

PROMON PRO camera module

- Camera module for AOS PROMON image streaming systems
- Built-in battery
- Eliminating external power supplies
- Ready-to-use 'external trigger', 'strobe out' and 'sync in' signals without extra wiring or circuitry



For applications where the AOS PROMON high speed imaging streaming software is used on factory floors, on appliances, on machines, it is essential that no unnecessary cables, connectors and power supplies are creating trouble. For these and similar applications, the PROMON PRO camera module solves these issues for good.

Some highlights:

- Camera module with 640 x 480 pixel resolution (other resolutions are available on request)
- Compact size: 102 x 71 x 71mm (w/o lens)
- Built-in, rechargeable battery. Eliminates the need for an external power supply and allows 1 hour of independent operation
- For long time process monitoring exceeding the battery capacity, the PROMON PRO camera head can be externally powered
- 'external trigger', 'strobe out' and 'sync in' signals can be directly used without the need of (another) external power supply, special cables or circuitry. Any closing contact will trigger the camera, while the 'strobe out' signal can directly be used to clock a strobe-light with TTL input
- The 'sync in' signal is used to synchronize the frame rate with an external device, i.e. rotating disks, levers or PLC signals
- Robust aluminium-housing – similar to X-PRI and X-MOTION cameras – provide extra robustness to mechanical impacts as well as an excellent screening against electro-magnetic noise as created by welding devices and AC-motor controllers
- IEEE1394b data cable can be securely connected and fasted to the PROMON PRO module to avoid data loss caused by instable connection of the data cable
- PROMON PRO is visually immediately recognized as part of the AOS camera family
- Integrated tripod threads (3/8" and 1/4"), no need for 'camera plates' and other accessories



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Possible system setup of PROMON PC



Camera module, cable, PC – nothing more
(no external power supplies, no pigtails, no 'adapters'...)

PROMON PRO camera module (standard type)

| | |
|--------------------------|---|
| Sensor | 640 x 480 pixels, 1/3", CMOS, color or monochrome |
| Shutter type | Global shutter („snapshot shutter“) |
| Frame rate | Up to 200 fps at full resolution |
| Shutter time | 18µsec – 1/fps |
| Dynamic range | 24-bit color, 8-bit monochrome |
| Supply voltage | 8...36VDC, 5W |
| Inputs | DC in, Trigger in, Sync in (all 5V TTL signals) |
| Outputs | Strobe out (5V TTL signal) |
| Data interface | IEEE1394b („Firewire b“) |
| Battery | Rechargeable NiMH-Battery, 1 hour capacity |
| Temperature range | Operation: +5...+45°C, Storage: 0...+60°C |
| Housing | Solid design, extruded and anodized aluminium housing |
| Size | 102 x 71 x 71mm |
| Lens mount | C-mount. 1/3" lenses cover the full format |
| Camera mounts | Standard 3/8" thread with 1/4" insert. |



PROMON PRO backplane

*PROMON PRO module is also available with different specifications
(i.e. higher resolution, different frame rate etc.) – please inquire*

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