PMW3901 Pattern Recommendations

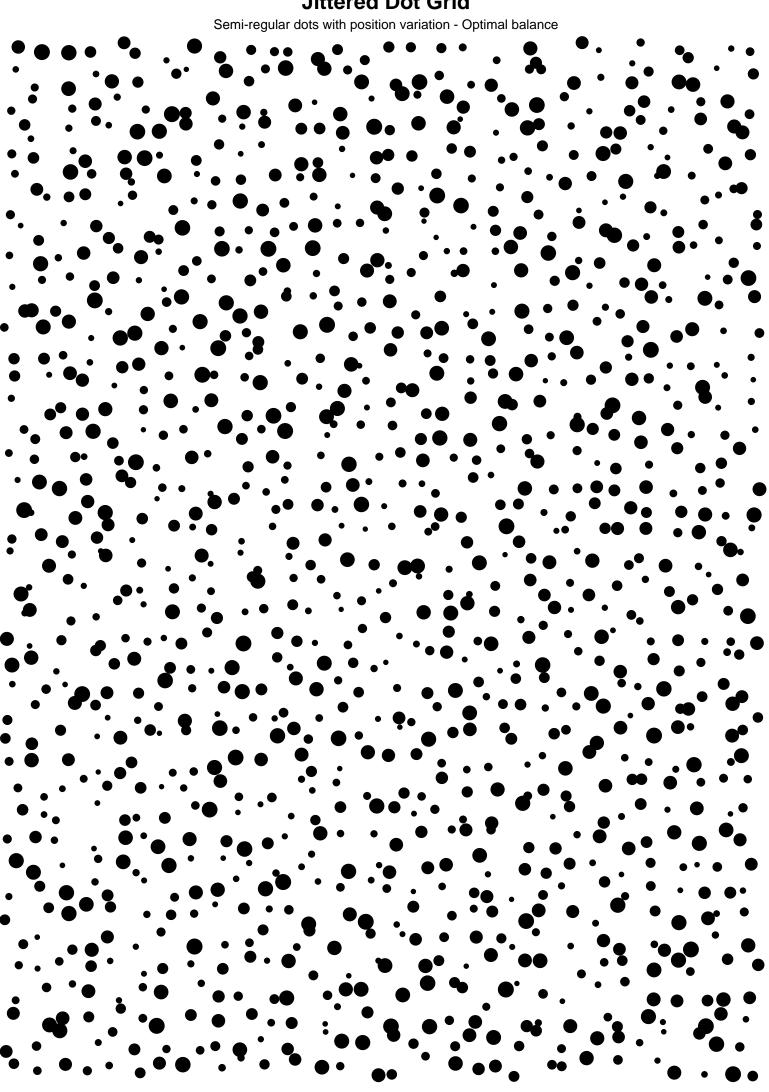
Best Patterns for PMW3901:

- 1. Jittered Dot Grid Best overall performance
 - Semi-regular spacing prevents repetition issues
 - · High contrast dots are easy to track
 - Works well at various heights (10cm 1m)
- 2. Random Circles Excellent for varied lighting
 - Non-repetitive pattern
 - Good feature density
- 3. High Frequency Pattern Maximum precision
 - Best for low altitude (< 30cm)
 - Dense features for fine movement detection

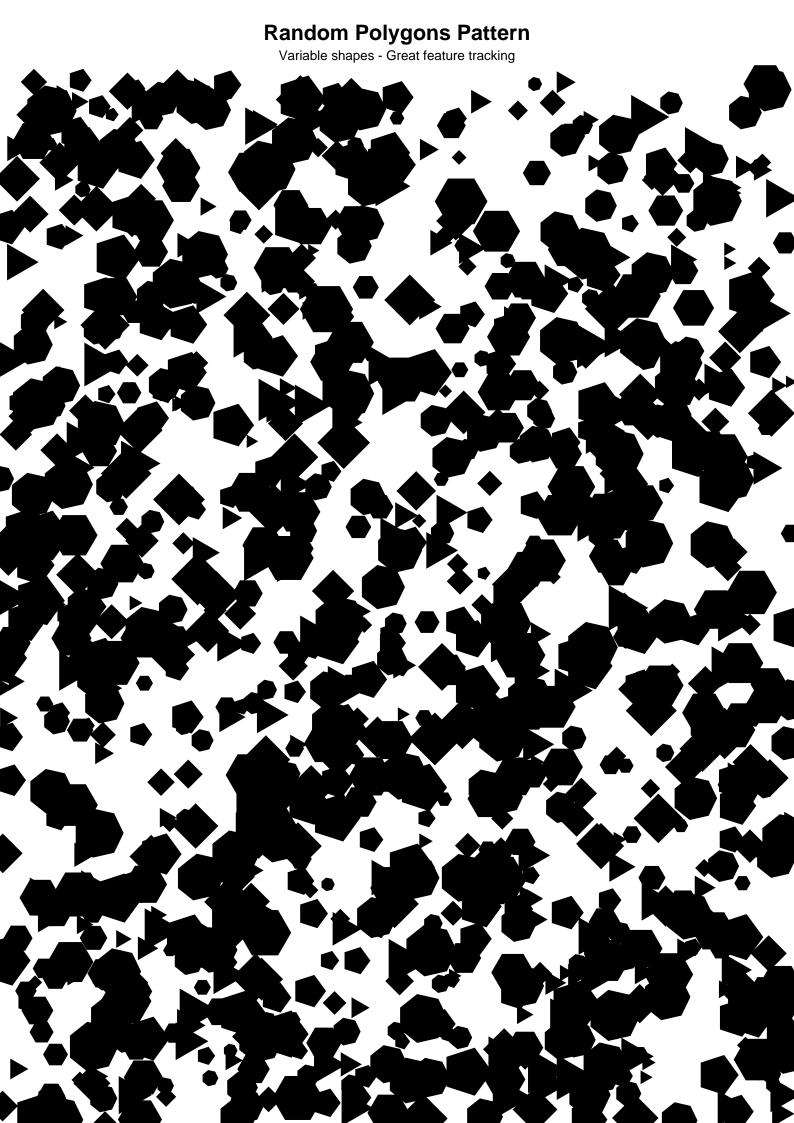
General Guidelines:

- Print Pattern: Use matte finish to avoid reflections
- Contrast: Black on white works best
- Avoid: Perfectly regular grids or repetitive patterns
- Scale: Features should be 3-20mm for optimal tracking
- Lighting: Ensure even illumination, avoid shadows
- Height: Sensor works best 10cm 80cm above pattern

Jittered Dot Grid



Random Circles Pattern High contrast, non-repetitive - Excellent tracking



Irregular Checkerboard Variable sized squares - Good for orientation tracking



High Frequency PatternDense random features - Maximum feature density

