

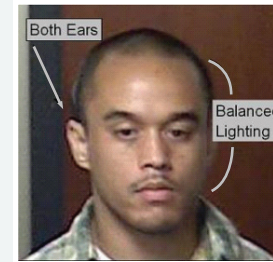
# 3VR VIDEO INTELLIGENCE PLATFORM™ FACIAL SURVEILLANCE REFERENCE SHEET



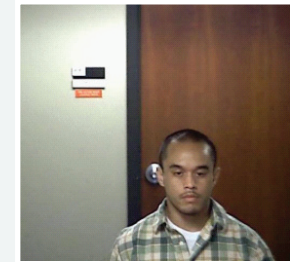
## FACE CAPTURE OPTIMIZATION

- **Balanced Lighting** — Wide dynamic range in the face.
- **Horizontal Angle** — Both ears visible.
- **Vertical Angle** — Use chart or formula below.
- **Field of view (Head Size)** — No more than 4.5 feet.  
No wider than wrists of outstretched arms.  
Face/Head at least 1/7 or 15% of width of image.

Note - Analog source



Note - Analog source (4 ft. wide)



## MAXIMUM CAMERA MOUNTING HEIGHT — Based on average face height of 5' and a maximum vertical slope of 20%

Distance to Face:	8'	10'	12'	15'	20'	25'	30'	35'	40'	50'
Max. Mounting Height:	6.6'	7'	7.4'	8'	9'	10'	11'	12'	13'	15'

$$\text{Equation: } (.2 \times D) + E = H$$

*D = Distance to Face*

*E = Average Eye Height ( 5' )*

*H = Max Mounting Height*

## LENS FOCAL LENGTH

Distance to Face:	10'	20'	30'	40'	50'	60'
4.5 ft. wide	11mm	22mm	33mm	44mm	55mm	66mm

## ADDITIONAL KEY FACTORS

<b>Traffic flow</b>	<ul style="list-style-type: none"> <li>▪ High traffic (elevator, lobby door)</li> <li>▪ Destination point (lobby desk, hallway)</li> </ul>	<ul style="list-style-type: none"> <li>▪ Where people look</li> <li>▪ Normal pace</li> </ul>
<b>Lens</b>	Varies in each application — generally recommend 5-50mm	
<b>Event Length</b>	Recommended 3 seconds (minimum 2 seconds)	
<b>Camera features</b>	<ul style="list-style-type: none"> <li>▪ Varies on application</li> <li>▪ Black &amp; white (low light)</li> </ul>	<ul style="list-style-type: none"> <li>▪ BLC (Back Light Compensation)</li> <li>▪ Manual/Auto-Iris (as appropriate to application)</li> </ul>
<b>High quality applications</b>	<ul style="list-style-type: none"> <li>▪ Bank teller station</li> <li>▪ Hallways (approx 4.5 ft wide)</li> </ul>	<ul style="list-style-type: none"> <li>▪ Entrance doors</li> <li>▪ Queue lines</li> <li>**Controlled traffic is ideal</li> </ul>
<b>Low quality applications</b>	<ul style="list-style-type: none"> <li>▪ Open lobby</li> <li>▪ Outdoor areas</li> </ul>	<ul style="list-style-type: none"> <li>▪ Entrance w/bright back light</li> <li>▪ Courtyards</li> </ul>

## MEGAPIXEL CAMERA TABLE — FOV WIDTH

Resolution	Megapixels	Width For Face (ft)
1024 x 768	0.7	6.5
1280 x 1024	1.3	8.0
1600 x 1200	2	10.5
2048 x 1536	3	13.5

## INSTANT FACE RECOGNITION FEEDBACK

For instant feedback on face capture, input the live feed, turn face finding on the appropriate channel and conduct a walk-through on that channel. Go to the Monitor panel and choose to view the "Face" event type.