



## Schilling Robotics TITAN Wrist Camera

**We put you first.  
And keep you ahead.**

The wrist camera features an integrated titanium camera housing and internal cabling, offering superior protection and eliminating cable snags and abrasion.

- » High-Resolution Color Camera
- » Integrated Titanium Housing
- » Includes Two Bright LED Lights with Two Illumination Levels
- » No External Cables
- » NTSC or PAL
- » Standard Depth Rating of 4,000msw
- » Lights and Camera Managed by the Master Controller
- » Available on New Manipulator Systems or as an Upgrade Kit



The wrist-mounted TITAN integrated camera provides operators with an exceptional view of tasks being performed. The high-resolution camera and two bright LED lights are contained in an integrated titanium housing for maximum protection. Since signals and power are routed through the manipulator arm, there is no external cabling that can be snagged or abraded. Both NTSC and PAL cameras are available.

The manipulator wrist camera is compatible with any TITAN manipulator arm that features in-arm electronics. The camera can be ordered already installed on a new TITAN 4 manipulator system or can be ordered as a kit for existing TITAN 4 arms and TITAN 3 arms with in-arm electronics.

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## Complete Upgrade Kit

The camera upgrade kit contains all items needed to install the camera, including the camera/light assembly, an internal wiring harness that connects the camera/light assembly with the electronics board, and all necessary seals and fasteners. No software upgrade is required.

## Easily Installed

Installation consists of removing the wrist yaw resolver cover and replacing it with the camera/light assembly. A wiring harness from the assembly is threaded through the manipulator wireway to the forearm, where the harness plugs into the electronics board. The installation can be performed in less than one hour and requires no soldering or special tools.

## SPECIFICATIONS

- » **Camera Specifications**  
Image Sensor: 1/3 color Super HAD CCD  
Effective Pixels NTSC: 752 x 582  
PAL: 768 x 484  
Horizontal Resolution: 480 TV lines  
Min. Illumination: 0.3 lux at F2.0  
Video Output: 1.0 Vp-p composite  
75 Ohms  
Signal-to-Noise Ratio: More than 50db  
Lens: 3.6mm (39 degrees)
- » **Power Consumption**  
In-arm Electronics: 0.75 A at 24 VDC  
Including camera and lights at full intensity.  
Camera and Lights Only: 0.25 A at 24 VDC, at full intensity.
- » **Depth Rating: 4,000msw**
- » **Operating Temp: -10C to +50C**