

This document contains a detailed overview of the signal accuracies per assessment task. Signal accuracy is described as mean 3D distance of zero shifted signals, Pearson’s correlation coefficient (r) and Signal to noise ratios (SNR).

Joint name	3D 3D Diff	r ML	r V	r AP	SNR ML	SNR V	SNR AP
ankleL	0.02 (0.01)	0.61 (0.30)	-0.02 (0.48)	0.62 (0.29)	-5.43 (5.04)	-20.99 (6.04)	-7.09 (4.19)
ankleR	0.02 (0.01)	0.60 (0.30)	-0.01 (0.45)	0.74 (0.28)	-4.00 (5.97)	-20.60 (6.71)	-7.13 (5.53)
elbowL	0.02 (0.01)	0.89 (0.21)	1.00 (0.00)	1.00 (0.01)	8.31 (4.60)	21.08 (3.17)	23.37 (3.87)
elbowR	0.02 (0.01)	0.90 (0.20)	1.00 (0.01)	1.00 (0.01)	8.32 (4.74)	21.54 (3.28)	23.18 (3.59)
footL	0.04 (0.02)	0.22 (0.33)	-0.56 (0.24)	0.10 (0.26)	-15.53 (6.37)	-27.54 (4.71)	-28.66 (7.86)
footR	0.04 (0.01)	0.30 (0.37)	-0.52 (0.26)	0.23 (0.30)	-14.12 (6.05)	-25.68 (4.02)	-28.25 (8.48)
handL	0.02 (0.01)	0.85 (0.19)	0.99 (0.01)	0.99 (0.01)	7.36 (4.74)	19.75 (3.70)	20.98 (3.96)
handR	0.02 (0.01)	0.80 (0.26)	0.99 (0.01)	0.99 (0.02)	6.62 (6.08)	19.06 (3.71)	20.83 (4.26)
head	0.02 (0.01)	0.87 (0.29)	1.00 (0.01)	0.99 (0.02)	8.57 (5.57)	21.87 (3.54)	23.00 (4.75)
hipL	0.02 (0.01)	0.63 (0.34)	0.99 (0.01)	0.99 (0.01)	0.59 (4.58)	19.24 (4.08)	19.78 (3.90)
hipR	0.02 (0.01)	0.57 (0.41)	1.00 (0.01)	0.99 (0.01)	-0.66 (4.75)	19.37 (3.60)	20.02 (3.69)
kneeL	0.03 (0.01)	0.76 (0.29)	0.43 (0.39)	0.50 (0.47)	5.02 (5.10)	-6.79 (5.35)	1.97 (5.06)
kneeR	0.03 (0.01)	0.84 (0.26)	0.44 (0.36)	0.53 (0.47)	6.97 (6.12)	-6.73 (5.45)	2.36 (4.95)
neck	0.02 (0.01)	0.85 (0.23)	0.99 (0.01)	0.99 (0.02)	6.83 (5.25)	17.42 (2.63)	21.94 (4.04)
shoulderL	0.02 (0.01)	0.83 (0.25)	1.00 (0.01)	0.99 (0.02)	5.30 (4.80)	23.77 (4.00)	18.84 (2.90)
shoulderR	0.02 (0.01)	0.87 (0.23)	1.00 (0.01)	0.99 (0.01)	6.95 (4.57)	23.99 (4.07)	18.37 (2.46)
spineBase	0.02 (0.01)	0.64 (0.35)	0.99 (0.01)	0.99 (0.01)	0.37 (4.79)	18.87 (3.41)	19.41 (3.96)
spineMid	0.02 (0.01)	0.79 (0.32)	1.00 (0.01)	1.00 (0.01)	5.18 (5.46)	22.57 (4.00)	23.73 (4.74)
spineShoulder	0.02 (0.01)	0.85 (0.27)	1.00 (0.01)	1.00 (0.01)	7.16 (5.20)	21.50 (3.33)	23.54 (4.47)
wristL	0.02 (0.01)	0.84 (0.20)	1.00 (0.00)	1.00 (0.01)	7.00 (4.57)	21.02 (3.29)	22.27 (4.00)
wristR	0.02 (0.01)	0.77 (0.27)	1.00 (0.01)	0.99 (0.01)	5.20 (6.17)	20.87 (3.94)	21.21 (4.04)

Table 1: SAS

Joint name	3D Diff	r ML	r V	r AP	SNR ML	SNR V	SNR AP
ankleL	0.07 (0.02)	0.71 (0.30)	0.53 (0.21)	1.00 (0.00)	0.10 (5.44)	1.50 (1.26)	24.50 (5.39)
ankleR	0.08 (0.03)	0.63 (0.31)	0.43 (0.22)	0.99 (0.01)	-1.56 (4.81)	0.82 (1.51)	20.40 (4.81)
elbowL	0.03 (0.00)	0.86 (0.12)	0.38 (0.30)	1.00 (0.00)	5.10 (3.18)	-5.28 (3.15)	38.39 (2.35)
elbowR	0.02 (0.00)	0.85 (0.13)	0.47 (0.30)	1.00 (0.00)	4.41 (3.26)	-2.37 (3.05)	39.49 (2.56)
footL	0.09 (0.02)	0.60 (0.28)	0.19 (0.18)	0.99 (0.01)	-1.95 (4.57)	-4.36 (1.62)	19.41 (3.17)
footR	0.10 (0.03)	0.56 (0.28)	0.14 (0.21)	0.99 (0.01)	-2.77 (3.85)	-6.67 (2.84)	17.69 (2.93)
handL	0.03 (0.01)	0.86 (0.13)	0.90 (0.10)	1.00 (0.00)	4.70 (4.26)	7.34 (2.54)	33.77 (4.40)
handR	0.03 (0.01)	0.84 (0.18)	0.86 (0.10)	1.00 (0.00)	4.85 (4.75)	6.54 (3.27)	36.43 (4.26)
head	0.02 (0.00)	0.86 (0.16)	0.80 (0.16)	1.00 (0.00)	3.63 (3.99)	4.03 (4.92)	43.29 (1.33)
hipL	0.02 (0.00)	0.83 (0.16)	0.71 (0.15)	1.00 (0.00)	1.78 (3.39)	1.82 (3.49)	36.02 (2.70)
hipR	0.02 (0.00)	0.83 (0.16)	0.71 (0.15)	1.00 (0.00)	2.06 (3.34)	2.19 (3.63)	34.87 (1.99)
kneeL	0.04 (0.01)	0.76 (0.20)	0.20 (0.21)	1.00 (0.00)	0.58 (3.68)	-4.06 (1.57)	30.24 (2.38)
kneeR	0.04 (0.01)	0.73 (0.25)	0.12 (0.23)	1.00 (0.00)	0.37 (3.97)	-4.25 (1.75)	28.94 (2.36)
neck	0.02 (0.00)	0.85 (0.14)	0.80 (0.19)	1.00 (0.00)	3.89 (3.53)	5.01 (5.27)	42.85 (0.82)
shoulderL	0.02 (0.00)	0.83 (0.18)	0.81 (0.14)	1.00 (0.00)	2.47 (4.31)	4.76 (3.92)	40.59 (1.61)
shoulderR	0.02 (0.00)	0.87 (0.15)	0.82 (0.12)	1.00 (0.00)	3.63 (4.72)	4.60 (3.73)	40.61 (1.71)
spineBase	0.02 (0.00)	0.79 (0.19)	0.79 (0.13)	1.00 (0.00)	0.72 (3.71)	2.92 (4.61)	39.14 (1.97)
spineMid	0.02 (0.00)	0.82 (0.18)	0.83 (0.13)	1.00 (0.00)	1.23 (3.87)	5.02 (4.90)	42.69 (1.42)
spineShoulder	0.02 (0.00)	0.82 (0.19)	0.83 (0.14)	1.00 (0.00)	1.24 (4.24)	5.32 (4.77)	43.31 (0.80)
wristL	0.03 (0.01)	0.85 (0.15)	0.93 (0.06)	1.00 (0.00)	3.95 (3.86)	8.02 (3.37)	34.30 (3.74)
wristR	0.02 (0.00)	0.84 (0.18)	0.89 (0.08)	1.00 (0.00)	3.63 (3.81)	6.00 (3.62)	35.84 (3.06)

Table 2: SWCS

Joint name	3D Diff	r ML	r V	r AP	SNR ML	SNR V	SNR AP
ankleL	0.08 (0.04)	0.72 (0.34)	0.55 (0.19)	1.00 (0.01)	1.97 (5.76)	1.60 (1.54)	22.59 (5.16)
ankleR	0.10 (0.04)	0.67 (0.32)	0.38 (0.27)	0.99 (0.01)	0.10 (5.57)	0.28 (1.61)	19.18 (4.51)
elbowL	0.03 (0.01)	0.79 (0.21)	0.16 (0.34)	1.00 (0.00)	3.14 (3.99)	-3.42 (3.83)	34.84 (3.18)
elbowR	0.03 (0.01)	0.76 (0.24)	0.29 (0.33)	1.00 (0.00)	1.83 (4.51)	-0.95 (2.85)	35.58 (2.64)
footL	0.10 (0.04)	0.65 (0.32)	0.15 (0.22)	0.99 (0.01)	-0.38 (5.14)	-4.80 (2.40)	17.80 (2.94)
footR	0.12 (0.04)	0.62 (0.31)	0.13 (0.24)	0.99 (0.01)	-1.24 (5.11)	-6.44 (2.79)	16.32 (2.85)
handL	0.04 (0.01)	0.91 (0.12)	0.93 (0.06)	1.00 (0.00)	8.39 (4.51)	9.04 (3.26)	30.78 (4.27)
handR	0.03 (0.01)	0.91 (0.11)	0.87 (0.18)	1.00 (0.00)	8.74 (5.44)	7.64 (4.10)	32.15 (4.41)
head	0.02 (0.00)	0.88 (0.17)	0.76 (0.20)	1.00 (0.00)	3.61 (4.12)	2.77 (5.51)	43.22 (2.17)
hipL	0.03 (0.01)	0.80 (0.20)	0.58 (0.29)	1.00 (0.00)	1.99 (3.69)	1.83 (3.88)	32.97 (2.96)
hipR	0.03 (0.01)	0.81 (0.19)	0.63 (0.31)	1.00 (0.00)	2.16 (3.77)	2.74 (4.08)	32.39 (2.50)
kneeL	0.05 (0.01)	0.76 (0.24)	0.03 (0.28)	1.00 (0.00)	2.05 (4.83)	-3.13 (2.06)	26.38 (3.22)
kneeR	0.06 (0.02)	0.76 (0.25)	0.00 (0.26)	1.00 (0.00)	2.28 (4.32)	-3.30 (1.90)	25.90 (2.76)
neck	0.02 (0.00)	0.82 (0.20)	0.66 (0.27)	1.00 (0.00)	3.06 (4.52)	2.22 (4.81)	42.54 (2.02)
shoulderL	0.02 (0.01)	0.79 (0.30)	0.75 (0.24)	1.00 (0.00)	1.96 (4.88)	4.11 (4.65)	37.78 (2.24)
shoulderR	0.02 (0.01)	0.84 (0.22)	0.76 (0.25)	1.00 (0.00)	3.01 (5.51)	3.97 (4.76)	38.16 (2.37)
spineBase	0.02 (0.01)	0.77 (0.28)	0.75 (0.20)	1.00 (0.00)	-0.63 (4.89)	3.62 (4.70)	38.34 (2.51)
spineMid	0.02 (0.00)	0.74 (0.33)	0.78 (0.21)	1.00 (0.00)	-0.19 (5.11)	4.84 (4.86)	43.01 (2.22)
spineShoulder	0.02 (0.00)	0.70 (0.33)	0.80 (0.23)	1.00 (0.00)	0.42 (4.88)	5.40 (5.37)	42.89 (1.74)
wristL	0.03 (0.01)	0.89 (0.16)	0.93 (0.07)	1.00 (0.00)	7.06 (4.48)	8.41 (3.80)	31.44 (4.24)
wristR	0.03 (0.01)	0.90 (0.14)	0.86 (0.14)	1.00 (0.00)	7.13 (5.52)	6.26 (4.62)	32.39 (3.55)

Table 3: SWMS

Joint name	3D Diff	r ML	r V	r AP	SNR ML	SNR V	SNR AP
ankleL	0.06 (0.02)	0.74 (0.12)	0.15 (0.21)	1.00 (0.00)	2.78 (2.86)	-1.98 (2.55)	24.69 (2.48)
ankleR	0.06 (0.01)	0.87 (0.09)	0.10 (0.23)	1.00 (0.00)	6.88 (3.44)	-2.37 (2.58)	24.58 (2.48)
elbowL	0.02 (0.00)	0.89 (0.10)	0.51 (0.24)	1.00 (0.00)	5.16 (3.82)	-2.10 (4.14)	38.93 (3.14)
elbowR	0.02 (0.01)	0.82 (0.18)	0.51 (0.26)	1.00 (0.00)	5.28 (5.30)	-1.50 (4.49)	38.90 (3.48)
footL	0.07 (0.02)	0.67 (0.13)	-0.05 (0.16)	1.00 (0.00)	1.27 (2.40)	-8.39 (3.71)	21.72 (1.57)
footR	0.08 (0.02)	0.80 (0.12)	-0.07 (0.15)	1.00 (0.00)	4.56 (2.79)	-9.17 (3.58)	21.63 (1.72)
handL	0.02 (0.01)	0.94 (0.08)	0.69 (0.20)	1.00 (0.00)	8.46 (4.58)	1.76 (4.35)	35.10 (3.63)
handR	0.02 (0.01)	0.84 (0.15)	0.69 (0.21)	1.00 (0.00)	4.91 (5.60)	2.05 (4.57)	35.59 (4.04)
head	0.02 (0.01)	0.92 (0.07)	0.58 (0.42)	1.00 (0.00)	7.20 (4.11)	1.97 (5.38)	40.10 (2.60)
hipL	0.02 (0.00)	0.85 (0.10)	0.50 (0.32)	1.00 (0.00)	3.00 (3.50)	-1.75 (3.51)	37.91 (2.13)
hipR	0.02 (0.00)	0.85 (0.11)	0.45 (0.35)	1.00 (0.00)	3.33 (3.55)	-2.12 (3.83)	37.66 (2.25)
kneeL	0.04 (0.01)	0.79 (0.09)	0.21 (0.20)	1.00 (0.00)	2.75 (2.04)	-4.64 (2.01)	28.05 (2.06)
kneeR	0.04 (0.01)	0.86 (0.08)	0.25 (0.16)	1.00 (0.00)	5.09 (2.76)	-4.64 (1.79)	28.67 (1.97)
neck	0.02 (0.00)	0.90 (0.08)	0.07 (0.43)	1.00 (0.00)	6.44 (3.51)	-7.20 (4.87)	37.64 (3.36)
shoulderL	0.02 (0.00)	0.90 (0.07)	0.51 (0.38)	1.00 (0.00)	5.89 (3.71)	0.16 (4.20)	40.21 (2.08)
shoulderR	0.02 (0.00)	0.89 (0.11)	0.53 (0.32)	1.00 (0.00)	7.11 (4.49)	-0.81 (4.99)	39.99 (2.49)
spineBase	0.02 (0.00)	0.83 (0.14)	0.51 (0.44)	1.00 (0.00)	2.46 (3.57)	-3.68 (4.98)	39.74 (2.60)
spineMid	0.02 (0.00)	0.88 (0.10)	0.38 (0.50)	1.00 (0.00)	3.94 (3.62)	-2.26 (5.30)	38.55 (3.32)
spineShoulder	0.02 (0.01)	0.90 (0.08)	0.22 (0.46)	1.00 (0.00)	5.39 (3.87)	-3.29 (4.56)	36.86 (3.45)
wristL	0.02 (0.01)	0.93 (0.08)	0.66 (0.21)	1.00 (0.00)	7.14 (4.77)	0.20 (4.26)	36.45 (2.78)
wristR	0.02 (0.00)	0.83 (0.16)	0.63 (0.24)	1.00 (0.00)	4.16 (4.90)	0.74 (4.88)	37.03 (2.96)

Table 4: SWL

Joint name	3D Diff	r ML	r V	r AP	SNR ML	SNR V	SNR AP
ankleL	0.01 (0.01)	0.35 (0.36)	-0.03 (0.32)	0.21 (0.30)	-16.01 (9.02)	-21.76 (7.58)	-15.34 (8.25)
ankleR	0.01 (0.01)	0.32 (0.31)	-0.05 (0.29)	0.22 (0.32)	-18.05 (8.92)	-26.22 (8.91)	-14.79 (6.17)
elbowL	0.00 (0.00)	0.96 (0.11)	0.39 (0.31)	0.97 (0.03)	12.82 (3.65)	-1.77 (4.13)	13.58 (3.47)
elbowR	0.00 (0.00)	0.96 (0.10)	0.40 (0.29)	0.97 (0.06)	12.36 (3.58)	-1.29 (3.43)	13.90 (3.51)
footL	0.01 (0.01)	0.12 (0.28)	-0.06 (0.21)	0.05 (0.23)	-24.96 (8.80)	-37.05 (9.17)	-36.33 (12.87)
footR	0.03 (0.02)	0.10 (0.26)	0.01 (0.22)	0.04 (0.23)	-30.46 (8.87)	-41.88 (9.54)	-40.92 (14.06)
handL	0.00 (0.00)	0.88 (0.12)	0.37 (0.25)	0.88 (0.08)	6.72 (2.74)	-3.23 (4.34)	7.11 (3.33)
handR	0.00 (0.00)	0.89 (0.11)	0.31 (0.31)	0.88 (0.08)	7.09 (3.09)	-4.74 (5.18)	7.39 (3.54)
head	0.00 (0.00)	0.96 (0.11)	0.60 (0.32)	0.97 (0.06)	13.06 (3.50)	-4.15 (5.62)	14.05 (3.76)
hipL	0.00 (0.00)	0.92 (0.12)	0.26 (0.39)	0.97 (0.03)	9.34 (3.19)	-1.90 (3.43)	11.89 (2.79)
hipR	0.00 (0.00)	0.93 (0.11)	0.44 (0.40)	0.96 (0.05)	9.47 (3.11)	0.07 (3.81)	11.38 (2.79)
kneeL	0.00 (0.00)	0.83 (0.15)	-0.30 (0.32)	0.85 (0.12)	2.28 (4.04)	-13.04 (5.04)	4.84 (3.89)
kneeR	0.00 (0.00)	0.82 (0.16)	-0.26 (0.35)	0.78 (0.19)	2.95 (3.76)	-13.77 (5.76)	3.13 (5.48)
neck	0.00 (0.00)	0.95 (0.10)	-0.19 (0.40)	0.98 (0.03)	11.89 (3.67)	-6.23 (3.64)	16.00 (3.74)
shoulderL	0.00 (0.00)	0.96 (0.10)	0.66 (0.20)	0.97 (0.04)	12.78 (3.45)	2.32 (2.89)	12.89 (3.54)
shoulderR	0.00 (0.00)	0.95 (0.11)	0.59 (0.21)	0.96 (0.08)	11.09 (3.40)	-0.18 (2.97)	12.32 (3.86)
spineBase	0.00 (0.00)	0.92 (0.11)	0.34 (0.40)	0.97 (0.04)	8.85 (2.79)	-8.10 (4.16)	12.46 (2.78)
spineMid	0.00 (0.00)	0.96 (0.10)	0.55 (0.36)	0.98 (0.03)	12.14 (3.42)	0.22 (4.26)	15.01 (3.33)
spineShoulder	0.00 (0.00)	0.95 (0.10)	0.59 (0.32)	0.98 (0.03)	12.22 (4.08)	2.24 (3.76)	14.74 (3.62)
wristL	0.00 (0.00)	0.93 (0.12)	0.48 (0.31)	0.95 (0.05)	10.12 (3.17)	-0.98 (4.08)	11.13 (3.53)
wristR	0.00 (0.00)	0.93 (0.10)	0.51 (0.28)	0.95 (0.07)	9.70 (3.48)	-2.17 (5.72)	11.11 (3.66)

Table 5: SOCE

Joint name	3D Diff	r ML	r V	r AP	SNR ML	SNR V	SNR AP
ankleL	0.05 (0.01)	0.85 (0.11)	0.74 (0.22)	0.92 (0.12)	5.55 (3.43)	3.09 (1.68)	10.50 (5.92)
ankleR	0.05 (0.01)	0.88 (0.07)	0.66 (0.26)	0.94 (0.07)	7.00 (3.08)	2.37 (1.66)	11.20 (5.45)
elbowL	0.02 (0.01)	0.95 (0.05)	0.26 (0.35)	0.98 (0.02)	11.15 (3.52)	-3.15 (3.81)	15.53 (5.15)
elbowR	0.02 (0.01)	0.95 (0.06)	0.34 (0.38)	0.98 (0.03)	11.03 (4.08)	-1.32 (3.48)	15.70 (5.61)
footL	0.05 (0.01)	0.63 (0.21)	0.37 (0.41)	0.75 (0.27)	0.37 (3.63)	0.92 (2.93)	3.92 (5.60)
footR	0.05 (0.01)	0.64 (0.22)	0.22 (0.44)	0.76 (0.27)	-0.27 (4.03)	0.08 (2.91)	4.04 (6.13)
handL	0.05 (0.03)	0.91 (0.05)	0.72 (0.15)	0.94 (0.04)	7.95 (2.35)	3.13 (2.58)	10.95 (4.39)
handR	0.05 (0.04)	0.91 (0.06)	0.73 (0.16)	0.95 (0.04)	8.07 (2.49)	3.79 (3.15)	11.84 (4.85)
head	0.01 (0.00)	0.98 (0.02)	0.64 (0.20)	1.00 (0.01)	14.02 (3.75)	0.39 (4.02)	23.88 (6.65)
hipL	0.01 (0.00)	0.95 (0.06)	0.60 (0.19)	0.98 (0.02)	10.81 (3.57)	0.85 (2.48)	17.52 (5.81)
hipR	0.01 (0.00)	0.95 (0.05)	0.62 (0.27)	0.98 (0.02)	10.67 (3.38)	1.31 (3.35)	18.11 (6.16)
kneeL	0.04 (0.01)	0.86 (0.09)	0.81 (0.13)	0.95 (0.03)	5.95 (3.59)	4.58 (2.32)	10.16 (2.50)
kneeR	0.04 (0.01)	0.85 (0.11)	0.82 (0.07)	0.95 (0.03)	5.47 (3.19)	4.57 (2.08)	10.03 (2.36)
neck	0.01 (0.00)	0.98 (0.02)	0.33 (0.24)	1.00 (0.01)	11.84 (2.47)	-1.06 (2.28)	25.58 (5.58)
shoulderL	0.01 (0.00)	0.99 (0.01)	0.74 (0.22)	0.99 (0.01)	15.22 (2.73)	3.92 (2.50)	21.24 (5.49)
shoulderR	0.01 (0.00)	0.98 (0.02)	0.62 (0.23)	0.99 (0.01)	14.03 (3.12)	2.42 (2.46)	20.39 (5.07)
spineBase	0.01 (0.00)	0.95 (0.05)	0.59 (0.15)	0.99 (0.01)	11.00 (3.40)	-0.87 (2.80)	20.47 (5.84)
spineMid	0.01 (0.00)	0.98 (0.02)	0.66 (0.17)	0.99 (0.01)	14.35 (3.02)	1.39 (2.64)	23.07 (5.88)
spineShoulder	0.01 (0.00)	0.98 (0.01)	0.64 (0.18)	1.00 (0.01)	14.48 (2.62)	1.93 (2.61)	24.26 (5.86)
wristL	0.03 (0.03)	0.94 (0.05)	0.84 (0.09)	0.96 (0.04)	10.14 (3.46)	5.53 (2.57)	13.02 (4.91)
wristR	0.03 (0.03)	0.93 (0.06)	0.81 (0.13)	0.96 (0.04)	10.30 (3.80)	5.02 (3.59)	14.04 (5.57)

Table 6: STEPO