









## PX40/60 Series Applications and Pixon Imaging Software Description


### Applications

|  |                            |  |
|--|----------------------------|--|
| <b>Application 1</b><br><b>Available Now</b> | <b>Day and Night</b>       | <b>daytime/night time image improvement in one package -</b>   |
| <b>Application 2</b>                         | <b>Low Light condition</b> | <b>dusk and dawn, shadow and glare, seeing night view with street light to moon light with clear details</b> |
| <b>Application 3</b>                         | <b>IR/Thermal</b>          | <b>for Infrared application</b>  |
| <b>Application 4</b>                         | <b>Noise Suppression</b>   | <b>removing noise in any images with a lot of noise</b>  |

| <b>Model</b> | <b>Name of Software</b>   | <b>How they work</b>  |
|--------------|---|---|
| <b>PX40</b>  |   |   |
|              | <ol style="list-style-type: none"> <li>1 Auto/Manual Dehazing</li> <li>2 Auto/Manual Global Contrast Enhancement</li> <li>3 Auto/Manual Pixon Contrast</li> <li>4 Auto/Manual Deblurring (real deconvolution)</li> <li>5 On/Off Exponential Temporal Averager</li> <li>6 On/Off Gamma Correction</li> <li>7 On/Off Salt &amp; Pepper Filter</li> </ol>  | <p>3-5 software is bundled into a single codec depending on applications. Each bundle can be run one at a time in real-time although the PX40 PCB can hold 3-4 bundles.</p> |
| <b>PX60</b>  |   |   |
|              | <ol style="list-style-type: none"> <li>1 Auto/Manual Dehazing</li> <li>2 Auto/Manual Global Contrast Enhancement</li> <li>3 Auto/Manual Pixon Contrast</li> <li>4 Auto/Manual Deblurring (real deconvolution)</li> <li>5 On/Off Exponential Temporal Averager</li> <li>6 On/Off Gamma Correction</li> <li>7 On/Off Salt &amp; Pepper Filter</li> <li>8 Auto/Manual Motion Adaptive Denoising</li> </ol> | <p>6 - 8 software can be run together in real-time to provide the best possible image for any application and even <u>moderate heat haze</u> is removed.</p>                |

## PX40/60 Series Examples of Processed Images

| Application  |   | Before processing   | After processing  |
|--|---|---|---|
| <b>Application 1:</b><br>Day/Night<br>Surveillance | eliminating effect of haze, fog, heavy snow/rain, smoke, and other aerosol, dawn/dusk and night time images with street light to moon light |    |    |
| <b>Application 2:</b><br>Low Light<br>condition    | dusk and dawn, shadow and glare seeing view at night with street light to moon light with more details                                      |    |    |
| <b>Application 3:</b><br>IR/Thermal                | Infrared and thermal application  |   |   |
| <b>Application 4:</b><br>Noise<br>Suppression      | removing noise in any images with a lot of noise  |  |  |

|                  |   |   |   |
|------------------|---|---|---|
| <b>PX60 Only</b> | 6-7 software working together to improve images any condition including heat haze removal |  |  |
|                  |   |   |   |



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