

MANNHEIM CITY
RWY 27

STANDARD DEPARTURE
ROUTES – INSTRUMENT
(SID)

Designator	Route	After Take-Off		Remarks
		Climb to	Contact	
1	2	3	4	5
MANEM 8W	MANEM EIGHT WHISKEY On track 256° to 4.0 DME MND; LT, on R195 RID to 29.0 DME RID; RT, intercept R081 ZWN / track 261° from NKR to MANEM (Δ). 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 129.355	1. PDG 6.8% (413 ft/NM) due to obstacles. 2. During activity of ED-R205 (TRA) MAX FL80.
OLIVI 4W	OLIVI FOUR WHISKEY On track 256° to 6.0 DME MND; RT, on track 333° to KOSAX (Δ); LT, on track 294° to OLIVI (Δ). 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 3W	RINEX THREE WHISKEY On track 256° to 4.0 DME MND; LT, intercept R195 RID to 26.0 DME RID; LT, on bearing 081° inbound NKR to RINEX (Δ). Climb with 6.8% (413 ft/NM) or more until passing 600. Cross RINEX at 5000 or above. GPS/FMS RNAV: [A800+] - FM050[L] - FM004[L] - FM005 - RINEX[A5000+].			PDG 6.8% (413 ft/NM) due to obstacles.
ROLSO 3W	ROLSO THREE WHISKEY On track 256° to 4.0 DME MND; LT, intercept R195 RID to 26.0 DME RID; LT, on bearing 081° via RINEX (Δ) to NKR NDB (Δ); RT, on track 085° NKR to ROLSO (Δ). Climb with 6.8% (413 ft/NM) or more until passing 600. Cross RINEX at 5000 or above. GPS/FMS RNAV: [A800+] - FM050[L] - FM004[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 3W	UMDAS THREE WHISKEY On track 256° to 4.0 DME MND; LT, intercept R195 RID to 26.0 DME RID; LT, on bearing 081° NKR to RINEX (Δ); LT, on track 060° to UMDAS (Δ). Climb with 6.8% (413 ft/NM) or more until passing 600. Cross RINEX at 5000 or above. GPS/FMS RNAV: [A800+] - FM050[L] - FM004[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!