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Appendix C
Compatible Motion Devices

The MM3000 controller is designed as part of a complete motion control system. The advantage is a significant improvement in performance and user friendliness due to a better match of the motion components.

MM3000 manages this by storing all necessary parameters for all motion devices in its firmware. As new motion devices are introduced in the future, new firmware versions will be released to incorporate them.

The following pages list all motion devices the MM3000 recognizes at the time of this printing. Use this list as a general reference, but remember that all necessary parameters for each device are stored in the controller's firmware and can be recalled by loading the TY(pe) values that are also listed. This is done with the MENU/SELECT on the front panel or by sending the appropriate TY command. Please refer to TY command description for details.

NOTE

Use the following motion device and parameter listing only for general reference. As new motion devices are added and improvements are made, the actual default values stored by the controller may vary from the current listing. If needed, contact Newport for an updated version.

Functional Listing Of The Supported Motion Devices And Their Parameters

Motion Device	Travel (mm) (deg)	Resolution (mm) (deg)	Motor/Driver Type	Motor Model	Vel. (mm/s) (deg/s)	Accel. (mm/s2) (deg/s)	Kp	Kd	KI	IL	DS	FE	TYPE
Linear Translation Stages		.5		UE 611CC	75	200	50	30	30	30	0	500	—
MFN8CC	8	0.0000555	DC	UE16CC	0.3	1.2	1500	5000	100	100	0	500	4
MFN8PP	8	0.000074	half stepper	UE16PP	0.3	1.2	N/A	N/A	N/A	N/A	N/A	N/A	1
MFN25CC	25	0.0000555	DC	UE16CC	0.3	1.2	1500	5000	100	100	0	500	4
MFN25PP	25	0.000074	half stepper	UE16PP	0.3	1.2	N/A	N/A	N/A	N/A	N/A	N/A	1
MTL100CC0.1HA	100	0.0001	DC	UE511CC	40	160	8	0	100	20	0	10000	7
MTL100CC1	100	0.001	DC	UE511CC	40	160	20	0	30	30	0	500	9
MTL100PP0.1	100	0.0001	mini stepper	UE72PP	2	8	N/A	N/A	N/A	N/A	N/A	N/A	2
MTL100PP1	100	0.001	mini stepper	UE72PP	20	80	N/A	N/A	N/A	N/A	N/A	N/A	2
MTL100PP2.54	100	0.00254	mini stepper	UE72PP	50	200	N/A	N/A	N/A	N/A	N/A	N/A	2
MTL150CC0.1HA	150	0.0001	DC	UE511CC	40	160	8	0	100	20	0	10000	7
MTL150CC1	150	0.001	DC	UE511CC	40	160	20	0	30	30	0	500	9
MTL150PP0.1	150	0.0001	mini stepper	UE72PP	2	8	N/A	N/A	N/A	N/A	N/A	N/A	2
MTL150PP1	150	0.001	mini stepper	UE72PP	20	80	N/A	N/A	N/A	N/A	N/A	N/A	2
MTL150PP2.54	150	0.00254	mini stepper	UE72PP	50	200	N/A	N/A	N/A	N/A	N/A	N/A	2
MTL200CC0.1HA	200	0.0001	DC	UE511CC	40	160	8	0	100	20	0	10000	7
MTL200CC1	200	0.001	DC	UE511CC	40	160	20	0	30	30	0	500	9
MTL200PP0.1	200	0.0001	mini stepper	UE72PP	2	8	N/A	N/A	N/A	N/A	N/A	N/A	2
MTL200PP1	200	0.001	mini stepper	UE72PP	20	80	N/A	N/A	N/A	N/A	N/A	N/A	2
MTL200PP2.54	200	0.00254	mini stepper	UE72PP	50	200	N/A	N/A	N/A	N/A	N/A	N/A	2
MTL250CC0.1HA	250	0.0001	DC	UE511CC	40	160	8	0	100	20	0	10000	7
MTL250CC1	250	0.001	DC	UE511CC	40	160	20	0	30	30	0	500	9
MTL250PP0.1	250	0.0001	mini stepper	UE72PP	2	8	N/A	N/A	N/A	N/A	N/A	N/A	2
MTL250PP1	250	0.001	mini stepper	UE72PP	20	80	N/A	N/A	N/A	N/A	N/A	N/A	2
MTL250PP2.54	250	0.00254	mini stepper	UE72PP	50	200	N/A	N/A	N/A	N/A	N/A	N/A	2

Functional Listing Of The Supported Motion Devices And Their Parameters (continued)

Motion Device	Travel (mm) (deg)	Resolution (mm) (deg)	Motor/Driver Type	Motor Model	Vel. (mm/s) (deg/s)	Accel. (mm/s2) (deg/s)	Kp	Kd	Ki	IL	DS	FE	TYPE
Linear Translation Stages (continued)													
UTM25CC0.1	25	0.0001	DC	UE33CC	5	20	1500	5000	100	100	0	500	4
UTM25CC1HL	25	0.001	DC	UE404CC	20	80	20	0	30	30	0	500	9
UTM25PP0.1	25	0.0001	mini stepper	UE32PP	2	8	N/A	N/A	N/A	N/A	N/A	N/A	2
UTM25PP1HL	25	0.001	mini stepper	UE41PP	20	80	N/A	N/A	N/A	N/A	N/A	N/A	2
UTM50CC0.1	50	0.0001	DC	UE33CC	5	20	1500	5000	100	100	0	500	4
UTM50CC0.5HA	50	0.0005	DC	UE404CC	20	80	20	0	30	30	0	500	9
UTM50CC1HL	50	0.001	DC	UE404CC	20	80	20	0	30	30	0	500	9
UTM50PP0.1	50	0.0001	mini stepper	UE32PP	2	8	N/A	N/A	N/A	N/A	N/A	N/A	2
UTM50PP1HL	50	0.001	mini stepper	UE41PP	20	80	N/A	N/A	N/A	N/A	N/A	N/A	2
UTM100CC0.1	100	0.0001	DC	UE33CC	5	20	1500	5000	100	100	0	500	4
UTM100CC0.5HA	100	0.0005	DC	UE404CC	20	80	20	0	30	30	0	500	9
UTM100CC1HL	100	0.001	DC	UE404CC	20	80	20	0	30	30	0	500	9
UTM100PP0.1	100	0.0001	mini stepper	UE32PP	2	8	N/A	N/A	N/A	N/A	N/A	N/A	2
UTM100PP1HL	100	0.001	mini stepper	UE41PP	20	80	N/A	N/A	N/A	N/A	N/A	N/A	2
UTM150CC0.1	150	0.0001	DC	UE33CC	5	20	1500	5000	100	100	0	500	4
UTM150CC0.5HA	150	0.0005	DC	UE404CC	20	80	20	0	30	30	0	500	9
UTM150CC1HL	150	0.001	DC	UE404CC	20	80	20	0	30	30	0	500	9
UTM150PP0.1	150	0.0001	mini stepper	UE32PP	2	8	N/A	N/A	N/A	N/A	N/A	N/A	2
UTM150PP1HL	150	0.001	mini stepper	UE41PP	20	80	N/A	N/A	N/A	N/A	N/A	N/A	2
UTS20CC0.1	20	0.0001	DC	UE30CC	0.125	0.5	1500	5000	100	100	0	500	6
UTS20CC0.1F	20	0.0001	DC	UE30CC	0.125	0.5	1500	5000	100	100	0	500	6
UTS20CC1	20	0.001	DC	UE30CC	1.25	5	1500	5000	100	100	0	500	4
UTS20CC1F	20	0.001	DC	UE30CC	1.25	5	1500	5000	100	100	0	500	4
UTS20PP0.1	20	0.0001	stepper	UE31PP	0.4	1.6	N/A	N/A	N/A	N/A	N/A	N/A	1
UTS20PP0.1F	20	0.0001	stepper	UE31PP	0.4	1.6	N/A	N/A	N/A	N/A	N/A	N/A	1
UTS20PP1	20	0.001	stepper	UE31PP	4	16	N/A	N/A	N/A	N/A	N/A	N/A	1
UTS20PP1F	20	0.001	stepper	UE31PP	4	16	N/A	N/A	N/A	N/A	N/A	N/A	1

Functional Listing Of The Supported Motion Devices And Their Parameters (continued)

Motion Device	Travel (mm) (deg)	Resolution (mm) (deg)	Motor/Driver Type	Motor Model	Vel. (mm/s) (deg/s)	Accel. (mm/s2) (deg/s)	Kp	Kd	KI	IL	DS	FE	TYPE
Linear Translation Stages (continued)													
TIX200CC0.1	200	0.0001	DC	UE404CC	50	200	8	0	100	20	0	10000	7
TIX200CC0.5	200	0.0005	DC	UE404CC	100	400	8	0	100	20	0	10000	7
TIX200PP0.5	200	0.0005	mini stepper	UE41PP	10	40	N/A	N/A	N/A	N/A	N/A	N/A	2
TIX200PP1	200	0.001	mini stepper	UE41PP	20	80	N/A	N/A	N/A	N/A	N/A	N/A	2
TIXY200CC0.1	200	0.0001	DC	UE404CC	50	200	8	0	100	20	0	10000	7
TIXY200CC0.5	200	0.0005	DC	UE404CC	100	400	8	0	100	20	0	10000	7
TIXY200PP0.5	200	0.0005	mini stepper	UE41PP	10	40	N/A	N/A	N/A	N/A	N/A	N/A	2
TIXY200PP1	200	0.001	mini stepper	UE41PP	20	80	N/A	N/A	N/A	N/A	N/A	N/A	2
Linear Actuators													
VM4CC	4	0.000049336	DC	UE17CC	0.2	0.8	1500	5000	100	100	0	500	6
VM4PP	4	0.000049336	half stepper	UE16PP	0.2	0.8	N/A	N/A	N/A	N/A	N/A	N/A	1
VM12.7CC	12.7	0.000049336	DC	UE17CC	0.2	0.8	1500	5000	100	100	0	500	6
VM12.7PP	12.7	0.000049336	half stepper	UE16PP	0.2	0.8	N/A	N/A	N/A	N/A	N/A	N/A	1
VM25.4CC	25.4	0.000049336	DC	UE17CC	0.2	0.8	1500	5000	100	100	0	500	6
VM25.4PP	25.4	0.000049336	half stepper	UE16PP	0.2	0.8	N/A	N/A	N/A	N/A	N/A	N/A	1
850F	--	5.00E-05	DC	--	0.5	1	1500	5000	100	100	0	500	4
850B (standard)	--	5.00E-05	DC	--	0.5	1	1500	5000	100	100	0	500	4
Vertical Translation Stages													
UZS80CC0.1	4	0.0001	DC	UE31CC	0.25	1	1500	5000	100	100	0	500	4
UZS80PP0.1	4	0.0001	mini stepper	UE41PP	2	8	N/A	N/A	N/A	N/A	N/A	N/A	2
UZM160CC0.1	9	0.0001	DC	UE506CC	2	8	100	100	100	100	0	500	8
UZM160PP0.1	9	0.0001	mini stepper	UE72PP	2	8	N/A	N/A	N/A	N/A	N/A	N/A	2

Functional Listing Of The Supported Motion Devices And Their Parameters (continued)

Motion Device	Travel (mm) (deg)	Resolution (mm) (deg)	Motor/Driver Type	Motor Model	Vel. (mm/s) (deg/s)	Accel. (mm/s2) (deg/s)	Kp	Kd	Ki	IL	DS	FE	TYPE
Rotation Stages													
URM80ACC	340	0.001	DC	UE31CC	2.5	10	1500	5000	100	100	0	500	4
URM80APP	340	0.001	mini stepper	UE41PP	20	80	N/A	N/A	N/A	N/A	N/A	N/A	2
URM80CC	340	0.001	DC	UE31CC	2.5	10	1500	5000	100	100	0	500	4
URM80PP	340	0.001	mini stepper	UE41PP	20	80	N/A	N/A	N/A	N/A	N/A	N/A	2
URM100ACC	340	0.001	DC	UE31CC	2.5	10	1500	5000	100	100	0	500	4
URM100APP	340	0.001	mini stepper	UE41PP	20	80	N/A	N/A	N/A	N/A	N/A	N/A	2
URM100CC	340	0.001	DC	UE31CC	2.5	10	1500	5000	100	100	0	500	4
URM100PP	340	0.001	mini stepper	UE41PP	20	80	N/A	N/A	N/A	N/A	N/A	N/A	2
495	360	0.001	DC	--	8	40	1500	5000	100	100	0	500	4
496	360	0.001	DC	--	4	20	1500	5000	100	100	0	500	4
Goniometric Rotation Stages													
UBG50CC	90	0.001	DC	UE31CC	2.5	10	1500	5000	100	100	0	500	4
UBG50PP	90	0.001	mini stepper	UE41PP	20	80	N/A	N/A	N/A	N/A	N/A	N/A	2
UBG80CC	90	0.001	DC	UE31CC	2.5	10	1500	5000	100	100	0	500	4
UBG80PP	90	0.001	mini stepper	UE41PP	20	80	N/A	N/A	N/A	N/A	N/A	N/A	2
UBG120CC	90	0.001	DC	UE506CC	20	80	100	100	100	100	0	500	8
UBG120PP	90	0.001	mini stepper	UE72PP	20	80	N/A	N/A	N/A	N/A	N/A	N/A	2

Alphabetical Listing Of The Supported Motion Devices And Their Parameters

Motion Device	Travel (mm) (deg)	Resolution (mm) (deg)	Motor/Driver Type	Motor Model	Vel. (mm/s) (deg/s)	Accel. (mm/s2) (deg/s)	Kp	Kd	Ki	IL	DS	FE	TYPE
495	360	0.001	DC	--	8	40	1500	5000	100	100	0	500	4
496	360	0.001	DC	--	4	20	1500	5000	100	100	0	500	4
850B (standard)	--	5.00E-05	DC	--	0.5	1	1500	5000	100	100	0	500	4
850F	--	5.00E-05	DC	--	0.5	1	1500	5000	100	100	0	500	4
MFN25CC	25	0.0000555	DC	UE16CC	0.3	1.2	1500	5000	100	100	0	500	4
MFN25PP	25	0.000074	half stepper	UE16PP	0.3	1.2	N/A	N/A	N/A	N/A	N/A	N/A	1
MFN8CC	8	0.0000555	DC	UE16CC	0.3	1.2	1500	5000	100	100	0	500	4
MFN8PP	8	0.000074	half stepper	UE16PP	0.3	1.2	N/A	N/A	N/A	N/A	N/A	N/A	1
MTL100CC0.1HA	100	0.0001	DC	UE511CC	40	160	8	0	100	20	0	10000	7
MTL100CC1	100	0.001	DC	UE511CC	40	160	20	0	30	30	0	500	9
MTL100PP0.1	100	0.0001	mini stepper	UE72PP	2	8	N/A	N/A	N/A	N/A	N/A	N/A	2
MTL100PP1	100	0.001	mini stepper	UE72PP	20	80	N/A	N/A	N/A	N/A	N/A	N/A	2
MTL100PP2.54	100	0.00254	mini stepper	UE72PP	50	200	N/A	N/A	N/A	N/A	N/A	N/A	2
MTL150CC0.1HA	150	0.0001	DC	UE511CC	40	160	8	0	100	20	0	10000	7
MTL150CC1	150	0.001	DC	UE511CC	40	160	20	0	30	30	0	500	9
MTL150PP0.1	150	0.0001	mini stepper	UE72PP	2	8	N/A	N/A	N/A	N/A	N/A	N/A	2
MTL150PP1	150	0.001	mini stepper	UE72PP	20	80	N/A	N/A	N/A	N/A	N/A	N/A	2
MTL150PP2.54	150	0.00254	mini stepper	UE72PP	50	200	N/A	N/A	N/A	N/A	N/A	N/A	2
MTL200CC0.1HA	200	0.0001	DC	UE511CC	40	160	8	0	100	20	0	10000	7
MTL200CC1	200	0.001	DC	UE511CC	40	160	20	0	30	30	0	500	9
MTL200PP0.1	200	0.0001	mini stepper	UE72PP	2	8	N/A	N/A	N/A	N/A	N/A	N/A	2
MTL200PP1	200	0.001	mini stepper	UE72PP	20	80	N/A	N/A	N/A	N/A	N/A	N/A	2
MTL200PP2.54	200	0.00254	mini stepper	UE72PP	50	200	N/A	N/A	N/A	N/A	N/A	N/A	2
MTL250CC0.1HA	250	0.0001	DC	UE511CC	40	160	8	0	100	20	0	10000	7
MTL250CC1	250	0.001	DC	UE511CC	40	160	20	0	30	30	0	500	9
MTL250PP0.1	250	0.0001	mini stepper	UE72PP	2	8	N/A	N/A	N/A	N/A	N/A	N/A	2
MTL250PP1	250	0.001	mini stepper	UE72PP	20	80	N/A	N/A	N/A	N/A	N/A	N/A	2
MTL250PP2.54	250	0.00254	mini stepper	UE72PP	50	200	N/A	N/A	N/A	N/A	N/A	N/A	2

Alphabetical Listing Of The Supported Motion Devices And Their Parameters (continued)

Motion Device	Travel (mm) (deg)	Resolution (mm) (deg)	Motor/Driver Type	Motor Model	Vel. (mm/s) (deg/s)	Accel. (mm/s2) (deg/s)	Kp	Kd	Ki	IL	DS	FE	TYPE
TIX200PP1	200	0.001	mini stepper	UE41PP	20	80	N/A	N/A	N/A	N/A	N/A	N/A	2
TIXY200CC0.1	200	0.0001	DC	UE404CC	50	200	8	0	100	20	0	10000	7
TIXY200CC0.5	200	0.0005	DC	UE404CC	100	400	8	0	100	20	0	10000	7
TIXY200PP0.5	200	0.0005	mini stepper	UE41PP	10	40	N/A	N/A	N/A	N/A	N/A	N/A	2
TIXY200PP1	200	0.001	mini stepper	UE41PP	20	80	N/A	N/A	N/A	N/A	N/A	N/A	2
UBG120CC	90	0.001	DC	UE506CC	20	80	100	100	100	100	0	500	8
UBG120PP	90	0.001	mini stepper	UE72PP	20	80	N/A	N/A	N/A	N/A	N/A	N/A	2
UBG50CC	90	0.001	DC	UE31CC	2.5	10	1500	5000	100	100	0	500	4
UBG50PP	90	0.001	mini stepper	UE41PP	20	80	N/A	N/A	N/A	N/A	N/A	N/A	2
UBG80CC	90	0.001	DC	UE31CC	2.5	10	1500	5000	100	100	0	500	4
UBG80PP	90	0.001	mini stepper	UE41PP	20	80	N/A	N/A	N/A	N/A	N/A	N/A	2
URM100ACC	340	0.001	DC	UE31CC	2.5	10	1500	5000	100	100	0	500	4
URM100APP	340	0.001	mini stepper	UE41PP	20	80	N/A	N/A	N/A	N/A	N/A	N/A	2
URM100CC	340	0.001	DC	UE31CC	2.5	10	1500	5000	100	100	0	500	4
URM100PP	340	0.001	mini stepper	UE41PP	20	80	N/A	N/A	N/A	N/A	N/A	N/A	2
URM80ACC	340	0.001	DC	UE31CC	2.5	10	1500	5000	100	100	0	500	4
URM80APP	340	0.001	mini stepper	UE41PP	20	80	N/A	N/A	N/A	N/A	N/A	N/A	2
URM80CC	340	0.001	DC	UE31CC	2.5	10	1500	5000	100	100	0	500	4
URM80PP	340	0.001	mini stepper	UE41PP	20	80	N/A	N/A	N/A	N/A	N/A	N/A	2
UTM100CC0.1	100	0.0001	DC	UE33CC	5	20	1500	5000	100	100	0	500	4
UTM100CC0.5HA	100	0.0005	DC	UE404CC	20	80	20	0	30	30	0	500	9
UTM100CC1HL	100	0.001	DC	UE404CC	20	80	20	0	30	30	0	500	9
UTM100PP0.1	100	0.0001	mini stepper	UE32PP	2	8	N/A	N/A	N/A	N/A	N/A	N/A	2
UTM100PP1HL	100	0.001	mini stepper	UE41PP	20	80	N/A	N/A	N/A	N/A	N/A	N/A	2
UTM150CC0.1	150	0.0001	DC	UE33CC	5	20	1500	5000	100	100	0	500	4
UTM150CC0.5HA	150	0.0005	DC	UE404CC	20	80	20	0	30	30	0	500	9
UTM150CC1HL	150	0.001	DC	UE404CC	20	80	20	0	30	30	0	500	9
UTM150PP0.1	150	0.0001	mini stepper	UE32PP	2	8	N/A	N/A	N/A	N/A	N/A	N/A	2
UTM150CC1DD	150	0.0001	DC	UE31CC	3	20	1500	5000	100	100	0	500	4

Alphabetical Listing Of The Supported Motion Devices And Their Parameters (continued)

Motion Device	Travel (mm) (deg)	Resolution (mm) (deg)	Motor/Driver Type	Motor Model	Vel. (mm/s) (deg/s)	Accel. (mm/s2) (deg/s)	Kp	Kd	Ki	IL	DS	FE	TYPE
UTM25PP0.1	25	0.0001	mini stepper	UE32PP	2	8	N/A	N/A	N/A	N/A	N/A	N/A	2
UTM25PP1HL	25	0.001	mini stepper	UE41PP	20	80	N/A	N/A	N/A	N/A	N/A	N/A	2
UTM50CC0.1	50	0.0001	DC	UE33CC	5	20	1500	5000	100	100	0	500	4
UTM50CC0.5HA	50	0.0005	DC	UE404CC	20	80	20	0	30	30	0	500	9
UTM50CC1HL	50	0.001	DC	UE404CC	20	80	20	0	30	30	0	500	9
UTM50PP0.1	50	0.0001	mini stepper	UE32PP	2	8	N/A	N/A	N/A	N/A	N/A	N/A	2
UTM50PP1HL	50	0.001	mini stepper	UE41PP	20	80	N/A	N/A	N/A	N/A	N/A	N/A	2
UTS20CC0.1	20	0.0001	DC	UE30CC	0.125	0.5	1500	5000	100	100	0	500	6
UTS20CC0.1F	20	0.0001	DC	UE30CC	0.125	0.5	1500	5000	100	100	0	500	6
UTS20CC1	20	0.001	DC	UE30CC	1.25	5	1500	5000	100	100	0	500	4
UTS20CC1F	20	0.001	DC	UE30CC	1.25	5	1500	5000	100	100	0	500	4
UTS20PP0.1	20	0.0001	stepper	UE31PP	0.4	1.6	N/A	N/A	N/A	N/A	N/A	N/A	1
UTS20PP0.1F	20	0.0001	stepper	UE31PP	0.4	1.6	N/A	N/A	N/A	N/A	N/A	N/A	1
UTS20PP1	20	0.001	stepper	UE31PP	4	16	N/A	N/A	N/A	N/A	N/A	N/A	1
UTS20PP1F	20	0.001	stepper	UE31PP	4	16	N/A	N/A	N/A	N/A	N/A	N/A	1
UZM160CC0.1	9	0.0001	DC	UE506CC	2	8	100	100	100	100	0	500	8
UZM160PP0.1	9	0.0001	mini stepper	UE72PP	2	8	N/A	N/A	N/A	N/A	N/A	N/A	2
UZS80CC0.1	4	0.0001	DC	UE31CC	0.25	1	1500	5000	100	100	0	500	4
UZS80PP0.1	4	0.0001	mini stepper	UE41PP	2	8	N/A	N/A	N/A	N/A	N/A	N/A	2
VM12.7CC	12.7	0.000049336	DC	UE17CC	0.2	0.8	1500	5000	100	100	0	500	6
VM12.7PP	12.7	0.000049336	half stepper	UE16PP	0.2	0.8	N/A	N/A	N/A	N/A	N/A	N/A	1
VM25.4CC	25.4	0.000049336	DC	UE17CC	0.2	0.8	1500	5000	100	100	0	500	6
VM25.4PP	25.4	0.000049336	half stepper	UE16PP	0.2	0.8	N/A	N/A	N/A	N/A	N/A	N/A	1
VM4CC	4	0.000049336	DC	UE17CC	0.2	0.8	1500	5000	100	100	0	500	6
VM4PP	4	0.000049336	half stepper	UE16PP	0.2	0.8	N/A	N/A	N/A	N/A	N/A	N/A	1

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