# eTRUST

*Remote location monitoring system*

## Cloud-Based Disaster Monitoring Camera System

# eT002

## Watching over rivers, protecting lives.

Nationwide, over 2,500 river monitoring cameras—primarily for municipalities—have been deployed with our disaster prevention systems. Building on this extensive experience and knowledge, our latest model "eT002" has evolved into a more advanced camera system that incorporates direct feedback from the field.

**2025.4 New Release!**

Selected for the Tokyo Metropolitan Government's "Advanced Disaster Prevention Technology Practical Application Support Project" (2015)

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## Point 1

### Flexible System Configuration for Any Installation Environment

The compact system runs on solar power and LTE connectivity, enabling installation almost anywhere. Depending on site conditions, wireless LAN or wired LAN can also be used, and the system can be integrated with various sensors such as water level gauges.

**NEW** — Image capture possible at intervals as short as 1 minute

**NEW** — Remote maintenance
Monitor device status, check resources, and perform reboots

Intermittent operation reduces power consumption

Low-power system ensures up to 7 days of operation without sunlight

## Point 2

### Improved Nighttime Image Quality & Flexible Angle Adjustment

The system employs a proprietary high-sensitivity camera module, enabling clearer monitoring of river conditions at night without auxiliary lighting. It also features a varifocal lens, allowing flexible adjustment of the shooting range.

**Nighttime Image Sample**

Conventional River Monitoring Camera | eT002

**NEW** — Minimum illumination improved from 0.02 lux (eT001s) to 0.005 lux, delivering near-daylight brightness even at night

**NEW** — Equipped with a varifocal lens for wide-to-telephoto flexibility

**NEW** — Automatic exposure adjustment tailored to monitoring targets

Integration with LED floodlights (Optional)

## Point 3

### Proven Reliability Backed by Extensive Track Record

In 2019, we joined MLIT's "Innovative River Technology Project (Phase 3)". As of March 2025, approximately 2,500 of our river monitoring cameras, developed in compliance with government specifications, are in operation both domestically and internationally.

**National & Local Government Implementations**

Tohoku Regional Development Bureau, Kanto Regional Development Bureau, Hokuriku Regional Development Bureau, Chubu Regional Development Bureau, Chugoku Regional Development Bureau, Kyushu Regional Development Bureau / Aomori Prefecture, Miyagi Prefecture, Yamagata Prefecture, Fukushima Prefecture, Niigata Prefecture, Tochigi Prefecture, Gunma Prefecture, Nagano Prefecture, Tokyo Metropolitan Government, Chiba Prefecture, Kanagawa Prefecture, Aichi Prefecture, Ishikawa Prefecture, Nara Prefecture, Mie Prefecture, Hiroshima Prefecture, Kagawa Prefecture, Ehime Prefecture, Kochi Prefecture, Fukuoka Prefecture, Oita Prefecture, Kumamoto Prefecture, Miyazaki Prefecture, Kagoshima Prefecture, Okinawa Prefecture / Iwamizawa City, Shikama Town, Yamagata City, Fukushima City, Niigata City, Nagaoka City, Kiryu City, Utsunomiya City, Katsushika Ward, Mitaka City, Fujisawa City, Odawara City, Sodegaura City, Abiko City, Kawaguchi City, Susono City, Fujieda City, Kanazawa City, Okazaki City, Wakasa Town, Konan City, Hashimoto City, Ise City, Otake City, Fuchu City, Ube City, Kurume City, Iizuka City, Kumamoto City, Uto City, Soo City, Satsumasendai City, Nanjo City, and others.

**Others**

Including railway companies, solar power plants, private facilities, universities, research institutes, and more.

**Overseas**

Republic of the Union of Myanmar, Republic of the Philippines, People's Republic of Bangladesh, and others.

Based on this proven track record and expertise, the latest model was developed with a focus on usability and enhanced functionality for river monitoring operations.

## Stand Guard Disaster Prevention Cloud System

# eT-Cloud

A cloud system that enables browsing, monitoring, and control of captured images.
Reflecting feedback from municipal users and field operators,
it continues to evolve into a more intuitive and user-friendly cloud platform.

## Main Functions

■ **Image Editing Function**
Enables editing such as privacy masking, mosaics, and overlays,
and allows embedding of site names, timestamps,
and other information into images.

■ **Download Function**
Still images, time-lapse videos, and sensor data from a specified period
can be downloaded.

■ **Time-Lapse Video**
Plays time-lapse videos created from captured still images.

■ **Email & SMS Notifications**
Sends alerts, such as threshold exceedance or flooding detection,
to designated recipients.

■ **Multi-Device Support**
Automatically adjusts the layout for optimal viewing on PCs,
smartphones, and other devices.

■ **Digital Staff Gauge** `Optional`
Displays a virtual scale on captured images, allowing approximate water level checks.

■ **External Integration** `Optional`
Provides APIs for supplying images and data externally,
and allows automatic collection of images and data from external systems.

■ **Auto-Patrol Display** `Optional`
Designed for disaster control rooms and other large monitors,
it automatically cycles through displays of selected monitoring stations.

■ **Public Release** `Optional`
A web application that makes stored images and data available to the public,
equipped with load balancing to handle access surges during disasters.



**Cloud Monitoring Screen**
※Optional

Map-based view with installation locations
and the latest captured images at a glance.



**Auto-patrol display function**
※Optional

Displays the latest information from each location
in a slideshow format. Monitoring stations and
display duration can be customized in detail.

## Main Specifications

### Main Camera Unit

| | |
|---|---|
| Dimensions | W160×H174×D124mm (excluding brackets and protrusions) |
| Weight | Approx. 1.6kg (excluding brackets) |

**(Camera Section)**

| | |
|---|---|
| Image Sensor | 1/2.8-inch CMOS |
| Effective Pixels | Approx. 2.13 million |
| Minimum illuminance level | 0.005 lux |
| Output Resolution | VGA (640×480), HD (1280×720), FHD (1920×1080) |
| Lens Type | Varifocal Lens |
| Horizontal Viewing Angle | 45–90° (adjustable at installation) |

**(Sensor I/O Section)**

| | |
|---|---|
| Serial Port | RS-485 |
| Digital Input | 2 inputs |
| Digital Output | 2 outputs (including LED lighting control) |

### Solar Panel

| | |
|---|---|
| Rated Maximum Output | 27W or more |
| Dimensions | W538×H350×D35mm (excluding brackets and protrusions) |
| Weight | Approx. 2.8kg (excluding brackets) |

### Power Supply Box

| | |
|---|---|
| Rated Voltage/Capacity | 12V / 30Ah (capacity adjustable depending on installation conditions) |
| Dimensions | W300×H350×D250mm |
| Weight | Approx. 20.1kg (excluding brackets) |

### Environmental Performance

| | |
|---|---|
| Operating Temperature | -20 to +50°C (camera), -10 to +50°C (power supply box) |
| Humidity | 20–90% (non-condensing) |
| IP Rating | IP65 (camera unit) |

## Device Size & Dimensions  (unit: mm)
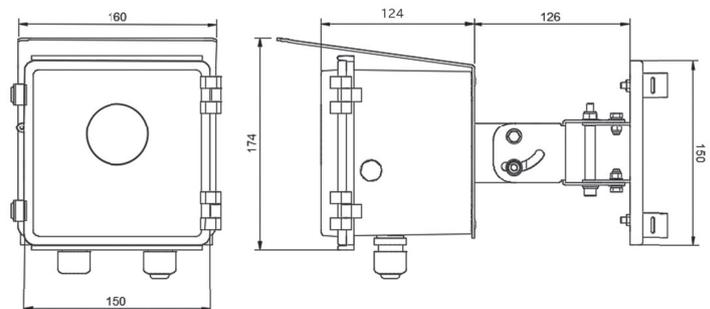


**NEW**

**Expanded Camera Range of Motion**
Tilt range expanded from +15°
upward to -50° downward

**Easy connection with peripheral devices**
Two cable glands provided for simplified
integration with external equipment



## eTRUST Co., Ltd.

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