.pdf ; Info : monadic functions work per matrix element (except 1/x, which is a shortcut for [M] ⁻¹ , use -1 y* instead ; and $\sqrt{x}$, which is a shortcut for MSQRT, use 0.5 y* instead) ; in edit mode, all functions work per element ; use registers to input calculation results	Matrix operations		MATX	
F1	I+ _{row}	Command	Increment row index	Increment row index I of indexed matrix ; wraps automatically ; does not put value on the stack ; menu button I+ on [MATX.3] F1 displays value as subscript (only if indexed matrix exists) ; TI : M[I _r J _c]=<name> [<row> <col>]	Matrix operations		I+	<row>
F2	I- _{row}	Command	Decrement row index	Decrement row index I of indexed matrix ; wraps automatically ; does not put value on the stack ; menu button I- on [MATX.3] F2 displays value as subscript (only if indexed matrix exists) ; TI : M[I _r J _c]=<name> [<row> <col>]	Matrix operations		I-	<row>
F3	ST0IJ	Command	Set current matrix index	Set current matrix index (row I and column J) ; Shortcut : [ST0] - ...IJ ; TI : M<name> :I _r = ; M<name> :J _c =	Matrix operations		ST0IJ	
F4	RCLIJ	Command	Recall current matrix index	Recall current matrix index (row I and column J) ; Shortcut : [RCL] - ...IJ ; TI : M<name> :I _r = ; M<name> :J _c =	Matrix operations		RCLIJ	
F5	J- _{col}	Command	Decrement column index	Decrement column index J of indexed matrix ; wraps automatically ; does not put value on the stack ; menu button J- on [MATX.3] F5 displays value as subscript (only if indexed matrix exists) ; TI : M[I _r J _c]=<name> [<row> <col>]	Matrix operations		J-	<col>
F6	J+ _{col}	Command	Increment column index	Increment column index J of indexed matrix ; wraps automatically ; does not put value on the stack ; menu button J+ on [MATX.3] F6 displays value as subscript (only if indexed matrix exists) ; TI : M[I _r J _c]=<name> [<row> <col>]	Matrix operations		J+	<col>
fF1	CMIN	Function (monadic)	Minimum column value	Minimum column value for column (J) of indexed matrix, returns row index (I) in Y and minimum in X ; Info : Set starting row and column index using ST0IJ before executing CMIN	Matrix operations		M.CMIN	
fF2	CMAx	Function (monadic)	Maximum column value	Maximum column value for column (J) of indexed matrix, returns row index (I) in Y and maximum in X ; Info : Set starting row and column index using ST0IJ before executing CMAx	Matrix operations		M.CMAx	
fF3	R↔R	Command	Swap rows	Swap rows X and Y of indexed matrix	Matrix operations		M.R↔R	
fF4	C↔C	Command	Swap columns	Swap columns X and Y of indexed matrix	Matrix operations		M.C↔C	
fF5	FIND	Function (monadic)	Find element	Find element X of indexed matrix, setting row index I and column indexes if found (unchanged otherwise) ; Info : If used in a program, the next step after M.FIND is performed if the element is found, otherwise it is skipped	Matrix operations		M.FIND	
fF6	INDEX	Command	Index matrix	Index matrix in a register or variable ; set row I to 1, column J to 1 ; clear flags WRPEdG and WRPEdN ; index wraps automatically, setting these flags ; index is dropped upon exit of matrix editor ; TAM : INDEX __ Tam menu ; TI : M[I _r J _c]=<name> [<row> <col>]	Matrix operations		INDEX	
gF1	PUTM	Command	Put submatrix	Put submatrix in X into the indexed matrix starting at current element	Matrix operations		M.PUTM	
gF2	GETM	Command	Get submatrix	Get submatrix with Y rows and X columns from the indexed matrix starting at current element	Matrix operations		M.GETM	
gF3	ST0EL	Command	Store X into matrix element	Store X into current element of indexed matrix ; Shortcut : [ST0] - Config ; TI : M[I _r J _c]=<name> [<row> <col>]=	Matrix operations		ST0EL	
gF4	RCLLEL	Command	Recall matrix element	Recall current element of indexed matrix ; Shortcut : [RCL] - ...EL ; TI : M[I _r J _c]=<name> [<row> <col>]=	Matrix operations		RCLLEL	
gF5	ST0SEQ	Command	Store X into matrix element and go to next	Store X into current element of indexed matrix, then increment column index J of indexed matrix ; wraps automatically ; TI : M[I _r J _c]=<name> [<row> <col>]=	Matrix operations		ST0SEQ	
gF6	RCLSEQ	Command	Recall matrix element and go to next	Recall current element of indexed matrix, then increment column index J of indexed matrix ; wraps automatically ; TI : M[I _r J _c]=<name> [<row> <col>]=	Matrix operations		RCLSEQ	