

## SS425 Series ~ High Resolution, Low Light Sensitive Black & White Subsea Camera



SIDUS Solutions' SS425 series of cameras is a high resolution, low-light sensitive, black & white underwater camera system enabling visibility in conditions with a minimum illumination of 0.0001 lux.

The camera system was upgraded because of breakthroughs in low-light camera technology. Video output can be provided in EIA or CCIR format. The SS425 is built for tough, long-term industrial deepwater use.

- High Resolution, Low Light Sensitive
- Depth Rated 3000 meters
- Minimum Illumination:
  - -0.0001 lx F1.4 (AGC HIGH=72dB, Shutter=OFF)
  - 0.000007 lx F1.2 (AGC HIGH=72dB, Shutter=x15)

| Item Description | Material                  | Depth Rating |
|------------------|---------------------------|--------------|
| SS425            | Anodized 6061-T6 Aluminum | 3000 meters  |
| SS430            | Stainless Steel           | 3000 meters  |
| SS435            | Titanium                  | 3000 meters  |



## OPTICAL SPECIFICATIONS:

|                            |                                          |
|----------------------------|------------------------------------------|
| Camera Module              | 1/2 .8-inch BSI CMOS image sensor        |
| Number of effective pixels | 1935(H) x 1097(V)                        |
| Video Output               | Composite: 1.0 V (p-p) 75 Ohm Unbalanced |
| Resolutions                | 570TVL (EIA/CCIR)                        |
| S/N Ratio                  | Greater than 45dB (AGC Off)              |

## ENVIRONMENTAL SPECIFICATIONS:

|                       |                                       |
|-----------------------|---------------------------------------|
| Storage Temperature   | -20° C to +60° C                      |
| Operating Temperature | -10° C to 50° C                       |
| Input Power           | 12 to 24VDC                           |
| Input Current         | 400mA Max                             |
| Lens Focal Length     | 4-12mm                                |
| Angle of View         | 108° (D) x 89° (H) X 69° (V) in water |
| Object Distance       | 20cm to infinity                      |
| Iris Control          | Automatic                             |
| Focus                 | Fixed                                 |

## ENVIRONMENTAL SPECIFICATIONS:

|                      |                                                                                               |
|----------------------|-----------------------------------------------------------------------------------------------|
| Housing              | Anodized 6061-T6 Aluminum                                                                     |
| Window               | Acrylic Corrected Port                                                                        |
| Weight               | 5.5 lbs (2.5kg) in air<br>2.0 lbs (0.9kg) in water                                            |
| Dimensions           | 3.94" (Diameter) x 7.7" (Length) x 4.63" (Diameter) Bezel (without connector)                 |
| Connector            | Subconn Standard, customer selectable                                                         |
| Operating Depth      | 3000 meters                                                                                   |
| Minimum Illumination | 0.0001 lx F1.4 (AGC HIGH=72dB, Shutter=OFF),<br>0.000007 lx F1.2 (AGC HIGH=72dB, Shutter=x15) |

