ROSEEK Products Catalog
Product Portfolio

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    o Kylin3
    o Lynx1
  ➢ Camera Housing
    o TreeFrog1
    o TreeFrog3
  ➢ Vision Controller
    o Beaver2
  ➢ LED Strobe Lighting
    o Squirrel1
  ➢ Lens

■ Machine Vision
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  ➢ Industrial Camera
    o Dragonfly1
  ➢ Vision Controller
    o Beaver2
    o Kingfisher1
    o Kingfisher2
  ➢ Lens
## Smart Camera Selectors

<table>
<thead>
<tr>
<th>Application</th>
<th>ITS</th>
<th>Machine Vision</th>
</tr>
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<tbody>
<tr>
<td><strong>Product Series</strong></td>
<td><strong>Cheetah1 ITS Camera</strong></td>
<td><strong>Kylin3 ITS Camera</strong></td>
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<tr>
<td><strong>Processor</strong></td>
<td>Intel E3845</td>
<td>Hisilicon Hi3519</td>
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<tr>
<td><strong>Resolution</strong></td>
<td>1.6~8.9MP</td>
<td>1.6~8.9MP</td>
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<td><strong>Hardware</strong></td>
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<td>ARM Cortex A17, 1.15GHz 1G-Byte DDR3 256M-Byte Flash</td>
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<tr>
<td><strong>Software</strong></td>
<td>Windows IoT / Linux OS</td>
<td>Linux OS</td>
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Cheetah1 Series Smart Camera

- **X86 CPU Inside**
  - Industrial Intel® E3845 (1.91GHz, quad-core, 64-bit)
  - 4G-Byte DDR3L, 64G-Byte on-board storage

- **Operating System**
  - Windows 10 IoT or Linux

- **Features for ITS**
  - Powerful and open platform with SDK
  - Dual stream full HD H.264 output
  - USB 3.0 port and GPIO ports for extension devices
  - Embedded day/night switchable filter
## Cheetah1 Selection List

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>MP</th>
<th>Sensitivity Ratio</th>
<th>Max FPS</th>
<th>Shutter</th>
<th>Sensor Description</th>
<th>Resolution</th>
<th>Lens Mount</th>
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<td>15</td>
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</table>
Kylin3 Series Smart Camera

- **Hisilicon Hi3519**
  - ARM Cortex A17, 1.15GHz
  - 1G-Byte DDR3, 256M-Byte Flash

- **Operating System**
  - Embedded Linux

- **Features for ITS**
  - Global Shutter IP camera series with full resolutions from 1.6MP to 8.9MP
  - Easy to use and control
  - Featured APIs and SDK
  - 4K2K@30fps H.265/H.264 video streaming by hardware encoder
## Kylin3 Selection List

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>MP</th>
<th>Sensitivity Ratio</th>
<th>Max FPS</th>
<th>Shutter</th>
<th>Sensor Description</th>
<th>Resolution</th>
<th>Lens Mount</th>
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TreeFrog1 Camera Housing

Features

- High-reliability 6-LED/12-LED lighting: white light, IR light (850nm) or far-red light (740nm)
- Multiple input power options: 24VDC, 8~32VDC, PoE+ and 85~265VAC
- High-reliability Gigabit PoE surge protector
- Optional modules: Wi-Fi module
- Compatible with all series of Roseek smart cameras, camera pre-installation service available

Application

- ITS
TreeFrog3 Dual Camera Housing

- **Features**
  - Dual camera housing
  - High-reliability 12-LED/23-LED lighting: white light, IR light (850nm) or far-red light (740nm)
  - Multiple power supply options: 8-28VDC, 85~265VAC
  - IP66 rating

- **Application**
  - ITS
Squirrel1 Series LED Strobe Lighting

- **Features**
  - 48 LEDs and 3 wavelength options: white light, IR light (850nm) or far-red light (740nm)
  - Max pulsed 480W for white flash and 240W for NIR or far-red flash
  - Up to 1KHz trigger frequency
  - Power supply 8-28VDC
  - A 15m waterproof cable as standard configuration
  - Flexible configuration and control
  - IP67 rating

- **Application**
  - ITS
Woodpecker1 Series Smart Camera

- **x86 CPU Inside**
  - Industrial Intel® E3845 (1.91GHz, quad-core, 64-bit)
  - 4G-Byte DDR3L, 64G-Byte on-board storage

- **Operating System**
  - Windows 10 IoT or Linux

- **Features for Machine Vision**
  - Powerful and open platform with SDK
  - Image data transmitting through PCIe with lowest delay
  - Two constant current LED drivers
  - HDMI display port
  - I/O module for interface extension
  - Internal USB 2.0 for USB dongle
### Woodpecker1 Selection List

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Resolution</th>
<th>MAX FPS</th>
<th>Shutter</th>
<th>Sensor Description</th>
<th>Sensitivity Ratio</th>
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Kingfisher1 Vision Controller

- **x86 CPU Inside**
  - Industrial Intel® E3825 (1.33GHz, dual-core, 64-bit)
  - 2G-Byte DDR3L, 32G-Byte on-board storage

- **Operating System**
  - Windows 10 IoT or Linux

- **Features for Machine Vision**
  - Powerful and open platform with SDK
  - 1x constant current LED driver
  - VGA display port
  - I/O module for interface extension
  - Internal USB 2.0 for USB dongle
  - Wide operation temperatures -40°C to +80°C

- **Camera**
  - Can connect with 1 Dragonfly1 Camera
Kingfisher2 Vision Controller

- **x86 CPU Inside**
  - Industrial Intel® E3845 (1.91GHz, quad-core, 64-bit)
  - 4G-Byte DDR3L, 64G-Byte on-board storage

- **Operating System**
  - Windows 10 IoT or Linux

- **Features for Machine Vision**
  - Powerful and open platform with SDK
  - 1x constant current LED driver
  - VGA display port
  - I/O module for interface extension
  - Internal USB 2.0 for USB dongle
  - Wide operation temperatures -40°C to +80°C

- **Camera**
  - Can connect with 2 Dragonfly1 Cameras
Dragonfly1 Industrial Camera

- RoseekLink™ Interface
  - Work with Kingfisher1, Kingfisher2 or Dophin2

- Features for Machine Vision
  - Powerful and open platform with SDK in Kingfisher1, Kingfisher2 or Dophin2
  - Compact camera size 30x30x45mm
  - Image data transmitting through PCIe with lowest delay
  - Wide operation temperatures -40°C to +80°C
<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Resolution</th>
<th>MAX FPS</th>
<th>Shutter</th>
<th>Sensor Description</th>
<th>Sensitivity Ratio</th>
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<td>RSDF130MENN</td>
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<td>3.2M (2048x1536)</td>
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<td>4.7</td>
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<td>35.7</td>
<td>Global</td>
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<td>4.7</td>
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<tr>
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<td>5.1M (2456x2048)</td>
<td>35.7</td>
<td>Global</td>
<td>SONY CMOS IMX264LQR, 2/3&quot;, 3.45um</td>
<td>3</td>
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Beaver2 Vision Controller

- **x86 CPU Inside**
  - Industrial Intel® E3845 (1.91GHz, quad-core, 64-bit)
  - 4G-Byte DDR3L, 64G-Byte on-board storage

- **Operating System**
  - Windows 10 IoT or Linux

- **Applications**
  - Machine Vision
  - Intelligent Transport System

- **Features**
  - 4 GigE Camera Ports with PoE+ support
  - 4 independent constant current LED drivers
  - 8 digital inputs, 8 digital outputs
  - DIN-rail mounting, fanless design
  - Wide operation temperatures -40°C to +80°C
  - 3-year warranty
New Product Plan in Late 2018
Lynx1 All-in-One Smart Camera

- **Features**
  - All-in-one design (camera+lens+LED+camera housing) with waterproof IP67 rating
  - Resolution from 2MP to 8.9MP
  - Same processing platform as Cheetah1 based on Intel® ATOM E3845
  - Provide solo or dual camera option
  - Motorized lens for easy setup in the field
  - Options: AI accelerator, 4G/LTE, Wi-Fi
  - Support 8~28VDC or PoE+ power supply
  - Wide operation temperatures -40°C to +80°C

- **Application**
  - ITS

- **Schedule**
  - Prototype: Aug, 2018
  - Mass Production: Sep, 2018
Cheetah2 Series Smart Camera

- **Features**
  - Intel® ATOM E3950 CORE 2.0GHz(Burst)/1.6GHz
    - 60% performance boost than E3845 with same power consumption
  - 4 or 8 GB (2 channels) LPDDR4-2400
  - 64GB storage for OS
  - Support hardware 4K2K H.265/H.264 video encoder
  - Options: Movidius® VPU accelerator module for deep learning
  - Dimension and IO ports compatible with Cheetah1

- **Application**
  - ITS

- **Schedule**
  - Prototype: Nov, 2018
  - Mass Production: Dec, 2018
Dolphin2 Series Vision Controller

- **Features**
  - Intel® 7th Kaby Lake CPU i5-7440EQ
  - 4 or 8GB dual channel DDR4-2400
  - 64G-byte storage for OS, 2.5” HD slot
  - HDMI and VGA Display port
  - 4 or 8 RJ45 ports for GigE camera with PoE+ support or 4 RoseekLink™ camera ports
  - 4 independent constant current LED drivers
  - 16 digital inputs and 16 digital outputs
  - Options: AI accelerator, 4G/LTE, Wi-Fi
  - Wide operation temperatures 0°C to +70°C

- **Application**
  - Machine Vision
  - ITS

- **Schedule**
  - Prototype: Dec, 2018
  - Mass Production: Feb, 2019