

A sample of data collected using Z9 with 400 2.8TC while tracking an Osprey diving for fish in a local storm water pond. I used Exif tool to get an idea of subject distances (not accurate; however, it gives a sense of relative closeness of the bird). The data are collected mostly at the following subject distance readings: 147.52m, 73.76m, 49.17m. The table below shows the subject distance of 73.76m. Accuracy is slightly worse off at 147.52m.

Date	Shooting Parameters	Diving In/Out	Comments	Frames in focus	Frames out of focus	Accuracy (%)
28-Aug-2024	Auto Area AF, Block Shot 5, 784mm (internal 1.4x and external 1.4x), f6.3, 1/2000	In	Tracked all the way from above the tree line to water against willow tree and cattails. All frames (5817-5850) are in focus	34	0	100
		Out	Coming out of water. Bird was relatively close. It flew sideways, sometime turning its head towards me and eventually flew away from me. All frames (5860 - 5968) are in focus.	109	0	100
27-Aug-2024	Auto Area AF, Block Shot 5, 800mm, f6.3, 1/3200	In	Diving in. All frames (4718-4736) are in focus	19	0	100
		Out	Coming out of water: Came out sideways, turned slightly to face me and then veered left to fly away. All but two frames between 4747 and 4861 are in focus	113	2	98
		In	Diving close to bullrushes. All frames (4894-4911) are in focus	18	0	100
		Out	Coming out of water with a goldfish. Close to bullrushes; however, facing me. All but two frames (4922-5018) are in focus	95	2	98

Date	Shooting Parameters	Diving In/Out	Comments	Frames in focus	Frames out of focus	Accuracy (%)
25-Aug-2024	Auto Area AF, Block Shot 5, 800mm, f5.6, 1/3200	In	The bird started diving in and then aborted a few meters above water. It then flew towards me, veered left and continued. All frames were in focus	88	0	100
		In	Diving: All frames but one. were in focus.	30	1	97
		Out	Out of Water: No fish. It took off towards me and then veered slightly left. All frames are in focus.	62	0	100
		In	Tracked all diving frames above tree line to water, the bird was behind bush towards the end. Didn't get the final going-in shot.	20	0	100
		Out	Coming out of water: Had to move sideways to track, by that time the bird was already in air, no fish. It veered to the right. All frames in focus.	29	0	100
		In	All diving shots from above tree line to water were in focus.	25	0	100
		Out	Out of water: The bird came out slightly sideways and flew towards me, veered left, and went parallel for a while before turning away. All frames in focus	185	0	100
		In	All diving shots from above tree line to water were in focus.	26	0	100

Date	Shooting Parameters	Diving In/Out	Comments	Frames in focus	Frames out of focus	Accuracy (%)
25-Aug-2024	Auto Area AF, Block Shot 5, 800mm, f5.6, 1/3200	Out	Coming out of water. The bird caught a big fish, dragged it for a while and then let go. It flew sideways, sometimes behind a bush. All frames shot are in focus.	72	0	100
		In	All diving frames (3882-3900) are in focus	19	0	100
		Out	Came out of water with no fish and flew sideways, partway behind a bush. A few frames lost focus as a result.	58	6	91
		In	All diving frames (4003-4023) are in focus	21	0	100
		Out	The bird caught a big fish, tried a few times to lift it up, unable to do so at the end. It took off without the fish. All frames in focus.	78	0	100
23-Aug-24	Auto Area AF, Block Shot 5, 784mm, f5.6, 1/3200	Out	I wasn't ready for diving in shots. The bird dove closer than the previous few times. While coming out of the water the bird turned and flew towards me. All frames in focus: 9724-9778	59	0	100
		In	All diving frames (9816-9834), starting from top of tree line to water, are in focus.	19	0	100
		Out	Out of water. The bird flew away from me, all but shots; however, all frames (7843-7376) are in focus	34	0	100

Date	Shooting Parameters	Diving In/Out of water	Comments	Frames in focus	Frames out of focus	Accuracy (%)
23-Aug-24	Auto Area AF, Block Shot 5, 784mm, f5.6, 1/3200	In	Diving bird. All frame (0356-0376) from sky to water are in focus.	21	0	100
		Out	Out of water: Flew sideways initially and then away from me. All frames (0380-0416) are in focus.	37	0	100
		In	Bird diving in. All frames but one, from above tree line to water, are in focus.	16	1	94
		Out	Out of water. In focus frames: 900-924 and 938-968. Out of focus: 925-937. Auto Focus was on water in front - probably my fault for not acquiring the proper focus.	56	13	77
		In	Diving in. The bird was in relatively close distance. Some frames lost focus against contrasty background, but las two frames before entering water were in focus.	16	3	81
		Out	Out of water. All frames between 1014 and 1072 are in focus.	59	0	100