

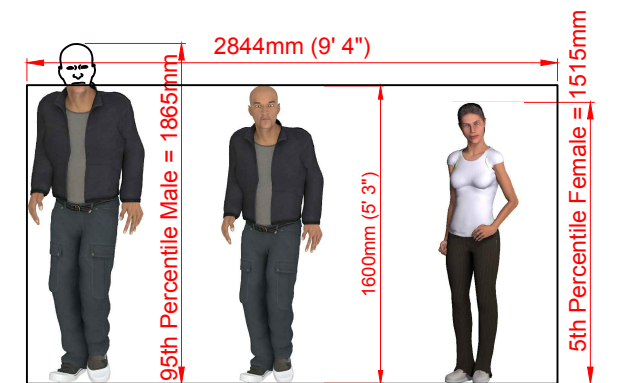
90 degree rotated Corridor View (Recognition View shown) - consider for corridors or along fencelines/walls
Note - if specifying Cameras with Corridor View - have a dedicated monitor also rotated at 90 degrees to maximise functionality

90 degree rotated 'Portal' View - Inspect Quality 1000px/m using 1080p Camera.
Consider for Doorways or Turnstiles - allows High Quality image of whole person including Clothing and Footwear

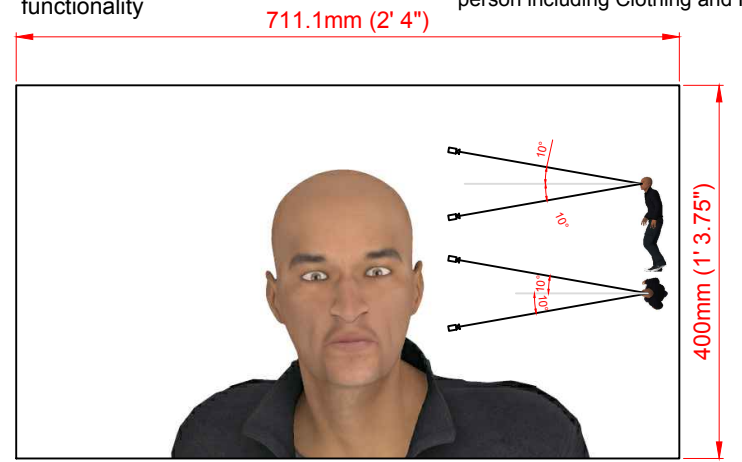
Table 3 - Person screen height equivalent for different digital resolutions (in percent)

Category	PAL	NTSC	1080p	720p	WSVGA	SVGA	4CIF	VGA	2CIF	CIF	QCIF
Inspect	400	450	150	250	300	300	300	350	600	600	1200
Identify	100	120	40	60	70	70	70	85	150	150	300
Recognise	50	60	20	30	35	35	35	45	70	70	150
Observe	25	30	10	15	20	20	20	25	35	35	70
Detect	10	10	10	10	10	10	10	10	15	15	30
Monitor	5	5	5	5	5	5	5	5	10	10	15

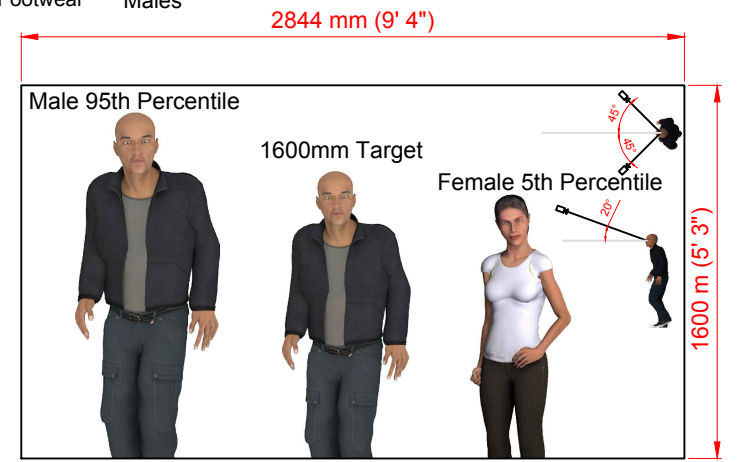
IEC 62676-4 - Table 3



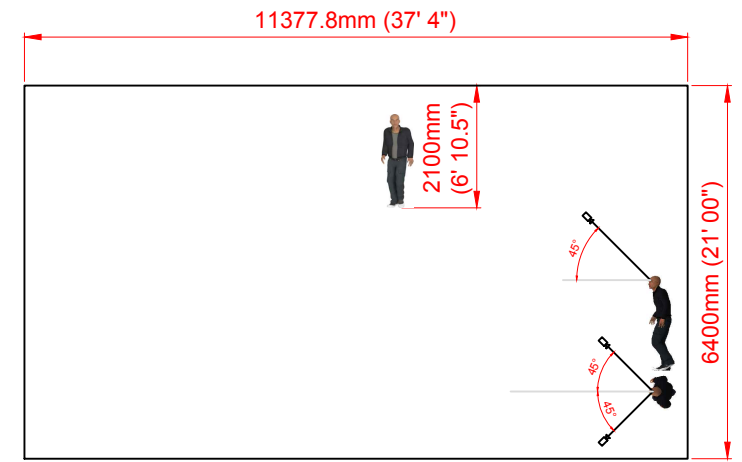
Setting up the Camera so that the 1600mm target completely fills the screen will result in taller targets extending above the edge of the image - negating the value of the camera.
It is good practice to set the height for top of screen at approximately 2100 (6' 10.5") to facilitate 99th Percentile Males



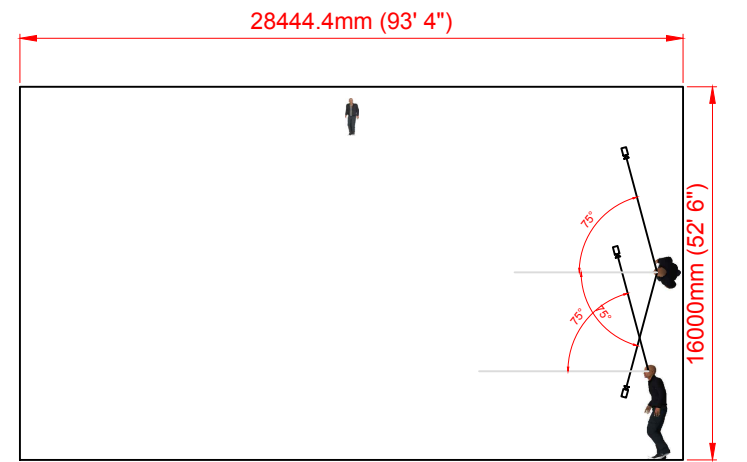
400% Screen Height = Inspect = 1000ppm / 320ppf min = 2700 pixels/metre @ 1080p. Incident Angle 10°(V) & 10°(H)



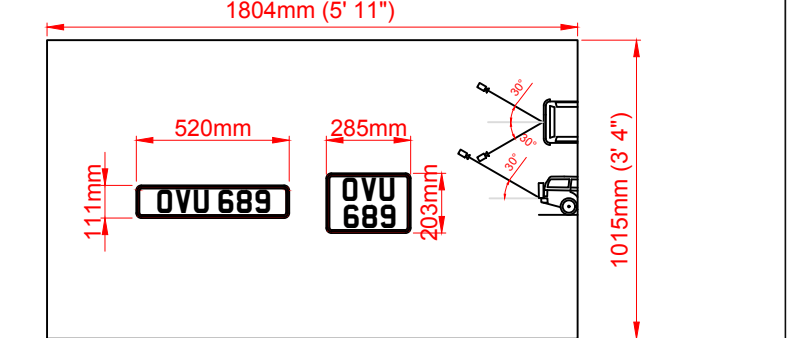
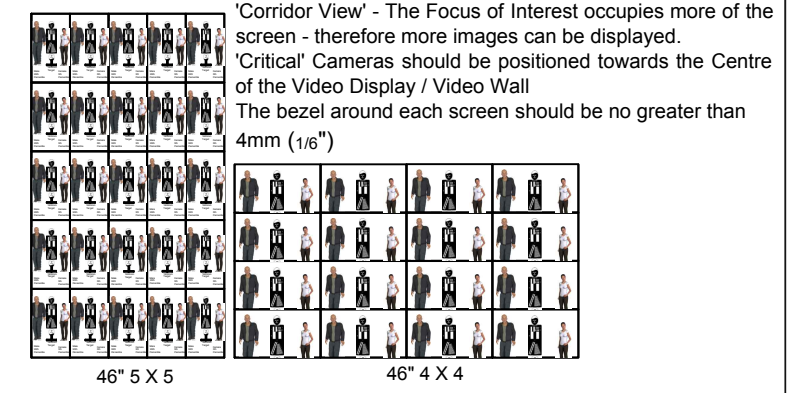
100% Screen Height = Identify = 250ppm / 80ppf min = 675 pixels/metre @ 1080p. Incident Angle 20°(V) & 45°(H)



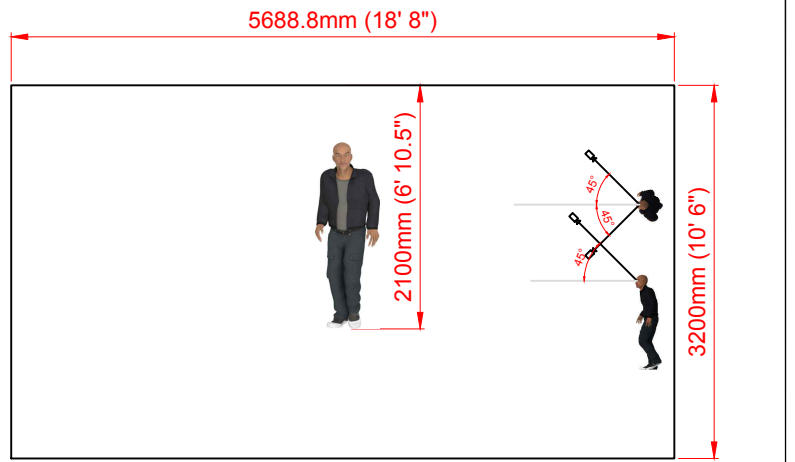
25% Screen Height = Observe = 62.5ppm / 20ppf min = 169 pixel/metre @ 1080p. Incident Angle 45°(V) & 45°(H)



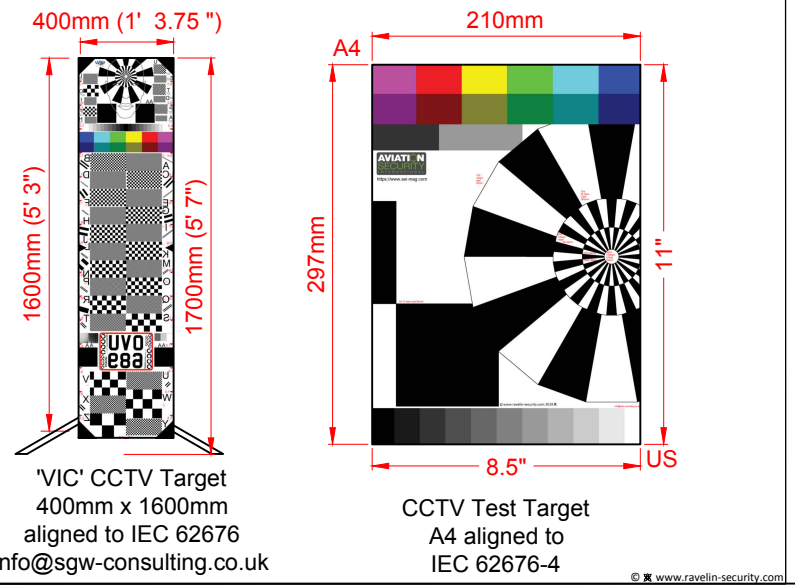
10% Screen Height = Detect = 25 ppm / 8ppf min = 68 pixels/metre @ 1080p Incident Angle 75°(V) & 75°(H)



Licence Plate View for ANPR / NPR Purposes.
Plate = 20% +/- Screen Height = 400ppm / 128ppf min = 940 ppm @ 1080p. Incident Angle 30°(V) & 30°(H)



50% Screen Height = Recognition = 125ppm / 40ppf min = 338 pixels/metre @ 1080p. Incident Angle 45°(V) & 45°(H)



Notes : Field of View Best Practice Guide
Aligned with IEC 62676 - Video Surveillance Systems for Security Applications Part 4 'Application Guidelines'

IEC 62676 Aligned 'VIC' CCTV Target is 1600mm Tall
Should be mounted on 100mm Stand
Top of Target is thus 1700mm (5' 7") tall

95th Percentile Male = 1865mm / 73.4 ins
5th Percentile Female = 1515mm / 59.6 ins

The difference in Height between Male 95th percentile and Female 5th percentile is 350mm (1' 1.75").

If you place the target in the centre of the view, anything beyond the target will not comply with the operational requirement - thus wasting a proportion of the view - set top of view at 2100mm.

Image FoV Sizes are defined by IEC 62676 - 4
5th and 95th Percentiles are in accordance with ISO 11064-3

All Screen widths shown are 'at target'. Primary FoV types is percentage screen height; secondary FoV based upon pixels per meter and must be within the ppm shown in Green

The Pixels per foot (ppf) figures have been rounded up to a logical figure thus the 40ppf figure should strictly be 37ppf.

Best practice - Incident Angle of View should be within the angle shown for each image type. IEC 62676-4 states target should face towards camera at an angle no greater than 22.5 degrees

All items subject to copyright except Table 3 extract from IEC 62676-4 2015

Rev. No.	Description	Date	Drawn	Checked	Approved

Owner :

Project :
CCTV IMAGE TYPES
FIELD OF VIEW SET-UP 2020
INCL.
RECOMMENDED INCIDENT ANGLES

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info@sgw-consulting.co.uk

Security Consultant :

Drawing Title :
Best Practice Field of View
Set-Up IEC 62676-4
Aviation Security International
https://www.asi-mag.com
+1 920 214 0140 +44 (0)20 3892 3050

Drawing No.				Rev.	
SGW-R SY-VIC-01-001				00	
Date.	Scale.	Drawn.	Checked.	Approved.	
01/01/2020	NTS	AN	SS	SW	