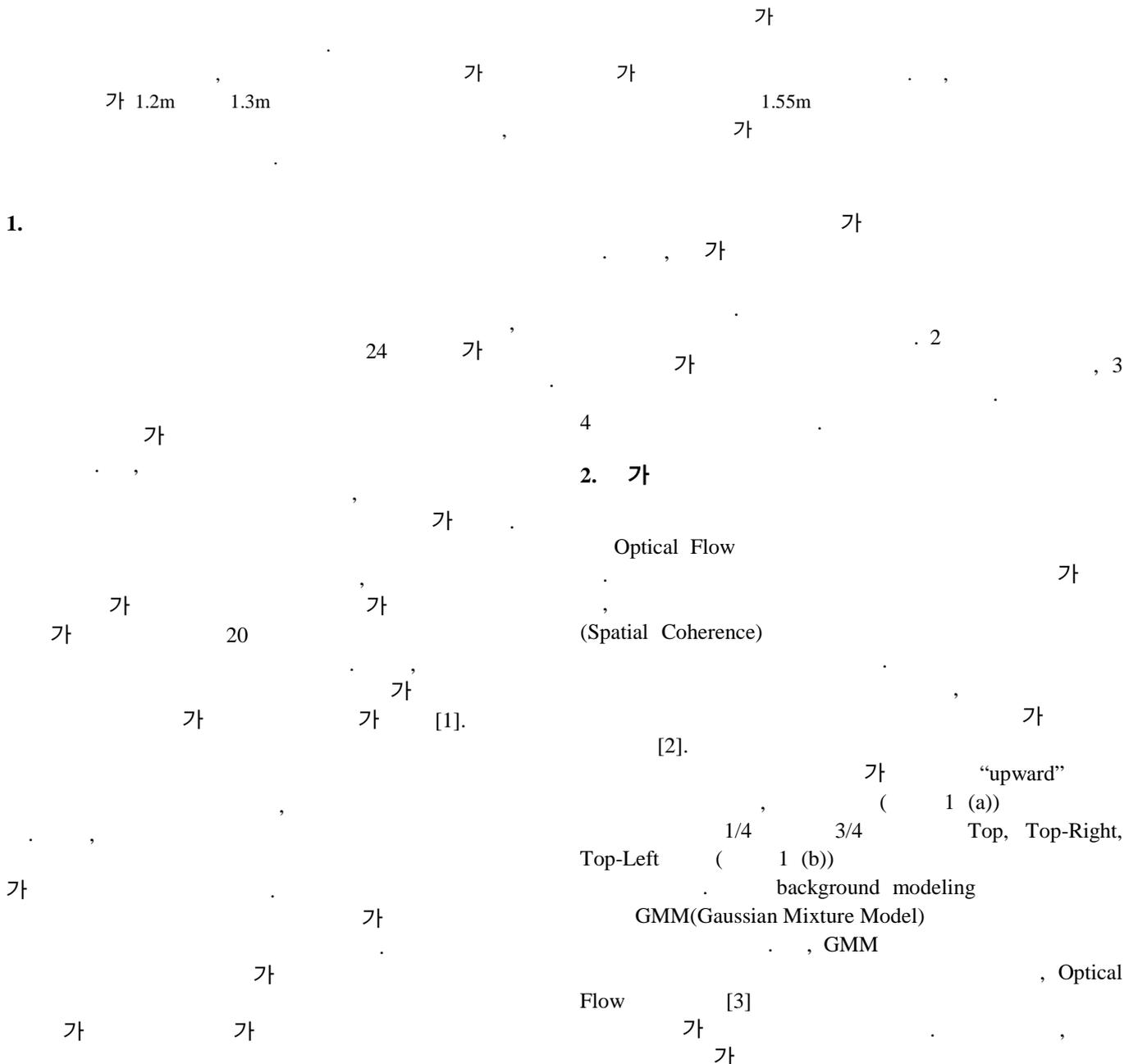


가

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Camera Position for Mounting Detection in a Korean Cattle Farm

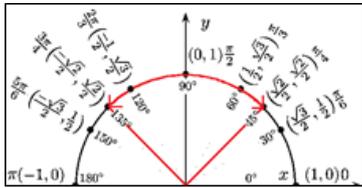
Dongwhee Choi*, Heegon Kim*, Yongwha Chung*, Daihee Park*
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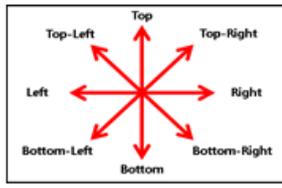
, 24 frames/sec
(1)

가 24

“가”

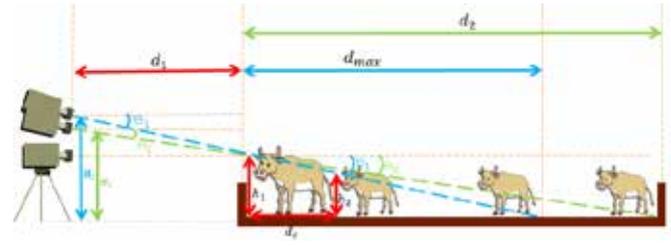


(a) 1)



(b) 8-

(1), (2), (3), (4), (5), (6), (7), (8), (9), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (21), (22), (23), (24), (25), (26), (27), (28), (29), (30), (31), (32), (33), (34), (35), (36), (37), (38), (39), (40), (41), (42), (43), (44), (45), (46), (47), (48), (49), (50), (51), (52), (53), (54), (55), (56), (57), (58), (59), (60), (61), (62), (63), (64), (65), (66), (67), (68), (69), (70), (71), (72), (73), (74), (75), (76), (77), (78), (79), (80), (81), (82), (83), (84), (85), (86), (87), (88), (89), (90), (91), (92), (93), (94), (95), (96), (97), (98), (99), (100)



(4)

$$\tan \theta_1 = \frac{h_1 - h_2}{d_c} \quad (1)$$

$$H_1 = h_1 + (d_1 \times \tan \theta_1) \quad (2)$$

, Optical Flow

$$= h_1 \times \tan \theta_1$$



(2) 가



(3) 가

가 (3), (4), H2, theta2

$$\tan \theta_2 = \frac{h_1}{d_3} \quad (3)$$

$$H_2 = h_1 + (d_1 \times \tan \theta_2) \quad (4)$$

H2, theta2, H1, h1, theta1, h2

, d1 5m, dc 2m, h1 1.3m, h2 1.2m 가, tan theta1 0.05 가, H1 1.55m, theta1 3 degree 가, dmax, d2가 dmax, H2 1.46m theta2 2 degree 가

3.

“upward”

