

MANNHEIM CITY
RWY 27

STANDARD DEPARTURE
ROUTES – INSTRUMENT
(SID)

Designator	Route	After Take-Off		Remarks
		Climb to	Contact	
1	2	3	4	5
MANEM 7W	MANEM SEVEN WHISKEY On track 257° to 4.0 DME MND; LT, on R 196 RID to 29.0 DME RID; RT, intercept R082 ZWN to MANEM (△). Climb with 6.8% (413 ft/NM) or more until passing 600. GPS/FMS RNAV: [A800+] - FM050[L] - FM052[R] - MANEM.	5000 ft	Langen Radar 129.350	1. PDG 6.8% (413 ft/NM) due to obstacles. 2. During activity of ED-R205 (TRA) MAX FL80.
OLIVI 3W	OLIVI THREE WHISKEY On track 257° to 6.0 DME MND; RT, on track 334° to KOSAX (△); LT, on track 295° to OLIVI (△). Climb with 7.9% (480 ft/NM) or more until passing 3000, then climb with 6.4% (390 ft/NM) or more until passing 6000. GPS/FMS RNAV: [A 800+] - FM053[R] - KOSAX[A6000+; L] - OLIVI.			1. PDG 7.9% (480 ft/NM) due to obstacles. If unable to comply, request alternative instruction by ATC. 2. PDG 6.4% (390 ft/NM) due to airspace structure. 3. After 6.0 DME MND BRNAV equipment necessary. 4. During activity of ED-R 205 (TRA) MAX FL80.
RINEX 2W	RINEX TWO WHISKEY On track 257° to 4.0 DME MND; LT, intercept R196 RID to 26.0 DME RID; LT, on bearing 082° inbound NKR to RINEX (△). Climb with 6.8% (413 ft/NM) or more until passing 600. Cross RINEX at 5000 or above. GPS/FMS RNAV: [A800+] - FM050[L] - <u>FM004</u> [L] - FM005 - RINEX[A5000+].			PDG 6.8% (413 ft/NM) due to obstacles.
ROLSO 2W	ROLSO TWO WHISKEY On track 257° to 4.0 DME MND; LT, intercept R196 RID to 26.0 DME RID; LT, on bearing 082° via RINEX (△) to NKR NDB (△); RT, on track 086° NKR to ROLSO (△). Climb with 6.8% (413 ft/NM) or more until passing 600. Cross RINEX at 5000 or above. GPS/FMS RNAV: [A800+] - FM050[L] - <u>FM004</u> [L] - FM005 - RINEX[A5000+] - NKR[R] - ROLSO			1. PDG 6.8% (413 ft/NM) due to obstacles. 2. Flights with destination EDDF or EDFE shall file ROLSO DCT SUPIX - T163 - PSA.
UMDAS 2W	UMDAS TWO WHISKEY On track 257° to 4.0 DME MND; LT, intercept R196 RID to 26.0 DME RID; LT, on bearing 082° NKR to RINEX (△); LT, on track 060° to UMDAS (△). Climb with 6.8% (413 ft/NM) or more until passing 600. Cross RINEX at 5000 or above. GPS/FMS RNAV: [A800+] - FM050[L] - <u>FM004</u> [L] - FM005 - RINEX[A5000+; L] - UMDAS.			1. PDG 6.8% (413 ft/NM) due to obstacles. 2. After RINEX BRNAV equipment necessary.

(Sample: FM004 fly-over waypoint)

Contact Langen Radar immediately after take-off!